

On K -derived quartics and invariants of local fields

by

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ABSTRACT

This dissertation will cover two topics. For the first, let K be a number field. A K -derived polynomial $f(x) \in K[x]$ is a polynomial that factors into linear factors over K , as do all of its derivatives. Such a polynomial is said to be *proper* if its roots are distinct. An unresolved question in the literature is whether or not there exists a proper \mathbb{Q} -derived polynomial of degree 4. Some examples are known of proper K -derived quartics for a quadratic number field K , although other than $\mathbb{Q}(\sqrt{3})$, these fields have quite large discriminant. (The second known field is $\mathbb{Q}(\sqrt{3441})$.) We will describe a search for quadratic fields K over which there exist proper K -derived quartics. The search finds examples for $K = \mathbb{Q}(\sqrt{D})$ with $D = \dots, -95, -41, -19, 21, 31, 89, \dots$

For the second topic, we know by Krasner's lemma there exist a finite number of degree n extensions of \mathbb{Q}_p . Jones and Roberts have developed a database recording invariants of p -adic extensions for low degree n . We will contribute data to this database by computing the Galois slope content, inertia subgroup, and Galois mean slope for a variety of wildly ramified extensions of composite degree using the idea of *global splitting models*.

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Part I

On K -derived quartics

Introduction

Let K be a number field, i.e. a finite extension of \mathbb{Q} . A K -derived polynomial is a polynomial $f(x) \in K[x]$ that factors into linear factors over K , as do all of its derivatives. Here is an example of a \mathbb{Q} -derived cubic:

$$f(x) = x^3 - 39x^2 + 360x = x(x - 15)(x - 24)$$

$$f'(x) = 3x^2 - 78x + 360 = 3(x - 6)(x - 20)$$

$$f''(x) = 6(x - 13).$$

There has been much interest in the case $K = \mathbb{Q}$, see Buchholz and Kelly (1995), Buchholz and MacDougall (2000), Carroll (1989), Chapple (1960), Flynn (2001), Galvin (1990), Galvin and MacDougall (1994). It is straightforward to describe all \mathbb{Q} -derived polynomials of degrees two and three. Quartic \mathbb{Q} -derived polynomials are known to exist when the quartic has a multiple root, for example $f(x) = x^2(x - 1)(77x - 90)$, and such polynomials have been fully characterized; see Buchholz & MacDougall Buchholz and MacDougall (2000). But it seems that no example is known of a \mathbb{Q} -derived polynomial of degree four (or greater) with distinct roots. We shall refer to a K -derived polynomial with distinct roots as *proper*. There seem to be very few results in this area regarding polynomials with distinct roots of degree five or more, whose derivatives factor with distinct roots. Choudhry Choudhry (2015) gives the examples of polynomials

$$f_1(x) = x(x - 180)(x - 285)(x - 460)(x - 780)$$

$$f_2(x) = (x^2 - 1565^2)(x^2 - 1795^2)(x^2 - 5161^2)$$

where just the first derivatives factor into linear factors. Stroeker Stroeker (2006) investigates \mathbb{Q} -derived quartics, and also finds examples of proper derived quartics

defined over the fields $\mathbb{Q}(\sqrt{D})$ for $D = 3, 3441, 3811, 9931$. We found it surprising that other than the field $\mathbb{Q}(\sqrt{3})$ there were apparently no examples known over quadratic fields $\mathbb{Q}(\sqrt{D})$ for D relatively small (less than 10^3 in absolute value). We will describe various attempts to find examples of proper K -derived quartics over quadratic number fields K . We find examples for $K = \mathbb{Q}(\sqrt{D})$ with $D = \dots, -95, -41, -19, 21, 31, 89, \dots$

The first approach taken is to find polynomials $f(x) \in \mathbb{Q}[x]$, such that $f(x)$ and $f'(x)$ factor completely over \mathbb{Q} and then to define K to be the field over which $f''(x)$ splits. We term this the "Top Down Approach". It is essentially the approach taken by Stroeker Stroeker (2006), and we rediscover the same fields K as given in his paper.

The second approach will find polynomials $f(x) \in \mathbb{Q}[x]$ such that $f'(x)$ and $f''(x)$ factor completely over \mathbb{Q} ; we then demand that $f(x)$ factor completely over a quadratic field K . This method we shall term the "Bottom Up Approach".

The third approach will find polynomials $f(x) \in \mathbb{Q}[x]$ such that $f(x)$ and $f''(x)$ factor completely over \mathbb{Q} ; we then demand that $f'(x)$ factor completely over a quadratic field K . This method will be termed the "Sandwich Approach".

Note that if $f(x) \in K[x]$ is of degree 4, then $f'''(x)$ is linear, and trivially factors over K . So in discussing K -derived polynomials of degree 4, it is only necessary to consider the complete factorization of $f(x)$, $f'(x)$, and $f''(x)$.

0.1 The Top Down Approach

In this section we assume that $f(x)$ and $f'(x)$ factor completely in \mathbb{Q} and force $f''(x)$ to factor over a quadratic extension. By horizontal shift we can let

$$f(x) = x(x-p)(x-q)(x-r) \text{ with } 0 < p < q < r \text{ and } p, q, r \in \mathbb{Q}$$

$$f'(x) = 4(x-s)(x-t)(x-u) \text{ with } 0 < s < t < u \text{ and } s, t, u \in \mathbb{Q}.$$

Then $f''(x) = 12x^2 - 8(s+t+u)x + 4(st+tu+us)$, so $f''(x)$ splits over the field $\mathbb{Q}(\sqrt{D})$ where $D = s^2 + t^2 + u^2 - st - tu - us$ by the quadratic formula. Note, because the roots of $f(x)$ are distinct then any extrema of $f(x)$ will fall in between two roots therefore $0 < s < p < t < q < u < r$.

Now

$$\begin{aligned} f'(x) &= 4x^3 + (-3p + -3q - 3r)x^2 + (2qp + 2rp + 2rq)x - rqp \\ &= 4x^3 + (-4s - 4t - 4u)x^2 + (4st + 4su + 4tu)x - 4stu \end{aligned}$$

Therefore

$$-3p - 3q - 3r + 4s + 4t + 4u = 0 \tag{1}$$

$$2qp + 2rp + 2rq - 4ts - 4us - 4ut = 0 \tag{2}$$

$$-rqp + 4uts = 0 \tag{3}$$

Solving for u in equation (3):

$$u = \frac{pqr}{4st}.$$

Substituting for u in equation (2):

$$-\frac{srqp + trqp}{ts} + 2qp + 2rp + 2rq - 4ts = 0.$$

From this expression we can solve for r :

$$r = \frac{2pqst - 4s^2t^2}{pqs + pqt - 2pst - 2qst}.$$

Once we substitute the expressions for r and u into equation (1) we have:

$$\begin{aligned} & -(2p^2q^2 - 3p^2qs - 3pq^2s + 4pqs^2 - 3p^2qt - 3pq^2t + 6p^2st + 10pqst + 6q^2st - 8ps^2t \\ & \quad - 8qs^2t + 4pqt^2 - 8pst^2 - 8qst^2 + 12s^2t^2)/(-pqs - pqt + 2pst + 2qst) = 0 \end{aligned}$$

We can set the previous expression's numerator equal to 0:

$$\begin{aligned} & 2q^2p^2 - 3sqp^2 - 3tqp^2 + 6tsp^2 - 3sq^2p - 3tq^2p + 4s^2qp + 10tsqp + 4t^2qp - 8ts^2p \\ & \quad - 8t^2sp + 6tsq^2 - 8ts^2q - 8t^2sq + 12t^2s^2 = 0 \quad (4) \end{aligned}$$

Viewing equation (4) as a quadratic polynomial where p is a rational root, its discriminant with respect to p must be a square:

$$\begin{aligned} & 9s^2q^4 - 30tsq^4 + 9t^2q^4 - 24s^3q^3 + 52ts^2q^3 + 52t^2sq^3 - 24t^3q^3 + 16s^4q^2 + 32ts^3q^2 \\ & \quad - 204t^2s^2q^2 + 32t^3sq^2 + 16t^4q^2 - 64ts^4q + 112t^2s^3q + 112t^3s^2q - 64t^4sq + 64t^2s^4 \\ & \quad - 160t^3s^3 + 64t^4s^2 = \square \quad (5) \end{aligned}$$

So given rational values of s , t , and q that satisfies equation (5), we can determine p and r . Thus we will have $f(x)$ such that $f(x)$ and $f'(x)$ factor completely over \mathbb{Q} , and we can then check if D is a square.

By scaling we can assume that t and q are integers. We treat equation (5) as a hyperelliptic curve H in terms of s , for given values of t and q . Using the computer algebra system Magma we find an elliptic curve E that corresponds to the H and a map that translates a point on H to a point on E . We then find the generators of the Mordell-Weil group of $E(\mathbb{Q})$. Calculating various linear combinations of the

generators, where the coefficients are within some bound, we compute points on E and pull back to the hyperelliptic curve. With this new point on the H , s will be the x -coordinate. We can organize values for t and q by their sum and ran a search where the sum of t and q ranged from 3 to 120.

From our search we found 3 quadratic fields $\mathbb{Q}(\sqrt{D})$ with $|D| \leq 5000$. There were many quartics where $f''(x)$ factors completely over $\mathbb{Q}(\sqrt{3})$; a interesting note is that all of these quartics belong to the parametrized family described below. There were also examples of quartics where $f''(x)$ factors over $\mathbb{Q}(\sqrt{3441})$ and $\mathbb{Q}(\sqrt{3811})$.

Theorem 0.1.1. *Consider the quartic $f(x) = x(x-1)(x-p)(x-p-1)$, where $p^2 + 1$ is a square number. Then $f(x)$ and $f'(x)$ will factor completely over \mathbb{Q} and $f''(x)$ will factor completely over $\mathbb{Q}(\sqrt{3})$.*

Proof. By construction $f(x)$ factors completely over \mathbb{Q} . And

$$\begin{aligned} f'(x) &= 4x^3 + (-6p - 6)x^2 + (2p^2 + 6p + 2)x - p^2 - p \\ &= (2x - p - 1)(2x^2 + (-2p - 2)x + p). \end{aligned}$$

The discriminant of the quadratic with respect to x is $4(p^2 + 1)$ and since $p^2 + 1$ is a square, $f'(x)$ will factor completely over \mathbb{Q} .

Lastly

$$f''(x) = 12x^2 + (-12p - 12)x + (2p^2 + 6p + 2).$$

The discriminant of $f''(x)$ with respect to x is $48(p^2 + 1)$. Again since $p^2 + 1$ is a square and $48 = 3 \cdot 4^2$, $f''(x)$ will factor completely over $\mathbb{Q}(\sqrt{3})$. \square

0.2 The Bottom Up Approach

For this approach we require that $f'(x)$ and $f''(x)$ factor over \mathbb{Q} and force $f(x)$ to factor over a quadratic extension. Again by both horizontal shift and scaling suppose that

$$f''(x) = 12x(x - 2)$$

$$f'(x) = 4(x - t)(x - u)(x - v) \text{ with } 0 < t < u < v \text{ and } t, u, v \in \mathbb{Q},$$

and thus

$$\begin{aligned} f''(x) &= 12x^2 - 8(t + u + v)x + 4(tu + tv + uv) \\ &= 12x^2 - 24x. \end{aligned}$$

Therefore

$$t + u + v = 3 \quad \text{and} \quad tu + tv + uv = 0.$$

So $v = 3 - t - u$, and substituting for v into the second equation:

$$t^2 + tu + u^2 - 3t - 3u = 0.$$

A parametrization of solutions of this conic is

$$(t, u) = \left(\frac{3a(a+1)}{a^2+a+1}, \frac{3(a+1)}{a^2+a+1} \right).$$

Thus

$$(t, u, v) = \left(\frac{3a(a+1)}{a^2+a+1}, \frac{3(a+1)}{a^2+a+1}, \frac{-3a}{a^2+a+1} \right).$$

Finally, we require $f(x) = (x - p)(x - q)(x - r)(x - s)$, therefore

$$\begin{aligned} f(x) &= x^4 - 4x^3 - 4tuvx + pqrs \\ &= x^4 - (p + q + r + s)x^3 + (pq + pr + ps + qr + qs + rs)x^2 \\ &\quad - (pqr + pqs + prs + qrs)x + pqrs. \end{aligned}$$

So

$$p + q + r + s = 4, \quad pq + pr + ps + qr + qs + rs = 0, \quad pqr + pqs + prs + qrs = 4tuv.$$

We write

$$(p, q, r, s) = \frac{6}{a^2 + a + 1}(P, Q, R, S),$$

so that

$$P + Q + R + S = \frac{2}{3}(a^2 + a + 1) \quad (6)$$

$$PQ + PR + QR + PS + QS + RS = 0 \quad (7)$$

$$PQR + PQS + PRS + QRS = -\frac{1}{2}a^2(a + 1)^2. \quad (8)$$

Solving for S in equation (6) we will have $S = \frac{2}{3}(a^2 + a + 1) - P - Q - R$. Substituting for S into equation (7) and (8):

$$\begin{aligned} 3a^2(a + 1)^2 + 4(a^2 + a + 1)PQ - 6PQ(P + Q) + 2(P + Q)(2(a^2 + a + 1) \\ - 3(P + Q))R - 6(P + Q)R^2 = 0 \quad (9) \end{aligned}$$

$$\begin{aligned} (2(a^2 + a + 1)(P + Q) - 3(P^2 + PQ + Q^2)) + (2(a^2 + a + 1) - 3(P + Q))R \\ - 3R^2 = 0. \quad (10) \end{aligned}$$

The difference of equation (9) and $2(P + Q)$ times equation (10) is:

$$3a^2(a + 1)^2 - 4(a^2 + a + 1)(P^2 + PQ + Q^2) + 6(P + Q)(P^2 + Q^2) = 0. \quad (11)$$

Equation (11) is that of a cubic curve with point at infinity $(1, -1, 0)$. A cubic model of equation (11) is

$$E : y^2 = x(x - 3a(2 + a)(-2 - 2a + a^2))(x + 3(1 + 2a)(-1 + 2a + 2a^2)),$$

with mapping

$$(x, y) =$$

$$\begin{aligned} &(-3(-2 - 2a + a^2)(-1 + 2a + 2a^2)(P + Q + a)/(-3(P + Q) + (1 + a + a^2)), \\ &-3(-2 - 2a + a^2)(1 + 4a + a^2)(-1 + 2a + 2a^2)(P - Q)/(-3(P + Q) + (1 + a + a^2)) \end{aligned}$$

and inverse

$$(P, Q) =$$

$$\begin{aligned} &((3a(2 - 2a - 9a^2 - 2a^3 + 2a^4) + (1 + a + a^2)x + y)/(-6(2 - 2a - 9a^2 - 2a^3 + 2a^4 - x)), \\ &(3a(2 - 2a - 9a^2 - 2a^3 + 2a^4) + (1 + a + a^2)x - y)/(-6(2 - 2a - 9a^2 - 2a^3 + 2a^4 - x)). \end{aligned}$$

Also, taking the discriminant with respect to R of equation (10)

$$4(a^2 + a + 1)^2 + 12(a^2 + a + 1)(P + Q) - 9(3P^2 + 2PQ + 3Q^2) = \square$$

Under the above transformation on P and Q the discriminant translates into:

$$H := ((-2 - 2a + a^2)^2 - x)(2(-2 - 2a + a^2)(-1 + 2a + 2a^2) - x)((-1 + 2a + 2a^2)^2 - x) = \square.$$

Note that this is equivalent not only to x being an x -coordinate of a point on E , but also $2(-2 - 2a + a^2)(-1 + 2a + 2a^2) - x$ being an x -coordinate of a point on E .

Therefore on putting $X = (-2 - 2a + a^2)(-1 + 2a + 2a^2) - x$, the elliptic curve E is translated to:

$$E_1 : Y^2 = ((-2 - 2a + a^2)(-1 + 2a + 2a^2) - X)((1 + 4a + a^2)(-1 + 2a + 2a^2) - X) \cdot \\ ((2 + 2a - a^2)(1 + 4a + a^2) - X)$$

Applying the same substitution on H :

$$E_2 : Y^2 = ((-2 - 2a + a^2)(-1 + 2a + 2a^2) + X)((1 + 4a + a^2)(-1 + 2a + 2a^2) + X) \cdot \\ ((2 + 2a - a^2)(1 + 4a + a^2) + X)$$

If there is a point that is on both E_1 and E_2 , we can use the inverse map and determine p, q, r and s . Now $f(x)$ will be a polynomial that has at least 2 rational root (since R and S are solution to equation (10), r and s may not be rational), with $f'(x)$ and $f''(x)$ factoring completely over \mathbb{Q} , we can then check whether $f(x)$ will have 4 rational roots. Note that we can also use E or H instead of E_1 or E_2 respectively.

For a value of a we find points on E_2 with a bound of 10^5 on the height of the point. With a point on E_2 found, if the y -coordinate is non-zero (if $y = 0$, then $p = q$), then the x -coordinate will be X . If the point is also E_1 , then we compute p, q, r, s and check that all the roots of $f(x)$ are rational. In the search we used values of a where the sum of the absolute value of the numerator and denominator of a ranged from 2 to 250.

For certain values of a , Magma finds a large number of points on E_2 . For these a values, we try to find the set of generators for the points E_2 . Then we compute linear combinations of the torsion-free generators where the range of the coefficient of

the generators is -6 to 6 . Once computing the point, we continue the same procedure.

When finding quadratic fields, $\mathbb{Q}(\sqrt{D})$, we limited to the range $|D| < 10^3$. Using this approach we found the following:

$$D = -759, -391, -249, -183, -159, -155, -134, -106, -95, -41, -19, 3, 21, 31, 89, \\ 102, 114, 141, 159, 190, 209, 217, 229, 269, 309, 321, 346, 491, 565, 601, 606, 665, 849, 989.$$

As in the first approach we identified an infinite family of $\mathbb{Q}(\sqrt{3})$ -derived quartics.

Theorem 0.2.1. *Let $f(x) = (x - p)(x - \frac{3}{p})(x - \sqrt{3})(x + \sqrt{3})$ with $p = \frac{\lambda(\lambda^2 - 9)}{3(\lambda^2 - 1)}$ for $\lambda \in \mathbb{Q} \setminus \{0, \pm 1, \pm 3\}$. Then $f(x)$ is a proper $\mathbb{Q}(\sqrt{3})$ -derived quartic, with*

$$f'(x) = 4 \left(x - \frac{\lambda^2 + 3}{4\lambda} \right) \left(x - \frac{\lambda^2 + 3}{(\lambda + 1)(\lambda - 3)} \right) \left(x + \frac{\lambda^2 + 3}{(\lambda - 1)(\lambda + 3)} \right), \\ f''(x) = 12x \left(x - \frac{p^2 + 3}{2p} \right).$$

Proof. By construction $f(x)$ factors completely over $\mathbb{Q}(\sqrt{3})$. Now

$$f'(x) = 4x^3 + \left(\frac{-3p^2 - 9}{p} \right) x^2 + \frac{3p^2 + 9}{p} \\ = 4x^3 - \frac{(\lambda^2 + 3)^3}{\lambda(\lambda^2 - 1)(\lambda^2 - 9)} x^2 + \frac{(\lambda^2 + 3)^3}{\lambda(\lambda^2 - 1)(\lambda^2 - 9)} \\ = 4 \left(x - \frac{\lambda^2 + 3}{4\lambda} \right) \left(x - \frac{\lambda^2 + 3}{(\lambda + 1)(\lambda - 3)} \right) \left(x + \frac{\lambda^2 + 3}{(\lambda - 1)(\lambda + 3)} \right).$$

Additionally,

$$f''(x) = 12x^2 - \frac{6p^2 + 18}{p} x \\ = 12x \left(x - \frac{p^2 + 3}{2p} \right).$$

□

0.3 The Sandwich Approach

For this last approach we require that both $f(x)$ and $f''(x)$ factor over \mathbb{Q} , and $f'(x)$ to factor over a quadratic extension. By horizontal shift assume that

$$f(x) = x(x-p)(x-q)(x-r) \text{ with } 0 < p < q < r \text{ and } p, q, r \in \mathbb{Q}$$

$$f''(x) = 12(x-v)(x-w) \text{ with } 0 < v < w \text{ and } v, w \in \mathbb{Q}.$$

Therefore

$$\begin{aligned} f''(x) &= 12(x-v)(x-w) \\ &= 12x^2 - 12(v+w)x + 12vw \\ &= 12x^2 - 6(p+q+r)x + (pq+pr+qr). \end{aligned}$$

Thus

$$-12(v+w) = -6(p+q+r) \tag{12}$$

$$12vw = pq + pr + qr. \tag{13}$$

Solving for w in equation (12):

$$w = (p+q+r)/2 - v \tag{14}$$

Substituting for w into equation (13):

$$pq + pr + qr - 3pv - 3qv - 3rv + 6v^2 = 0.$$

Then solving for r

$$r = \frac{(pq - 3pv - 3qv + 6v^2)}{3v - p - q}. \tag{15}$$

Substituting for r into equation (14):

$$w = \frac{p^2 + pq + q^2 - 2(p+q)v}{2(p+q-3v)}.$$

Note that from $p+q=3v$ it follows that $p^2 - 3pv + 3v^2 = 0$, so the quadratic field has to be $\mathbb{Q}(\sqrt{-3})$, but the first derivative cannot factor over this field. So without loss of generality $p+q-3v \neq 0$. Let the first derivative equal $4(x-s)(x^2+tx+u)$, so that

$$\begin{aligned} f'(x) &= 4(x-s)(x^2+tx+u) \\ &= 4x^3 + (4t-4s)x^2 + (4u-4st)x - 4su \\ &= 4x^3 + (-3p-3q-3r)x^2 + (2pq+2pr+2qr)x - pqr. \end{aligned}$$

Therefore

$$-3p-3q-3r = 4t-4s \tag{16}$$

$$2pq+2pr+2qr = 4u-4st \tag{17}$$

$$-pqr = -4su. \tag{18}$$

Solving for s in equation (16), and then using equation (15) to eliminate r :

$$s = \frac{3p^2 + 3pq + 3q^2 + 4pt + 4qt - 12tv - 18v^2}{4(p+q-3v)}.$$

Solving for u and eliminating r and s from equation (17)

$$\begin{aligned} u = \frac{1}{4(p+q-3v)} (3p^2t + 3pqt + 3q^2t + 4pt^2 + 4qt^2 + 6p^2v + 6pqv + 6q^2v - 12t^2v \\ - 12pv^2 - 12qv^2 - 18tv^2). \end{aligned}$$

Finally eliminating $r, s,$ and u from equation (18) and setting it equal to 0, we get a rational function with denominator $4(p+q-3v)^2$, which will be nonzero, therefore

we can set the numerator equal to 0.

$$\begin{aligned}
& 4p^3q^2 + 4p^2q^3 + 9p^4t + 18p^3qt + 27p^2q^2t + 18pq^3t + 9q^4t + 24p^3t^2 + 48p^2qt^2 + 48pq^2t^2 \\
& + 24q^3t^2 + 16p^2t^3 + 32pqt^3 + 16q^2t^3 + 18p^4v + 24p^3qv + 18p^2q^2v + 24pq^3v + 18q^4v \\
& + 24p^3tv + 48p^2qtv + 48pq^2tv + 24q^3tv - 72p^2t^2v - 72pqt^2v - 72q^2t^2v - 96pt^3v \\
& - 96qt^3v - 36p^3v^2 - 12p^2qv^2 - 12pq^2v^2 - 36q^3v^2 - 228p^2tv^2 - 276pqtv^2 - 228q^2tv^2 \\
& - 144pt^2v^2 - 144qt^2v^2 + 144t^3v^2 - 108p^2v^3 - 180pqv^3 - 108q^2v^3 + 144ptv^3 + 144qtv^3 \\
& + 432t^2v^3 + 216pv^4 + 216qv^4 + 324tv^4 = 0
\end{aligned} \tag{19}$$

Given a rational point (p, q, t, v) on this surface of degree 5, we can recover r, s, u, w . We searched the surface for rational points up to a height bound of 10^4 . Now $f(x)$ will be a polynomial such that $f(x)$ and $f''(x)$ factor completely and $f'(x)$ has at least 1 rational root, and we can check if $f'(x)$ completely factors over \mathbb{Q} . The following fields $\mathbb{Q}(\sqrt{D})$ arise in the range $|D| < 10^3$:

$$D = 3, 97, 141, 177, 185, 345, 553, 601, 793, 849.$$

In this case too we find an infinite family of proper $\mathbb{Q}(\sqrt{3})$ -derived quartics.

Theorem 0.3.1. *Let $f(x) = x(x-1)(x-\frac{1}{p})(x-\frac{1}{2-p})$, with $p = \frac{(t+1)(t^2-4t+1)}{1-3t^2}$ for $t \in \mathbb{Q} \setminus \{\pm 1\}$. Then $f(x)$ is a proper $\mathbb{Q}(\sqrt{3})$ -derived quartic, with*

$$\begin{aligned}
f'(x) &= 4 \left(x - \frac{3t^2 - 1}{4(-1 + t^2)} \right) \left(x - \frac{1 - 7t^2 - t(1 + t^2)\sqrt{3}}{t^4 - 14t^2 + 1} \right) \left(x - \frac{1 - 7t^2 + t(1 + t^2)\sqrt{3}}{t^4 - 14t^2 + 1} \right), \\
f''(x) &= 12 \left(x - \frac{1}{2} \right) \left(x - \frac{1}{p(2-p)} \right).
\end{aligned}$$

Proof. By construction $f(x)$ factors completely over \mathbb{Q} . And

$$\begin{aligned}
f'(x) &= 4x^3 + \left(\frac{3p^2 - 6p - 6}{2p - p^2}\right)x^2 + \left(\frac{6}{2p - p^2}\right)x - \frac{1}{2p - p^2} \\
&= 4x^3 - \frac{3(t^6 - 33t^4 + 27t^2 - 3)}{(t^2 - 1)(t^4 - 14t^2 + 1)}x^2 - \frac{6(3t^2 - 1)^2}{(t^2 - 1)(t^4 - 14t^2 + 1)}x + \frac{(3t^2 - 1)^2}{(t^2 - 1)(t^4 - 14t^2 + 1)} \\
&= 4\left(x - \frac{3t^2 - 1}{4(t^2 - 1)}\right)\left(x^2 + \frac{(14t^2 - 7)}{t^4 - 14t^2 + 1}x - \frac{3t^2 - 1}{t^4 - 14t^2 + 1}\right) \\
&= 4\left(x - \frac{3t^2 - 1}{4(t^2 - 1)}\right)\left(x - \frac{1 - 7t^2 - t(t^2 + 1)\sqrt{3}}{t^4 - 14t^2 + 1}\right)\left(x - \frac{1 - 7t^2 + t(t^2 + 1)\sqrt{3}}{t^4 - 14t^2 + 1}\right)
\end{aligned}$$

Finally

$$\begin{aligned}
f''(x) &= 12x^2 + \left(\frac{6p^2 - 12p - 12}{2p - p^2}\right)x + \left(\frac{6}{2p - p^2}\right) \\
&= 12\left(x - \frac{1}{2}\right)\left(x - \frac{1}{p(2 - p)}\right)
\end{aligned}$$

□

0.4 Table of solutions

Collecting together the quadratic fields K from the above sections, we compile the following list of proper K -derived quartics for $K = \mathbb{Q}(\sqrt{D})$, $|D| < 10^3$, $D \neq 3$. For given $D = a^2$, the row entry comprises (r, s) , (t, u, v) , and (m, n) , corresponding to the proper K -derived quartic given by $f(x) = x(x - 1)(x - r)(x - s)$, with $f'(x) = 4(x - t)(x - u)(x - v)$, and $f''(x) = 12(x - m)(x - n)$. For each (r, s) , we computed the 12 equivalent quartics obtained by translation and scaling in order to keep two of the roots 0 and 1. We then chose a representative quartic with “small” coefficients. But we have not focused on any canonical way of representing the equivalence class.

| D | r | s | t | u | v | m | n |
|------|-----------------------------|-----------------------------|-------------------|------------------------|------------------------|---------------------|--------------------|
| -759 | $\frac{17(1915-9a)}{14924}$ | $\frac{17(1915+9a)}{14924}$ | $\frac{17}{8}$ | $\frac{812}{533}$ | $\frac{34}{91}$ | $\frac{6919}{3731}$ | $\frac{43}{52}$ |
| -391 | $\frac{43-a}{140}$ | $\frac{43+a}{140}$ | $\frac{4}{5}$ | $\frac{2}{7}$ | $\frac{1}{8}$ | $\frac{17}{28}$ | $\frac{1}{5}$ |
| -249 | $\frac{6(24-a)}{275}$ | $\frac{6(24+a)}{275}$ | $\frac{3}{4}$ | $\frac{6}{11}$ | $\frac{6}{25}$ | $\frac{33}{50}$ | $\frac{4}{11}$ |
| -183 | $\frac{279(32-a)}{42245}$ | $\frac{279(32+a)}{42245}$ | $\frac{279}{355}$ | $\frac{93}{476}$ | $\frac{3}{35}$ | $\frac{341}{595}$ | $\frac{687}{4970}$ |
| -159 | $\frac{3(-57-2a)}{175}$ | $\frac{3(-57+2a)}{175}$ | $\frac{111}{175}$ | $-\frac{3}{5}$ | $-\frac{3}{4}$ | $\frac{1}{5}$ | $-\frac{237}{350}$ |
| -155 | $\frac{5(41-a)}{432}$ | $\frac{5(41+a)}{432}$ | $\frac{5}{6}$ | $\frac{17}{36}$ | $\frac{5}{32}$ | $\frac{295}{432}$ | $\frac{7}{24}$ |
| -134 | $\frac{-2290-49a}{5508}$ | $\frac{-2290+49a}{5508}$ | $\frac{47}{68}$ | $-\frac{1}{6}$ | $-\frac{43}{108}$ | $\frac{121}{324}$ | $-\frac{59}{204}$ |
| -106 | $\frac{13(407-36a)}{10925}$ | $\frac{13(407+36a)}{10925}$ | $\frac{13}{19}$ | $\frac{31}{76}$ | $\frac{221}{575}$ | $\frac{559}{950}$ | $\frac{173}{437}$ |
| -95 | $\frac{5(11-a)}{108}$ | $\frac{5(11+a)}{108}$ | $\frac{5}{8}$ | $\frac{5}{9}$ | $\frac{1}{3}$ | $\frac{16}{27}$ | $\frac{5}{12}$ |
| -41 | $\frac{2(-20-a)}{63}$ | $\frac{2(-20+a)}{63}$ | $\frac{2}{3}$ | $-\frac{2}{7}$ | $-\frac{7}{12}$ | $\frac{13}{42}$ | $-\frac{4}{9}$ |
| -19 | $\frac{9(32-7a)}{575}$ | $\frac{9(32+7a)}{575}$ | $\frac{3}{5}$ | $\frac{51}{100}$ | $\frac{9}{23}$ | $\frac{129}{230}$ | $\frac{11}{25}$ |
| 21 | $\frac{21(3-2a)}{425}$ | $\frac{21(3+2a)}{425}$ | $\frac{21}{25}$ | $\frac{21}{68}$ | $-\frac{3}{17}$ | $\frac{21}{34}$ | $\frac{13}{425}$ |
| 31 | $\frac{7(11-a)}{90}$ | $\frac{7(11+a)}{90}$ | $\frac{7}{6}$ | $\frac{7}{10}$ | $\frac{1}{6}$ | $\frac{29}{30}$ | $\frac{7}{18}$ |
| 89 | $\frac{45(-2-a)}{119}$ | $\frac{45(-2+a)}{119}$ | $\frac{15}{7}$ | $\frac{225}{476}$ | -3 | $\frac{165}{119}$ | $-\frac{23}{14}$ |
| 97 | $-\frac{53}{9}$ | $\frac{13}{109}$ | $-\frac{13}{3}$ | $\frac{989+85a}{2616}$ | $\frac{989-85a}{2616}$ | $\frac{7}{18}$ | $-\frac{907}{327}$ |
| 102 | $\frac{40(257-6a)}{7049}$ | $\frac{40(257+6a)}{7049}$ | $\frac{335}{212}$ | $\frac{56}{53}$ | $\frac{40}{133}$ | $\frac{1360}{1007}$ | $\frac{451}{742}$ |
| 114 | $\frac{9(93-4a)}{595}$ | $\frac{9(93+4a)}{595}$ | $\frac{117}{68}$ | $\frac{15}{17}$ | $\frac{9}{35}$ | $\frac{1639}{1190}$ | $\frac{9}{17}$ |
| 141 | $\frac{27(1-a)}{560}$ | $\frac{27(1+a)}{560}$ | $\frac{27}{32}$ | $\frac{3}{10}$ | $-\frac{9}{28}$ | $\frac{171}{280}$ | $-\frac{1}{16}$ |
| 159 | $\frac{27(-11-a)}{238}$ | $\frac{27(-11+a)}{238}$ | $\frac{171}{238}$ | $\frac{3}{34}$ | $-\frac{27}{14}$ | $\frac{101}{238}$ | $-\frac{279}{238}$ |
| 177 | $-\frac{3}{4}$ | $\frac{8}{21}$ | $\frac{3}{16}$ | $\frac{3+a}{21}$ | $\frac{3-a}{21}$ | $\frac{11}{21}$ | $-\frac{5}{24}$ |
| 185 | $-\frac{3519}{10764}$ | $\frac{5408}{10764}$ | $\frac{13}{16}$ | $\frac{31+15a}{897}$ | $\frac{31-15a}{897}$ | $\frac{121}{207}$ | $\frac{1}{312}$ |
| 190 | $\frac{5(67-4a)}{189}$ | $\frac{5(67+4a)}{189}$ | $\frac{23}{9}$ | $\frac{5}{7}$ | $\frac{5}{36}$ | $\frac{235}{126}$ | $\frac{11}{27}$ |
| 209 | $\frac{18(163-5a)}{1679}$ | $\frac{18(163+5a)}{1679}$ | $\frac{48}{23}$ | $\frac{72}{73}$ | $\frac{87}{292}$ | $\frac{5523}{3358}$ | $\frac{44}{73}$ |
| 217 | $\frac{7(107-a)}{585}$ | $\frac{7(107+a)}{585}$ | $\frac{4}{3}$ | $\frac{21}{20}$ | $\frac{56}{195}$ | $\frac{469}{390}$ | $\frac{26}{45}$ |

| | | | | | | | |
|-----|-----------------------------|-----------------------------|--------------------|------------------------|------------------------|-----------------------|-----------------------|
| 229 | $\frac{5(89-13a)}{3591}$ | $\frac{5(89+13a)}{3591}$ | $\frac{50}{63}$ | $\frac{30}{133}$ | $-\frac{1}{12}$ | $\frac{215}{378}$ | $\frac{22}{399}$ |
| 241 | $\frac{2(-4+a)}{9}$ | $\frac{43+13a}{81}$ | $\frac{7+a}{8}$ | $\frac{-37+3a}{24}$ | $\frac{31+a}{27}$ | $\frac{-7+a}{9}$ | $\frac{178+13a}{162}$ |
| 269 | $\frac{9(73-a)}{115}$ | $\frac{9(73+a)}{115}$ | 6 | $\frac{66}{23}$ | $\frac{9}{20}$ | $\frac{542}{115}$ | $\frac{3}{2}$ |
| 309 | $\frac{5(74-3a)}{847}$ | $\frac{5(74+3a)}{847}$ | $\frac{25}{28}$ | $\frac{5}{11}$ | $\frac{7}{121}$ | $\frac{601}{847}$ | $\frac{5}{22}$ |
| 321 | $\frac{9(44-a)}{275}$ | $\frac{9(44+a)}{275}$ | $\frac{171}{100}$ | $\frac{51}{55}$ | $\frac{3}{11}$ | $\frac{381}{275}$ | $\frac{61}{110}$ |
| 345 | $-\frac{72}{49}$ | $\frac{387}{728}$ | $\frac{516}{637}$ | $\frac{-171+15a}{448}$ | $\frac{-171-15a}{448}$ | $\frac{27}{49}$ | $-\frac{757}{1456}$ |
| 346 | $\frac{13(74-a)}{2700}$ | $\frac{13(74+a)}{2700}$ | $\frac{247}{300}$ | $\frac{13}{36}$ | $\frac{1}{10}$ | $\frac{1727}{2700}$ | $\frac{13}{60}$ |
| 491 | $\frac{27(349-34a)}{40075}$ | $\frac{27(349+34a)}{40075}$ | $\frac{813}{916}$ | $\frac{423}{1145}$ | $-\frac{27}{175}$ | $\frac{26783}{40075}$ | $\frac{153}{2290}$ |
| 553 | $-\frac{6}{85}$ | $\frac{2}{9}$ | $\frac{2}{15}$ | $\frac{149+7a}{408}$ | $\frac{149-7a}{408}$ | $\frac{8}{15}$ | $\frac{13}{306}$ |
| 565 | $\frac{27(194-5a)}{323}$ | $\frac{27(194+5a)}{323}$ | $\frac{1383}{68}$ | $\frac{81}{19}$ | $\frac{9}{19}$ | $\frac{549}{38}$ | $\frac{733}{323}$ |
| 601 | $\frac{95(41-a)}{7452}$ | $\frac{95(41+a)}{7452}$ | $\frac{25}{27}$ | $\frac{95}{184}$ | $\frac{19}{207}$ | $\frac{5605}{7452}$ | $\frac{56}{207}$ |
| 606 | $\frac{3(480-23a)}{392}$ | $\frac{3(480+23a)}{392}$ | $\frac{339}{56}$ | $\frac{57}{98}$ | $-\frac{3}{8}$ | $\frac{229}{56}$ | $\frac{33}{392}$ |
| 665 | $\frac{7(149-5a)}{2788}$ | $\frac{7(149+5a)}{2788}$ | $\frac{7}{8}$ | $\frac{7}{17}$ | $\frac{1}{41}$ | $\frac{28}{41}$ | $\frac{13}{68}$ |
| 793 | $\frac{217}{9}$ | $\frac{49}{10}$ | $\frac{7}{15}$ | $\frac{529+13a}{48}$ | $\frac{529-13a}{48}$ | $\frac{473}{36}$ | $\frac{28}{15}$ |
| 849 | $\frac{9(53-a)}{140}$ | $\frac{9(53+a)}{140}$ | $\frac{21}{5}$ | $\frac{9}{7}$ | $\frac{3}{8}$ | $\frac{87}{28}$ | $\frac{4}{5}$ |
| 989 | $\frac{27(-157-6a)}{1015}$ | $\frac{27(-157+6a)}{1015}$ | $\frac{939}{1015}$ | $\frac{9}{29}$ | $-\frac{27}{4}$ | $\frac{181}{290}$ | $-\frac{873}{203}$ |

Part II

Invariants of local fields

Introduction

For a number field K , i.e. a finite extension of \mathbb{Q} , and for each prime p , we have an associated p -adic algebra $K \otimes \mathbb{Q}_p \cong \prod_{i=1}^g K_{p,i}$, where each $K_{p,i}$ is a finite extension of \mathbb{Q}_p .

We can answer a variety of questions about K using basic invariants of the $K_{p,i}$, such as ramification index and residue field degree. For more advanced questions, there is a need for more detailed information about the p -adic extensions, such as the Galois group and ramification groups, which allows us to measure the wild ramification of the extension.

Let $\mathcal{K}(p, n)$ be the set of isomorphism classes of degree n extensions of \mathbb{Q}_p . The sets $\mathcal{K}(p, n)$ are finite, as a consequence of Krasner's Lemma, see for example Lang (2013). Our goal is to record information that encapsulates the filtration of the Galois group by its ramification groups for each extension for particular $\mathcal{K}(p, n)$, as well as some companion results.

To easily compute the data relating to the ramification groups for an extension K of \mathbb{Q}_p , we introduce the idea of a *global splitting model*. A global splitting model, in short, is an irreducible polynomial in $\mathbb{Z}[x]$ such that the field generated by a root of this polynomial whether over \mathbb{Q} or \mathbb{Q}_p will have the same Galois group.

For a given p -adic extension we use techniques coming from inverse Galois theory such as generic polynomials, three point covers, and class field theory to find a global splitting model. In particular, I developed an original technique to find our desired

number fields using generic polynomials and Panayi's root finding algorithm, which is an algorithm that finds the roots of a polynomial in a local field. Pauli and Roblot (2001)

In keeping with the philosophy of Jones and Roberts Jones and Roberts (2014), all data will be available at <http://math.asu.edu/~jj/localfields> as well as <http://www.lmfdb.org/LocalNumberField/> so that all computations are recorded once and is freely available for those who are interested.

The cases in which the filtration of a Galois group by its ramification groups are interesting and most difficult are the wild extensions of composite degree. For wildly ramified extensions of degree 11 and lower, Jones and Roberts have computed all data relating to their ramification groups. The next interesting cases that we investigating are $\mathcal{K}(2, 12)$, $\mathcal{K}(3, 12)$, $\mathcal{K}(2, 14)$, $\mathcal{K}(7, 14)$, $\mathcal{K}(3, 15)$ and $\mathcal{K}(5, 15)$. Note the invariants for these field extensions that we will make use of such as a defining polynomial, Galois group, and subfields have been calculated by Chad Awtrey and others Awtrey (2010); Awtrey *et al.* (2015b); Awtrey and Strosnider (2015); Awtrey *et al.* (2015a).

Chapter 1

PRELIMINARIES

1.1 Local fields

1.1.1 \mathfrak{p} -adic fields

In this section we will give a brief survey of results found in the study of \mathfrak{p} -adic fields. The content of this section comes from Gouvêa (1997), Koblitz (1977), and Milne (2017) with some small changes for clarity and consistency.

Definition 1.1.1. *Let K be a field. A function $\nu : K \rightarrow \mathbb{Z} \cup \{\infty\}$ is a discrete valuation of K if it satisfies the following properties for any $x, y \in K$.*

1. $\nu(x) = \infty$ if and only if $x = 0$

2. $\nu(xy) = \nu(x) + \nu(y)$

3. $\nu(x + y) \geq \min\{\nu(x), \nu(y)\}$

For a field K with discrete valuation ν define

$$\mathcal{O}_K := \{x \in K \mid \nu(x) \geq 0\}$$

along with the subset

$$\mathcal{P}_K := \{x \in K \mid \nu(x) > 0\}.$$

The set \mathcal{O}_K is known as a *discrete valuation ring* of K , and \mathcal{P}_K is the *valuation ideal* of K .

A *discrete valuation ring* is a local principal ideal domain that is not a field. Equivalently, it is ring that is Noetherian, integrally closed, and has exactly one nonzero prime ideal. Note the unique maximal ideal of \mathcal{O}_K is \mathcal{P}_K and elements are contained in $\mathcal{O}_K - \mathcal{P}_K$ if and only if they are units of \mathcal{O}_K . Since \mathcal{P}_K is a maximal ideal, then $k := \mathcal{O}_K/\mathcal{P}_K$ is a field known as the *residue field* of \mathcal{O}_K .

Since \mathcal{O}_K is a principal ideal domain, then $\mathcal{P}_K = \langle \pi \rangle$ for some $\pi \in \mathcal{O}_K$. The element π is known as a *uniformizer* of K . Because \mathcal{O}_K is a discrete valuation ring it will also be a Dedekind domain. Therefore we have prime factorization of ideals and thus any ideal of \mathcal{O}_K will be of the form $\mathcal{P}_K^e = \langle \pi^e \rangle$ for some $e \in \mathbb{Z}$.

Definition 1.1.2. A function $|\cdot| : K \rightarrow \mathbb{R}_{\geq 0}$ is an absolute value on K if it satisfies the following properties for any $x, y \in K$

1. $|x| = 0$ if and only if $x = 0$

2. $|xy| = |x| \cdot |y|$

3. $|x + y| \leq |x| + |y|$

Property 3 is known as the the Archimedean Property, and if $|\cdot|$ satisfies the additional

property $|x+y| \leq \max\{|x|, |y|\}$ for any $x, y \in K$, we say that $|\cdot|$ is a *non-Archimedean absolute value* on K , otherwise $|\cdot|$ is an *Archimedean absolute value* on K .

With different possible absolute values on the field K , we want a way to compare any two absolute values.

Proposition 1.1.3. *Let $|\cdot|$ and $|\cdot|'$ be absolute values on K , with $|\cdot|$ non-trivial. It is said that $|\cdot|$ and $|\cdot|'$ are equivalent if one of the following conditions are satisfied:*

1. $|\cdot|$ and $|\cdot|'$ define the same topology on K .
2. $|x| < 1$ implies $|x|' < 1$ for all $x \in K$
3. $|\cdot|' = |\cdot|^a$ for some $a > 0$

Let K be a field with absolute value $|\cdot|$. Recall that a sequence $\{a_n\}_{n=1}^{\infty}$ is a *Cauchy sequence*, if for every $\epsilon > 0$ there exists a positive integer N such $|a_m - a_n| < \epsilon$ for all $m, n > N$. The field K is *complete* if every Cauchy sequence in K has a limit in K . In the case where K is not complete with respect to an absolute value $|\cdot|$, we will denote \hat{K} as the completion of K with respect to this absolute value. We can construct \hat{K} by the usual method of Cauchy sequences modulo constant sequences.

Let K be a number field and for any prime ideal \mathfrak{p} of \mathcal{O}_K and element $x \in K^\times$, the principal fractional ideal $\langle x \rangle$ can be uniquely written as $\mathfrak{p}^e \mathfrak{q}_1^{e_1} \dots \mathfrak{q}_n^{e_n}$ where $\mathfrak{p} \nmid \mathfrak{q}_i$ for all i . We define a function $\nu_{\mathfrak{p}} : K^\times \rightarrow \mathbb{Z}$, the *\mathfrak{p} -adic valuation of K* such that $\langle x \rangle = \mathfrak{p}^{\nu_{\mathfrak{p}}(x)} \mathfrak{q}_1^{e_1} \dots \mathfrak{q}_n^{e_n}$ and $\mathfrak{p} \nmid \mathfrak{q}_i$ for all i . It is simple to check that $\nu_{\mathfrak{p}}$ is a discrete valuation of K based on Definition 1.1.1.

With the discrete valuation $\nu_{\mathfrak{p}}$, we can define a \mathfrak{p} -adic absolute value on K as the function $|\cdot|_{\mathfrak{p}} : K \rightarrow \mathbb{R}_{\leq 0}$ where $|x|_{\mathfrak{p}} = N_{K/\mathbb{Q}}(\mathfrak{p})^{-\nu_{\mathfrak{p}}(x)}$ for $x \neq 0$ and $|0|_{\mathfrak{p}} = 0$. From Property 2 of Definition 1.1.1, the absolute value $|\cdot|_{\mathfrak{p}}$ will in fact be a non-Archimedean absolute value. Since $|\cdot|_{\mathfrak{p}}$ is defined using the \mathfrak{p} -adic valuation $\nu_{\mathfrak{p}}$, then we can define a discrete valuation ring and valuation ideal of K using $|\cdot|_{\mathfrak{p}}$. Thus $\mathcal{O}_K = \{x \in K \mid |x|_{\mathfrak{p}} \leq 1\}$ and $\mathcal{P}_K = \{x \in K \mid |x|_{\mathfrak{p}} < 1\} = \mathfrak{p}$.

If K is complete with respect to the \mathfrak{p} -adic absolute value $|\cdot|_{\mathfrak{p}}$ we say that K is a \mathfrak{p} -adic field. Consider the example where $K = \mathbb{Q}$ and p be a prime number. The completion of \mathbb{Q} with respect to the p -adic absolute value $|\cdot|_p$, is the field \mathbb{Q}_p known as the set of p -adic numbers. The valuation ring of \mathbb{Q}_p is \mathbb{Z}_p the ring of p -adic integers. The maximal ideal of \mathbb{Z}_p is $p\mathbb{Z}_p = \langle p \rangle$.

The next propositions illustrate some properties of \mathfrak{p} -adic fields.

Proposition 1.1.4. *Let K be a complete field with respect to a \mathfrak{p} -adic absolute value $|\cdot|_{\mathfrak{p}}$. Letting π be a uniformizer of \mathcal{P}_K and choosing a set S of representatives for the residue field $\mathcal{O}_K/\mathcal{P}_K$, where 0 is one of the representatives. Then every element of K can be uniquely written as:*

$$a_{-n}\pi^{-n} + \dots + a_0 + a_1\pi + \dots + a_m\pi^m + \dots$$

where $a_i \in S$ and $n \in \mathbb{Z}$ and a_{-n} is non-zero.

In the case of the field \mathbb{Q}_p , every element can be uniquely written as $a_{-n}p^{-n} + \dots + a_0 + a_1p + \dots + a_mp^m + \dots$, where $a_i \in \{0, 1, \dots, p-1\}$.

Proposition 1.1.5. (*Hensel's Lemma*) *Let K be a complete field with respect to a \mathfrak{p} -adic absolute value $|\cdot|_{\mathfrak{p}}$. Let k be the residue field of \mathcal{O}_K . Consider a monic polynomial $f(x) \in \mathcal{O}_K[x]$ and write $\overline{f(x)}$ for the image of f in $k[x]$. If $\overline{f(x)}$ factors as $\overline{f} = g_0 h_0$ with g_0 and h_0 monic and relatively prime then f factors as $f = gh$ with g and h in $\mathcal{O}_K[x]$, monic, and $\overline{g} = g_0$ and $\overline{h} = h_0$ where g and h are uniquely determined.*

With Hensel's Lemma we can determine a partial factorization of a polynomial in \mathcal{O}_K up to an arbitrary power of the uniformizer. In the case where the polynomial is irreducible we can consider a field extension by adjoining a root of this polynomial to K .

1.1.2 Field Extensions of \mathfrak{p} -adic Fields

In this section we will examine field extensions of fields that are complete with respect to a non-Archimedean absolute value which includes \mathfrak{p} -adic absolute values.

Theorem 1.1.6. *Let L/K be a finite separable extension of degree n , where K is complete with respect to the non-Archimedean absolute value $|\cdot|_K$. The function $|\cdot| : L \rightarrow \mathbb{R}_{\geq 0}$ defined by $|x| = \sqrt[n]{|N_{L/K}(x)|_K}$ is a non-Archimedean absolute value of L which unique extends $|\cdot|_K$.*

Now consider the case where K is not complete with respect to the absolute value $|\cdot|$. Let L/K be a finite separable extension, then $L = K[\alpha]$ and let $f(x)$ be the minimal polynomial of α over K . Let $|\cdot|'$ be an extension of $|\cdot|$ to L and let \hat{K} and \hat{L} be completion of K and L with respect to their absolute values.

Note $\hat{L} = \hat{K}[\alpha]$, and let $g(x)$ be the minimal polynomial of α over \hat{K} , thus we

have $g(x) \mid f(x)$. But for every irreducible factor $g_i(x)$ of $f(x)$ in $\hat{K}[x]$, we have $\hat{L}_i = \hat{K}[x]/g_i(x)$ a finite extension of \hat{K} . Since \hat{K} is complete we know there is a unique extension of $|\cdot|$ to \hat{L}_i by Theorem 1.1.6. This induces an extension of $|\cdot|$ to L . Therefore we have the following proposition:

Proposition 1.1.7. *Let $L = K[\alpha]$ be a finite separable extension of K , and let $f(X)$ be the minimal polynomial of α over K . Then there is a one-to-one correspondence between the irreducible factors of $f(x)$ over \hat{K} and extensions of $|\cdot|$ to L .*

In the case of a \mathfrak{p} -adic absolute value $|\cdot|_{\mathfrak{p}}$ on K . The absolute value $|\cdot|_{\mathfrak{p}}$ is induced from $\nu_{\mathfrak{p}}$, the \mathfrak{p} -adic valuation, and it can be shown that for any extension of $|\cdot|_{\mathfrak{p}}$ to L it is induced from a \mathfrak{P} -adic valuation for a prime \mathfrak{P} in L above \mathfrak{p} . So the factors $g_i(x)$ are in one-to-one correspondence with the primes above \mathfrak{p} in \mathcal{O}_L . Hence the extensions of $|\cdot|_{\mathfrak{p}}$ to L are in one-to-one correspondence with the primes \mathfrak{P}_i above \mathfrak{p} in L .

We will describe some invariants of \mathfrak{p} -adic extensions. Let L/K be a separable extension of complete fields where $|\cdot|_{\mathfrak{p}}$ is the absolute value of K and $|\cdot|_{\mathfrak{P}}$ is the absolute value of L . Now $\mathfrak{p}\mathcal{O}_L = \mathfrak{P}^e$ for some positive integer e . The integer e is the *ramification index* and $f = n/e$ is the *residue field degree*. Additionally, when l and k are the *residue fields* of L and K respectively, we have $f = [l : k]$.

If $e > 1$ we say L is *ramified* over K . In particular when $n = e$, we say L is *totally ramified* over K . When an extension is ramified and $p \mid e$, the extension is *wildly ramified*, otherwise the extension is *tamely ramified*. When $n = f$ we say that L is *unramified* over K . In the case of unramified extensions of \mathbb{Q}_p there exist a unique extension up to isomorphism for each degree f .

Proposition 1.1.8. *For each positive integer f there exist a unique unramified extension of \mathbb{Q}_p of degree f and it can be obtained by adjoining a primitive $p^f - 1$ root of unity.*

Let K be a complete non-Archimedean field with uniformizer π . A polynomial $f(x) = a_n x^n + a_{n-1} x^{n-1} + \dots + a_1 x + a_0$ is an *Eisenstein polynomial* if $|a_n| = 1$, $|a_i| < 1$ for $i = 1, \dots, n-1$ and $|a_0| = |\pi|$.

Proposition 1.1.9. *Let L be a finite extension of K . The extension L/K is totally ramified if and only if $L = K(\alpha)$ where α is a root of an Eisenstein polynomial.*

The next proposition, *Kranser's Lemma*, is useful in showing there only exist finitely many extensions of degree n for \mathbb{Q}_p and these extensions can be obtained by adjoining a root for some polynomial $f(x) \in \mathbb{Z}[x]$.

Proposition 1.1.10 (Kranser's lemma). *Let K be a non-Archimedean complete field of characteristic zero, and let α and β be elements of the algebraic closure of K . Let $\alpha_1, \alpha_2, \dots, \alpha_n$ be the Galois conjugates of α over K . Suppose that β is closer to α than any of the conjugates of α , i.e.,*

$$|\beta - \alpha| < |\alpha - \alpha_i|$$

for $i = 1, \dots, n$. Then $K(\alpha) \subseteq K(\beta)$.

Corollary 1.1.11. *Let K be a non-Archimedean complete field of characteristic zero. Let $f(x) = x^n + a_{n-1} x^{n-1} + \dots + a_1 x + a_0 \in K[x]$ be a monic irreducible polynomial.*

Let α be a root of $f(x)$ and let $L = K(\alpha)$. Then there exists a real number $\epsilon > 0$ such that following holds:

If $g(x) = x^n + b_{n-1}x^{n-1} + \dots + b_1x + b_0$ is any monic polynomial of degree n for which we have $|b_i - a_i| < \epsilon$ for all $i = 0, \dots, n-1$. Then $g(x)$ is irreducible over K and has a root in L

In the case where $K = \mathbb{Q}_p$, we can use Corollary 1.1.11 to get the following:

Corollary 1.1.12. *Let L be a finite extension of \mathbb{Q}_p . Then there is a finite extension F of \mathbb{Q} contained in L such that $[F : \mathbb{Q}] = [L : \mathbb{Q}_p]$ and $F \cdot \mathbb{Q}_p = L$.*

Thus by Corollary 1.1.12 every extension L/\mathbb{Q}_p will have a defining polynomial in $\mathbb{Z}[x]$.

Corollary 1.1.13. *Let K be non-Archimedean complete field of characteristics zero. Then up to isomorphism there are only finitely many totally ramified extension of K of a given degree.*

Corollary 1.1.14. *For a fixed n each extension L of K of degree n can be realized as a totally ramified extension of degree n/f of the unique unramified extension (denoted L^{unram}) of degree f . Thus up to isomorphism there exist only finitely many L .*

For our needs we would want a defining polynomial for each extension over $\mathbb{Z}[x]$. Pauli and Roblot Pauli and Roblot (2001) give an algorithm that will produce a finite set of polynomials that include the defining polynomials for all extensions in $\mathcal{K}(p, n)$ for a fixed prime p and degree n .

Given a polynomial $f(x)$ that is the defining polynomial of a p -adic field extension K , Panayi's root finding algorithm determines the roots (if any) of a polynomial

$g(x) \in \mathcal{O}_K$ in K . Thus given a set of defining polynomials we can remove any redundant polynomials with Panayi's root finding algorithm.

We will now describe Panayi's root finding algorithm, let $\varphi(x) \in \mathcal{O}_K[x]$ in K , where K is a finite p -adic extension with uniformizer π . Pauli and Roblot (2001) Panayi (1995).

- Let $\varphi(x) = c_n x^n + c_{n-1} x^{n-1} + \dots + c_1 x + c_0 \in \mathcal{O}_K[x]$ and define the valuation $\nu_K(\varphi) := \min\{\nu_K(c_n), \dots, \nu_K(c_0)\}$ and $\varphi^\#(x) := \varphi(x)/\pi^{\nu_K(\varphi)}$. For $\alpha \in \mathcal{O}_K$ denote its representative in the residue field k by $\bar{\alpha}$, and for $\beta \in k$, denote a lift of β to \mathcal{O}_K by $\hat{\beta}$.
- To find a root of $\varphi(x)$ in K we define two sequences $(\varphi_i(x))_i$ and $(\delta_i)_i$.
- Set $\varphi_0(x) := \varphi^\#(x)$ and let $\delta_0 \in \mathcal{O}_K$ be the lift of a root of $\overline{\varphi_0(x)}$.
- If $\overline{\varphi_i^\#(x)}$ has a root β_i then define $\varphi_{i+1}(x) := \varphi_i^\#(x\pi + \hat{\beta}_i)$ with $\delta_{i+1} := \hat{\beta}_i \pi^{i+1} + \delta_i$.

At some point, one of the following cases must occur:

1. $\deg(\overline{\varphi_i^\#}) = 1$ then δ_{i-1} is an approximation of one root of $\varphi(x)$
2. $\deg(\overline{\varphi_i^\#}) = 0$ then δ_{i-1} is not an approximation of a root of $\varphi(x)$
3. $\overline{\varphi_i^\#}$ has no roots and thus δ_{i-1} is not an approximation of a root of $\varphi(x)$

If at any step of the process there exist multiple roots β_i for $\overline{\varphi_i(x)}$, we split the sequence and proceed.

1.1.3 Galois Theory of \mathfrak{p} -adic Fields

Galois Groups

Let K/F be a separable degree n field extension, and $f(x) \in F[x]$, be a polynomial with ordered roots $\alpha_1, \alpha_2, \dots, \alpha_n \in \overline{F}$ be a defining polynomial for this extension. Denote the splitting field of K/F as $K^{\text{gal}} = F(\alpha_1, \alpha_2, \dots, \alpha_n)$ and let $G = \text{Gal}(K^{\text{gal}}/F)$ be its Galois group. The group G acts on the α_i and since K^{gal} is the splitting field of $f(x)$, then the only element of G that fixes all of the α_i is the identity. So this action is faithful and because $f(x)$ is irreducible then this action is also transitive. Therefore G can be identified as a transitive subgroup of S_n . When referring to Galois groups we will use standard notation (S_n, A_n, C_n, D_n) as well as T-numbering that was introduced in Butler and McKay (1983), writing nTj for a degree n field whose Galois closure has Galois group Tj of S_n . Note the groups Tj are ordered by their cardinality.

We will be also interested in the Galois group for towers of extensions. We can partially categorized these Galois groups using wreath products. Let G and H be groups acting faithfully and transitively on the finite sets X and Y respectively.

Let G^Y be the set of functions $f : Y \rightarrow G$. The set G^Y is a group with the following operation, for $f, g \in G^Y$ we can define fg , by $(fg)(y) = f(y)g(y)$. Define the following action of H on G^Y , for $f \in G^Y$ the group H acts on G^Y by $(f \cdot h)(y) = f(yh^{-1})$. For each $h \in H$ we define $\psi^h \in \text{Aut}(G^Y)$ by $f \mapsto (f \cdot h)$.

Definition 1.1.15. *Let G and H be groups acting faithfully and transitively on the finite sets X and Y . Let $\varphi : H \rightarrow \text{Aut}(G^Y)$ be defined by $\varphi(h) = \psi^h$ as defined above. Then the wreath product of G and H , denoted by $G \wr H$, is the semidirect product $G^Y \rtimes H$.*

The wreath product $G \wr H$ acts on the set $X \times Y$. The actions can best be described if we consider $X \times Y$ as $\bigcup_{y \in Y} X \times \{y\}$. An element of the wreath product can be thought of as first permuting the element of y as the group H does and then permuting the copy of X in $X \times \{y\}$ in the way the group G does. For a tower of separable extensions we can describe partially its Galois group using wreath products.

Theorem 1.1.16. *Let $F \subseteq K \subseteq L$ be finite separable field extensions. The Galois group $\text{Gal}(L^{\text{gal}}/F)$ can be embedded into the wreath product $\text{Gal}(L^{\text{gal}}/K) \wr \text{Gal}(K^{\text{gal}}/F)$.*

Proof. See De Smit (2007) for details. □

Resolvents

We will briefly introduce the idea of resolvents that follows Jones and Roberts (2008). If $f(x) \in F[x]$ is a separable polynomial of degree n with ordered roots $\alpha_1, \alpha_2, \dots, \alpha_n \in \overline{F}$, we know $G = \text{Gal}(f) \leq S_n$. A resolvent is associated to the pair of subgroups H and Γ of S_n , where $H \leq \Gamma$ and $G \leq \Gamma$.

The elements $\sigma \in S_n$ give ring automorphisms of $F[x_1, x_2, \dots, x_n]$ induced by $\sigma(x_i) = x_{\sigma(i)}$. From the two groups H and Γ , we can construct a form $A(x_1, \dots, x_n) \in F[x_1, \dots, x_n]$ such that the stabilizer subgroup of A in Γ is H . The resolvent is the product over coset representatives:

$$f_A(x) = \prod_{\sigma \in \Gamma/H} x - A(\alpha_{\sigma(1)}, \dots, \alpha_{\sigma(n)})$$

When $\Gamma = S_n$ we say that the resolvent is *absolute*, and the resolvent is independent of the ordering of the roots of $f(x)$. Note that even if $f(x)$ is irreducible, the resolvent $f_A(x)$ may not be separable over F , but there exist an irreducible $g(x) \in F[x]$ such that $F[x]/f(x) \cong F[x]/g(x)$ and $g_A(x)$ is separable. So we may assume for a given field K extension of F there exists a resolvent $g_A(x)$ that is separable and $K \cong F[x]/g(x)$.

Note that most algorithms that compute Galois groups and subfields of the Galois closure of algebraic extensions heavily use resolvents see Soicher and McKay (1985) Stauduhar (1973) Fieker and Klüners (2014) .

Ramification groups

Let L be a finite Galois extension of a number field K and let $G = \text{Gal}(L/K)$. The group G acts on the primes \mathfrak{P} above a fixed prime \mathfrak{p} of K . We define the *decomposition group* of \mathfrak{P} to be the set $D(\mathfrak{P}/\mathfrak{p}) = \{s \in G \mid s(\mathfrak{P}) = \mathfrak{P}\}$.

Proposition 1.1.17. *Let $K_{\mathfrak{p}}$ and $L_{\mathfrak{P}}$ be the completion of K and L with respect to $|\cdot|_{\mathfrak{p}}$ and $|\cdot|_{\mathfrak{P}}$. Then $L_{\mathfrak{P}}/K_{\mathfrak{p}}$ is Galois and its Galois group $\text{Gal}(L_{\mathfrak{P}}/K_{\mathfrak{p}})$ is isomorphic to the decomposition group $D(\mathfrak{P}/\mathfrak{p})$*

If F/\mathbb{Q} is a finite Galois extension with Galois group G and we have a completion \hat{F} of F with respect to an extension of $|\cdot|_p$, corresponding to the prime \mathfrak{p} above p , then \hat{F}/\mathbb{Q}_p is Galois and $\text{Gal}(\hat{F}/\mathbb{Q}_p) = D(\mathfrak{P}/p)$, where $D(\mathfrak{P}/p)$ is the decomposition

group of \mathfrak{P} . Note the fixed field of F with respect to $D(\mathfrak{P}/p)$ is known as the *decomposition field* of \mathfrak{P} and $[G : D(\mathfrak{P}/p)] = g$, where g is the number of distinct prime above p in \mathcal{O}_F . Therefore if we can show that the prime p does not split in \mathcal{O}_F , then $\text{Gal}(\hat{F}/\mathbb{Q}_p) = G$.

Given a p -adic extension K/\mathbb{Q}_p , a *global splitting model* of K/\mathbb{Q}_p is a polynomial $f(x) \in \mathbb{Z}[x]$ that is irreducible in $\mathbb{Z}_p[x]$ with $\mathbb{Q}_p(\alpha) \cong K$ and $\text{Gal}(\mathbb{Q}_p(\alpha)^{\text{gal}}/\mathbb{Q}_p) = \text{Gal}(\mathbb{Q}(\alpha)^{\text{gal}}/\mathbb{Q})$ where α is a root of $f(x)$. We use global splitting models because there does not exist efficient procedures to compute subfields of the Galois closure of p -adic field extensions, but there are efficient methods to computing subfields of the Galois closure of number fields. Namely, we can use resolvents to compute the subfields of the Galois closure and it is easier to approximate roots in \mathbb{C} and identify resolvents over \mathbb{Z} , rather than \mathbb{C}_p and \mathbb{Z}_p . For a global splitting model we have $\text{Gal}(\hat{F}^{\text{gal}}/\mathbb{Q}_p) = \text{Gal}(F^{\text{gal}}/\mathbb{Q})$ for a prime p , therefore there is a bijection between subfields of their Galois closures, so identifying subfields and their invariants on the global side will be easier in this case rather than the case where $\text{Gal}(\hat{F}^{\text{gal}}/\mathbb{Q}_p) \subsetneq \text{Gal}(F^{\text{gal}}/\mathbb{Q})$.

Let L/K be a Galois extension of p -adic fields with Galois group G . Let \mathcal{O}_L be the ring of integers of L over K . For $i \in \mathbb{Z}_{\geq -1}$, let

$$G_i = \{s \in G \mid v_L(s(a) - a) \geq i + 1 \text{ for all } a \in \mathcal{O}_L\}.$$

We will call G_i the i^{th} ramification group of L/K . The next proposition describes some properties of ramification groups along with the quotients G_i/G_{i+1} .

Proposition 1.1.18. *Let L/K be a Galois extension with Galois group G . Let G_i be the ramification groups of L/K . Then*

1. Let $i \in \mathbb{Z}_{i \geq -1}$, then the G_i form a decreasing sequence of normal subgroups of G with $G_{-1} = G$ and G_0 the inertia subgroup of G , and for sufficiently large i , $G_i = \{1\}$.
2. The group G_0/G_1 is cyclic and isomorphic to a subgroup of the group of roots of unity contained in residue field of K . Its order is prime to p .
3. The quotients G_i/G_{i+1} for $i \geq 1$ are abelian groups and are direct products of cyclic groups of order p (elementary abelian group). Thus the group G_1 is a p -group.
4. The inertia group G_0 is the semi-direct product of a cyclic group of order prime to p with a normal subgroup whose order is a power of p .
5. The groups G and G_0 are solvable groups.

Proof. (Serre, 1968, §4.2)

□

Given a transitive subgroup $G \leq S_n$ and a prime p , the following procedure gives all the possible filtrations of G by its ramification groups if it appears as the Galois group for an extension of \mathbb{Q}_p using Proposition 1.1.18. Additionally, the algorithm can also give a list of all possible filtrations of G by its ramification groups.

Procedure 1

Given a solvable group G , define N to be the set of normal subgroups of G and P to be the set of normal p -subgroups of G . This process will give all sequences of normal subgroups $(g_i)_i$ which will correspond to a possible sequence of ramification groups. If at any point of the process there exists multiple subgroups that satisfies

the conditions for g_i , we split the sequence and proceed. We start by letting $G = g_{-1}$.

Next we choose all subgroups g_0 in N such that G/g_0 is a cyclic group. The next term in the sequence g_1 is chosen from P such that g_0/g_1 is a cyclic group with order that divides $p^{[G:g_0]} - 1$.

The terms g_i are again chosen from P for $i > 1$. We choose g_i such that g_{i-1}/g_i is an elementary abelian p -group. We terminate the sequence when $g_i = \{1\}$ for some i .

Note that since the Galois group of p -adic extensions are solvable it is easy to check that any ramified extension of degree p of a p -adic field will have Galois group isomorphic to C_p or $C_p \rtimes C_d$ where $d \mid p - 1$.

Now we will develop the idea of *upper numbering* for the ramification groups that follows from Serre (1968). Let L/K be a Galois extension of p -adic fields with Galois groups G . Let \mathcal{O}_L be the ring of integers of L over K . If u is a real number and $u \geq -1$, let G_u be the ramification group G_i where $i = \lceil u \rceil$. Therefore $s \in G_u$ if and only if $v_K(s(x) - x) \geq u + 1$ for all $x \in \mathcal{O}_L$.

Let

$$\varphi(u) = \int_0^u \frac{dt}{[G_0 : G_t]}$$

Where $\varphi(u)$ is known as the Hasse-Herbrand φ -function.

Note when $t = -1$ we let $[G_0 : G_t] = [G_{-1} : G_0]$, and $[G_0 : G_t] = [G_0 : G_0] = 1$ whenever $-1 < t \leq 0$. An alternate way to define $\varphi(u)$, is to let $\varphi(u) = \frac{1}{g_0}(g_1 + \dots +$

$g_m + (u - m)g_{m+1}$) where $m \in \mathbb{Z}^+$ such that $m \leq u \leq m + 1$ and $g_i = |G_i|$.

Proposition 1.1.19. *The function φ is continuous, piecewise linear, increasing, concave, and $\varphi(0) = 0$.*

Since φ is continuous and increasing there exist an inverse and therefore denote ψ as the inverse map of φ .

Proposition 1.1.20. *The function ψ is continuous, piecewise linear, increasing, convex, and $\psi(0) = 0$.*

We will now define the *upper numbering* of the ramification groups. Denote $G^v = G_{\psi(v)}$, or equivalently $G^{\varphi(u)} = G_u$. Denote $G^{v+} = \cup_{\epsilon > 0} G^{v+\epsilon}$, and if there is a value of v such that $G^v \neq G^{v+}$ we say there is a "ramification jump" or "ramification break" at v . Notice unlike in the case of lower numbering of the ramification groups, the jumps in upper numbering do not necessarily occur at integer values.

Using properties of ramification groups in lower numbering and converting it into upper numbering we have the following facts:

Observe $G^{-1} = G$, $G^0 = G_0$, and $G^v = \{1\}$ for sufficiently large v . G^{0+} is a p -group and G^0/G^{0+} is cyclic of order prime to p . If there is a jump at $v > 0$ then $[G^v : G^{v+}] = p^{m_v}$.

The reason we choose the upper numbering for the ramification groups rather than the lowering numbering is because upper numbering is compatible with quotients.

Proposition 1.1.21 (Herbrand's Theorem). *If H is a normal subgroup of G , then $(G/H)^v = G^v H/H$.*

Proof. (Serre, 1968, §4.3) □

The previous proposition allows us to find the ramification jumps in a Galois extension by finding jumps in Galois subextensions.

Note that the discriminant ideal of K/\mathbb{Q}_p is of the form $(p^{c(K)})$ for some $c(K) \geq 0$.

Proposition 1.1.22. *Let K be a finite extension of \mathbb{Q}_p and L be a Galois extension with Galois group G such that K is contained in L . Given $H = \text{Gal}(L/K)$, we have*

$$c(K) = \sum_{i \geq -1} ([G : HG^{i+}] - [G : HG^i]) (i + 1)$$

Note by Herbrand's Theorem this result does not depend on the choice Galois extension containing K .

Proof. See Chapter 4 of Serre (1968). □

1.2 Calculating the slope content for a given p -adic field

In this section we will introduce and describe how to compute the *slope content* of an extension K/\mathbb{Q}_p .

For a given extension K/\mathbb{Q}_p , for each subfield L of K , let $n(L) = [L : \mathbb{Q}_p]$ and $c(L)$ be the discriminant exponent, and consider the point $(n(L), c(L))$ on the n - c plane. Furthermore let $S(K)$ be the lower convex hull of all the points on the n - c plane, so

$S(K)$ runs from $(1, 0)$ to $(n(K), c(K))$.

For an illustration of this process consider extension $\mathbb{Q}_3(\alpha)$ where α is the root of $x^{12} - 9x^9 + 9x^8 - 9x^5 - 9x^4 - 9x^3 + 9$. This field has 3 quadratic subfields (2 subfields with the same discriminant exponent), 1 cubic subfield, 1 quartic subfield, and 3 sextic subfields (2 subfields with the same discriminant exponent).

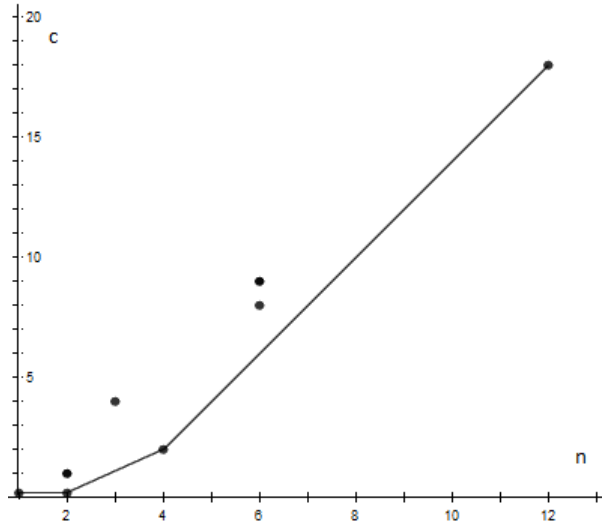


Figure 1.1: The lower convex hull as illustrated by $\mathbb{Q}_3(\alpha)$

The slopes of the lower convex hull have a connection to the jumps of ramification groups in upper numbering.

Theorem 1.2.1. *Suppose that K/\mathbb{Q}_p is a finite extension and let L be a Galois extension that contains K with Galois group G and $H = \text{Gal}(L/K)$. Let v be the slope of a line segment of $S(K)$ with endpoints (x_1, y_1) and (x_2, y_2) . Then there will be ramification jump in the ramification groups in upper numbering of L/\mathbb{Q}_p at $v + 1$ and $\frac{x_2}{x_1} = [HG^{v+1} : HG^{(v+1)+}]$.*

Proof. The right endpoint of $S(K)$ is $(n(K), c(K))$ and denote $(n(F), c(F))$ as the turning point on $S(K)$ whose line segment connects to $(n(K), c(K))$. This means

that F is the smallest subfield of K such that

$$\frac{c(K) - c(F)}{[K : \mathbb{Q}_p] - [F : \mathbb{Q}_p]}$$

is as large as possible. Let $H = \text{Gal}(L/K)$ and $H' = \text{Gal}(L/F)$ therefore $H \subseteq H'$ and by Proposition 1.1.22 we have

$$\begin{aligned} & \frac{c(K) - c(F)}{[K : \mathbb{Q}_p] - [F : \mathbb{Q}_p]} = \\ & \frac{\left[\sum_{i \geq -1} ([G : HG^{i+}] - [G : HG^i]) - \sum_{i \geq -1} ([G : H'G^{i+}] - [G : H'G^i]) \right] (i+1)}{[G : H] - [G : H']} \\ & = \sum_{i \geq -1} \left(\frac{[G : HG^{i+}] - [G : HG^i]}{[G : H] - [G : H']} - \frac{[G : H'G^{i+}] - [G : H'G^i]}{[G : H] - [G : H']} \right) (i+1) \\ & = \sum_{i \geq -1} \left(\frac{[G : HG^{i+}] - [G : H'G^{i+}]}{[G : H] - [G : H']} - \frac{[G : HG^i] - [G : H'G^i]}{[G : H] - [G : H']} \right) (i+1) \end{aligned}$$

is as large as possible.

Note that

$$\frac{[G : HG^{i+}] - [G : HG^i]}{[G : H] - [G : H']} - \frac{[G : H'G^i] - [G : H'G^i]}{[G : H] - [G : H']}$$

is nonzero only at ramification jumps of L/\mathbb{Q}_p . Let d_i be the ramification jumps of L/\mathbb{Q}_p , where d_k is the largest value. In particular denote the ramification jump d_j , where G^{d_j+} is the largest ramification group that is contained H . In other words $G^{d_j+} \subseteq H$ and $G^{d_j} \not\subseteq H$. Also note

$$\frac{[G : HG^{d_i+}] - [G : H'G^{d_i+}]}{[G : H] - [G : H']} = \frac{[G : HG^{d_{i+1}}] - [G : H'G^{d_{i+1}}]}{[G : H] - [G : H']}$$

for $d_i < d_k$.

Therefore we can rewrite the sum as:

$$\frac{c(K) - c(F)}{[K : \mathbb{Q}_p] - [F : \mathbb{Q}_p]} = (d_k + 1) + \sum_{i=1}^k \left(\frac{[G : HG^{d_i}] - [G : H'G^{d_i}]}{[G : H] - [G : H']} \right) (d_{i-1} - d_i)$$

Now $d_{i-1} - d_i$ is negative, so we want to minimize the value

$$\frac{[G : HG^{d_i}] - [G : H'G^{d_i}]}{[G : H] - [G : H']}$$

The expression will have a minimal value of 0. We reach this value if we have $HG^{d_i} = H'G^{d_i}$. But H' cannot be a subset of G^{d_j+} , so we want the largest subgroup H such that $H \subseteq H'$ and $HG^{d_i} = H'G^{d_i}$ for $d_i \leq d_j$ and this will give us the largest value for the summation. There exists at least one subgroup that will satisfy the last two conditions: HG^{d_j} .

Also note for $d_i > d_j$,

$$\frac{[G : HG^{d_i}] - [G : H'G^{d_i}]}{[G : H] - [G : H']} = 1$$

Therefore

$$\begin{aligned} \frac{c(K) - c(F)}{[K : \mathbb{Q}_p] - [F : \mathbb{Q}_p]} &= (d_k + 1) + \sum_{i=1}^k \left(\frac{[G : HG^{d_i}] - [G : H'G^{d_i}]}{[G : H] - [G : H']} \right) (d_{i-1} - d_i) \\ &= (d_k + 1) + \sum_{i=j+1}^k \left(\frac{[G : HG^{d_i}] - [G : H'G^{d_i}]}{[G : H] - [G : H']} \right) (d_{i-1} - d_i) \\ &= (d_k + 1) + \sum_{i=j+1}^k (d_{i-1} - d_i) \\ &= d_j + 1 \end{aligned}$$

Thus the slope connecting $(n(F), c(F))$ to $(n(K), c(K))$ is equal to $d_j + 1$. We can continue by induction and see that all of the slopes in $S(K)$ corresponds to ramification jumps plus 1.

□

Corollary 1.2.2. *Let K/\mathbb{Q}_p be a finite extension. The largest ramification jump of K^{gal}/\mathbb{Q}_p plus one will appear as the largest slope of $S(K)$.*

Proof. Let d be the largest ramification jump of K^{gal}/\mathbb{Q}_p and H be the subgroup of G whose fixed field is K . Now $\{1\}$ will be the largest normal subgroup contained in H , otherwise this will contradict that K^{gal} is the Galois closure of K .

Therefore where G^{d+} is the largest ramification group contained in H . By the proof of the previous theorem the largest slope of $S(K)$ will be $d + 1$ □

If we let $G^{(s)} = G^{s-1}$, a shift in the upper numbering by 1, then the slopes of $S(K)$ will exactly match the jumps in $G^{(s)}$.

We will now introduce the concept of *slope content* and its connection with ramification groups. Suppose K/\mathbb{Q}_p is a finite extension and L/\mathbb{Q}_p is a Galois extension with Galois group G containing K . Let $H = \text{Gal}(L/K)$ the slope content of K can be described as a vector of the form $[s_1, s_2, \dots, s_n]_u^t$ where $u = [G : HG^{(0+)}]$ is the degree of maximal unramified extension, $t = [HG^{(0+)} : HG^{(1+)}]$ the degree of the tame extension, and $s_i > 1$, which we will call *wild slopes* that are the jumps at s_i appearing with multiplicity n in increasing order, where $[HG^{(s_i)} : HG^{(s_i+)}] = p^n$. By Theorem 1.2.1 the degree of the maximal unramified extension, degree of the maximal tame extension, and wild slopes will correspond to the line segments of slope 0, 1, and s_i of $S(K)$ respectively and tells us ramification jumps of L/\mathbb{Q}_p . Note that given an extension K/\mathbb{Q}_p with slope content $[s_1, s_2, \dots, s_n]_u^t$, we have $[K : \mathbb{Q}_p] = utp^n$.

Now the slope content of the Galois closure of an extension, is called the Galois

slope content. The Galois slope content of an extension will give us all the information about the ramification groups. If we can find the slope content of subfields of the Galois closure this will give us some information about the Galois slope content. Given a subfield of the Galois closure with slope content $[v_1, v_2, \dots, v_n]_{u_1}^{t_1}$, then by Theorem 1.2.1, then the wild slopes v_i will appear in the Galois slope content and u_1 and t_1 will divide the degree of the maximal unramified extension and the degree of the tame extension respectively. If we can piece together a slope content of $[s_1, s_2, \dots, s_n]_u^t$ from subfields of the Galois closure and $[K^{gal} : \mathbb{Q}_p] = utp^n$, this means this slope content is truly the Galois Slope content.

We can easily find the subfields of the Galois closure of an extension of \mathbb{Q}_p by using its global splitting model and resolvents. Additionally the slope content of lower degree subfields are easily computable. So once we have a global splitting model for an extension of \mathbb{Q}_p , we can then find its Galois slope content without much issue from the slope content of a variety of subfields of the Galois closure.

1.2.1 Finding the Galois slope content using Procedure 1

Using the output from Procedure 1, if the list of all possible vectors for the Galois slope content from a Galois group G is desired, we can convert each sequence into a vector of the form $[a, \dots, a, b, \dots, b, \dots]_t^u$, with $u = [g_{-1} : g_0]$, $t = [g_0 : g_1]$, a appearing m_1 times where $[g_1 : g_2] = p^{m_1}$, b appearing m_2 times where $[g_2 : g_3] = p^{m_2}$ and some forth.

For a given p -adic extension K/\mathbb{Q}_p with Galois group G , as we calculate the slope content of various subfields of the Galois closure of K to find the Galois slope content,

we can make use of the list of all possible vectors for the Galois slope content of K/\mathbb{Q}_p given by Procedure 1.

For example consider an extension K/\mathbb{Q}_2 with Galois group 12T254, by Procedure 1 the only possible vector for the Galois slope content for a extension with this particular Galois group is $[a, a, a, a, a, a]_9^6$. So in this case we can calculate the Galois slope content just from the slope content of K/\mathbb{Q}_2 and avoiding the need to compute the slope content of a degree 64 extension.

In another example consider the non-Galois field extension K/\mathbb{Q}_7 with defining polynomial $x^{14} - 441x^{10} + 35721x^6 - 166698x^4 + 250047x^2 - 107163$ and $\text{Gal}(K^{\text{gal}}/\mathbb{Q}_7) = 14T29$. The slope content of K/\mathbb{Q}_7 is $[2]_2^1$, therefore the largest wild slope is 2. Additionally, from the Galois group of $K^{\text{gal}}/\mathbb{Q}_7$ we see there exist a unique degree 64 extension of $K^{\text{gal}}/\mathbb{Q}_7$ and we can compute its slope content as $[2, 2, 2, 2, 2, 2]_1^1$. Using the list of possible vectors for the Galois slope content, the only options that remain are $[a, 2, 2, 2, 2, 2, 2]_1^7$, $[2, 2, 2, 2, 2]_1^{14}$, and $[2, 2, 2, 2, 2, 2, 2]_1^7$ where $a < 2$. If either of the first two cases were true, then by Proposition 1.1.21 the second biggest slope will appear in the slope content of the fixed field of $G^{(2)}$ which will be a degree 14 Galois extension of \mathbb{Q}_7 .

Therefore we can check the slope content of all degree 14 extensions of \mathbb{Q}_7 in the Galois closure and we can then determine the Galois slope content. Using this approach we can avoid computing a slope content of a 128 degree extension if the Galois slope content of K/\mathbb{Q}_p is the third option. This includes finding all subfields and discriminant exponents which is computationally more intensive than in the case of a degree 64 extension.

In general, as we are computing the slope content for an increasing number of subfields of the Galois closure we compare the number of jumps as well as their multiplicity with the list provided by Procedure 1, and eliminate any impossible choices until one vector remains. Once one vector remains and enough information is provided (i.e all wild slopes) we can then determine the Galois slope content.

An indirect check of the Galois slope content is to determine the Galois slope content without the use of Procedure 1 and verifying if the form we computed matches any of the possibilities from Procedure 1.

1.3 Calculating companion results

Inertia subgroup

Once we have computed the Galois slope content of K/\mathbb{Q}_p with Galois group G with global splitting model f , it is quite simple to compute the inertia subgroup of G . Since we know that the fixed field of the inertia subgroup gives us the maximal unramified subextension of K^{gal} and by the Galois slope content we know the degree of the maximal unramified subextension. Using the global splitting model f and the degree of the maximal unramified extension u , we can compute every subgroup of index u of G as well as its fixed fields. We then determine which of the fixed fields is unramified at p , thus its corresponding subgroup is the inertia subgroup of $K^{\text{gal}}/\mathbb{Q}_p$. Since we identify G as a transitive permutation subgroup of some symmetric group, then the inertia subgroup can also be identified as a permutation subgroup. So using Magma if the inertia subgroup is a transitive permutation group then we label the group with its corresponding T-number. If the subgroup is an intransitive

permutation group then we label it by its GAP identification number.

Galois mean slope

Another value that can be easily calculated using the Galois slope content is the Galois mean slope which is $\frac{c(K^{\text{gal}})}{[K^{\text{gal}}:\mathbb{Q}_p]}$, and can be viewed as the single number best measuring the ramification in K^{gal} . If the Galois slope content of K is $[s_1, s_2, \dots, s_k]_u^t$, then the Galois mean slope will be

$$\frac{c(K^{\text{gal}})}{[K^{\text{gal}}:\mathbb{Q}_p]} = \frac{1}{p^k} \frac{t-1}{t} + \sum_{j=1}^k \frac{p-1}{p^j} s_{k+1-j}$$

Once we compute the Galois mean slope for our extension we can use Montes' algorithm Guàrdia *et al.* (2011, 2010) to compute the p -part of the number field discriminant of the splitting field of our extension and compare it with the Galois mean slope. If the values agree then that gives an indirect verification that the Galois slope content of our extension is indeed correct.

1.4 Parametric/Generic polynomials

The Inverse Problem of Galois Theory asks if for a finite group G and a field K , does there exist a finite Galois extension L such that $G = \text{Gal}(L/K)$. An additional question is if G can be realized as the Galois group of a field extension of K , can we construct a family of polynomials over K such that the Galois group of the polynomials over K is G .

The idea of *parametric polynomials* is an attempt to answer the second question. Following Jensen, Ledet, and Yui, consider the polynomial $P(\mathbf{t}, x) \in K(\mathbf{t})[x]$, where $\mathbf{t} = (t_1, \dots, t_n)$ and the t_i are indeterminants. Let \mathbb{L} be the splitting field of $P(\mathbf{t}, x)$ over $K(\mathbf{t})$. We say that $P(\mathbf{t}, x)$ parametrizes G -extensions and is a *parametric*

polynomial if P satisfies the following two properties:

1. $\mathbb{L}/K(\mathbf{t})$ is Galois with Galois group G
2. Every Galois extension L/K with Galois group G is the splitting field of a polynomial $P(\mathbf{a}, x)$ for some $\mathbf{a} \in K^n$.

If $P(\mathbf{t}, x)$ has the additional property of parametrizing G -extensions for any field containing K then we say $P(\mathbf{t}, x)$ is a *generic polynomial*. Discussion on generic polynomials up to degree 7 is readily available, for example, see Jensen *et al.* (2002).

Finding Parametric/Generic Polynomials

We will describe the variety of methods used to find the parametric/generic polynomials which in turn will be used to find global splitting models. Additionally, we will also describe processes for finding polynomials in $\mathbb{Q}[t][x]$ that come from regular covers, i.e. three point covers.

The first approach is simply using polynomials constructed by others. In particular use the tables of polynomials over $\mathbb{Q}[t]$ constructed in Smith (2000) and Malle and Matzat (1999). And for generic polynomials we used Jensen *et al.* (2002) and Tsunogai and Hashimoto (2003).

The first class of generic polynomials we are interested in are C_p -extensions for an odd prime p , we follow the strategy used in Jensen *et al.* (2002) and Saltman (1982). A small overview of the process is as follows.

Given an odd prime p and a field of characteristic 0 K . Let ζ be a primitive p^{th} root of unity and consider the field extension $K(\zeta)/K$ and let $d = [K(\zeta) : K]$. We know $\text{Gal}(K(\zeta)/K) = C_d$, so let φ be the generator of $\text{Gal}(K(\zeta)/K)$. Therefore $\varphi(\zeta) = \zeta^e$, for some $e \in \mathbb{Z}$ that has order $d \bmod p$, we can pick e such that e has order $pd \bmod p^2$.

Next define a map $\Phi : K(\zeta) \rightarrow K(\zeta)$ by $\Phi(x) = x^{e^{d-1}}\varphi(x^{e^{d-2}})\varphi^2(x^{e^{d-3}}) \cdot \dots \cdot \varphi^{d-1}(x)$. Let $\mathbf{y} = (y_1, \dots, y_d)$ be a set of indeterminants and $x_1 = y_1 + y_2\zeta + \dots + y_d\zeta^{d-1}$ will be generic element of $K(\zeta)$. Define $x_{i+1} = \varphi^i(x_1)$ for $i = 1, \dots, d-1$ and $x = x_1 \cdot \dots \cdot x_d$.

Let $S = K[\mathbf{y}, 1/x]$, $S_p = K(\zeta)[\mathbf{y}, 1/x]$, and $T_p = S_p[\theta]$ where $\theta^p = \Phi(x_1)$. Now the automorphism φ can be extended to T_p by $\varphi(\theta) = x_1^{-(e^d-1)/q}\theta^e$. Thus the Galois group of T_p/S will be $C_d \times C_p$. Let $T = T_p^{C_d}$ now by Theorem 5.3.2 in Jensen *et al.* (2002) the extension T/S is a generic C_p -extension over K .

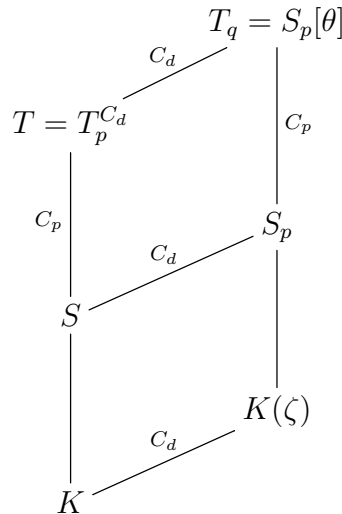


Figure 1.2: Diagram to construct generic C_p -extensions

Although T/S is a generic C_p extension we would like to find an explicit defining polynomial of this extension. Let $\alpha = \sum_{i=0}^{d-1} \varphi^i(\theta) = \text{Tr}_{S_d/S}(\theta)$. Clearly, φ is the only automorphism that fixes α . Therefore the minimal polynomial of α over $K(y_1, \dots, y_d)$ has degree p and is a generic polynomial for C_p -extensions. Using this method we produce generic polynomials for C_3 , C_5 , and C_7 extensions.

A natural continuation from finding generic C_p extensions is to find generic $C_p \rtimes C_{p-1}$ and $C_p \rtimes C_{(p-1)/2}$ extensions. Jambor Jambor (2009) generalizes the method by Saltman detailed above.

Let S/R be a generic C_{p-1} (or $C_{(p-1)/2}$) extension over K with free basis $(s_1, s_2, \dots, s_{p-1})$ and let $\text{Gal}(S/R) = \langle \kappa \rangle$. We would like to construct a generic C_p -extension T of over S such that T/R is a $C_p \rtimes C_{p-1}$ -extension. We can do this by modifying a couple of things. First a generic element of S_p will be

$$\left(\sum_{j=1}^p y_{j,1} s_j \right) + \left(\sum_{j=1}^p y_{j,2} s_j \right) \zeta + \dots + \left(\sum_{j=1}^p y_{j,d} s_j \right) \zeta^d,$$

which has $p(p-1)$ indeterminants. Define the element $x = \prod_{i=0}^{l-1} \prod_{j=0}^{d-1} \varphi^j(\kappa^i(x_1))$.

Additionally, for some positive integer k define the map $\Psi(x) = x^{k^{p-1}} \kappa(x^{k^{p-2}}) \cdot \dots \cdot \kappa^{k-1}(x)$. And let $\theta^p = \Psi(\Phi(x_1))$. By Lemma 8 in Jambor (2009) there exist a value of k such that $T_p^{C_d}/S$ is a C_p -extension and $T_p^{C_d}/R$ is a $C_p \rtimes C_{p-1}$ -extension.

We can find the defining polynomial for $\text{Tr}_{S_p/S}(\theta)$ as before, but this will give us a polynomial of degree $p(p-1)$. But if we instead taking the defining polynomial of $\text{Tr}_{S_p/S}(\theta^p)$ then this will be a generic polynomial of degree p for $C_p \rtimes C_{p-1}$ extensions

where s the generator of a normal basis for $S/F[\mathbf{y}, 1/x]$.

This construction has the advantage of specifying the C_{p-1} or $C_{(p-1)/2}$ extension. Unfortunately, it is difficult to produce an explicit generic polynomial due to the number of indeterminants involved. What we do instead is numerically approximate roots of all polynomials involved up to some precision, give values from K to all indeterminants and then use a CAS to determine the coefficients in K of our defining polynomial. Using this numerical approach we are able produce $C_p \rtimes C_{p-1}$ and $C_p \rtimes C_{(p-1)/2}$ extensions for $p = 5$ and 7 .

We will illustrate Jambor's process with the following example. Let $p = 7$ and K/\mathbb{Q} be a C_3 extension with defining polynomial $x^3 - 3x - 1$. Using small integer values for $y_{i,j}$ we have the extension L/\mathbb{Q} with defining polynomial

$$x^7 - 157492587x^5 - 110034820784x^4 + 3239364384239907x^3 + 4249494429767946912x^2 - 12088454264348533185401x - 15071612656682433535161456.$$

The extension L/\mathbb{Q} will have Galois group $C_7 \rtimes C_3$ and $L^{\text{gal}}/\mathbb{Q}$ will contain K .

For the rest of this section we will describe the variety of ways to find polynomials over $\mathbb{Q}(t)$ with a specified Galois group. Although the polynomials may not be truly generic or parametric, they do have the advantage of only using one indeterminate and the degree of the coefficient with respect to t is usually smaller than with true generic/parametric polynomials which will help in computations.

The first approach is an ad hoc approach. The database created by Klüners and

Malle Klüners and Malle (2001) uses regular covers to find examples of number fields with a specified Galois group. Note that these Galois groups that are not necessarily just C_p or $C_p \rtimes C_{p-1}$. Although we do not have access to the explicit polynomials over $\mathbb{Q}(t)$ we can investigate examples from the database to guess a polynomial over $\mathbb{Q}(t)$. Specifically, we want to find a polynomial that will specialize to the examples that we are currently observing from the database for some value of t . We can then check if the resulting polynomial will give the correct Galois group in Magma.

With a library of polynomials over $\mathbb{Q}(t)$ with various Galois groups we can produce other polynomials that will be the direct product or wreath product of these Galois groups using resultants.

Let F be a field. Let $f \in F(t)[x]$ with Galois group G_1 and $g \in F(t)[x]$ with Galois group G_2 then there will exist $k \in \mathbb{Z}$ such that $\text{Gal}(\text{res}_y(f(y), g(x - ky))) = G_1 \times G_2$, unless there exists a common subfield in both Galois closures of f and g . Also if $f \in F(t)[z]$ has Galois group G_1 and $g \in F(z)[x]$ has Galois group G_2 , then $\text{res}_z(f(z), g(x)) \in F(t)[x]$ will in general have Galois group $G_2 \wr G_1$.

We can also use resolvents to find defining polynomials for subextensions from the Galois groups $G_1 \wr G_2$ and $G_1 \times G_2$. For example, we can find $C_p \rtimes C_{p-1}$ extensions over $\mathbb{Q}(t)$ by first finding a polynomial over $\mathbb{Q}(t)$ with Galois group $C_p \wr C_{p-1}$ and then using resolvents to recover the $C_p \rtimes C_{p-1}$ extension.

In general this strategy can produce polynomials over $\mathbb{Q}(t)$ whose Galois group is contained in the wreath product of two other groups. But as the order of the wreath product increases it becomes difficult to use resolvents to find a defining polynomial

of the subextension. A possible work around is to use relative resolvents since we know the Galois group is a wreath product of two groups that we specified.

CONSTRUCTING GLOBAL SPLITTING MODELS

In this chapter, we describe four strategies we used to find candidates for global splitting models. Recall a *global splitting model* of a p -adic extension K/\mathbb{Q}_p , is a polynomial $f(x) \in \mathbb{Z}[x]$ that is irreducible in $\mathbb{Z}_p[x]$ with $\mathbb{Q}_p(\alpha) \cong K$ and $\text{Gal}(\mathbb{Q}_p(\alpha)^{\text{gal}}/\mathbb{Q}_p) = \text{Gal}(\mathbb{Q}(\alpha)^{\text{gal}}/\mathbb{Q})$ where α is a root of $f(x)$.

2.1 Confirming global splitting models

As we produce potential global splitting models, we naturally need to confirm if the polynomials are truly global splitting models and which p -adic extensions these polynomials are isomorphic to.

So using a defining polynomial $f(x)$ of a degree n extension F over \mathbb{Q}_p and Panayi's algorithm, we can check if a root of $f(x)$ is contained in the field generated by a potential global splitting model, $g(x)$, the degree n extension \hat{K}/\mathbb{Q}_p which is the completion of K/\mathbb{Q} . If this is true this means that F^{gal} is contained in \hat{K}^{gal} . If we have the case where $\text{Gal}(F^{\text{gal}}/\mathbb{Q}_p)$ and $\text{Gal}(K^{\text{gal}}/\mathbb{Q})$ are isomorphic, this tells us our candidate $g(x)$ is actually global splitting model for F/\mathbb{Q}_p . If there is a root of $f(x)$ contained in \hat{K} and since $\text{Gal}(F^{\text{gal}}/\mathbb{Q}_p)$ and $\text{Gal}(K^{\text{gal}}/\mathbb{Q})$ are isomorphic, this means that $\text{Gal}(\hat{K}^{\text{gal}}/\mathbb{Q}_p)$ must have at least order $|\text{Gal}(F^{\text{gal}}/\mathbb{Q}_p)| = |\text{Gal}(K^{\text{gal}}/\mathbb{Q})|$ but the order $\text{Gal}(\hat{K}^{\text{gal}}/\mathbb{Q}_p)$ is at most $|\text{Gal}(K^{\text{gal}}/\mathbb{Q})|$ by Proposition 1.1.17, therefore $\text{Gal}(K^{\text{gal}}/\mathbb{Q}) = \text{Gal}(\hat{K}^{\text{gal}}/\mathbb{Q}_p)$ and $g(x)$ is the global splitting model of F/\mathbb{Q}_p .

Another way we can verify that our candidate $g(x)$ is a global splitting model is

to first compute a defining polynomial for the Galois closure of $g(x)$ over \mathbb{Q} and then factor this polynomial p -adically with a high precision. If the polynomial does not factor with a precision based on the p -adic valuation of the polynomial discriminant, then this is evidence that $g(x)$ is actually a global splitting model, as the prime p did not split in the Galois closure of $g(x)$. For quicker factorization p -adically we used the implementation of Montes algorithm Guàrdia *et al.* (2011) in the `ideals+` package Guàrdia *et al.* (2010).

2.2 Using a Database Search

Our initial attempt to find global splitting models is to use the various databases of number fields, namely the databases of Jones and Roberts Jones and Roberts (2006), Klüners and Malle Klüners and Malle (2001), and the LMFDB (L -function and Modular Forms Database) LMFDB Collaboration (2013) to find any initial matches. We can quickly filter out number fields when the prime p splits within the number field and with the remaining polynomials we can check if any are global splitting models for some p -adic extension. This strategy is useful for finding quick matches when we initially are searching for global splitting models for p -adic extensions of a given degree.

2.3 Using Galois Theory

The next strategy for finding global splitting models is to use group theoretic facts about the Galois group of a p -adic extension to construct a potential global splitting model using composita of smaller fields.

Given a field extension K/F with Galois group G and $[K : F] = n$ we want

to determine if there exist a subfield L of K^{gal} such that $L^{\text{gal}} = K^{\text{gal}}$ and L is the compositum of two smaller subfields. This can be easily found using group theoretic arguments. Namely, we are searching for two non-trivial subgroups of the Galois group of index less than n such that their intersection is trivial. In the case of multiple pairs of non-trivial subgroups that satisfies the previous statement, we pick the pair that generates the largest group (in order), as this will correspond to a common subfield for the fixed fields of the pair of subgroups and we want to minimize this degree.

We will show an example of this process using a field extension K/F with Galois group 14T9. Using Magma we find that there exist a pair of subgroups H and K (of index 2 and 8 respectively) whose intersection is trivial and $\langle H, K \rangle$ is the group 14T9. Their corresponding fixed fields will have Galois group 2T1 and 8T25.

This means there exists a degree 16 extension of K^{gal} that is the compositum of a degree 2 and degree 8 extension with no common subfield. The Galois closure of this degree 16 extension has the Galois group isomorphic 14T9. We can then use Magma to recover the 14T9 extension as a resolvent.

Once we identify a suitable pair of subgroups for a particular Galois group for an extension of \mathbb{Q}_p , we need to find a global splitting model for the fixed field for each subgroup. To find these global splitting model with isomorphic common subfield, we again refer back to the global splitting models already found, the various number field databases, or use the other methods which will be described below. Finding a global splitting model for the lower degree extensions could be potentially easier due to a greater number of lower degree number fields in the various databases and

computationally could be quicker with the methods that will be described next.

2.4 Using Class Field Theory

This strategy uses class field theory to find global splitting models. We know that solvable Galois extension can be constructed by a chain of extensions such that we have an abelian extension at each step of the chain. We use this idea to create a global splitting model.

For a number field K we can use class field theory to construct a cyclic extension of K with prime order and conductor that divides an ideal of \mathbb{Z} that we will specify. There are two implementations that construct cyclic extension of prime order, one in Pari/GP PAR (2015) implementing algorithms in Cohen (2012) and the other in Magma Fieker (2001).

Here is an example with a field extension K/\mathbb{Q} with Galois group 15T26. We cannot find a global splitting model for this type of extension using composita of proper subfields of K^{gal} . It can be calculated that $|\text{Aut}_{\mathbb{Q}}(K)| = 3$. So using standard Galois Theory there exist a unique degree 5 subfield F of K , and it can be shown that $\text{Gal}(F/\mathbb{Q}) \cong C_5$. Now K over F is a Galois extension of degree 3, therefore $\text{Gal}(K/F) \cong C_3$. So finding a C_3 extension of F , will give us a degree 15 extension over \mathbb{Q} that may include or be a 15T26 extension.

Another more complicated example is a 15T33 extension of \mathbb{Q} . Now $|\text{Aut}_{\mathbb{Q}}(K)| = 1$ and there exist a degree 5 subfield F with Galois group C_5 over \mathbb{Q} . So K/F is a degree 3 extension that is not Galois, this means that the Galois group of K/F must be S_3 .

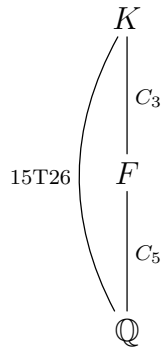


Figure 2.1: Example using 15T26

The Galois closure K' of K over F has degree 6, so there exists a degree 2 extension L_1 over F , which is always cyclic. Additionally, since K' over F is obviously Galois, then K' over L_1 is a degree 3 Galois extension, which means it must also be cyclic.

So we can use our process in two steps. The first step is the find quadratic extensions of F and then find C_3 extensions of the resulting fields. This will give us degree 30 extensions that could possibly contain a 15T33 extension. From a degree 30 extension we can use Pari/GP or Magma to try to find a 15T33 extension. A way to optimize this process is to identify that $\text{Gal}(L_1/\mathbb{Q}) \cong C_{10}$, and then find C_3 extensions of L_1 in one iteration rather than two iterations.

Using group theory we can tell if a number field with particular Galois group G is the subfield of an extension whose Galois group is the wreath product of two groups with the first group cyclic of prime order, i.e. it provides the base extension and order of cyclic extension from the base extension. Klüner and Malle's database provides us an easy way to find this information so we can to apply our technique to find a global splitting model.

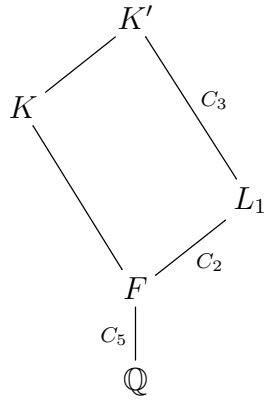


Figure 2.2: Example using 15T33

2.5 Using Generic Polynomials

We will describe our strategy to find global splitting models for non-primitive extensions. Given a non-primitive extension K/\mathbb{Q}_p , there will exist a subfield F , such that $\mathbb{Q}_p \subseteq F \subseteq K$ and $F^{unram} = K^{unram}$. If we know $\text{Gal}(K^{\text{gal}}/\mathbb{Q}_p)$, then we can also determine $G' = \text{Gal}(K^{\text{gal}}/F)$. If $[K : F]$ is of low degree, say less than 7, and we can find a generic polynomial $P(\mathbf{t}, x)$ that parametrises G' -extensions. If there exists multiple subfields of K , we simply pick the subfield F such that $[K : F]$ is the minimal.

Given a global splitting model $f(x)$ for F/\mathbb{Q}_p let $L = \mathbb{Q}[x]/(f(x))$. If we calculate $P(\mathbf{a}, x)$ for $\mathbf{a} \in L^n$. This will give us a relative field extension over L which we can then view as an extension over \mathbb{Q} . Once we calculate a defining polynomial for the absolute extension, we then determine if it is a global splitting model of K/\mathbb{Q}_p .

There exist three possible issues with this approach, the first is finding a global splitting model for F/\mathbb{Q}_p , the second is finding the generic polynomial $P(\mathbf{t}, x)$, and the third is having the correct Galois group of the absolute extension. For the first issue, since we are finding global splitting models in order by degree of the extension

for a given prime p , it is likely there is at least one global splitting model for the extension F/\mathbb{Q}_p available. For the second issue, we can refer to Jensen *et al.* (2002) or other resources for examples or algorithms to get the necessary generic polynomials of small degree. For the third issue, we try to mitigate it by finding several values of $\mathbf{a} \in L^n$ or by focusing on extensions whose Galois group is a wreath product and then using resolvents.

To find suitable values of $\mathbf{a} \in L^n$ we developed an algorithm that uses Panayi's root finding algorithm to find global splitting models if we have an explicit parametric or generic polynomial. The idea of this algorithm is to "zero" in to correct values of the indeterminants of $P(\mathbf{t}, x)$ by using Panayi's algorithm and the appropriate substitutions. We will describe the algorithm now:

Algorithm 1

We keep the above notation. From the global splitting model $f(x)$ with number field L/\mathbb{Q} we can construct a relative extension M over L such that $\hat{M} = K$, by following the algorithm outlined in Pauli (2006). Let $g(x)$ be the defining polynomial of M/\mathbb{Q} .

Since $f(x)$ is a global splitting model of F/\mathbb{Q}_p , then $p\mathcal{O}_L = \mathfrak{P}^e$ for some prime ideal \mathfrak{P} . Let π_F be a non-trivial generator of \mathfrak{P} . Then π_F is a uniformizer of $\hat{L}/\mathbb{Q}_p \cong F/\mathbb{Q}_p$ and let π_K be a uniformizer of K/\mathbb{Q}_p . Note we can represent π_F in terms of π_K and we can calculate π_K from M/\mathbb{Q} .

- Let $\mathbf{b} = (a_1, \dots, a_{n-1}, t)$ with $a_i \in L$ and define

$$\varphi(x, t) := P(\mathbf{b}, x) = c_n x^n + c_{n-1} x^{n-1} + \dots + c_1 x + c_0 \in (\mathcal{O}_L[t])[x]$$

where $c_i = a_{i,0} + a_{i,1}t + \dots + a_{i,m_i}t^{m_i}$.

- Define $\nu_K(\varphi) := \min\{\nu_K(a_{0,0}), \dots, \nu_K(a_{n,m_n})\}$ and $\varphi^\#(x, t) := \varphi(x, t)/\pi_K^{\nu_K(\varphi)}$. For $\alpha \in \mathcal{O}_K$ denote its representative in the residue field k by $\bar{\alpha}$, and for $\beta \in k$, denote a lift of β to \mathcal{O}_K by $\hat{\beta}$. Note that since $\hat{L}^{unram} = F^{unram} = K^{unram}$, then the set of representatives for each residue field will be the same and we can find the representatives from L .
- We initially create a set $S = \{0, \varphi^\#(x, t)\}$ and for $\{a, \phi(x, t)\} \in S$, if $\deg_t(\bar{\phi}(x, t)) > 0$, then we replace $\{a, \phi(x, t)\}$ with $\bigcup_{\beta \in k} \{a + \pi_F \hat{\beta}, \phi(x, \hat{\beta} + \pi_F t)\}$
- If $\deg_t(\bar{\phi}(x, t)) = 0$ and if $\bar{\phi}(x, t)$ has a root β then define $\phi'(x, t) := \phi(x\pi_K + \hat{\beta}, t)$ and we replace $\{a, \phi(x, t)\}$ with $\{a, \phi'(x, t)\}$.

When one of the following cases occur:

1. $\deg_t(\bar{\phi}(x, t)) = 0$ and $\deg_x(\bar{\phi}) = 1$ then $P(\mathbf{a}, x)$ with $\mathbf{a} = (a_1, \dots, a_{n-1}, a)$ has a root of in K .
2. $\deg_t(\bar{\phi}(x, t)) = 0$ and $\deg_x(\bar{\phi}) = 0$ then $P(\mathbf{a}, x)$ with $\mathbf{a} = (a_1, \dots, a_{n-1}, a)$ does not have root of in K .
3. $\deg_t(\bar{\phi}(x, t)) = 0$ and $\bar{\phi}(x, t)$ has no roots then $P(\mathbf{a}, x)$ with $\mathbf{a} = (a_1, \dots, a_{n-1}, a)$ does not have root of in K .

We continue this process until either $S = \{\}$ or we reach a specified bound. Once a list of polynomials $P(\mathbf{a}, x)$ is produced from Algorithm 1, we produce a list of polynomials over \mathbb{Q} . From this list of polynomials we search for a global splitting model

for the extension K/\mathbb{Q}_p . Note we choose to give values to all but one indeterminate, this is not necessary as we can modify this algorithm to solve for multiple indeterminants. In general only having one indeterminate does make the computations easier.

2.6 14T23 and 14T32 Extensions

When trying to find global splitting models for 14T23 and 14T32 extensions of \mathbb{Q}_7 , the method that uses class field theory was not computationally viable. In particular Magma was running for 11 days trying to produce one potential candidate of a global splitting model for a 14T23 extension before the process was stopped. In particular Magma will try to construct a C_7 extension from a degree 72 extension. In this section we will outline a process that uses resolvents to find the Galois slope content and companion information without the need of a global splitting model.

For both of these Galois groups, there exist one only filtration for each possible vector for the Galois slope content that was found using Procedure 1. So we can find the inertia subgroup by knowing the degree of the maximal unramified extension of the Galois closure of the p -adic extension.

Additionally, for both Galois groups, $G^{(1+)} \cong C_7 \times C_7$, and the next ramification group is the trivial subgroup. Therefore in the Galois slope content for all 14T23 and 14T32 extensions of \mathbb{Q}_7 there will be one wild slope appearing with multiplicity two. We can find the slope content of our given p -adic extension this will give us the one wild slope, and we will only need to know what is u and t in the Galois slope content.

From the possible vectors for the Galois slope content for 14T23 extensions, we

determine $(u, t) = (12, 1), (6, 2), (4, 3)$ or $(2, 6)$. And for 14T32 extensions, we determine $(u, t) = (6, 4)$ or $(2, 12)$, so in this case we will know u and t if we determine which of the two is divisible by 3.

A standard absolute resolvent for $S_{12} \times S_2$ is

$$f_{91}(x) = \prod_{i < j} (x - \alpha_i - \alpha_j).$$

A standard absolute resolvent for $S_{11} \times S_3$ is

$$f_{364}(x) = \prod_{i < j < k} (x - \alpha_i - \alpha_j - \alpha_k).$$

Given a polynomial $f(x)$ that generates a 14T23 extension over \mathbb{Q}_7 . The polynomial $f_{91}(x)$ factors into degree 42 and 49 polynomials. The field generated by a root of the degree 42 factor has a unique sextic subfield that is also a unique sextic subfield in the splitting field of $f(x)$. The polynomial $f_{364}(x)$ factors into degree 28, 42, and 294 polynomials. The field generated by a root of the degree 28 factor has a unique quartic subfield that is also a unique quartic subfield in splitting field of $f(x)$.

Therefore if we can find the ramification index and residue field degree of the degree 42 factor of $f_{91}(x)$ and the degree 28 factor of $f_{364}(x)$, that will be sufficient enough to know the values of u and t .

Given a polynomial $f(x)$ that generates a 14T32 extension over \mathbb{Q}_7 . The polynomial $f_{91}(x)$ factors into degree 42 and 49 polynomials. The field generated by a root of the degree 42 factor has a unique cubic subfield that is also a unique cubic subfield in the splitting field of $f(x)$. So if we can find the ramification index and residue field degree of the degree 42 factor of $f_{91}(x)$, we will know which of u or t is divisible by 3

which is sufficient enough to know the values of u and t .

Once we know the Galois slope content for each 14T23 and 14T32 extension we can determine the companion information as well.

Chapter 3

TABLES

The following tables gives for each degree n extension of \mathbb{Q}_p a defining polynomial, a global splitting model, its Galois slope content, inertia subgroup, and Galois mean slope. Inertia subgroups of the form T: n, d represents the transitive subgroup Td of S_n . Inertia subgroups of the form I: a, b represents the intransitive subgroup $\langle a, b \rangle$ under the ordering used in GAP.

Table 3.1: Degree 12 extensions of \mathbb{Q}_2

Table 3.2: Degree 12 extensions of \mathbb{Q}_3

Table 3.3: Degree 14 extensions of \mathbb{Q}_2

Table 3.4: Degree 14 extensions of \mathbb{Q}_7

Table 3.5: Degree 15 extensions of \mathbb{Q}_3

Table 3.6: Degree 15 extensions of \mathbb{Q}_5

Table 3.1: Degree 12 extensions of \mathbb{Q}_2

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-----------------|
| $x^{12} - 26x^{10} + 275x^8 - 1500x^6 + 4375x^4 - 6250x^2 + 7221$ | $x^{12} - x^{11} + 3x^{10} - 4x^9 + 9x^8 + 2x^7 + 12x^6 + x^5 + 25x^4 - 11x^3 + 5x^2 - 2x + 1$ | $\left[\begin{array}{c} 12 \\ 1 \end{array} \right]$ | T: 1,1 | 0 |
| $x^{12} - x^{10} - 6x^8 - x^6 + 2x^4 + 7x^2 + 5$ | $x^{12} - 3x^{11} - 888x^{10} + 2660x^9 + 308151x^8 - 878220x^7 - 53209587x^6 + 132388596x^5 + 4800412971x^4 - 8975649010x^3 - 213443493450x^2 + 211625342025x + 3644274033955$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]$ | I: 3,1 | $\frac{2}{3}$ |
| $x^{12} - 52x^{10} + 20x^8 - 60x^6 - 32x^4 - 16x^2 - 48$ | $x^{12} - 24x^{10} - 8x^9 + 216x^8 + 144x^7 - 880x^6 - 864x^5 + 1488x^4 + 1976x^3 - 576x^2 - 1488x - 464$ | $\left[\begin{array}{c} 12 \\ 3 \end{array} \right]$ | I: 3,1 | $\frac{2}{3}$ |
| $x^{12} - 48x^{10} + 49x^8 + 8x^6 + 19x^4 - 24x^2 + 59$ | $x^{12} - 13x^8 + 39x^4 - 13x^2 - 13$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 2 & 2 & 2 & 2 \\ & & & & & & 6 \\ & & & & & & 1 \end{array} \right]$ | I: 64,267 | $\frac{63}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-----------------|
| $x^{12} - 6x^{10} - 13x^8 - 28x^6 + 15x^4 - 30x^2 - 3$ | $x^{12} - 26x^8 - 78x^6 - 78x^4 - 13x^2 + 13$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & 2 \\ & & & 2 \end{array} \right]_1^6$ | I: 32,51 | $\frac{31}{16}$ |
| $x^{12} - 16x^{10} - 51x^8 - 8x^6 + 43x^4 + 24x^2 - 57$ | $x^{12} - 3x^{10} - 6x^8 + 30x^6 - 34x^4 + 12x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & 2 \\ & & & 2 \end{array} \right]_1^6$ | I: 64,267 | $\frac{63}{32}$ |
| $x^{12} - 6x^{10} + 15x^8 - 20x^6 + 15x^4 - 38x^2 - 31$ | $x^{12} + 2x^{10} - 7x^8 - 6x^6 + 5x^4 + 5x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & 2 \\ & & & 2 \end{array} \right]_1^6$ | I: 32,51 | $\frac{31}{16}$ |
| $x^{12} + 52x^{10} - 11x^8 - 8x^6 - 45x^4 - 44x^2 - 9$ | $x^{12} - 4x^{10} - 2x^8 + 9x^6 + 2x^4 - 4x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & 2 \\ & & & 2 \end{array} \right]_1^6$ | I: 16,14 | $\frac{15}{8}$ |
| $x^{12} - 18x^{10} + 11x^8 - 52x^6 - x^4 + 6x^2 - 11$ | $x^{12} - 26x^8 + 78x^6 - 78x^4 + 13x^2 + 13$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & 2 \\ & & & 2 \end{array} \right]_1^{12}$ | I: 16,14 | $\frac{15}{8}$ |
| $x^{12} - 48x^{10} + 53x^8 + 40x^6 + 27x^4 - 56x^2 + 47$ | $x^{12} + 3x^{10} - 6x^8 - 30x^6 - 34x^4 - 12x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & 2 \\ & & & 2 \end{array} \right]_1^6$ | I: 64,267 | $\frac{63}{32}$ |
| $x^{12} + 8x^{10} - 31x^8 + 64x^6 - 53x^4 - 8x^2 - 45$ | $x^{12} - 6x^{10} + 15x^8 - 21x^6 + 18x^4 - 9x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & 2 \\ & & & 2 \end{array} \right]_1^6$ | I: 16,14 | $\frac{15}{8}$ |

Continued on next page

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-----------------|
| $x^{12} - 18x^{10} + 7x^8 - 28x^6 - x^4 - 18x^2 - 7$ | $x^{12} - 2x^{10} - 7x^8 + 6x^6 + 5x^4 - 5x^2 + 1$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & 2 \\ & & & 2 \end{bmatrix}_1^6$ | I: 16,14 | $\frac{15}{8}$ |
| $x^{12} - 6x^{10} + 23x^8 - 28x^6 - 9x^4 - 30x^2 - 15$ | $x^{12} - 6x^{10} - 11x^8 + 6x^6 + 15x^4 + 7x^2 + 1$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & 2 \\ & & & 2 \end{bmatrix}_1^6$ | I: 16,14 | $\frac{15}{8}$ |
| $x^{12} - 6x^{10} - 73x^8 + 140x^6 + 79x^4 - 6x^2 + 57$ | $x^{12} + 6x^{10} + 15x^8 + 19x^6 + 12x^4 + 3x^2 + 1$ | $\begin{bmatrix} 2 & 2 \\ & 2 \end{bmatrix}_1^6$ | I: 4,2 | $\frac{3}{2}$ |
| $x^{12} + 66x^{10} - 93x^8 - 68x^6 - 41x^4 + 66x^2 - 123$ | $x^{12} + 13x^{10} + 52x^8 + 52x^6 - 91x^4 - 143x^2 + 13$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 2 \end{bmatrix}_1^6$ | I: 8,5 | $\frac{7}{4}$ |
| $x^{12} - 18x^{10} - 13x^8 - 44x^6 + 55x^4 + 62x^2 + 21$ | $x^{12} - 13x^8 + 13x^6 + 26x^4 - 39x^2 + 13$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & 2 \\ & & & 2 \end{bmatrix}_1^6$ | I: 32,51 | $\frac{31}{16}$ |
| $x^{12} + 4x^{10} + 21x^8 - 16x^6 + 43x^4 + 12x^2 - 1$ | $x^{12} + x^{10} - 5x^8 - 4x^6 + 6x^4 + 3x^2 - 1$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & & & & 2 \\ & & & & 2 \\ & & & & 2 \end{bmatrix}_1^6$ | I: 64,267 | $\frac{63}{32}$ |
| $x^{12} - 28x^{10} - 63x^8 - 32x^6 + 19x^4 + 60x^2 - 21$ | $x^{12} - 52x^8 - 156x^6 - 169x^4 - 78x^2 - 13$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & & & & 2 \\ & & & & 2 \\ & & & & 2 \end{bmatrix}_1^6$ | I: 64,267 | $\frac{63}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-----------------|
| $x^{12} - 16x^{10} - 23x^8 + 24x^6 - 29x^4 - 8x^2 - 13$ | $x^{12} - 13x^8 + 39x^4 + 13x^2 - 13$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{bmatrix}_1^6$ | I: 64,267 | $\frac{63}{32}$ |
| $x^{12} + 22x^{10} + 75x^8 - 12x^6 - 89x^4 + 54x^2 - 115$ | $x^{12} - 13x^{10} + 52x^8 - 52x^6 - 91x^4 + 143x^2 + 13$ | $\begin{bmatrix} 2 & 2 \\ & 2 \end{bmatrix}_1^{12}$ | I: 4,2 | $\frac{3}{2}$ |
| $x^{12} + 80x^{10} + 81x^8 - 160x^6 - 117x^4 + 80x^2 + 227$ | $x^{12} - 9x^{10} + 33x^8 - 54x^6 + 45x^4 - 18x^2 + 3$ | $\begin{bmatrix} 2 & 2 \\ & 2 \end{bmatrix}_1^6$ | I: 4,2 | $\frac{3}{2}$ |
| $x^{12} - 6x^{10} + 27x^8 - 4x^6 + 7x^4 + 10x^2 + 29$ | $x^{12} - 13x^8 - 13x^6 + 26x^4 + 39x^2 + 13$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & & & 1 \end{bmatrix}_1^{12}$ | I: 16,14 | $\frac{15}{8}$ |
| $x^{12} - 18x^{10} - 49x^8 - 52x^6 + 39x^4 + 6x^2 + 9$ | $x^{12} + 6x^{10} - 11x^8 - 6x^6 + 15x^4 - 7x^2 + 1$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & & & 1 \end{bmatrix}_1^6$ | I: 32,51 | $\frac{31}{16}$ |
| $x^{12} + 44x^{10} + 45x^8 - 48x^6 + 59x^4 - 60x^2 + 23$ | $x^{12} - x^{10} - 5x^8 + 4x^6 + 6x^4 - 3x^2 - 1$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{bmatrix}_1^6$ | I: 64,267 | $\frac{63}{32}$ |
| $x^{12} - 52x^{10} - 7x^8 + 32x^6 + 35x^4 - 44x^2 - 29$ | $x^{12} - 52x^8 + 156x^6 - 169x^4 + 78x^2 - 13$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{bmatrix}_1^6$ | I: 64,267 | $\frac{63}{32}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-----------------|
| $x^{12} - 2x^{10} - 65x^8 + 100x^6 - 97x^4 - 98x^2 + 97$ | $x^{12} - 6x^{10} + 15x^8 - 19x^6 + 12x^4 - 3x^2 + 1$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^6$ | I: 8,5 | $\frac{7}{4}$ |
| $x^{12} - 100x^{10} - 59x^8 + 104x^6 + 387x^4 + 444x^2 + 439$ | $x^{12} - x^{10} - 18x^8 - 22x^6 + 6x^4 + 10x^2 - 1$ | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^6$ | I: 4,2 | $\frac{3}{2}$ |
| $x^{12} - 78x^{10} - 1621x^8 + 460x^6 - 1977x^4 + 866x^2 + 749$ | $x^{12} - 4x^{11} - 17x^{10} + 74x^9 + 74x^8 - 412x^7 - 23x^6 + 734x^5 - 175x^4 - 324x^3 + 90x^2 + 22x + 1$ | $\begin{bmatrix} 2 \\ & 1 \end{bmatrix}^6$ | I: 2,1 | 1 |
| $x^{12} - 162x^{10} + 26423x^8 + 125508x^6 - 64481x^4 - 122498x^2 - 86071$ | $x^{12} - x^6 + 1$ | $\begin{bmatrix} 2 \\ & 1 \end{bmatrix}^6$ | I: 2,1 | 1 |
| $x^{12} - 312x^{10} - 1788x^8 - 1280x^6 + 304x^4 + 1920x^2 - 1344$ | $x^{12} - 208x^8 - 1248x^6 - 2704x^4 - 2496x^2 - 832$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 3 \\ & & & & & 1 \end{bmatrix}^6$ | I: 64,267 | $\frac{79}{32}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-----------------|
| $x^{12} - 36x^{10} + 972x^8 + 1696x^6 - 1168x^4 + 1984x^2 + 1344$ | $x^{12} - 52x^8 + 104x^6 + 416x^4 - 1248x^2 + 832$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 3 \end{array} \right]_1^6$ | I: 32,51 | $\frac{39}{16}$ |
| $x^{12} - 32x^{10} + 420x^8 - 2880x^6 + 2608x^4 + 3840x^2 + 3264$ | $x^{12} - 52x^8 + 624x^4 + 416x^2 - 832$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 3 \end{array} \right]_1^6$ | I: 64,267 | $\frac{79}{32}$ |
| $x^{12} - 36x^{10} - 468x^8 - 416x^6 - 16x^4 + 192x^2 - 704$ | $x^{12} - 104x^8 + 624x^6 - 1248x^4 + 416x^2 + 832$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 3 \end{array} \right]_1^6$ | I: 32,51 | $\frac{39}{16}$ |
| $x^{12} + 16x^{10} + 388x^8 + 3584x^6 + 1200x^4 - 256x^2 - 2880$ | $x^{12} - 12x^{10} + 60x^8 - 168x^6 + 288x^4 - 288x^2 + 192$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 3 \end{array} \right]_1^6$ | I: 16,14 | $\frac{19}{8}$ |
| $x^{12} + 132x^{10} - 4468x^8 - 4640x^6 - 4752x^4 + 2112x^2 - 7872$ | $x^{12} + 26x^{10} + 208x^8 + 416x^6 - 1456x^4 - 4576x^2 + 832$ | $\left[\begin{array}{c} 2 \\ 2 \\ 3 \end{array} \right]_1^6$ | I: 8,5 | $\frac{9}{4}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-----------------|
| $x^{12} - 36x^{10} + 828x^8 - 416x^6 + 624x^4 + 192x^2 + 576$ | $x^{12} + 12x^{10} - 44x^8 - 48x^6 + 240x^4 - 224x^2 + 64$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 \\ & & & & 1 \end{bmatrix}^6$ | I: 32,51 | $\frac{39}{16}$ |
| $x^{12} - 4x^{10} - 260x^8 - 3296x^6 + 2544x^4 + 5056x^2 + 6208$ | $x^{12} - 6x^{10} + 48x^8 - 152x^6 + 240x^4 - 192x^2 + 64$ | $\begin{bmatrix} 2 & 2 & 3 \\ & & 1 \end{bmatrix}^6$ | I: 8,5 | $\frac{9}{4}$ |
| $x^{12} - 96x^{10} + 3780x^8 - 4032x^6 - 1744x^4 - 768x^2 + 3776$ | $x^{12} - 52x^8 + 624x^4 - 416x^2 - 832$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 3 \\ & & & & & 1 \end{bmatrix}^6$ | I: 64,267 | $\frac{79}{32}$ |
| $x^{12} + 44x^{10} + 1324x^8 - 6240x^6 - 5520x^4 - 6464x^2 - 7360$ | $x^{12} - 26x^{10} + 208x^8 - 416x^6 - 1456x^4 + 4576x^2 + 832$ | $\begin{bmatrix} 2 & 2 & 3 \\ & & 1 \end{bmatrix}^6$ | I: 8,5 | $\frac{9}{4}$ |
| $x^{12} - 36x^{10} + 540x^8 + 3872x^6 + 3056x^4 - 576x^2 + 3648$ | $x^{12} - 4x^{10} - 28x^8 + 48x^6 + 80x^4 - 160x^2 + 64$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 \\ & & & & 1 \end{bmatrix}^6$ | I: 32,51 | $\frac{39}{16}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-----------------|
| $x^{12} - 200x^{10} + 7956x^8 - 7360x^6 + 6192x^4 - 2176x^2 - 4672$ | $x^{12} - 2x^{10} - 72x^8 - 176x^6 + 96x^4 + 320x^2 - 64$ | $\begin{bmatrix} 2 & 3 \\ & 1 \end{bmatrix}^6$ | I: 4,2 | 2 |
| $x^{12} - 12x^{10} + 92x^8 + 288x^6 - 144x^4 + 3136x^2 + 3136$ | $x^{12} - 12x^{10} - 44x^8 + 48x^6 + 240x^4 + 224x^2 + 64$ | $\begin{bmatrix} 2 & 2 & 2 & 3 \\ & & & 1 \end{bmatrix}^6$ | I: 32,51 | $\frac{39}{16}$ |
| $x^{12} - 104x^{10} - 1564x^8 + 256x^6 + 560x^4 - 1408x^2 - 1856$ | $x^{12} - 2x^{11} - 35x^{10} + 18x^9 + 419x^8 + 358x^7 - 1340x^6 - 3248x^5 - 4320x^4 - 3372x^3 + 23x^2 + 370x + 53$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 \\ & & & & 1 \end{bmatrix}^6$ | I: 64,267 | $\frac{79}{32}$ |
| $x^{12} - 16x^{10} + 24x^6 + 64x^4 + 64$ | $x^{12} - 8x^6 + 64$ | $\begin{bmatrix} 3 \\ & 1 \end{bmatrix}^6$ | I: 2,1 | $\frac{3}{2}$ |
| $x^{12} - 1016x^{10} + 84x^8 - 128x^6 + 688x^4 + 384x^2 - 64$ | $x^{12} + 2x^{10} - 20x^8 - 32x^6 + 96x^4 + 96x^2 - 64$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 \\ & & & & 1 \end{bmatrix}^6$ | I: 64,267 | $\frac{79}{32}$ |
| $x^{12} - 32x^{10} + 1332x^8 - 2112x^6 + 2736x^4 + 768x^2 - 3648$ | $x^{12} - 6x^{10} - 24x^8 + 240x^6 - 544x^4 + 384x^2 - 64$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 \\ & & & & 1 \end{bmatrix}^6$ | I: 64,267 | $\frac{79}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-----------------|
| $x^{12} - 12x^{10} + 60x^8 - 160x^6 + 240x^4 - 1216x^2 - 1984$ | $x^{12} + 4x^{10} - 28x^8 - 48x^6 + 80x^4 + 160x^2 + 64$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 \\ & & & & 1 \end{bmatrix}^6$ | I: 32,51 | $\frac{39}{16}$ |
| $x^{12} + 344x^{10} - 1356x^8 + 1664x^6 + 944x^4 - 1920x^2 + 1472$ | $x^{12} - 2x^{10} - 20x^8 + 32x^6 + 96x^4 - 96x^2 - 64$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 3 \\ & & & & & 1 \end{bmatrix}^6$ | I: 64,267 | $\frac{79}{32}$ |
| $x^{12} - 12x^{10} + 108x^8 - 544x^6 - 1936x^4 - 1728x^2 + 1856$ | $x^{12} - 52x^8 - 104x^6 + 416x^4 + 1248x^2 + 832$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 \\ & & & & 1 \end{bmatrix}^6$ | I: 32,51 | $\frac{39}{16}$ |
| $x^{12} - 96x^{10} + 3796x^8 + 320x^6 + 432x^4 - 1792x^2 + 3008$ | $x^{12} + 6x^{10} - 24x^8 - 240x^6 - 544x^4 - 384x^2 - 64$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 3 \\ & & & & & 1 \end{bmatrix}^6$ | I: 64,267 | $\frac{79}{32}$ |
| $x^{12} - 152x^{10} - 1068x^8 + 960x^6 - 720x^4 - 1408x^2 - 576$ | $x^{12} - 8x^{10} - 8x^8 + 72x^6 + 32x^4 - 128x^2 - 64$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 \\ & & & & 1 \end{bmatrix}^6$ | I: 16,14 | $\frac{19}{8}$ |
| $x^{12} + 52x^{10} - 28x^8 + 8x^6 + 64x^4 - 32x^2 + 64$ | $x^{12} + 8x^6 + 64$ | $\begin{bmatrix} 3 \\ & & & & 1 \end{bmatrix}^6$ | I: 2,1 | $\frac{3}{2}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-----------------|
| $x^{12} - 12x^{10} - 52x^8 + 288x^6 - 784x^4 - 960x^2 - 192$ | $x^{12} - 104x^8 - 624x^6 - 1248x^4 - 416x^2 + 832$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 \\ & & & & 1 \end{bmatrix}^6$ | I: 32,51 | $\frac{39}{16}$ |
| $x^{12} - 864x^{10} - 9916x^8 + 11008x^6 + 14512x^4 + 2560x^2 + 14528$ | $x^{12} - 18x^{10} + 132x^8 - 432x^6 + 720x^4 - 576x^2 + 192$ | $\begin{bmatrix} 2 & 3 \\ & 1 \end{bmatrix}^6$ | I: 4,2 | 2 |
| $x^{12} - 12x^{10} - 2340x^8 + 1120x^6 + 1264x^4 - 192x^2 + 3648$ | $x^{12} + 12x^{10} + 60x^8 + 152x^6 + 192x^4 + 96x^2 + 64$ | $\begin{bmatrix} 2 & 2 & 3 \\ & & & 1 \end{bmatrix}^6$ | I: 8,5 | $\frac{9}{4}$ |
| $x^{12} - 156x^{10} + 9900x^8 - 61856x^6 + 33904x^4 + 27712x^2 + 47936$ | $x^{12} - 4x^{11} - 32x^{10} + 124x^9 + 339x^8 - 1252x^7 - 1458x^6 + 4864x^5 + 2480x^4 - 6484x^3 - 1580x^2 + 2052x - 239$ | $\begin{bmatrix} 3 \\ & 1 \end{bmatrix}^6$ | I: 2,1 | $\frac{3}{2}$ |
| $x^{12} - 52x^{10} + 1100x^8 - 12000x^6 - 61072x^4 + 62144x^2 - 62144$ | $x^{12} + 50x^{10} + 860x^8 + 6400x^6 + 20400x^4 + 24000x^2 + 8000$ | $\begin{bmatrix} 3 \\ & 1 \end{bmatrix}^6$ | I: 2,1 | $\frac{3}{2}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} - 18x^{10} + 171x^8 + 116x^6 - 313x^4 + 190x^2 + 877$ | $x^{12} - 2x^{11} - 13x^{10} + 6x^9 + 10x^8 + 56x^7 + 47x^6 - 26x^5 - 110x^4 - 124x^3 - 63x^2 - 14x - 1$ | $\left[\begin{array}{c} 4 \\ 4 \\ 3 \end{array} \right]_3^4$ | I: 12,3 | $\frac{7}{6}$ |
| $x^{12} - x^{10} + 2x^8 - x^6 - 2x^4 + 3x^2 + 1$ | $x^{12} - 4x^{11} + x^{10} + 14x^9 - 14x^8 - 10x^7 + 25x^6 - 10x^5 - 14x^4 + 14x^3 + x^2 - 4x + 1$ | $\left[\begin{array}{c} 4 \\ 4 \\ 3 \end{array} \right]_3^2$ | I: 12,3 | $\frac{7}{6}$ |
| $x^{12} + 6x^{10} + 51x^8 - 252x^6 - 393x^4 - 234x^2 - 203$ | $x^{12} - 27x^{10} - 86x^9 + 54x^8 + 1044x^7 + 3423x^6 + 6318x^5 + 7200x^4 + 4966x^3 + 2079x^2 + 648x + 151$ | $\left[\begin{array}{c} 4 \\ 4 \\ 3 \end{array} \right]_3^{12}$ | I: 48,50 | $\frac{31}{24}$ |
| $x^{12} - 6x^{10} + 15x^8 - 52x^6 + 111x^4 - 102x^2 - 991$ | $x^{12} + 2x^{11} - x^8 - 2x^7 - 4x^6 - 2x^5 - x^4 + 2x + 1$ | $\left[\begin{array}{c} 4 \\ 4 \\ 3 \end{array} \right]_3^6$ | I: 48,50 | $\frac{31}{24}$ |
| $x^{12} + 48x^{10} + 17x^8 - 128x^6 + 171x^4 - 176x^2 + 3$ | $x^{12} - 12x^{10} - 44x^9 + 24x^8 + 276x^7 + 558x^6 + 192x^5 - 1860x^4 - 3356x^3 - 1776x^2 - 168x - 4$ | $\left[\begin{array}{c} 4 \\ 4 \\ 3 \end{array} \right]_3^6 \left[\begin{array}{c} 4 \\ 4 \\ 3 \end{array} \right]_3^2$ | I: 192,1540 | $\frac{175}{96}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-------------|------------------|
| $x^{12} - 108x^{10} - 171x^8 + 344x^6 - 61x^4 + 468x^2 + 359$ | $x^{12} - 4x^{11} - x^{10} + 20x^9 - 18x^8 - 6x^7 - 25x^6 + 78x^5 - 48x^4 - 10x^3 + 21x^2 - 8x + 1$ | $\begin{bmatrix} 2 & 2 \\ & 3 \end{bmatrix}^2$ | I: 12,5 | $\frac{5}{3}$ |
| $x^{12} - 30x^{10} - 5x^8 + 19x^4 + 30x^2 + 1$ | $x^{12} - 2x^9 + 2x^6 - 4x^3 + 4$ | $\begin{bmatrix} 2 \\ & 3 \end{bmatrix}^6$ | I: 6,2 | $\frac{4}{3}$ |
| $x^{12} - 12x^{10} + 69x^8 + 248x^6 + 3x^4 - 44x^2 + 55$ | $x^{12} - 21x^{10} - 16x^9 + 180x^8 + 312x^7 - 451x^6 - 1890x^5 - 2472x^4 - 1682x^3 - 567x^2 - 54x + 1$ | $\begin{bmatrix} 4 & 4 & 4 \\ 3 & 3 & 3 \end{bmatrix} \begin{bmatrix} 2 & 2 \\ & 3 \end{bmatrix}^6$ | I: 192,1540 | $\frac{175}{96}$ |
| $x^{12} - 12x^{10} + 69x^8 - 104x^6 + 35x^4 + 52x^2 + 23$ | $x^{12} - x^{10} - 12x^8 - 5x^6 + 24x^4 + 19x^2 - 1$ | $\begin{bmatrix} 4 & 4 & 2 \\ 3 & 3 & 3 \end{bmatrix}^2$ | I: 48,49 | $\frac{43}{24}$ |
| $x^{12} - 3x^{10} + 4x^8 - 3x^6 + 4x^4 + x^2 + 3$ | $x^{12} - 10x^9 + 30x^6 - 16x^3 + 4$ | $\begin{bmatrix} 2 & 2 \\ & 3 \end{bmatrix}^6$ | I: 12,5 | $\frac{5}{3}$ |
| $x^{12} + 5x^{10} + 4x^8 + x^6 + 4x^4 + x^2 + 3$ | $x^{12} - 8x^9 + 30x^6 - 20x^3 + 4$ | $\begin{bmatrix} 2 & 2 \\ & 3 \end{bmatrix}^6$ | I: 12,5 | $\frac{5}{3}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-----------------|
| $x^{12} - 12x^{10} + x^8 + 12x^6 + 15x^4 + 16x^2 + 15$ | $x^{12} - x^{10} + 4x^8 - 17x^6 + 28x^4 - 21x^2 + 7$ | $\begin{bmatrix} 2 & 2 \\ 3 & 3 \end{bmatrix}^6$ | I: 12,5 | $\frac{5}{3}$ |
| $x^{12} + 7x^{10} + 4x^8 + 3x^6 - 4x^4 - x^2 - 5$ | $x^{12} - 3x^{10} + 9x^6 + 12x^4 + 9x^2 + 3$ | $\begin{bmatrix} 2 & 2 \\ 3 & 3 \end{bmatrix}^2$ | I: 12,5 | $\frac{5}{3}$ |
| $x^{12} + 54x^{10} - 257x^8 - 492x^6 - 945x^4 + 342x^2 + 81$ | $x^{12} + 9x^{10} - 6x^8 - 43x^6 + 54x^4 - 15x^2 + 1$ | $\begin{bmatrix} 4 & 4 & 4 \\ 3 & 3 & 3 \end{bmatrix} \begin{bmatrix} 2 \\ 2 \end{bmatrix}^6$ | I: 96,229 | $\frac{79}{48}$ |
| $x^{12} + 20x^{10} - 44x^8 - 4x^6 - 16x^4 - 48$ | $x^{12} - 39x^{10} + 12x^9 + 486x^8 - 156x^7 - 2175x^6 - 204x^5 + 3738x^4 + 1616x^3 - 2031x^2 - 1488x - 199$ | $\begin{bmatrix} 2 \\ 3 \end{bmatrix}^6$ | I: 6,2 | $\frac{4}{3}$ |
| $x^{12} + 18x^{10} + 171x^8 - 404x^6 - 281x^4 - 286x^2 + 461$ | $x^{12} - 33x^{10} - 62x^9 + 324x^8 + 882x^7 - 583x^6 - 3744x^5 - 2940x^4 + 2318x^3 + 4401x^2 + 1986x + 211$ | $\begin{bmatrix} 4 & 4 & 4 \\ 3 & 3 & 3 \end{bmatrix} \begin{bmatrix} 2 \\ 2 \end{bmatrix}^6$ | I: 96,229 | $\frac{79}{48}$ |
| $x^{12} + 12x^{10} + 12x^8 + 8x^6 + 32x^4 - 16x^2 + 16$ | $x^{12} - 3x^{10} + 2x^8 + x^6 + 2x^4 - 3x^2 + 1$ | $\begin{bmatrix} 2 \\ 3 \end{bmatrix}^2$ | I: 6,2 | $\frac{4}{3}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-------------|------------------|
| $x^{12} + 36x^{10} + 37x^8 + 88x^6 - 61x^4 + 68x^2 - 105$ | $x^{12} - 9x^{10} - 22x^9 + 18x^8 + 162x^7 + 129x^6 - 360x^5 - 396x^4 + 110x^3 + 423x^2 + 54x - 11$ | $\left[\begin{array}{ccc} 4 & 4 & 4 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | I: 192,1540 | $\frac{175}{96}$ |
| $x^{12} - 71x^8 + 123x^4 - 245$ | $x^{12} - 4x^{11} + 13x^{10} - 28x^9 + 50x^8 - 70x^7 + 71x^6 - 42x^5 + 6x^4 + 10x^3 - 7x^2 + 1$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | I: 48,49 | $\frac{43}{24}$ |
| $x^{12} - 54x^{10} - 509x^8 - 964x^6 - 777x^4 - 934x^2 + 357$ | $x^{12} - 4x^{11} + 9x^{10} + 2x^9 - 42x^8 + 112x^7 - 99x^6 - 84x^5 + 366x^4 - 314x^3 + 137x^2 - 16x - 1$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | I: 24,13 | $\frac{19}{12}$ |
| $x^{12} + 9x^8 - 224x^6 + 187x^4 - 32x^2 - 133$ | $x^{12} + 261x^8 + 1620x^6 + 2727x^4 - 180x^2 + 3$ | $\left[\begin{array}{ccc} 4 & 4 & 4 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | I: 192,1540 | $\frac{175}{96}$ |
| $x^{12} + x^{10} + 6x^8 - 3x^6 + 6x^4 + x^2 - 3$ | $x^{12} - 6x^{11} - 39x^{10} + 126x^9 + 702x^8 - 354x^7 - 4589x^6 - 3012x^5 + 9954x^4 + 12828x^3 - 4167x^2 - 12600x - 4819$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \right]_3^2$ | I: 6,2 | $\frac{4}{3}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-----------------|
| $x^{12} + x^{10} - 2x^8 - 3x^6 + 2x^4 - 3x^2 + 1$ | $x^{12} - 4x^{11} + 13x^{10} - 22x^9 + 22x^8 - 4x^7 - 25x^6 + 4x^5 + 22x^4 + 22x^3 + 13x^2 + 4x + 1$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \end{array} \right]_3^2$ | I: 24,13 | $\frac{19}{12}$ |
| $x^{12} + 4x^{10} + x^8 + 4x^6 - x^4 + 8x^2 - 1$ | $x^{12} - 4x^{11} + 8x^{10} - 16x^9 + 33x^8 - 56x^7 + 78x^6 - 84x^5 + 73x^4 - 48x^3 + 26x^2 - 8x + 1$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 2 \\ 2 \end{array} \right]_3^6$ | I: 12,5 | $\frac{5}{3}$ |
| $x^{12} + 4x^{10} + x^8 - 2x^6 + 5x^4 + 6x^2 - 3$ | $x^{12} - 15x^{10} - 90x^8 + 825x^6 + 3150x^4 + 3375x^2 + 1125$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 8 \\ 8 \\ 8 \end{array} \begin{array}{c} 8 \\ 8 \\ 8 \end{array} \right]_3^6$ | I: 96,229 | $\frac{31}{12}$ |
| $x^{12} + 14x^{10} - 5x^8 - 12x^6 - 5x^4 + 14x^2 - 11$ | $x^{12} - 3x^{10} - 54x^8 + 275x^6 - 270x^4 - 75x^2 + 125$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \right]_3^4$ | I: 12,3 | $\frac{13}{6}$ |
| $x^{12} - 12x^{10} + 5x^8 - 9x^4 - 4x^2 + 15$ | $x^{12} - 11x^{10} + 56x^8 - 99x^6 - 30x^4 + 275x^2 + 1375$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 8 \\ 8 \\ 8 \end{array} \begin{array}{c} 8 \\ 8 \\ 8 \end{array} \right]_3^2$ | I: 48,49 | $\frac{29}{12}$ |
| $x^{12} - 3x^8 + 2x^6 + 5x^4 + 6x^2 + 1$ | $x^{12} - 51x^8 + 178x^6 - 171x^4 + 6x^2 + 1$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 8 \\ 8 \end{array} \begin{array}{c} 8 \\ 8 \\ 8 \end{array} \right]_3^6$ | I: 48,50 | $\frac{61}{24}$ |
| $x^{12} - 6x^{10} + x^8 + 2x^6 - 3x^4 + 4x^2 + 5$ | $x^{12} + 15x^{10} - 60x^8 - 1075x^6 - 1650x^4 + 1875x^2 + 125$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 8 \\ 8 \end{array} \begin{array}{c} 8 \\ 8 \\ 8 \end{array} \right]_3^{12}$ | I: 48,50 | $\frac{61}{24}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-------------|------------------|
| $x^{12} + 4x^{10} + 5x^8 + 2x^6 + 5x^4 - 6x^2 + 1$ | $x^{12} - 15x^{10} + 96x^8 - 341x^6 + 708x^4 - 789x^2 + 361$ | $\left[\begin{array}{c} \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \end{array} \right]_3^6$ | I: 48,50 | $\frac{61}{24}$ |
| $x^{12} - 3x^8 - x^4 + 8x^2 + 7$ | $x^{12} - 16x^{10} + 121x^8 - 544x^6 + 1475x^4 - 2200x^2 + 1375$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ \frac{2}{3} \\ \frac{2}{3} \\ \frac{8}{3} \\ \frac{8}{3} \end{array} \right]_3^2$ | I: 192,1540 | $\frac{235}{96}$ |
| $x^{12} + x^8 - 2x^6 - 3x^4 + 2x^2 - 3$ | $x^{12} + 15x^{10} + 30x^8 - 275x^6 - 750x^4 - 375x^2 + 125$ | $\left[\begin{array}{c} 2 \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \end{array} \right]_3^6$ | I: 96,229 | $\frac{31}{12}$ |
| $x^{12} + 4x^{10} - x^8 + 6x^6 - 7x^4 - 2x^2 + 3$ | $x^{12} - 15x^{10} - 540x^8 - 4425x^6 - 15600x^4 - 25125x^2 - 15125$ | $\left[\begin{array}{c} 2 \\ 2 \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \end{array} \right]_3^6$ | I: 192,1540 | $\frac{125}{48}$ |
| $x^{12} + 2x^{10} - x^8 - 6x^6 - 3x^4 + 4x^2 + 7$ | $x^{12} - 9x^{10} + 34x^8 - 67x^6 + 70x^4 - 35x^2 + 7$ | $\left[\begin{array}{c} 2 \\ 2 \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \end{array} \right]_3^6$ | I: 192,1540 | $\frac{125}{48}$ |
| $x^{12} + 2x^{10} - 5x^8 - 2x^6 + 5x^4 + 8x^2 - 5$ | $x^{12} + 27x^8 + 54x^6 + 9x^4 - 18x^2 + 3$ | $\left[\begin{array}{c} 2 \\ 2 \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \end{array} \right]_3^6$ | I: 192,1540 | $\frac{125}{48}$ |
| $x^{12} + x^8 + 2x^6 + x^4 - 2x^2 + 1$ | $x^{12} + 3x^{10} - 25x^6 + 30x^4 - 9x^2 + 1$ | $\left[\begin{array}{c} 2 \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \end{array} \right]_3^6$ | I: 96,229 | $\frac{31}{12}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-------------|------------------|
| $x^{12} + 4x^{10} - 3x^8 - 2x^6 + x^4 - 2x^2 - 3$ | $x^{12} + 15x^{10} - 825x^6 - 3600x^4 - 3375x^2 + 1125$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3^{12}$ | I: 48,50 | $\frac{61}{24}$ |
| $x^{12} + 2x^{10} - 3x^8 - 2x^6 - 3x^4 + 1$ | $x^{12} - 9x^{10} + 18x^8 + 21x^6 - 54x^4 - 27x^2 + 9$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3^6$ | I: 96,229 | $\frac{31}{12}$ |
| $x^{12} + 10x^{10} + 3x^8 - 4x^6 - 5x^4 - 14x^2 - 11$ | $x^{12} - 6x^{10} + 3x^8 + 28x^6 - 21x^4 - 30x^2 + 5$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3^4$ | I: 48,50 | $\frac{55}{24}$ |
| $x^{12} + x^{10} + x^6 + x^2 + 1$ | $x^{12} - 3x^{10} + 5x^6 - 3x^2 + 1$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3^2$ | I: 24,13 | $\frac{7}{3}$ |
| $x^{12} + 2x^{10} - x^8 + 2x^6 - 3x^4 + 4x^2 - 1$ | $x^{12} + 6x^{10} - 36x^8 - 12x^6 + 144x^4 - 144$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 2 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3^6$ | I: 192,1540 | $\frac{125}{48}$ |
| $x^{12} + 3x^8 + 2x^6 + x^4 + 6x^2 + 7$ | $x^{12} - 3x^{10} - 18x^8 + 93x^6 - 144x^4 + 81x^2 - 9$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 2 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3^6$ | I: 192,1540 | $\frac{125}{48}$ |
| $x^{12} + 2x^{10} - x^8 - 2x^6 + x^4 + 3$ | $x^{12} + 27x^8 - 54x^6 + 9x^4 + 18x^2 + 3$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 2 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3^6$ | I: 192,1540 | $\frac{125}{48}$ |
| $x^{12} - 14x^{10} + 19x^8 + 24x^6 + 3x^4 - 26x^2 + 13$ | $x^{12} + 15x^{10} + 72x^8 + 145x^6 + 126x^4 + 45x^2 + 5$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3^4$ | I: 12,3 | $\frac{13}{6}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-------------|------------------|
| $x^{12} - 4x^{10} + x^8 + 7x^4 - 4x^2 - 5$ | $x^{12} - 7x^{10} + 22x^8 - 41x^6 + 48x^4 - 33x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | I: 192,1540 | $\frac{235}{96}$ |
| $x^{12} + 2x^{10} - x^8 + 2x^6 + x^4 - 1$ | $x^{12} - 9x^{10} + 12x^8 + 95x^6 - 336x^4 + 369x^2 - 121$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 2 & 3 & 3 \end{array} \right]_3^6$ | I: 192,1540 | $\frac{125}{48}$ |
| $x^{12} + 4x^{10} + x^8 - 2x^6 - 3x^4 - 2x^2 - 3$ | $x^{12} - 39x^{10} - 48x^9 + 336x^8 - 156x^7 - 2745x^6 + 9756x^5 + 49488x^4 + 30536x^3 - 113541x^2 - 195168x - 90409$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | I: 96,229 | $\frac{31}{12}$ |
| $x^{12} + 6x^{10} - x^8 + 6x^6 - 7x^4 - 4x^2 + 3$ | $x^{12} - 240x^8 + 1900x^6 - 5400x^4 + 6000x^2 - 2000$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 2 & 3 & 3 \end{array} \right]_3^6$ | I: 192,1540 | $\frac{125}{48}$ |
| $x^{12} + 5x^8 + 16x^6 - x^4 + 8x^2 - 1$ | $x^{12} - 9x^{10} + 74x^8 - 389x^6 + 1170x^4 - 1925x^2 + 1375$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | I: 192,1540 | $\frac{235}{96}$ |
| $x^{12} - 7x^8 - 2x^6 - 3x^4 - 6x^2 - 3$ | $x^{12} - 15x^{10} + 825x^6 - 3600x^4 + 3375x^2 + 1125$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | I: 96,229 | $\frac{31}{12}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-------------|------------------|
| $x^{12} - 7x^8 - x^4 + 3$ | $x^{12} - 11x^{10} + 44x^8 - 121x^6 + 484x^4 - 1331x^2 + 1331$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ & 3 & 3 \end{array} \right]_3^2$ | I: 48,49 | $\frac{29}{12}$ |
| $x^{12} - 4x^{10} + x^8 + 2x^6 - 7x^4 + 2x^2 + 1$ | $x^{12} - 27x^8 - 6x^6 + 81x^4 - 54x^2 + 9$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ & 3 & 3 \end{array} \right]_3^6$ | I: 96,229 | $\frac{31}{12}$ |
| $x^{12} - 7x^8 + 15x^4 + 3$ | $x^{12} - 9x^{10} + 30x^8 - 45x^6 + 30x^4 - 9x^2 + 3$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ & 3 & 3 \end{array} \right]_3^2$ | I: 48,49 | $\frac{29}{12}$ |
| $x^{12} - 7x^8 + 2x^6 - 7x^4 + 6x^2 + 1$ | $x^{12} + 15x^{10} + 96x^8 + 341x^6 + 708x^4 + 789x^2 + 361$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ & 3 & 3 \end{array} \right]_3^6$ | I: 96,229 | $\frac{31}{12}$ |
| $x^{12} + 4x^{10} + x^8 - x^4 + 4x^2 + 3$ | $x^{12} + 7x^{10} + 22x^8 + 41x^6 + 48x^4 + 33x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | I: 192,1540 | $\frac{235}{96}$ |
| $x^{12} - 2x^{10} + 3x^8 - 2x^6 - 3x^4 + 4x^2 + 3$ | $x^{12} - 240x^8 - 1900x^6 - 5400x^4 - 6000x^2 - 2000$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ & 3 & 3 \end{array} \right]_3^6$ | I: 192,1540 | $\frac{125}{48}$ |
| $x^{12} + 14x^{10} - x^8 - 8x^6 - 5x^4 + 2x^2 + 1$ | $x^{12} + 7x^{10} + 26x^8 + 55x^6 + 88x^4 + 121x^2 + 121$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | I: 96,229 | $\frac{115}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-------------|------------------|
| $x^{12} + 14x^{10} + 16x^8 - 8x^6 - 8x^4 + 16x^2 + 16$ | $x^{12} + x^{10} + 2x^8 + 3x^6 + 2x^4 + x^2 + 1$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3^2$ | I: 12,3 | $\frac{13}{6}$ |
| $x^{12} - 18x^{10} - 21x^8 - 8x^6 + 19x^4 - 6x^2 + 21$ | $x^{12} + 3x^{10} - 54x^8 - 275x^6 - 270x^4 + 75x^2 + 125$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \right]_3^2 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3$ | I: 24,13 | $\frac{7}{3}$ |
| $x^{12} + 2x^{10} + 3x^8 + 2x^6 + x^4 + 4x^2 - 1$ | $x^{12} - 5x^{10} + 8x^8 - 3x^6 - 7x^2 + 7$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \right]_3^2 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3^6$ | I: 192,1540 | $\frac{125}{48}$ |
| $x^{12} - 6x^{10} - x^8 + 4x^6 + 3x^4 + 2x^2 - 7$ | $x^{12} + 3x^{10} - 5x^6 + 3x^2 + 1$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3^2$ | I: 12,3 | $\frac{13}{6}$ |
| $x^{12} + 2x^{10} - 5x^8 + 8x^6 + 3x^4 - 2x^2 - 3$ | $x^{12} - 57x^8 + 260x^6 - 429x^4 + 240x^2 + 5$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3^2 \left[\begin{array}{c} 4 \\ 4 \\ 2 \\ 3 \end{array} \right]_3^2 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3$ | I: 96,229 | $\frac{115}{48}$ |
| $x^{12} + 6x^{10} + 7x^8 - 4x^6 + 3x^4 + 6x^2 - 7$ | $x^{12} - 7x^{10} + 26x^8 - 55x^6 + 88x^4 - 121x^2 + 121$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3^2 \left[\begin{array}{c} 4 \\ 4 \\ 3 \\ 3 \end{array} \right]_3^2 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3$ | I: 48,50 | $\frac{55}{24}$ |
| $x^{12} - 26x^{10} - 5x^8 + 8x^6 + 19x^4 + 2x^2 + 21$ | $x^{12} - 20x^{10} + 131x^8 - 384x^6 + 527x^4 - 296x^2 + 37$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \right]_3^2 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3$ | I: 24,13 | $\frac{7}{3}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|--------------|------------------|
| $x^{12} + 4x^{10} + 5x^8 + 7x^4 - 4x^2 - 1$ | $x^{12} - 13x^{10} + 96x^8 - 431x^6 + 1440x^4 - 2925x^2 + 3375$ | $\begin{bmatrix} 2 & 2 & 8 & 8 \\ & 3 & 3 & 3 \end{bmatrix}_3^2$ | I: 48, 49 | $\frac{29}{12}$ |
| $x^{12} - 2x^{10} - x^8 + 2x^6 - 3x^4 - 1$ | $x^{12} + 9x^{10} + 12x^8 - 95x^6 - 336x^4 - 369x^2 - 121$ | $\begin{bmatrix} 2 & 2 & 8 & 8 \\ & 3 & 3 & 3 \end{bmatrix}_3^6$ | I: 192, 1540 | $\frac{125}{48}$ |
| $x^{12} + 4x^{10} + 3x^8 + 2x^6 + x^4 + 2x^2 - 1$ | $x^{12} - 6x^{10} - 36x^8 + 12x^6 + 144x^4 - 144$ | $\begin{bmatrix} 2 & 2 & 8 & 8 \\ & 3 & 3 & 3 \end{bmatrix}_3^6$ | I: 192, 1540 | $\frac{125}{48}$ |
| $x^{12} - 2x^{10} + x^8 + 2x^6 - 3x^4 - 3$ | $x^{12} - 15x^{10} + 30x^8 + 275x^6 - 750x^4 + 375x^2 + 125$ | $\begin{bmatrix} 8 & 8 & 8 & 8 \\ & 3 & 3 & 3 \end{bmatrix}_3^{12}$ | I: 48, 50 | $\frac{61}{24}$ |
| $x^{12} - 3x^8 - 2x^6 + x^4 + 2x^2 - 3$ | $x^{12} + 15x^{10} - 90x^8 - 825x^6 + 3150x^4 - 3375x^2 + 1125$ | $\begin{bmatrix} 8 & 8 & 8 & 8 \\ & 3 & 3 & 3 \end{bmatrix}_3^{12}$ | I: 48, 50 | $\frac{61}{24}$ |
| $x^{12} - 2x^{10} - 5x^8 + 6x^6 + 5x^4 + 4x^2 - 5$ | $x^{12} + 15x^{10} - 540x^8 + 4425x^6 - 15600x^4 + 25125x^2 - 15125$ | $\begin{bmatrix} 2 & 2 & 8 & 8 \\ & 3 & 3 & 3 \end{bmatrix}_3^6$ | I: 192, 1540 | $\frac{125}{48}$ |
| $x^{12} - 2x^{10} - x^8 + 2x^6 + 5x^4 + 8x^2 + 7$ | $x^{12} + 3x^{10} - 18x^8 - 93x^6 - 144x^4 - 81x^2 - 9$ | $\begin{bmatrix} 2 & 2 & 8 & 8 \\ & 3 & 3 & 3 \end{bmatrix}_3^6$ | I: 192, 1540 | $\frac{125}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} + 4x^{10} - 3x^8 + 2x^6 - 3x^4 + 2x^2 + 1$ | $x^{12} - 3x^{10} + 25x^6 + 30x^4 + 9x^2 + 1$ | $\left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | I: 48,50 | $\frac{61}{24}$ |
| $x^{12} - 6x^{10} - x^8 - 2x^6 - 7x^4 + 3$ | $x^{12} - 6x^{10} + 15x^8 - 18x^6 + 9x^4 + 3$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ 2 & 2 & 2 \\ 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | I: 192,1540 | $\frac{125}{48}$ |
| $x^{12} - 3x^8 + 2x^6 - 3x^4 - 2x^2 + 1$ | $x^{12} - 6x^{10} - 24x^8 + 132x^6 - 168x^4 + 48x^2 + 16$ | $\left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | I: 48,50 | $\frac{61}{24}$ |
| $x^{12} + 2x^{10} + 3x^8 - 2x^6 - 3x^4 + 3$ | $x^{12} + 6x^{10} + 15x^8 + 18x^6 + 9x^4 + 3$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ 2 & 2 & 2 \\ 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | I: 192,1540 | $\frac{125}{48}$ |
| $x^{12} - 5x^8 + 4x^6 + 3x^4 + 8x^2 - 7$ | $x^{12} - x^{10} + 2x^8 - 3x^6 + 2x^4 - x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | I: 24,13 | $\frac{7}{3}$ |
| $x^{12} - 6x^8 + 4x^4 - 4x^2 - 4$ | $x^{12} - 14x^{10} + 66x^8 - 152x^6 + 680x^4 - 3300x^2 + 5500$ | $\left[\begin{array}{ccc} 4 & 4 & 4 \\ 3 & 3 & 3 \\ 2 & 2 & 2 \\ 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | I: 192,1540 | $\frac{259}{96}$ |
| $x^{12} + 4x^{10} + 10x^8 - 10x^6 + 12x^4 + 16x^2 + 12$ | $x^{12} - 630x^8 - 5250x^6 - 13500x^4 - 13500x^2 - 4500$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | I: 192,1540 | $\frac{67}{24}$ |
| $x^{12} + 10x^8 - 8x^6 + 4x^4 - 4x^2 + 12$ | $x^{12} + 10x^{10} + 46x^8 + 116x^6 + 168x^4 + 132x^2 + 44$ | $\left[\begin{array}{ccc} 4 & 4 & 4 \\ 3 & 3 & 3 \\ 2 & 2 & 2 \\ 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | I: 192,1540 | $\frac{259}{96}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-------------|------------------|
| $x^{12} + 2x^8 - 2x^6 + 4x^4 + 4$ | $x^{12} + 12x^{10} + 48x^8 + 70x^6 + 24x^4 - 12x^2 + 4$ | $\left[\begin{array}{c} \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \end{array} \right]_3 \left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ \frac{4}{3} \end{array} \right]_3 \left[\begin{array}{c} \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \end{array} \right]_3 \left[\begin{array}{c} 6 \\ 3 \\ 3 \end{array} \right]_3$ | I: 96,229 | $\frac{133}{48}$ |
| $x^{12} + 4x^{10} + 14x^6 + 8x^4 + 12$ | $x^{12} + 30x^{10} - 180x^8 - 450x^6 + 2700x^4 - 4500$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ \frac{4}{3} \end{array} \right]_3 \left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ \frac{4}{3} \end{array} \right]_3 \left[\begin{array}{c} 2 \\ 2 \\ 2 \end{array} \right]_3 \left[\begin{array}{c} 6 \\ 3 \\ 3 \end{array} \right]_3$ | I: 192,1540 | $\frac{223}{96}$ |
| $x^{12} + 16x^8 + 16x^4 + 12$ | $x^{12} - 6x^{10} + 24x^8 - 56x^6 + 92x^4 - 88x^2 + 44$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ \frac{4}{3} \end{array} \right]_3 \left[\begin{array}{c} 2 \\ 2 \\ 2 \end{array} \right]_3 \left[\begin{array}{c} 2 \\ 2 \\ 2 \end{array} \right]_3$ | I: 48,49 | $\frac{55}{24}$ |
| $x^{12} + 4x^{10} + 2x^8 - 2x^6 + 4x^4 + 4$ | $x^{12} - 6x^{10} - 18x^8 + 50x^6 + 84x^4 + 36x^2 + 4$ | $\left[\begin{array}{c} \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \end{array} \right]_3 \left[\begin{array}{c} \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \end{array} \right]_3 \left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ \frac{4}{3} \end{array} \right]_3 \left[\begin{array}{c} 6 \\ 3 \\ 3 \end{array} \right]_3$ | I: 96,229 | $\frac{133}{48}$ |
| $x^{12} + 4x^{10} + 2x^6 + 4$ | $x^{12} - 24x^8 - 14x^6 + 144x^4 + 168x^2 + 4$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ \frac{4}{3} \end{array} \right]_3 \left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ \frac{4}{3} \end{array} \right]_3 \left[\begin{array}{c} 6 \\ 3 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 6 \\ 3 \\ 3 \end{array} \right]_3$ | I: 96,229 | $\frac{103}{48}$ |
| $x^{12} - 6x^8 - 14x^6 + 12x^4 - 8x^2 - 12$ | $x^{12} - 90x^8 + 250x^6 + 900x^4 - 3000x^2 + 500$ | $\left[\begin{array}{c} \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \end{array} \right]_3 \left[\begin{array}{c} \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \end{array} \right]_3 \left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ \frac{4}{3} \end{array} \right]_3 \left[\begin{array}{c} 6 \\ 3 \\ 3 \end{array} \right]_3$ | I: 96,229 | $\frac{133}{48}$ |
| $x^{12} + 12x^{10} - 14x^8 - 2x^6 + 4x^4 + 16x^2 + 12$ | $x^{12} - 810x^8 + 5550x^6 - 13500x^4 + 13500x^2 - 4500$ | $\left[\begin{array}{c} 2 \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \end{array} \right]_3 \left[\begin{array}{c} \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \end{array} \right]_3 \left[\begin{array}{c} \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \end{array} \right]_3 \left[\begin{array}{c} 6 \\ 3 \\ 3 \end{array} \right]_3$ | I: 192,1540 | $\frac{67}{24}$ |
| $x^{12} + 10x^6 + 12$ | $x^{12} + 18x^6 + 108$ | $\left[\begin{array}{c} 2 \\ 2 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 6 \\ 3 \\ 3 \end{array} \right]_3$ | I: 12,5 | $\frac{13}{6}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-------------|------------------|
| $x^{12} + 8x^{10} + 2x^8 - 4x^6 + 4x^4 + 4x^2 + 4$ | $x^{12} - 18x^{10} + 136x^8 - 528x^6 + 1056x^4 - 968x^2 + 484$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | I: 96,229 | $\frac{127}{48}$ |
| $x^{12} + 12x^{10} + 14x^8 + 10x^6 - 4x^4 + 12x^2 + 12$ | $x^{12} - 18x^{10} + 144x^8 - 306x^6 + 108x^4 + 324x^2 + 108$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | I: 192,1540 | $\frac{67}{24}$ |
| $x^{12} + 2x^{10} - 6x^6 + 8x^4 + 4x^2 - 4$ | $x^{12} + 12x^{10} - 126x^8 - 426x^6 - 468x^4 - 216x^2 - 36$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | I: 192,1540 | $\frac{67}{24}$ |
| $x^{12} - 4x^{10} - 6x^8 - 6x^6 - 4x^4 - 4$ | $x^{12} + 12x^{10} - 72x^8 - 582x^6 - 828x^4 - 324x^2 - 36$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | I: 192,1540 | $\frac{67}{24}$ |
| $x^{12} + 14x^8 + 6x^6 + 4x^4 - 4x^2 - 12$ | $x^{12} - 90x^8 - 250x^6 + 900x^4 + 3000x^2 + 500$ | $\left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | I: 96,229 | $\frac{133}{48}$ |
| $x^{12} - 4x^{10} + 14x^6 - 8x^4 - 12$ | $x^{12} - 240x^8 - 1850x^6 - 3900x^4 + 500$ | $\left[\begin{array}{ccc} 4 & 4 & 4 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | I: 96,229 | $\frac{103}{48}$ |
| $x^{12} - 2x^{10} + 4x^8 + 4x^6 + 4x^4 + 4$ | $x^{12} - 6x^{10} + 20x^8 - 44x^6 + 44x^4 + 484$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | I: 24,13 | $\frac{25}{12}$ |
| $x^{12} - 6x^8 + 2x^6 + 4x^4 - 4$ | $x^{12} - 36x^8 + 18x^6 + 324x^4 - 324x^2 - 324$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | I: 192,1540 | $\frac{67}{24}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-------------|------------------|
| $x^{12} - 4x^{10} - 6x^6 + 8x^4 - 4$ | $x^{12} + 6x^{10} - 36x^8 - 6x^6 + 72x^4 - 36$ | $\left[\begin{array}{ccc} 4 & 4 & 4 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | I: 192,1540 | $\frac{223}{96}$ |
| $x^{12} - 12x^{10} + 10x^8 - 6x^6 + 4x^4 + 8x^2 - 12$ | $x^{12} - 150x^8 - 850x^6 - 1200x^4 + 500$ | $\left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | I: 96,229 | $\frac{133}{48}$ |
| $x^{12} - 8x^{10} + 6x^8 + 2x^6 + 12x^4 + 12x^2 + 12$ | $x^{12} - 630x^8 + 5250x^6 - 13500x^4 + 13500x^2 - 4500$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | I: 192,1540 | $\frac{67}{24}$ |
| $x^{12} + 8x^{10} + 2x^8 - 6x^6 - 4x^4 - 4$ | $x^{12} - 8x^{10} + 34x^8 - 82x^6 + 112x^4 - 84x^2 + 28$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | I: 192,1540 | $\frac{67}{24}$ |
| $x^{12} - 8x^{10} - 14x^8 + 4x^6 + 4x^4 + 4x^2 - 12$ | $x^{12} + 36x^{10} + 378x^8 + 952x^6 + 324x^4 - 660x^2 + 20$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | I: 96,229 | $\frac{127}{48}$ |
| $x^{12} + 2x^{10} - 2x^8 + 8x^6 + 8x^4 - 4x^2 + 4$ | $x^{12} + 18x^{10} + 136x^8 + 528x^6 + 1056x^4 + 968x^2 + 484$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | I: 96,229 | $\frac{127}{48}$ |
| $x^{12} - 28x^{10} + 64x^8 - 20x^6 - 36x^4 + 24x^2 + 36$ | $x^{12} - 2x^{10} + 6x^8 - 12x^6 + 16x^4 - 12x^2 + 4$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | I: 24,13 | $\frac{31}{12}$ |
| $x^{12} + 2x^6 + 4$ | $x^{12} + 2x^6 + 4$ | $\left[\begin{array}{c} 3 \\ 3 \end{array} \right]_3^6$ | I: 6,2 | $\frac{11}{6}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-------------|------------------|
| $x^{12} + 6x^8 + 6x^6 + 4x^4 + 4x^2 - 4$ | $x^{12} + 8x^{10} + 34x^8 + 82x^6 + 112x^4 + 84x^2 + 28$ | $\left[\begin{array}{c} 2 \\ 8 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 8 \\ 8 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 8 \\ 8 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 6 \\ 3 \end{array} \right]_3$ | I: 192,1540 | $\frac{67}{24}$ |
| $x^{12} - 2x^6 + 4$ | $x^{12} - 2x^6 + 4$ | $\left[\begin{array}{c} 3 \\ 3 \end{array} \right]_3^6$ | I: 6,2 | $\frac{11}{6}$ |
| $x^{12} + 4x^{10} + 6x^8 + 2x^6 - 4x^4 + 4x^2 + 4$ | $x^{12} + 6x^{10} + 42x^8 + 74x^6 + 24x^4 - 12x^2 + 4$ | $\left[\begin{array}{c} 8 \\ 8 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 8 \\ 8 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 8 \\ 8 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 6 \\ 3 \end{array} \right]_3$ | I: 96,229 | $\frac{133}{48}$ |
| $x^{12} + 2x^{10} + 4x^6 + 4x^4 + 8x^2 + 4$ | $x^{12} - 2x^{11} + 11x^{10} + 10x^9 + 18x^8 + 122x^7 + 237x^6 + 198x^5 + 908x^4 + 1270x^3 + 1021x^2 + 1658x + 2491$ | $\left[\begin{array}{c} 4 \\ 8 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 4 \\ 4 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 2 \\ 3 \end{array} \right]_3$ | I: 24,13 | $\frac{25}{12}$ |
| $x^{12} + 36x^8 - 52x^6 + 4x^4 + 24x^2 - 44$ | $x^{12} - 18x^8 - 20x^6 + 36x^4 + 60x^2 + 20$ | $\left[\begin{array}{c} 8 \\ 8 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 2 \\ 3 \end{array} \right]_3$ | I: 24,13 | $\frac{31}{12}$ |
| $x^{12} + 14x^6 - 12$ | $x^{12} - 2x^{11} - 51x^{10} + 186x^9 + 390x^8 - 2082x^7 - 787x^6 + 9174x^5 - 796x^4 - 18086x^3 + 2733x^2 + 13270x + 251$ | $\left[\begin{array}{c} 3 \\ 3 \end{array} \right]_3^6$ | I: 6,2 | $\frac{11}{6}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-------------|------------------|
| $x^{12} + 40x^{10} + 4x^8 + 20x^6 - 12x^4 + 40x^2 + 52$ | $x^{12} + 30x^{10} + 348x^8 + 1960x^6 + 5376x^4 + 5760x^2 + 20$ | $\left[\begin{array}{c} \frac{8}{3} \ \frac{8}{3} \ 3 \\ 3 \end{array} \right]^2_3$ | I: 24,13 | $\frac{31}{12}$ |
| $x^{12} - 6x^8 - 2x^6 + 4x^4 + 12$ | $x^{12} + 18x^{10} + 144x^8 + 306x^6 + 108x^4 - 324x^2 + 108$ | $\left[\begin{array}{c} 2 \ \frac{8}{3} \ \frac{8}{3} \ \frac{8}{3} \ 3 \\ 3 \end{array} \right]^6_3$ | I: 192,1540 | $\frac{67}{24}$ |
| $x^{12} + 4x^{10} - 2x^6 + 8x^4 - 4$ | $x^{12} - 6x^{10} - 36x^8 + 6x^6 + 72x^4 - 36$ | $\left[\begin{array}{c} 4 \ \frac{4}{3} \ \frac{4}{3} \ \frac{4}{3} \ 2 \ 3 \\ 3 \end{array} \right]^6_3$ | I: 192,1540 | $\frac{223}{96}$ |
| $x^{12} - 14x^6 - 12$ | $x^{12} + 30x^{10} + 300x^8 + 1250x^6 + 2400x^4 + 2000x^2 + 500$ | $\left[\begin{array}{c} 3 \\ 3 \end{array} \right]^6_3$ | I: 6,2 | $\frac{11}{6}$ |
| $x^{12} - 12x^8 - 8x^6 + 4x^4 + 16x^2 - 4$ | $x^{12} - 32x^{10} + 422x^8 - 2788x^6 + 9100x^4 - 12100x^2 + 5500$ | $\left[\begin{array}{c} 2 \ \frac{8}{3} \ \frac{8}{3} \ 3 \\ 3 \end{array} \right]^2_3$ | I: 48,49 | $\frac{8}{3}$ |
| $x^{12} - 6x^{10} + 6x^8 + 8x^4 - 4x^2 + 4$ | $x^{12} - 6x^{10} + 18x^8 - 28x^6 + 24x^4 - 12x^2 + 4$ | $\left[\begin{array}{c} \frac{8}{3} \ \frac{8}{3} \ 3 \\ 3 \end{array} \right]^2_3$ | I: 24,13 | $\frac{31}{12}$ |
| $x^{12} + 4x^8 + 8x^6 + 4x^4 - 4$ | $x^{12} + 18x^{10} + 200x^8 + 1444x^6 + 6240x^4 + 14400x^2 + 13500$ | $\left[\begin{array}{c} 2 \ \frac{8}{3} \ \frac{8}{3} \ 3 \\ 3 \end{array} \right]^2_3$ | I: 48,49 | $\frac{8}{3}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-------------|------------------|
| $x^{12} + 56x^{10} + 48x^8 - 60x^6 + 48x^4 + 64x^2 + 52$ | $x^{12} - 30x^{10} + 132x^8 + 1100x^6 - 564x^4 + 20$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 3 \end{bmatrix}^2$ | I: 24,13 | $\frac{25}{12}$ |
| $x^{12} - 2x^8 - 6x^6 - 4x^4 + 4x^2 + 4$ | $x^{12} + 6x^{10} - 18x^8 - 50x^6 + 84x^4 - 36x^2 + 4$ | $\begin{bmatrix} 8 & 8 & 3 \\ 3 & 3 & 3 \end{bmatrix}^6$ | I: 96,229 | $\frac{133}{48}$ |
| $x^{12} - 4x^{10} - 6x^8 - 2x^6 + 4x^4 + 8x^2 + 4$ | $x^{12} - 6x^{10} - 42x^8 - 66x^6 - 24x^4 + 12x^2 + 4$ | $\begin{bmatrix} 8 & 8 & 3 \\ 3 & 3 & 3 \end{bmatrix}^6$ | I: 96,229 | $\frac{133}{48}$ |
| $x^{12} - 6x^8 + 4x^4 + 4x^2 - 4$ | $x^{12} - 8x^{10} + 66x^8 - 332x^6 + 1340x^4 - 3300x^2 + 5500$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix}^2$ | I: 192,1540 | $\frac{259}{96}$ |
| $x^{12} + 4x^8 + 4x^4 + 12$ | $x^{12} - 6x^{10} + 18x^8 - 36x^6 + 48x^4 - 36x^2 + 12$ | $\begin{bmatrix} 2 & 8 & 3 \\ 3 & 3 & 3 \end{bmatrix}^2$ | I: 48,49 | $\frac{8}{3}$ |
| $x^{12} - 14x^{10} - 8x^8 + 10x^6 + 8x^4 - 12x^2 - 12$ | $x^{12} - 30x^{10} + 90x^8 + 3450x^6 - 14400x^4 - 108000x^2 + 4500$ | $\begin{bmatrix} 8 & 8 & 3 \\ 3 & 3 & 3 \end{bmatrix}^6$ | I: 96,229 | $\frac{133}{48}$ |
| $x^{12} + 10x^{10} - 2x^8 - 8x^4 - 4x^2 - 12$ | $x^{12} - 36x^{10} + 378x^8 - 952x^6 + 324x^4 + 660x^2 + 20$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 & 3 \end{bmatrix}^2$ | I: 96,229 | $\frac{127}{48}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-------------|------------------|
| $x^{12} - 6x^8 + 8x^6 + 4x^4 - 12x^2 + 12$ | $x^{12} - 10x^{10} + 46x^8 - 116x^6 + 168x^4 - 132x^2 + 44$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | I: 192,1540 | $\frac{259}{96}$ |
| $x^{12} - 2x^8 + 2x^6 + 4x^4 + 4x^2 + 4$ | $x^{12} - 12x^{10} + 48x^8 - 70x^6 + 24x^4 + 12x^2 + 4$ | $\left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | I: 96,229 | $\frac{133}{48}$ |
| $x^{12} + 12x^{10} + 10x^6 + 8x^4 + 12$ | $x^{12} - 30x^{10} - 180x^8 + 450x^6 + 2700x^4 - 4500$ | $\left[\begin{array}{ccc} 4 & 4 & 4 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | I: 192,1540 | $\frac{223}{96}$ |
| $x^{12} + 4x^{10} - 14x^6 - 8x^4 - 12$ | $x^{12} - 240x^8 + 1850x^6 - 3900x^4 + 500$ | $\left[\begin{array}{ccc} 4 & 4 & 4 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | I: 96,229 | $\frac{103}{48}$ |
| $x^{12} + 6x^{10} - 8x^8 + 2x^6 + 16x^4 - 12x^2 - 12$ | $x^{12} - 150x^8 + 850x^6 - 1200x^4 + 500$ | $\left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | I: 96,229 | $\frac{133}{48}$ |
| $x^{12} - 4x^{10} + 6x^8 + 4x^4 - 4x^2 + 4$ | $x^{12} + 2x^{10} + 6x^8 + 12x^6 + 16x^4 + 12x^2 + 4$ | $\left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | I: 24,13 | $\frac{31}{12}$ |
| $x^{12} + 12$ | $x^{12} + 12x^8 - 24x^4 + 12$ | $\left[\begin{array}{cc} 2 & 3 \\ 3 & 3 \end{array} \right]_3^2$ | I: 12,5 | $\frac{13}{6}$ |
| $x^{12} - 14x^{10} - 10x^8 - 8x^6 + 8x^4 - 4x^2 - 12$ | $x^{12} - 18x^8 + 20x^6 + 36x^4 - 60x^2 + 20$ | $\left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | I: 24,13 | $\frac{31}{12}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-------------|------------------|
| $x^{12} + 8x^{10} + 6x^8 - 2x^6 - 4x^4 + 4x^2 - 4$ | $x^{12} - 12x^{10} - 72x^8 + 582x^6 - 828x^4 + 324x^2 - 36$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \right]_3^6$ | I: 192,1540 | $\frac{67}{24}$ |
| $x^{12} + 6x^{10} + 2x^6 + 4x^2 - 4$ | $x^{12} - 36x^8 - 18x^6 + 324x^4 + 324x^2 - 324$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \right]_3^6$ | I: 192,1540 | $\frac{67}{24}$ |
| $x^{12} + 4x^{10} + 2x^8 + 2x^6 + 4x^4 - 4$ | $x^{12} - 12x^{10} - 126x^8 + 426x^6 - 468x^4 + 216x^2 - 36$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \right]_3^6$ | I: 192,1540 | $\frac{67}{24}$ |
| $x^{12} - 14x^8 + 10x^6 + 4x^4 - 8x^2 - 12$ | $x^{12} + 30x^{10} + 90x^8 - 3450x^6 - 14400x^4 + 108000x^2 + 4500$ | $\left[\begin{array}{c} 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \end{array} \right]_3^6$ | I: 96,229 | $\frac{133}{48}$ |
| $x^{12} - 84x^{10} + 444x^8 + 32x^6 - 272x^4 - 320x^2 + 64$ | $x^{12} - 2x^{10} + 4x^8 + 4x^6 + 20x^4 + 16x^2 + 4$ | $\left[\begin{array}{c} 3 \\ 3 \\ 3 \end{array} \right]_3^2$ | I: 6,2 | $\frac{11}{6}$ |
| $x^{12} - 2x^{10} - 2x^8 + 8x^4 + 4x^2 + 4$ | $x^{12} + 6x^{10} + 18x^8 + 28x^6 + 24x^4 + 12x^2 + 4$ | $\left[\begin{array}{c} 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \end{array} \right]_3^2$ | I: 24,13 | $\frac{31}{12}$ |
| $x^{12} - 8x^{10} + 2x^8 + 6x^6 - 4x^4 + 12$ | $x^{12} - 12x^8 + 6x^6 + 36x^4 - 36x^2 + 12$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \right]_3^6$ | I: 192,1540 | $\frac{67}{24}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-------------|------------------|
| $x^{12} - 60x^6 + 52$ | $x^{12} + 60x^{10} + 1260x^8 + 10900x^6 + 34200x^4 + 9000x^2 + 500$ | $\left[\begin{matrix} 2 \\ 3 \end{matrix} \right]_3$ | I: 6,2 | $\frac{11}{6}$ |
| $x^{12} + 56x^{10} - 28x^8 - 4x^6 + 52x^4 + 56x^2 - 44$ | $x^{12} - 30x^{10} + 348x^8 - 1960x^6 + 5376x^4 - 5760x^2 + 20$ | $\left[\begin{matrix} 8 & 8 & 3 \\ 3 & 3 & 3 \end{matrix} \right]_3^2$ | I: 24,13 | $\frac{31}{12}$ |
| $x^{12} - 2x^{10} + 16x^8 - 2x^6 + 8x^4 + 12x^2 + 12$ | $x^{12} - 810x^8 - 5550x^6 - 13500x^4 - 13500x^2 - 4500$ | $\left[\begin{matrix} 2 & 8 & 3 & 8 & 3 & 3 \\ 8 & 3 & 3 & 3 & 3 & 3 \end{matrix} \right]_3^6$ | I: 192,1540 | $\frac{67}{24}$ |
| $x^{12} + 16x^{10} + 14x^8 - 2x^6 - 4x^4 + 12x^2 - 12$ | $x^{12} - 120x^8 - 50x^6 + 1200x^4 - 1500x^2 + 500$ | $\left[\begin{matrix} 8 & 3 & 3 & 8 & 3 & 3 \\ 8 & 3 & 3 & 3 & 3 & 3 \end{matrix} \right]_3^6$ | I: 96,229 | $\frac{133}{48}$ |
| $x^{12} + 6x^8 - 6x^6 + 4x^4 - 4x^2 + 12$ | $x^{12} - 12x^8 - 6x^6 + 36x^4 + 36x^2 + 12$ | $\left[\begin{matrix} 2 & 8 & 3 & 8 & 3 & 3 \\ 8 & 3 & 3 & 3 & 3 & 3 \end{matrix} \right]_3^6$ | I: 192,1540 | $\frac{67}{24}$ |
| $x^{12} + 4x^{10} + 2x^8 - 14x^6 - 4x^4 + 8x^2 - 12$ | $x^{12} - 120x^8 + 50x^6 + 1200x^4 + 1500x^2 + 500$ | $\left[\begin{matrix} 8 & 3 & 3 & 8 & 3 & 3 \\ 8 & 3 & 3 & 3 & 3 & 3 \end{matrix} \right]_3^6$ | I: 96,229 | $\frac{133}{48}$ |
| $x^{12} + 2x^{10} + 8x^8 - 2x^6 - 4x^2 + 4$ | $x^{12} + 6x^{10} - 42x^8 + 66x^6 - 24x^4 - 12x^2 + 4$ | $\left[\begin{matrix} 8 & 3 & 3 & 8 & 3 & 3 \\ 8 & 3 & 3 & 3 & 3 & 3 \end{matrix} \right]_3^6$ | I: 96,229 | $\frac{133}{48}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|------------------|
| $x^{12} + 16x^{10} + 16x^8 + 8x^6 + 16x^4 - 4$ | $x^{12} - 20x^{10} + 164x^8 - 728x^6 + 2080x^4 - 4400x^2 + 5500$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \right]_3^2$ | I: 48,49 | $\frac{55}{24}$ |
| $x^{12} + 14x^6 + 12$ | $x^{12} - 18x^6 + 108$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \right]_3^6$ | I: 12,5 | $\frac{13}{6}$ |
| $x^{12} + 2x^8 - 2x^6 + 4x^4 + 8x^2 + 4$ | $x^{12} - 6x^{10} + 42x^8 - 74x^6 + 24x^4 + 12x^2 + 4$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \right]_3^6$ | I: 96,229 | $\frac{133}{48}$ |
| $x^{12} + 4x^8 - 12x^4 + 12$ | $x^{12} - 22x^{10} + 198x^8 - 968x^6 + 2904x^4 - 5324x^2 + 5324$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \right]_3^2$ | I: 48,49 | $\frac{8}{3}$ |
| $x^{12} + 4x^{10} - 2x^6 + 4$ | $x^{12} - 24x^8 + 14x^6 + 144x^4 - 168x^2 + 4$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \right]_3^6$ | I: 96,229 | $\frac{103}{48}$ |
| $x^{12} + 8x^6 - 4$ | $x^{12} + 14x^{10} + 60x^8 - 56x^6 - 1140x^4 + 13500$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \right]_3^2$ | I: 12,5 | $\frac{13}{6}$ |
| $x^{12} - 24x^{10} - 16x^8 - 20x^6 - 16x^4 + 20$ | $x^{12} + 30x^{10} + 132x^8 - 1100x^6 - 564x^4 + 20$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \right]_3^2$ | I: 24,13 | $\frac{25}{12}$ |
| $x^{12} - 6x^6 - 4$ | $x^{12} + 2x^6 + 28$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \right]_3^6$ | I: 12,5 | $\frac{13}{6}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} - 2x^6 - 4$ | $x^{12} - 2x^6 + 28$ | $\left[\begin{array}{c} 6 \\ 2 \ 3 \end{array} \right]_3$ | I: 12,5 | $\frac{13}{6}$ |
| $x^{12} + 2x^{10} + 4x^8 + 4x^6 + 4x^4 + 4$ | $x^{12} + 2x^{10} + 4x^8 - 4x^6 + 20x^4 - 16x^2 + 4$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \right]_3$ | I: 6,2 | $\frac{11}{6}$ |
| $x^{12} - 20x^6 + 20$ | $x^{12} - 6x^{11} - 51x^{10} + 250x^9 + 1050x^8 - 3486x^7 - 9059x^6 + 22386x^5 + 31800x^4 - 63250x^3 - 33501x^2 + 44106x + 16001$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \right]_3$ | I: 6,2 | $\frac{11}{6}$ |
| $x^{12} + 4x^{11} - 6x^{10} + 8x^9 - 4x^8 + 8x^7 - 4x^6 + 4x^5 - 4x^4 + 8x + 8$ | $x^{12} - 4x^{11} - 52x^{10} + 156x^9 + 1224x^8 - 1876x^7 - 14588x^6 + 3738x^5 + 74477x^4 + 37070x^3 - 84064x^2 + 22966x + 102679$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 4 \\ 4 \\ 3 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 6 \\ 4 \\ 4 \\ 3 \\ 3 \end{array} \right]_3$ | I: 192,1541 | $\frac{127}{96}$ |
| $x^{12} + 6x^{11} - 4x^{10} - 2x^9 + 4x^8 - 8x^7 - 8x^6 - 8x^5 - 4x^4 - 8$ | $x^{12} - 6x^{11} + 8x^{10} + 12x^9 - 46x^8 + 72x^7 - 100x^6 + 112x^5 - 84x^4 + 64x^3 - 56x^2 + 16x + 8$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 4 \\ 4 \\ 3 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 6 \\ 4 \\ 4 \\ 3 \\ 3 \end{array} \right]_3$ | I: 48,50 | $\frac{31}{24}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-------------|------------------|
| $x^{12} + 6x^{11} - 4x^9 - 2x^8 + 8x^7 + 8x^6 - 4x^5 + 8x^3 + 8x^2 + 8$ | $x^{12} - 4x^9 + 54x^8 - 54x^7 + 122x^6 - 72x^5 + 93x^4 - 48x^3 + 18x^2 + 1$ | $\begin{bmatrix} 4 & 4 \\ 3 & 3 \end{bmatrix}_3^6$ | I: 12,3 | $\frac{7}{6}$ |
| $x^{12} + 8x^{11} + 8x^{10} - 4x^9 - 10x^8 + 16x^7 - 8x^6 - 8x^5 + 16x^4 + 8$ | $x^{12} - 4x^{11} - 112x^{10} - 64x^9 + 3652x^8 + 14644x^7 + 20150x^6 + 48620x^5 + 214945x^4 + 375448x^3 + 329162x^2 + 416980x + 370019$ | $\begin{bmatrix} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{bmatrix}_3^6$ | I: 192,1541 | $\frac{247}{96}$ |
| $x^{12} - 8x^{11} + 16x^{10} - 12x^9 + 10x^8 - 12x^6 - 8x^5 - 8x^4 + 8$ | $x^{12} + 6x^{10} + 18x^8 + 32x^6 + 33x^4 + 18x^2 + 3$ | $\begin{bmatrix} 2 & 2 & 2 & 3 \\ 3 & 3 \end{bmatrix}_1^3$ | I: 32,27 | $\frac{43}{16}$ |
| $x^{12} + 12x^{11} + 6x^{10} - 4x^9 - 2x^8 - 8x^7 - 12x^6 - 8x^5 - 8x^4 + 16x^3 + 8x^2 - 8$ | $x^{12} - 39x^8 - 286x^6 - 624x^4 - 364x^2 - 13$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & 3 \\ 3 & 3 \end{bmatrix}_1^3$ | I: 64,73 | $\frac{91}{32}$ |
| $x^{12} + 4x^{10} + 14x^8 + 16x^7 + 16x^6 - 8x^5 + 8x^4 + 16x^3 + 16x^2 + 8$ | $x^{12} + 20x^{10} - 16x^9 + 122x^8 - 64x^7 + 104x^6 - 24x^5 + 136x^4 + 32x^3 + 64x^2 - 32x + 8$ | $\begin{bmatrix} 8 & 8 \\ 3 & 3 \end{bmatrix}_3^6$ | I: 12,3 | $\frac{13}{6}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-----------------|
| $x^{12} - 4x^{11} - 2x^{10} - 4x^9 - 2x^8 + 8x^7 + 8x^6 + 8x^4 + 8$ | $x^{12} - 4x^{10} - 77x^8 - 64x^6 + 39x^4 + 52x^2 + 13$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & 3 \\ & & & & 3 \\ & & & & & 1 \end{bmatrix}^6$ | I: 64,211 | $\frac{91}{32}$ |
| $x^{12} - 4x^{11} + 14x^{10} - 12x^9 + 16x^8 + 8x^7 + 4x^6 - 8x^5 - 4x^4 + 16x^2 + 16x - 8$ | $x^{12} + 6x^{10} + 9x^8 - 4x^6 - 18x^4 - 12x^2 - 1$ | $\begin{bmatrix} 2 & 2 & 2 & \frac{5}{2} & 3 & 3 \\ & & & & & 1 \end{bmatrix}^3$ | I: 64,73 | $\frac{89}{32}$ |
| $x^{12} + 12x^{11} + 16x^{10} - 4x^9 + 6x^8 + 8x^7 + 4x^6 + 16x^5 - 8x^4 + 16x^2 + 16x + 8$ | $x^{12} - 9x^8 - 10x^6 + 18x^4 + 18x^2 + 1$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & 3 \\ & & & & 3 \\ & & & & & 1 \end{bmatrix}^6$ | I: 32,21 | $\frac{43}{16}$ |
| $x^{12} + 8x^{11} + 6x^{10} + 12x^9 - 14x^8 - 8x^7 + 8x^6 + 16x^5 + 16x^4 + 8x^3 - 8$ | $x^{12} + 12x^{10} + 47x^8 + 56x^6 - 33x^4 - 68x^2 + 25$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & 3 \\ & & & & 3 \\ & & & & & 1 \end{bmatrix}^3$ | I: 64,211 | $\frac{91}{32}$ |
| $x^{12} + 16x^{11} + 24x^{10} + 36x^9 + 26x^8 - 8x^7 - 40x^6 + 48x^5 - 12x^4 + 16x^3 + 16x - 56$ | $x^{12} + 4x^{10} - 77x^8 + 64x^6 + 39x^4 - 52x^2 + 13$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & 3 \\ & & & & 3 \\ & & & & & 1 \end{bmatrix}^6$ | I: 64,211 | $\frac{91}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} + 36x^{11} - 96x^{10} - 60x^9 +$ $94x^8 + 16x^7 + 96x^6 - 48x^5 -$ $52x^4 - 48x^3 + 64x^2 + 16x - 88$ | $x^{12} - 4x^{11} + 12x^{10} - 28x^9 - 640x^8 +$ $2664x^7 - 2594x^6 - 3348x^5 + 9983x^4 -$ $9968x^3 + 5046x^2 - 1280x + 127$ | $\left[\begin{array}{cccc} \frac{8}{3} & \frac{8}{3} & \frac{8}{3} & \frac{8}{3} \\ \frac{8}{3} & \frac{8}{3} & \frac{8}{3} & \frac{8}{3} \\ \frac{8}{3} & \frac{8}{3} & \frac{8}{3} & \frac{8}{3} \\ \frac{8}{3} & \frac{8}{3} & \frac{8}{3} & \frac{8}{3} \end{array} \right]_3^6$ | I: 192,1541 | $\frac{253}{96}$ |
| $x^{12} - 16x^{11} - 10x^{10} + 12x^9 -$ $2x^8 - 16x^6 + 32x^5 + 28x^4 -$ $8x^2 + 16x - 24$ | $x^{12} + 8x^{10} + 17x^8 - 8x^6 - 26x^4 + 26x^2 -$ 13 | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ 2 & 2 & 2 & 2 \\ 2 & 2 & 2 & 2 \\ 2 & 2 & 2 & 2 \end{array} \right]_1^3$ | I: 64,211 | $\frac{91}{32}$ |
| $x^{12} + 4x^{11} - 6x^{10} + 16x^9 -$ $8x^8 - 8x^7 + 8x^5 + 12x^4 - 8x^2 +$ $16x + 8$ | $x^{12} + 6x^{10} + 25x^8 + 60x^6 + 78x^4 +$ $52x^2 + 13$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ 2 & 2 & 2 & 2 \\ 2 & 2 & 2 & 2 \\ 2 & 2 & 2 & 2 \end{array} \right]_1^6$ | I: 32,51 | $\frac{39}{16}$ |
| $x^{12} - 4x^{11} - 30x^{10} + 4x^9 -$ $16x^8 + 8x^7 - 24x^6 - 16x^5 +$ $4x^4 - 16x^3 + 16x^2 + 24$ | $x^{12} + 6x^{10} - 126x^8 - 54x^6 + 1701x^4 -$ $1458x^2 - 729$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ 2 & 2 & 2 & 2 \\ 2 & 2 & 2 & 2 \\ 2 & 2 & 2 & 2 \end{array} \right]_1^6$ | I: 64,202 | $\frac{91}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-----------------|
| $x^{12} - 8x^{11} + 2x^{10} + 16x^9 + 4x^8 + 16x^6 - 4x^4 + 16x^3 + 16x^2 + 16x + 8$ | $x^{12} + 9x^8 + 18x^4 - 9$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 32,34 | $\frac{43}{16}$ |
| $x^{12} + 20x^{11} - 10x^{10} - 28x^9 - 26x^8 + 32x^7 - 16x^6 + 32x^5 + 28x^4 - 16x^3 - 8x^2 - 16x + 8$ | $x^{12} - 6x^{10} + 12x^8 - 8x^6 - 13x^4 + 26x^2 - 13$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 64,211 | $\frac{91}{32}$ |
| $x^{12} - 8x^{11} - 2x^{10} + 2x^8 + 16x^7 - 8x^5 - 8x^4 + 8x^2 + 16x + 8$ | $x^{12} + 28x^{10} + 164x^8 - 12x^6 - 157x^4 + 50x^2 + 5$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 32,21 | $\frac{43}{16}$ |
| $x^{12} + 8x^{11} - 6x^{10} + 4x^9 - 14x^8 + 16x^7 + 4x^6 + 8x^4 - 8x^2 + 8$ | $x^{12} + 6x^{10} + 3x^8 - 8x^6 - 12x^4 - 6x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & \frac{5}{2} \\ & & & \frac{3}{2} \end{array} \right]_1^3$ | I: 64,73 | $\frac{89}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} - 12x^{11} - 10x^{10} + 4x^9 - 6x^8 - 4x^6 + 16x^3 - 8x^2 + 16x + 8$ | $x^{12} - 6x^{10} - 50x^8 - 98x^6 - 89x^4 - 58x^2 - 25$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,73 | $\frac{91}{32}$ |
| $x^{12} + 8x^{11} + 2x^{10} + 8x^9 - 8x^8 - 8x^7 - 4x^6 + 8x^5 - 12x^4 + 32x^3 + 24x^2 - 16x + 24$ | $x^{12} - 4x^{10} + x^8 - 12x^6 + 91x^4 - 104x^2 - 13$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,73 | $\frac{91}{32}$ |
| $x^{12} - 4x^{11} + 8x^{10} + 4x^9 + 2x^8 + 8x^6 + 8x^4 + 8$ | $x^{12} - 12x^{10} - 4x^9 + 44x^8 + 32x^7 - 64x^6 - 72x^5 + 60x^4 + 96x^3 - 16x^2 - 32x + 8$ | $\left[\begin{array}{cccc} 3 & 3 & 3 & 3 \\ & 3 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_3^6$ | I: 192,1541 | $\frac{253}{96}$ |
| $x^{12} + 4x^{11} + 16x^{10} + 12x^9 + 6x^8 + 8x^6 + 16x^5 + 16x^4 + 8x^2 + 16x + 8$ | $x^{12} + 30x^{10} + 352x^8 + 2040x^6 + 6045x^4 + 8450x^2 + 4225$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 2 & 3 \\ & & 3 \end{array} \right]_1^3$ | I: 32,21 | $\frac{45}{16}$ |
| $x^{12} + 12x^{11} - 6x^{10} - 12x^9 - 2x^8 + 16x^7 - 8x^6 + 16x + 8$ | $x^{12} - 18x^{10} + 69x^8 - 112x^6 + 39x^4 + 26x^2 - 13$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,73 | $\frac{89}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-----------------|
| $x^{12} + 8x^{11} + 30x^{10} - 24x^9 -$ $2x^8 + 32x^7 + 28x^6 - 8x^5 +$ $32x^3 + 24x^2 + 16x - 24$ | $x^{12} + 12x^8 + 9x^4 - 3$ | $\left[\begin{array}{cccccc} 2 & 2 & 2 & 3 & 3 & 3 \\ & & & & & 6 \\ & & & & & & 1 \end{array} \right]$ | I: 64,211 | $\frac{91}{32}$ |
| $x^{12} - 12x^{11} + 4x^{10} - 10x^8 -$ $8x^7 + 16x^5 + 16x^3 + 16x^2 +$ $16x - 8$ | $x^{12} - 36x^8 - 72x^7 + 114x^6 + 252x^5 -$ $279x^4 - 208x^3 + 306x^2 - 72x - 9$ | $\left[\begin{array}{cccccc} 8 & 8 & 8 & 8 & 3 & 3 \\ & & & & & 6 \\ & & & & & & 3 \end{array} \right]$ | I: 48,50 | $\frac{61}{24}$ |
| $x^{12} - 24x^{11} - 16x^{10} + 4x^9 +$ $2x^8 + 16x^7 - 12x^4 + 32x^3 -$ $16x^2 - 16x + 8$ | $x^{12} - 2x^{10} - 16x^8 - 8x^6 + 39x^4 + 52x^2 -$ 13 | $\left[\begin{array}{cccccc} 2 & 2 & 2 & 5 & 3 & 3 \\ & & & & & 6 \\ & & & & & & 1 \end{array} \right]$ | I: 64,73 | $\frac{89}{32}$ |
| $x^{12} + 12x^{11} - 2x^{10} + 12x^9 +$ $4x^8 + 16x^7 + 4x^6 + 16x^5 -$ $12x^4 + 16x^3 + 8x^2 + 16x - 8$ | $x^{12} - 208x^8 - 416x^7 + 520x^6 + 2392x^5 +$ $3107x^4 + 2080x^3 + 780x^2 + 156x + 13$ | $\left[\begin{array}{cccccc} 2 & 2 & 2 & 2 & 2 & 3 \\ & & & & & 6 \\ & & & & & & 1 \end{array} \right]$ | I: 64,267 | $\frac{79}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-----------------|
| $x^{12} - 4x^{11} - 14x^{10} - 8x^9 +$ $10x^8 + 16x^4 + 16x^3 + 8x^2 +$ $16x + 8$ | $x^{12} - 12x^{10} + 61x^8 - 168x^6 + 247x^4 -$ $156x^2 - 13$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 32,34 | $\frac{43}{16}$ |
| $x^{12} - 12x^{11} - 26x^{10} - 12x^9 -$ $22x^8 + 32x^7 + 4x^6 - 16x^5 -$ $16x^4 + 16x^3 - 16x^2 - 24$ | $x^{12} + 8x^{10} + 15x^8 - 20x^6 - 90x^4 -$ $90x^2 - 27$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,202 | $\frac{87}{32}$ |
| $x^{12} + 12x^{11} - 26x^{10} + 16x^9 +$ $20x^8 - 8x^7 - 28x^6 + 28x^4 -$ $16x^3 - 8x^2 + 16x - 24$ | $x^{12} - 2x^{10} - 7x^8 + 16x^6 - 14x^4 + 6x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 64,73 | $\frac{91}{32}$ |
| $x^{12} + 12x^{11} + 32x^{10} - 20x^9 +$ $14x^8 + 24x^7 - 20x^6 + 24x^5 +$ $8x^4 + 32x^3 - 24x^2 + 24$ | $x^{12} - 8x^{10} - 9x^8 + 60x^6 + 91x^4 + 52x^2 +$ 13 | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,211 | $\frac{87}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-------------|------------------|
| $x^{12} + 4x^{11} + 16x^{10} + 12x^9 +$ $16x^8 + 8x^6 + 8x^5 - 4x^4 +$ $16x^3 + 16x^2 - 8$ | $x^{12} + 106x^{10} - 276x^9 + 4589x^8 -$ $19200x^7 + 110652x^6 - 459576x^5 +$ $1595715x^4 - 4285248x^3 +$ $10592570x^2 - 13187172x + 9541687$ | $\left[\begin{array}{cccc} 8 & 8 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^6$ | I: 192,1541 | $\frac{253}{96}$ |
| $x^{12} + 32x^{11} - 2x^{10} + 8x^9 -$ $18x^8 + 8x^7 + 32x^6 + 16x^5 -$ $20x^4 + 16x^3 - 8x^2 + 32x + 8$ | $x^{12} - 12x^{10} + 51x^8 - 86x^6 + 42x^4 -$ $18x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ 3 & 3 & 3 & 3 \end{array} \right]_1^3$ | I: 64,202 | $\frac{91}{32}$ |
| $x^{12} - 20x^{11} + 6x^{10} - 8x^9 +$ $24x^8 + 32x^7 - 12x^6 - 16x^5 +$ $28x^4 + 8x^2 - 16x + 24$ | $x^{12} + 14x^{10} + 61x^8 + 92x^6 + 26x^4 -$ $26x^2 - 13$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ 3 & 3 & 3 & 3 \end{array} \right]_1^6$ | I: 64,73 | $\frac{91}{32}$ |
| $x^{12} + 12x^{11} - 10x^{10} + 12x^9 +$ $14x^8 - 8x^6 + 8x^5 + 16x^3 + 8$ | $x^{12} - 10x^{10} + 29x^8 - 12x^6 - 26x^4 -$ $26x^2 + 13$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ 3 & 3 & 3 & 3 \end{array} \right]_1^6$ | I: 64,267 | $\frac{79}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-----------------|
| $x^{12} - 28x^{11} - 10x^{10} + 12x^9 -$ $8x^8 + 24x^7 - 8x^5 - 12x^4 -$ $16x^3 - 16x^2 + 16x - 24$ | $x^{12} + 2x^{10} - 7x^8 - 32x^6 - 8x^4 - 34x^2 -$ 25 | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,211 | $\frac{91}{32}$ |
| $x^{12} + 4x^{11} - 6x^{10} + 16x^9 -$ $10x^8 + 8x^7 + 12x^6 + 8x^5 +$ $8x^4 + 16x - 8$ | $x^{12} - 6x^{10} + 3x^8 + 24x^6 - 36x^4 + 18x^2 -$ 3 | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,202 | $\frac{87}{32}$ |
| $x^{12} - 20x^{11} - 2x^{10} - 4x^9 +$ $4x^8 - 8x^7 - 24x^5 + 28x^4 +$ $16x^3 - 16x + 24$ | $x^{12} - 8x^{10} + 17x^8 + 8x^6 - 26x^4 - 26x^2 -$ 13 | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 64,211 | $\frac{91}{32}$ |
| $x^{12} + 4x^{11} - 4x^{10} - 12x^9 +$ $6x^8 - 12x^6 + 8x^4 + 16x^3 -$ $8x^2 + 16x - 8$ | $x^{12} + 3x^8 - 4x^4 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 64,211 | $\frac{91}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-----------------|
| $x^{12} - 20x^{11} - 14x^{10} + 4x^9 - 6x^8 - 24x^7 + 8x^6 + 16x^5 - 4x^4 + 24x^2 - 16x - 8$ | $x^{12} + 8x^{10} - 93x^8 + 272x^6 - 308x^4 + 110x^2 + 5$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & & 3 \\ & & & & 3 \\ & & & & & 3 \\ & & & & & & 3 \\ & & & & & & & 3 \\ & & & & & & & & 3 \\ & & & & & & & & & 3 \\ & & & & & & & & & & 3 \end{array} \right]_1^6$ | I: 32,21 | $\frac{45}{16}$ |
| $x^{12} + 8x^{11} + 16x^{10} + 2x^8 + 8x^7 + 12x^6 + 16x^5 - 8x^4 + 16x^3 - 8x^2 + 16x - 8$ | $x^{12} + 6x^{10} + 2x^8 - 32x^6 - 89x^4 - 98x^2 - 25$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & & 3 \\ & & & & & 3 \\ & & & & & & 3 \\ & & & & & & & 3 \\ & & & & & & & & 3 \\ & & & & & & & & & 3 \\ & & & & & & & & & & 3 \end{array} \right]_1^6$ | I: 64,73 | $\frac{91}{32}$ |
| $x^{12} + 20x^{11} + 10x^{10} + 12x^9 - 26x^8 + 32x^7 + 12x^6 - 16x^5 + 8x^4 + 32x^3 - 8x^2 + 32x + 24$ | $x^{12} - 4x^{10} - 15x^8 + 74x^6 - 102x^4 + 48x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & & 3 \\ & & & & & 3 \\ & & & & & & 3 \\ & & & & & & & 3 \\ & & & & & & & & 3 \\ & & & & & & & & & 3 \\ & & & & & & & & & & 3 \end{array} \right]_1^6$ | I: 64,73 | $\frac{89}{32}$ |
| $x^{12} - 8x^{11} + 10x^{10} + 8x^9 + 2x^8 + 16x^7 + 12x^6 + 8x^5 - 8x^4 - 8x^2 + 8$ | $x^{12} + 4x^{10} - 2x^8 - 12x^6 - 13x^4 - 6x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & & 3 \\ & & & & & 3 \\ & & & & & & 3 \\ & & & & & & & 3 \\ & & & & & & & & 3 \\ & & & & & & & & & 3 \\ & & & & & & & & & & 3 \end{array} \right]_1^3$ | I: 64,73 | $\frac{89}{32}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-----------------|
| $x^{12} + 20x^{11} + 30x^{10} + 32x^9 -$ $26x^8 - 16x^7 + 8x^6 - 24x^5 +$ $16x^3 - 24x^2 - 16x - 24$ | $x^{12} + 30x^{10} + 335x^8 + 1700x^6 +$ $3800x^4 + 3000x^2 + 625$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 3 \end{array} \right]_1^3$ | I: 32,21 | $\frac{43}{16}$ |
| $x^{12} + 16x^{11} + 12x^9 - 12x^8 +$ $16x^7 + 16x^6 + 16x^5 + 4x^4 +$ $16x^3 + 8x^2 + 16x + 8$ | $x^{12} - 6x^{10} + 12x^8 + 6x^6 - 27x^4 - 36x^2 -$ 3 | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 3 \end{array} \right]_1^6$ | I: 64,211 | $\frac{87}{32}$ |
| $x^{12} - 8x^{11} - 6x^{10} + 4x^9 - 6x^8 -$ $12x^6 + 8x^5 + 8x^4 + 8x^2 + 16x -$ 8 | $x^{12} + 6x^{10} + 15x^8 + 20x^6 + 2x^4 - 20x^2 +$ 1 | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 3 \end{array} \right]_1^6$ | I: 32,34 | $\frac{43}{16}$ |
| $x^{12} + 24x^{11} - 28x^{10} - 16x^9 +$ $6x^8 + 8x^7 + 24x^6 + 32x^5 -$ $12x^4 + 16x^3 + 16x^2 + 32x + 24$ | $x^{12} - 27x^8 - 90x^6 - 90x^4 + 9$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 3 \end{array} \right]_1^3$ | I: 16,14 | $\frac{19}{8}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} - 8x^{10} + 16x^9 - 12x^8 + 8x^7 - 12x^6 + 8x^5 - 4x^4 + 16x^3 - 8x^2 + 8$ | $x^{12} - 2x^{10} - 17x^8 + 20x^6 + 72x^4 - 18x^2 - 27$ | $\left[\begin{array}{cccccc} 2 & 2 & 2 & 2 & 3 & 3 \\ & & & & & 1 \end{array} \right]_1^6$ | I: 64,202 | $\frac{87}{32}$ |
| $x^{12} + 4x^{11} - 14x^{10} - 8x^9 - 4x^8 + 16x^7 + 8x^5 - 12x^4 + 16x^3 - 8$ | $x^{12} - 26x^{10} + 169x^8 - 494x^6 + 806x^4 - 754x^2 + 325$ | $\left[\begin{array}{cccccc} 2 & 2 & 2 & 2 & 3 & 3 \\ & & & & & 1 \end{array} \right]_1^6$ | I: 32,51 | $\frac{39}{16}$ |
| $x^{12} + 2x^{10} + 16x^9 + 8x^8 - 8x^7 - 8x^6 + 4x^4 + 16x^3 - 8x^2 + 16x + 8$ | $x^{12} - 8x^{10} + x^8 + 104x^6 + 15x^4 - 1800x^2 + 3375$ | $\left[\begin{array}{cccccc} 2 & 2 & 2 & 3 & 3 & 3 \\ & & & & & 1 \end{array} \right]_1^3$ | I: 64,202 | $\frac{91}{32}$ |
| $x^{12} + 36x^{11} - 48x^{10} - 12x^9 - 58x^8 - 32x^6 + 48x^5 + 60x^4 - 16x^3 + 64x^2 - 48x + 40$ | $x^{12} + 1176x^{10} - 9352x^9 + 13158x^8 + 2285928x^7 - 15228264x^6 + 14779224x^5 + 1569752496x^4 - 1444920928x^3 + 3813990768x^2 - 18616281792x + 23067540424$ | $\left[\begin{array}{cccccc} 4 & 4 & 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{array} \right]_3^6$ | I: 192,1541 | $\frac{223}{96}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-----------------|
| $x^{12} - 4x^{11} - 6x^{10} + 4x^9 +$ $10x^8 + 16x^7 - 8x^6 - 8x^5 -$ $8x^4 + 8x^2 + 16x - 8$ | $x^{12} - 12x^{10} - 81x^8 + 702x^6 - 486x^4 -$ $1944x^2 - 729$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,202 | $\frac{87}{32}$ |
| $x^{12} - 4x^{11} + 8x^{10} + 8x^9 +$ $10x^8 + 12x^6 + 8x^4 + 16x - 8$ | $x^{12} - 6x^{10} - 126x^8 + 810x^6 - 567x^4 -$ $1944x^2 - 729$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,202 | $\frac{91}{32}$ |
| $x^{12} - 12x^{11} - 4x^{10} + 16x^9 -$ $14x^8 + 8x^7 + 12x^6 + 8x^5 +$ $16x^3 + 8x^2 + 16x - 8$ | $x^{12} + 18x^{10} + 69x^8 + 112x^6 + 39x^4 -$ $26x^2 - 13$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 5 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,73 | $\frac{89}{32}$ |
| $x^{12} + 16x^{11} + 10x^{10} - 12x^9 -$ $2x^8 - 8x^7 - 8x^5 + 16x^4 +$ $16x^3 + 8x^2 + 8$ | $x^{12} - 6x^{10} + 19x^8 - 36x^6 + 42x^4 -$ $28x^2 + 7$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 64,202 | $\frac{91}{32}$ |
| $x^{12} + 16x^{11} + 10x^{10} + 8x^9 -$ $12x^8 - 8x^7 - 8x^6 + 16x^5 +$ $12x^4 + 16x^3 + 8x^2 + 16x + 8$ | $x^{12} - 18x^{10} + 63x^8 + 324x^6 - 1134x^4 -$ $2916x^2 - 729$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,202 | $\frac{91}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-------------|------------------|
| $x^{12} - 12x^{10} + 8x^9 - 12x^8 + 16x^7 + 16x^6 - 8x^5 - 12x^4 + 16x^3 - 8x^2 + 16x + 8$ | $x^{12} - 10x^{10} - 32x^8 - 4x^6 + 57x^4 + 14x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 5 & 3 & 3 \\ & & & 6 \\ & & & & 1 \end{array} \right]_1$ | I: 64,73 | $\frac{89}{32}$ |
| $x^{12} - 4x^{10} + 4x^9 - 8x^7 - 8x^6 - 4x^4 - 8$ | $x^{12} - 4x^{11} - 24x^{10} + 860x^9 - 1210x^8 - 21348x^7 + 154702x^6 + 666864x^5 - 2058601x^4 - 12299456x^3 - 20163090x^2 - 15162452x - 2723951$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \\ & 8 & 3 & 3 \\ & & & 6 \\ & & & & 3 \end{array} \right]_3$ | I: 192,1541 | $\frac{247}{96}$ |
| $x^{12} - 8x^{10} - 12x^8 - 8x^7 - 8x^6 - 8x^5 - 12x^4 + 16x^3 + 16x - 8$ | $x^{12} - 18x^{10} - 16x^9 + 75x^8 + 192x^7 + 228x^6 - 168x^5 - 1197x^4 - 2384x^3 - 2874x^2 - 1656x - 351$ | $\left[\begin{array}{cccc} 8 & 8 & 8 & 8 \\ 3 & 3 & 3 & 3 \\ & 8 & 3 & 3 \\ & & & 6 \\ & & & & 3 \end{array} \right]_3$ | I: 192,1541 | $\frac{253}{96}$ |
| $x^{12} + 10x^{10} + 4x^9 - 14x^8 + 16x^7 + 12x^6 - 8x^5 + 8x^4 + 16x^3 - 8x^2 + 16x + 8$ | $x^{12} - 2x^{10} - 16x^8 - 34x^6 - 13x^4 + 26x^2 + 13$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 3 & 3 \\ & & & 6 \\ & & & & 1 \end{array} \right]_1$ | I: 64,211 | $\frac{87}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-----------------|
| $x^{12} - 8x^{11} + 8x^{10} + 12x^9 + 10x^8 - 8x^7 - 12x^6 + 8x^4 + 16x^2 + 16x - 8$ | $x^{12} - 18x^{10} - 40x^8 + 130x^6 + 97x^4 - 50x^2 + 5$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 2 & 3 \\ & & 3 \end{array} \right]_1^{12}$ | I: 16,2 | $\frac{21}{8}$ |
| $x^{12} + 6x^{10} - 4x^9 + 2x^8 - 4x^6 + 8x^5 + 8$ | $x^{12} + 6x^{10} - 20x^8 + 6x^6 + 15x^4 - 8x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 3 \\ & & 3 \end{array} \right]_1^3$ | I: 64,202 | $\frac{91}{32}$ |
| $x^{12} + 4x^{10} - 8x^9 + 12x^8 - 8x^7 + 4x^6 + 16x^5 - 12x^4 + 16x^3 - 8x^2 + 16x + 8$ | $x^{12} + 12x^{10} + 11x^8 - 134x^6 + 156x^4 - 18x^2 - 27$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 3 \\ & & 3 \end{array} \right]_1^6$ | I: 64,202 | $\frac{91}{32}$ |
| $x^{12} + 44x^{11} - 42x^{10} + 48x^9 + 50x^8 + 56x^7 + 16x^6 + 16x^5 - 52x^4 + 64x^3 + 56x^2 + 56$ | $x^{12} - 6x^{10} + 6x^8 - 22x^6 + 33x^4 - 18x^2 + 3$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 3 \\ & & 3 \end{array} \right]_1^3$ | I: 64,202 | $\frac{91}{32}$ |
| $x^{12} + 16x^{11} + 6x^{10} - 4x^9 - 8x^7 + 8x^6 - 8x^5 + 4x^4 + 16x^3 + 8$ | $x^{12} + 24x^{10} + 151x^8 + 376x^6 + 363x^4 + 80x^2 + 5$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 2 & 3 \\ & & 3 \end{array} \right]_1^{12}$ | I: 16,2 | $\frac{21}{8}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-----------------|
| $x^{12} - 8x^{11} + 14x^{10} + 8x^9 + 10x^8 + 8x^7 + 16x^6 - 8x^5 + 8x^2 - 8$ | $x^{12} - 6x^{10} + 16x^8 - 24x^6 + 19x^4 - 6x^2 - 1$ | $\left[\begin{matrix} 2 & 2 & 2 & 3 & 3 \\ & & & & 3 \end{matrix} \right]_1^3$ | I: 64,211 | $\frac{91}{32}$ |
| $x^{12} + 16x^{11} - 6x^{10} - 8x^9 + 12x^8 + 8x^7 - 8x^6 + 8x^5 - 4x^4 + 16x^3 + 16x + 8$ | $x^{12} - 2x^{10} - 97x^8 + 360x^6 - 345x^4 + 50x^2 + 25$ | $\left[\begin{matrix} 2 & 2 & 3 & 3 \\ & & & 3 \end{matrix} \right]_1^3$ | I: 32,21 | $\frac{45}{16}$ |
| $x^{12} - 4x^{11} - 2x^{10} + 28x^9 - 6x^8 + 24x^7 - 24x^6 + 32x^5 + 28x^4 - 24x^2 + 16x - 8$ | $x^{12} + 6x^{10} + 6x^8 + 10x^6 - 15x^4 - 6x^2 + 1$ | $\left[\begin{matrix} 2 & 2 & 3 \\ & & 6 \end{matrix} \right]_1^6$ | I: 8,5 | $\frac{9}{4}$ |
| $x^{12} + 4x^{11} + 12x^9 - 2x^8 + 16x^7 + 4x^6 - 8x^4 + 16x^3 + 16x^2 + 8$ | $x^{12} + 26x^{10} + 169x^8 + 494x^6 + 806x^4 + 754x^2 + 325$ | $\left[\begin{matrix} 2 & 2 & 2 & 2 & 3 \\ & & & & 6 \end{matrix} \right]_1^6$ | I: 32,51 | $\frac{39}{16}$ |
| $x^{12} - 10x^{10} + 8x^8 - 8x^7 + 8x^6 - 8x^5 + 12x^4 - 8x^2 + 16x - 8$ | $x^{12} + 8x^{10} + 17x^8 + 18x^6 + 26x^4 + 26x^2 + 13$ | $\left[\begin{matrix} 2 & 2 & 2 & 2 & 3 \\ & & & & 6 \end{matrix} \right]_1^6$ | I: 32,51 | $\frac{39}{16}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-----------------|
| $x^{12} - 8x^{11} + 2x^{10} - 12x^9 - 8x^8 - 12x^6 + 8x^5 + 12x^4 - 8x^2 + 8$ | $x^{12} - 26x^{10} + 260x^8 - 1248x^6 + 2899x^4 - 2652x^2 - 325$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^3$ | I: 64,73 | $\frac{89}{32}$ |
| $x^{12} - 8x^{11} + 16x^{10} - 12x^9 + 14x^8 + 8x^7 + 16x^6 - 8x^5 + 16x^3 + 8x^2 - 8$ | $x^{12} - 12x^{10} + 60x^8 - 160x^6 + 227x^4 - 140x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^6$ | I: 64,211 | $\frac{87}{32}$ |
| $x^{12} - 10x^{10} - 24x^9 - 30x^8 - 24x^7 - 8x^6 + 16x^5 - 16x^4 + 16x^3 + 32x^2 + 16x - 24$ | $x^{12} - 6x^{10} + 3x^8 + 6x^6 - 18x^2 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^6$ | I: 64,211 | $\frac{87}{32}$ |
| $x^{12} - 12x^{11} - 4x^9 - 14x^8 + 16x^7 + 12x^6 + 8x^5 + 16x^3 + 16x^2 + 16x + 8$ | $x^{12} - 12x^8 + 9x^4 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^6$ | I: 64,211 | $\frac{87}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-----------------|
| $x^{12} - 12x^{11} - 4x^{10} - 8x^9 + 6x^8 + 4x^6 - 8x^5 + 16x^3 + 16x^2 - 8$ | $x^{12} - 6x^{10} + 6x^8 + 24x^6 - 45x^4 + 3$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 & 3 \\ & & & & & 3 \\ & & & & & & 1 \end{bmatrix}^6$ | I: 64,211 | $\frac{91}{32}$ |
| $x^{12} - 8x^{10} + 12x^9 - 8x^7 - 4x^6 + 16x^5 + 4x^4 + 16x^2 + 8$ | $x^{12} + 6x^8 - 9x^4 + 3$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 & 3 \\ & & & & & 3 \\ & & & & & & 1 \end{bmatrix}^6$ | I: 64,211 | $\frac{87}{32}$ |
| $x^{12} + 6x^{10} + 16x^9 - 8x^8 + 16x^7 - 4x^6 + 16x^5 - 4x^4 + 8x^2 + 16x + 8$ | $x^{12} + 26x^{10} + 117x^8 + 260x^6 + 247x^4 + 26x^2 - 13$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 & 3 \\ & & & & & 3 \\ & & & & & & 1 \end{bmatrix}^3$ | I: 64,73 | $\frac{91}{32}$ |
| $x^{12} + 26x^{10} - 4x^9 - 24x^8 + 8x^7 + 32x^6 + 8x^5 + 4x^4 + 32x^3 + 16x^2 - 16x + 24$ | $x^{12} - 6x^{10} + 28x^8 - 72x^6 + 67x^4 - 6x^2 - 25$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 & 3 \\ & & & & & 3 \\ & & & & & & 1 \end{bmatrix}^6$ | I: 64,211 | $\frac{91}{32}$ |
| $x^{12} - 4x^{11} + 10x^{10} - 6x^8 - 8x^7 + 12x^6 + 8x^5 + 8x^4 + 16x^2 + 8$ | $x^{12} - 16x^{10} + 81x^8 - 92x^6 + 78x^4 - 312x^2 + 325$ | $\begin{bmatrix} 2 & 3 \\ & 3 \\ & & 1 \end{bmatrix}^6$ | I: 4,2 | 2 |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-----------------|
| $x^{12} - 4x^{11} - 10x^{10} + 16x^9 -$ $6x^8 + 16x^7 + 4x^6 - 8x^5 +$ $16x^4 + 16x^3 + 16x^2 + 8$ | $x^{12} + 13x^8 + 26x^4 + 1$ | $\begin{bmatrix} 2 & 3 \\ & 3 \end{bmatrix}_1^3$ | I: 4,2 | 2 |
| $x^{12} - 12x^{11} - 8x^{10} - 8x^9 -$ $8x^8 + 8x^7 + 12x^6 - 8x^5 -$ $12x^4 + 16x^3 - 8x^2 + 8$ | $x^{12} - 18x^{10} - 242x^8 + 848x^6 - 833x^4 +$ $196x^2 + 49$ | $\begin{bmatrix} 2 & 2 & 2 & 3 \\ & & & 3 \end{bmatrix}_1^6$ | I: 32,27 | $\frac{43}{16}$ |
| $x^{12} + 32x^{11} + 18x^{10} - 28x^9 +$ $12x^8 - 24x^7 + 8x^6 - 24x^5 -$ $20x^4 + 8x^2 + 24$ | $x^{12} + 2x^{10} - 40x^8 - 128x^6 + 125x^4 +$ $570x^2 + 125$ | $\begin{bmatrix} 2 & 2 & 3 & 3 \\ & & & 3 \end{bmatrix}_1^6$ | I: 32,21 | $\frac{45}{16}$ |
| $x^{12} + 12x^{11} - 14x^{10} - 12x^9 +$ $14x^8 - 4x^6 + 16x^5 + 8x^4 +$ $16x^3 + 16x^2 + 16x - 8$ | $x^{12} + 6x^{10} + 3x^8 - 32x^6 - 60x^4 - 30x^2 +$ 1 | $\begin{bmatrix} 2 & 2 & 2 & 3 \\ & & & 3 \end{bmatrix}_1^3$ | I: 32,27 | $\frac{43}{16}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-----------------|
| $x^{12} + 32x^{11} + 10x^{10} + 16x^9 + 18x^8 + 8x^7 - 8x^6 + 16x^5 - 4x^4 - 16x^3 + 24x^2 + 32x + 24$ | $x^{12} + 12x^{10} + 51x^8 + 96x^6 + 90x^4 + 54x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,202 | $\frac{87}{32}$ |
| $x^{12} + 8x^{11} - 6x^{10} - 4x^9 - 6x^8 + 8x^7 - 4x^6 + 8x^5 + 8x^4 + 8x^2 + 8$ | $x^{12} - 14x^{10} + 61x^8 - 92x^6 + 26x^4 + 26x^2 - 13$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,73 | $\frac{91}{32}$ |
| $x^{12} + 24x^{11} - 26x^{10} + 4x^9 - 18x^8 - 8x^7 + 32x^5 + 28x^4 + 16x^3 + 24x^2 - 16x - 24$ | $x^{12} - 8x^{10} + 17x^8 - 18x^6 + 26x^4 - 26x^2 + 13$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 32,51 | $\frac{39}{16}$ |
| $x^{12} + 8x^{11} - 4x^9 - 14x^8 - 12x^6 + 8x^5 + 16x^3 - 8$ | $x^{12} - 48x^8 - 96x^7 - 136x^6 - 216x^5 - 243x^4 - 160x^3 - 60x^2 - 12x - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 32,27 | $\frac{43}{16}$ |
| $x^{12} + 16x^6 + 16x^5 - 4x^4 + 16x - 8$ | $x^{12} - 6x^{10} + 3x^8 - 24x^7 - 42x^6 - 60x^5 - 150x^4 - 208x^3 - 132x^2 - 36x - 3$ | $\left[\begin{array}{cccc} 3 & 3 & 3 & 3 \\ & 3 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_3^6$ | I: 48,50 | $\frac{61}{24}$ |
| $x^{12} + 4x^{11} - 6x^{10} + 4x^9 + 14x^8 - 8x^7 + 16x^3 + 16x^2 - 8$ | $x^{12} - 12x^{10} + 48x^8 - 64x^6 - 13x^4 + 52x^2 + 13$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,211 | $\frac{91}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-----------------|
| $x^{12} - 12x^{11} + 4x^{10} - 12x^9 - 8x^8 + 8x^7 - 12x^6 - 8x^5 + 4x^4 - 8x^2 + 16x - 8$ | $x^{12} - 6x^8 + 9x^4 - 3$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 3 \\ & & 3 \end{array} \right]_1^6$ | I: 16,14 | $\frac{19}{8}$ |
| $x^{12} + 12x^{11} + 12x^9 + 6x^8 + 8x^7 - 12x^6 + 8x^5 - 8x^4 - 8$ | $x^{12} - 6x^{10} + 6x^8 - 4x^6 - 3x^4 + 3$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 3 \\ & & 3 \end{array} \right]_1^3$ | I: 32,27 | $\frac{43}{16}$ |
| $x^{12} + 8x^{11} + 4x^9 + 8x^8 + 8x^7 - 4x^6 + 4x^4 + 8x^2 + 8$ | $x^{12} + 2x^{10} - 52x^8 + 134x^6 - 33x^4 - 108x^2 - 27$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 3 \\ & & 3 \end{array} \right]_1^6$ | I: 64,202 | $\frac{91}{32}$ |
| $x^{12} - 8x^{11} + 4x^{10} - 4x^9 + 4x^8 + 16x^7 + 4x^6 + 16x^5 + 12x^4 + 16x^3 - 8x^2 + 16x - 8$ | $x^{12} - 21x^8 + 50x^6 - 36x^4 + 6x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 3 \\ & & 3 \end{array} \right]_1^3$ | I: 64,202 | $\frac{91}{32}$ |
| $x^{12} - 4x^{11} - 28x^{10} + 24x^9 - 20x^8 + 16x^7 - 24x^6 - 8x^5 - 4x^4 + 16x^3 + 24x^2 + 24$ | $x^{12} - 26x^{10} - 104x^8 - 26x^6 - 65x^4 - 104x^2 - 13$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 3 \\ & & 3 \end{array} \right]_1^3$ | I: 64,73 | $\frac{91}{32}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-----------------|
| $x^{12} - 12x^{11} - 6x^{10} - 12x^9 +$ $12x^8 - 8x^5 + 12x^4 + 16x^3 +$ $16x^2 - 8$ | $x^{12} + 18x^{10} - 77x^8 - 80x^6 + 220x^4 +$ $200x^2 + 25$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 2 & 3 \\ & & 3 \end{array} \right]_1^3$ | I: 16,2 | $\frac{21}{8}$ |
| $x^{12} - 8x^{11} + 16x^9 - 2x^8 +$ $16x^7 - 8x^6 + 8x^5 + 16x^4 -$ $8x^2 + 8$ | $x^{12} - 2x^{10} - 6x^8 - 4x^6 + 3x^4 - 4x^2 - 1$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 2 & 3 \\ & & 3 \end{array} \right]_1^3$ | I: 64,211 | $\frac{91}{32}$ |
| $x^{12} + 12x^{11} - 10x^{10} + 10x^8 +$ $4x^6 + 16x^4 + 16x^3 + 16x^2 +$ $16x + 8$ | $x^{12} - 10x^{10} - 36x^8 + 378x^6 - x^4 -$ $3524x^2 + 5041$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 2 & 3 \\ & & 3 \end{array} \right]_1^3$ | I: 64,202 | $\frac{91}{32}$ |
| $x^{12} - 12x^{11} - 14x^{10} + 4x^9 -$ $10x^8 + 16x^7 - 8x^6 - 8x^4 +$ $16x^3 + 16x - 8$ | $x^{12} - 48x^8 - 96x^7 - 8x^6 + 168x^5 +$ $237x^4 + 160x^3 + 60x^2 + 12x + 1$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 2 \\ & & 3 \end{array} \right]_1^3$ | I: 64,73 | $\frac{89}{32}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-----------------|
| $x^{12} + 16x^{11} - 10x^{10} - 4x^9 -$ $4x^8 - 12x^6 - 8x^5 + 12x^4 +$ $16x^2 + 8$ | $x^{12} - 2x^{10} - 7x^8 + 2x^6 + 14x^4 + 6x^2 - 1$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & 3 \\ & & & & 3 \\ & & & & & 1 \end{bmatrix}$ | I: 64,73 | $\frac{91}{32}$ |
| $x^{12} + 8x^{11} - 4x^{10} + 12x^9 -$ $2x^8 + 8x^7 + 16x^4 + 16x^3 -$ $8x^2 - 8$ | $x^{12} + 18x^{10} - 40x^8 - 130x^6 + 97x^4 +$ $50x^2 + 5$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & 3 \\ & & & & 6 \\ & & & & & 1 \end{bmatrix}$ | I: 32,21 | $\frac{43}{16}$ |
| $x^{12} + 16x^{11} + 14x^{10} + 16x^9 -$ $8x^8 - 8x^7 - 8x^5 + 12x^4 +$ $16x^3 + 8$ | $x^{12} - 6x^{10} + 25x^8 - 60x^6 + 78x^4 -$ $52x^2 + 13$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 \\ & & & & 6 \\ & & & & & 1 \end{bmatrix}$ | I: 32,51 | $\frac{39}{16}$ |
| $x^{12} + 4x^{11} - 2x^{10} - 12x^9 +$ $6x^8 + 16x^7 - 8x^6 + 8x^5 +$ $16x^4 + 16x^3 + 8x^2 + 16x + 8$ | $x^{12} + 6x^{10} + 6x^8 + 4x^6 - 3x^4 + 3$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & 3 \\ & & & & 6 \\ & & & & & 1 \end{bmatrix}$ | I: 32,27 | $\frac{43}{16}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-----------------|
| $x^{12} + 12x^{11} - 4x^{10} + 12x^9 +$ $6x^8 + 16x^6 + 8x^5 + 16x^4 +$ $16x^3 - 8x^2 + 16x + 8$ | $x^{12} - 24x^{10} + 254x^8 - 1364x^6 +$ $3945x^4 - 5850x^2 + 3375$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 64,202 | $\frac{91}{32}$ |
| $x^{12} + 8x^{11} + 4x^{10} - 8x^9 + 8x^8 -$ $12x^6 - 8x^5 - 4x^4 + 16x + 8$ | $x^{12} - 6x^{10} + 15x^8 - 20x^6 + 12x^4 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 32,21 | $\frac{43}{16}$ |
| $x^{12} - 8x^{11} - 4x^{10} + 16x^9 +$ $4x^8 - 8x^7 - 8x^6 + 12x^4 +$ $16x^3 + 8x^2 + 16x - 8$ | $x^{12} + 26x^{10} + 117x^8 + 208x^6 + 182x^4 +$ $78x^2 + 13$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^6$ | I: 64,267 | $\frac{79}{32}$ |
| $x^{12} + 28x^{11} + 18x^{10} + 16x^9 +$ $24x^7 - 12x^6 - 16x^5 + 20x^4 +$ $16x^3 - 8x^2 - 16x + 24$ | $x^{12} + 6x^{10} + 18x^8 + 32x^6 + 27x^4 +$ $6x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 64,73 | $\frac{91}{32}$ |
| $x^{12} + 36x^{11} + 42x^{10} + 24x^9 -$ $62x^8 - 40x^7 - 56x^6 + 16x^5 +$ $28x^4 + 24x^2 + 32x - 40$ | $x^{12} - 6x^{10} + 6x^8 + 6x^6 - 27x^4 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,202 | $\frac{91}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-----------------|
| $x^{12} - 28x^{11} + 2x^{10} - 20x^9 + 4x^8 + 32x^7 + 20x^6 + 32x^5 - 12x^4 - 16x^3 - 16x^2 + 24$ | $x^{12} - 18x^8 + 18x^6 + 153x^4 + 108x^2 + 9$ | $\begin{bmatrix} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & 3 \\ & & & 3 \end{bmatrix}_1^3$ | I: 16,14 | $\frac{19}{8}$ |
| $x^{12} + 60x^{11} + 12x^{10} + 60x^9 - 38x^8 - 56x^7 + 56x^6 + 64x^5 + 36x^4 - 32x^3 - 48x^2 - 48x + 40$ | $x^{12} - 9x^8 + 18x^4 + 9$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & 3 \\ & & & 3 & 3 \\ & & & 3 & 3 \\ & & & 3 & 3 \end{bmatrix}_1^3$ | I: 64,211 | $\frac{91}{32}$ |
| $x^{12} - 8x^{11} + 16x^{10} - 4x^9 - 4x^8 - 8x^7 - 12x^6 + 8x^5 - 12x^4 + 16x - 8$ | $x^{12} + 6x^{10} + 12x^8 + 8x^6 - 13x^4 - 26x^2 - 13$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & 3 \\ & & & 3 & 3 \\ & & & 3 & 3 \\ & & & 3 & 3 \end{bmatrix}_1^3$ | I: 64,211 | $\frac{91}{32}$ |
| $x^{12} + 12x^{11} + 6x^{10} - 28x^9 - 28x^8 - 24x^7 + 12x^6 + 16x^5 + 4x^4 + 32x^3 + 16x^2 - 24$ | $x^{12} - 18x^{10} + 123x^8 - 428x^6 + 819x^4 - 834x^2 + 361$ | $\begin{bmatrix} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & 3 \\ & & & 3 \end{bmatrix}_1^3$ | I: 16,14 | $\frac{19}{8}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} + 16x^{11} - 4x^{10} + 16x^8 - 8x^7 - 12x^6 + 8x^5 + 4x^4 + 16x^3 + 8x^2 - 8$ | $x^{12} - 15x^8 + 2x^6 + 36x^4 + 12x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 3 \\ & & 3 \end{array} \right]_1^6$ | I: 32,27 | $\frac{43}{16}$ |
| $x^{12} - 12x^{11} + 4x^9 + 8x^7 - 4x^6 - 8x^5 + 4x^4 - 8x^2 + 8$ | $x^{12} - 2x^{10} - 24x^8 + 20x^6 + 51x^4 - 18x^2 - 27$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 3 \\ & & 3 \end{array} \right]_1^6$ | I: 64,202 | $\frac{87}{32}$ |
| $x^{12} + 24x^{11} + 8x^{10} - 44x^9 - 14x^8 - 16x^6 - 48x^5 + 28x^4 - 32x^3 + 64x^2 + 16x + 56$ | $x^{12} - 24x^{10} - 24x^9 + 96x^8 + 168x^7 + 62x^6 - 168x^5 - 405x^4 - 128x^3 + 294x^2 + 252x + 57$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 3 \\ & & 3 \end{array} \right]_3^6$ | I: 192,1541 | $\frac{253}{96}$ |
| $x^{12} - 4x^{10} + 4x^9 - 2x^8 + 8x^6 + 8x^2 + 8$ | $x^{12} + 6x^{10} + 15x^8 + 20x^6 + 12x^4 - 3$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 3 \\ & & 3 \end{array} \right]_1^6$ | I: 16,2 | $\frac{21}{8}$ |
| $x^{12} + 4x^{11} + 6x^{10} - 4x^9 - 6x^8 + 8x^7 + 8x^6 + 8x^4 + 8x^2 + 8$ | $x^{12} - 6x^{10} - 3x^8 + 8x^6 + 12x^4 + 6x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 3 \\ & & 3 \end{array} \right]_1^6$ | I: 32,21 | $\frac{45}{16}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-------------|------------------|
| $x^{12} + 20x^{11} - 12x^{10} - 12x^9 +$ $10x^8 + 8x^6 + 16x^5 - 28x^4 +$ $16x^3 + 16x^2 - 16x - 24$ | $x^{12} - 2x^{10} - 16x^8 + 18x^6 - 13x^4 +$ $26x^2 - 13$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 5 & 3 & 3 \\ & & & 6 \\ & & & & 1 \end{array} \right]_1^6$ | I: 64,73 | $\frac{89}{32}$ |
| $x^{12} - 12x^{11} + 10x^{10} + 4x^9 -$ $12x^8 + 16x^7 + 4x^6 - 12x^4 +$ $16x^3 - 8x^2 - 8$ | $x^{12} - 12x^{10} + 39x^8 - 60x^6 + 27x^4 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 3 & 3 \\ & & & 6 \\ & & & & 1 \end{array} \right]_1^6$ | I: 64,211 | $\frac{87}{32}$ |
| $x^{12} - 12x^{11} + 8x^{10} - 14x^8 +$ $16x^7 + 16x^6 + 16x^4 + 16x^3 +$ $8x^2 + 16x - 8$ | $x^{12} - 6x^{10} + 26x^8 - 64x^6 + 77x^4 -$ $42x^2 + 7$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & & 3 \\ & & & & 1 \end{array} \right]_1^3$ | I: 32,27 | $\frac{43}{16}$ |
| $x^{12} - 12x^{11} - 12x^{10} + 4x^9 +$ $12x^8 - 8x^7 - 12x^4 + 16x^3 +$ $16x^2 + 16x - 8$ | $x^{12} - 78x^{10} - 268x^9 + 747x^8 +$ $16140x^7 + 13934x^6 + 18108x^5 +$ $173856x^4 - 124636x^3 - 111288x^2 +$ $106536x - 21691$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \\ & 8 & 8 & 8 \\ & & & 6 \\ & & & & 3 \end{array} \right]_3^6$ | I: 192,1541 | $\frac{247}{96}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-----------------|
| $x^{12} + 16x^{11} + 4x^{10} - 8x^9 - 2x^8 - 8x^7 - 4x^6 - 8x^5 - 8x^4 + 16x^2 + 16x - 8$ | $x^{12} - 6x^{10} + 3x^8 - 16x^6 - 33x^4 - 18x^2 - 3$ | $\begin{bmatrix} 2 & 2 & 3 & 3 \\ & & & 3 \\ & & & & 1 \end{bmatrix}_1^6$ | I: 32,21 | $\frac{45}{16}$ |
| $x^{12} + 24x^{11} - 106x^{10} - 36x^9 + 22x^8 - 112x^7 - 112x^6 + 16x^5 + 100x^4 - 96x^3 - 8x^2 + 16x - 104$ | $x^{12} - 6x^{10} + 3x^8 + 24x^6 - 9x^4 - 18x^2 - 3$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 & 3 \\ & & & & & 3 \\ & & & & & & 1 \end{bmatrix}_1^6$ | I: 64,202 | $\frac{87}{32}$ |
| $x^{12} - 4x^{11} + 2x^{10} + 4x^9 + 16x^8 + 16x^7 - 4x^6 - 8x^5 - 12x^4 + 8x^2 + 8$ | $x^{12} - 26x^{10} + 143x^8 - 260x^6 + 442x^2 - 325$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 & 3 \\ & & & & 2 & 3 \\ & & & & & & 1 \end{bmatrix}_1^3$ | I: 64,73 | $\frac{89}{32}$ |
| $x^{12} - 8x^9 - 2x^8 + 8x^7 - 8x^5 + 16x^3 - 8x^2 + 16x + 8$ | $x^{12} - 4x^{10} - x^8 - x^4 - 4x^2 + 1$ | $\begin{bmatrix} 2 & 2 & 3 \\ & & & 3 \\ & & & & 1 \end{bmatrix}_1^3$ | I: 8,5 | $\frac{9}{4}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-----------------|
| $x^{12} + 32x^{11} - 4x^{10} + 20x^9 - 26x^8 + 8x^7 + 12x^6 - 16x^5 - 8x^4 + 16x^3 - 24x^2 - 24$ | $x^{12} + 2x^{10} - 7x^8 - 2x^6 + 14x^4 - 6x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 64,73 | $\frac{91}{32}$ |
| $x^{12} + 12x^{11} + 22x^{10} + 28x^9 - 12x^8 - 24x^7 + 4x^6 + 32x^5 - 28x^4 + 32x^3 + 16x^2 + 24$ | $x^{12} + 6x^{10} + 18x^8 + 32x^6 + 29x^4 + 10x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 16,14 | $\frac{19}{8}$ |
| $x^{12} + 16x^{11} - 14x^{10} - 12x^9 - 4x^8 + 8x^7 - 4x^6 + 8x^5 + 4x^4 + 8x^2 + 16x + 8$ | $x^{12} + 2x^{10} - 16x^8 - 18x^6 - 13x^4 - 26x^2 - 13$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 5 \\ & 2 & 2 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,73 | $\frac{89}{32}$ |
| $x^{12} + 16x^{11} + 2x^{10} - 8x^9 + 2x^8 + 8x^7 - 4x^6 + 16x^5 - 8x^4 + 16x + 8$ | $x^{12} + 16x^{10} + 67x^8 - 34x^6 - 516x^4 - 234x^2 - 27$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,202 | $\frac{91}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-------------|------------------|
| $x^{12} - 8x^{11} + 12x^{10} - 12x^9 - 4x^8 - 8x^7 - 12x^6 - 8x^5 - 4x^4 + 16x^3 - 8x^2 - 8$ | $x^{12} + 6x^{10} + 3x^8 - 24x^6 - 36x^4 - 18x^2 - 3$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 2 & 3 & 3 \\ & & & & & & 1 \end{array} \right]_1^6$ | I: 64,202 | $\frac{87}{32}$ |
| $x^{12} + 12x^{11} + 10x^{10} - 8x^9 + 2x^8 - 12x^6 + 8x^4 + 16x^3 + 8x^2 + 16x - 8$ | $x^{12} - 39x^8 + 156x^6 - 182x^4 + 26x^2 + 13$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 2 & 2 & 3 \\ & & & & & & 1 \end{array} \right]_1^6$ | I: 64,267 | $\frac{79}{32}$ |
| $x^{12} - 8x^{11} - 12x^{10} - 12x^9 - 6x^8 - 8x^7 - 4x^6 - 8$ | $x^{12} + 6x^{10} + 18x^8 + 30x^6 + 81x^4 + 162x^2 + 81$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & & 1 \end{array} \right]_1^3$ | I: 8,5 | $\frac{9}{4}$ |
| $x^{12} + 20x^{10} - 4x^9 + 2x^8 - 16x^7 + 48x^5 + 60x^4 - 32x^3 + 48x^2 + 48x + 56$ | $x^{12} - 24x^{10} - 320x^9 + 18x^8 + 2580x^7 + 2598x^6 - 4032x^5 - 5985x^4 + 1764x^3 + 4410x^2 - 1029$ | $\left[\begin{array}{ccccccc} 3 & 3 & 3 & 3 & 3 & 3 & 3 \\ & & & & & & 3 \end{array} \right]_3^6$ | I: 192,1541 | $\frac{253}{96}$ |
| $x^{12} + 8x^{11} - 14x^{10} + 16x^9 + 4x^8 - 4x^6 - 8x^5 - 12x^4 - 8x^2 + 16x - 8$ | $x^{12} - 6x^{10} - 24x^8 + 214x^6 - 297x^4 - 188x^2 - 25$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 3 & 3 & 3 \\ & & & & & & 1 \end{array} \right]_1^6$ | I: 64,73 | $\frac{91}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-----------------|
| $x^{12} - 8x^{11} + 4x^{10} - 12x^9 + 14x^8 - 8x^6 + 16x^4 - 8x^2 + 16x - 8$ | $x^{12} - 9x^8 - 26x^6 - 18x^4 + 1$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 & 3 \\ & & & & & 1 \end{bmatrix}^6$ | I: 32,21 | $\frac{45}{16}$ |
| $x^{12} + 12x^{11} - 14x^{10} + 12x^9 + 10x^8 + 16x^7 + 8x^6 + 8x^5 - 8x^4 + 16x^2 + 16x - 8$ | $x^{12} - 39x^8 + 286x^6 - 624x^4 + 364x^2 - 13$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 & 3 \\ & & & & & 1 \end{bmatrix}^3$ | I: 64,73 | $\frac{91}{32}$ |
| $x^{12} + 48x^{11} + 22x^{10} + 12x^9 - 6x^8 + 32x^7 - 48x^6 + 32x^5 - 12x^4 - 40x^2 + 48x - 56$ | $x^{12} + 9x^8 + 18x^4 + 9$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 \\ & & & & 1 \end{bmatrix}^3$ | I: 16,14 | $\frac{19}{8}$ |
| $x^{12} - 8x^{11} + 8x^{10} + 16x^9 + 4x^8 + 8x^7 - 12x^6 + 8x^5 + 12x^4 + 16x^3 + 16x - 8$ | $x^{12} - 6x^{10} - 3x^8 + 26x^6 - 24x^4 + 6x^2 + 1$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 & 3 \\ & & & & & 1 \end{bmatrix}^6$ | I: 32,21 | $\frac{43}{16}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-----------------|
| $x^{12} - 22x^{10} - 16x^9 - 28x^8 - 16x^7 + 16x^6 + 32x^5 - 12x^4 + 24x^2 + 16x - 24$ | $x^{12} + 12x^{10} + 42x^8 + 60x^6 + 45x^4 + 18x^2 + 3$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 2 & 3 & 3 & 3 \\ & & & & & & 1 \end{array} \right]_1^6$ | I: 64,202 | $\frac{91}{32}$ |
| $x^{12} + 8x^{11} - 14x^{10} + 4x^9 + 16x^8 - 4x^6 + 8x^5 + 4x^4 + 16x^2 - 8$ | $x^{12} + 6x^{10} - 24x^8 - 214x^6 - 297x^4 + 188x^2 - 25$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 2 & 3 & 3 & 3 \\ & & & & & & 1 \end{array} \right]_1^6$ | I: 64,73 | $\frac{91}{32}$ |
| $x^{12} - 24x^{11} + 30x^{10} + 12x^9 - 28x^8 + 8x^5 - 20x^4 + 16x^3 + 8x^2 - 16x - 24$ | $x^{12} - 6x^{10} - 3x^8 + 24x^6 - 9x^4 - 18x^2 + 3$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 2 & 3 & 3 & 3 \\ & & & & & & 1 \end{array} \right]_1^6$ | I: 64,211 | $\frac{91}{32}$ |
| $x^{12} + 12x^{11} + 10x^{10} + 4x^9 - 10x^8 + 16x^7 - 8x^5 + 8x^4 + 8x^2 - 8$ | $x^{12} + 6x^{10} + 6x^8 - 6x^6 - 27x^4 + 3$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 2 & 3 & 3 & 3 \\ & & & & & & 1 \end{array} \right]_1^6$ | I: 64,202 | $\frac{91}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-----------------|
| $x^{12} + 24x^{11} + 6x^{10} + 4x^9 +$ $12x^8 - 8x^6 - 8x^5 - 20x^4 -$ $16x^3 - 24x^2 - 24$ | $x^{12} - 6x^{10} - 29x^8 + 208x^6 - 297x^4 +$ $110x^2 + 5$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ 2 & 3 & 3 \\ 3 & & \end{array} \right]_1^6$ | I: 32,21 | $\frac{45}{16}$ |
| $x^{12} + 8x^{11} + 32x^{10} - 92x^9 -$ $70x^8 + 96x^7 + 80x^6 + 112x^5 +$ $76x^4 + 96x^3 - 32x^2 - 112x +$ 120 | $x^{12} - 30x^{10} - 16x^9 + 203x^8 + 96x^7 -$ $230x^6 - 164x^5 + 38x^4 + 40x^3 - 20x^2 -$ $8x - 1$ | $\left[\begin{array}{ccc} 8 & & \\ 3 & 8 & \\ & 3 & 3 \end{array} \right]_3^6$ | I: 12,3 | $\frac{13}{6}$ |
| $x^{12} - 4x^{11} + 6x^{10} + 4x^9 - 2x^8 +$ $8x^5 + 8x^4 + 8$ | $x^{12} - 27x^8 + 90x^6 - 90x^4 + 9$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ 2 & 2 & 3 \\ 3 & & \end{array} \right]_1^3$ | I: 16,14 | $\frac{19}{8}$ |
| $x^{12} + 16x^{11} + 12x^{10} - 4x^9 -$ $2x^8 + 12x^6 + 16x^5 + 8x^4 +$ $16x^3 - 8x^2 + 16x - 8$ | $x^{12} - x^8 - 2x^4 + 1$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ 2 & 2 & 3 \\ 3 & 3 & 3 \end{array} \right]_1^3$ | I: 64,211 | $\frac{91}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-------------|------------------|
| $x^{12} - 4x^{11} + 16x^{10} - 4x^9 -$ $10x^8 + 8x^7 + 8x^6 - 8x^4 - 8x^2 -$ $80x^2 + 5$ 8 | $x^{12} - 24x^{10} + 151x^8 - 376x^6 + 363x^4 -$ $80x^2 + 5$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 32,21 | $\frac{43}{16}$ |
| $x^{12} + 10x^{10} + 6x^8 + 8x^7 +$ $16x^6 + 8x^4 + 16x^3 + 16x^2 +$ $16x - 8$ | $x^{12} + 4x^{10} - 6x^8 - 4x^6 + 11x^4 - 6x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 32,34 | $\frac{43}{16}$ |
| $x^{12} + 8x^{11} - 2x^{10} - 4x^9 + 8x^6 -$ $12x^4 + 16x^3 - 8x^2 + 16x + 8$ | $x^{12} - 9x^4 - 9$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 32,34 | $\frac{43}{16}$ |
| $x^{12} + 8x^{10} + 12x^9 - 12x^8 +$ $8x^5 + 12x^4 + 16x^3 + 16x^2 - 8$ | $x^{12} - 78x^{10} - 196x^9 + 1797x^8 +$ $9240x^7 + 1682x^6 - 83928x^5 -$ $235476x^4 - 243580x^3 - 10968x^2 +$ $158472x + 84561$ | $\left[\begin{array}{cccc} 3 & 3 & 3 & 3 \\ & 3 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_3^6$ | I: 192,1541 | $\frac{253}{96}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-----------------|
| $x^{12} - 12x^{11} + 6x^{10} + 8x^9 + 2x^8 - 16x^7 + 24x^6 + 32x^5 + 12x^4 - 16x^3 + 8x^2 - 8$ | $x^{12} - 3x^8 - 9x^4 + 3$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 & 3 \\ & & & & & 1 \end{bmatrix}^6$ | I: 64,211 | $\frac{87}{32}$ |
| $x^{12} + 12x^{11} - 6x^{10} + 12x^9 + 8x^8 - 8x^7 + 16x^5 - 12x^4 + 16x^3 + 16x^2 + 16x + 8$ | $x^{12} - 18x^{10} + 54x^8 + 432x^6 - 1539x^4 - 2430x^2 - 729$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 & 3 \\ & & & & & 1 \end{bmatrix}^6$ | I: 64,202 | $\frac{87}{32}$ |
| $x^{12} - 24x^{11} - 10x^{10} - 24x^9 - 10x^8 + 32x^7 - 24x^6 + 16x^5 - 16x^4 + 32x^3 + 32x^2 + 16x - 24$ | $x^{12} + 2x^{10} - 16x^8 + 34x^6 - 13x^4 - 26x^2 + 13$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 & 3 \\ & & & & & 1 \end{bmatrix}^6$ | I: 64,211 | $\frac{87}{32}$ |
| $x^{12} + 16x^{11} + 12x^9 - 12x^8 + 16x^7 + 4x^6 - 8x^5 - 4x^4 + 16x^3 + 16x - 8$ | $x^{12} - 12x^{10} + 33x^8 - 24x^6 - 18x^4 + 18x^2 + 3$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & 3 & 3 \\ & & & & & 1 \end{bmatrix}^6$ | I: 64,211 | $\frac{91}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-----------------|
| $x^{12} - 4x^{11} - 30x^{10} + 28x^9 +$ $10x^8 + 32x^7 + 20x^6 + 32x^5 +$ $24x^4 + 16x^2 + 24$ | $x^{12} - 6x^{10} + 3x^8 + 32x^6 - 60x^4 + 30x^2 +$ 1 | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 32,27 | $\frac{43}{16}$ |
| $x^{12} + 12x^{11} + 12x^{10} - 4x^9 +$ $6x^8 + 8x^7 + 12x^6 + 8x^5 +$ $16x^4 - 8$ | $x^{12} - 12x^{10} + 51x^8 - 96x^6 + 90x^4 -$ $54x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,202 | $\frac{87}{32}$ |
| $x^{12} - 12x^{11} + 16x^{10} + 4x^9 +$ $16x^7 - 4x^4 + 16x^3 + 8x^2 +$ $16x + 8$ | $x^{12} - 2x^{10} - 5x^8 + 18x^6 - 12x^4 - 2x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 32,34 | $\frac{43}{16}$ |
| $x^{12} + 4x^{11} - 4x^{10} - 12x^9 +$ $14x^8 + 16x^7 + 16x^6 - 8x^5 +$ $8x^2 - 8$ | $x^{12} - 12x^{10} + 60x^8 - 160x^6 + 149x^4 +$ $172x^2 - 625$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,211 | $\frac{87}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-----------------|
| $x^{12} + 14x^{10} - 14x^8 + 16x^7 + 4x^6 + 16x^5 + 16x^3 + 8x^2 + 16x - 8$ | $x^{12} - 12x^{10} + 9x^8 + 14x^6 - 26x^4 + 13$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 3 \\ & & & & & 1 \end{bmatrix}^6$ | I: 64,267 | $\frac{79}{32}$ |
| $x^{12} - 12x^{11} + 4x^{10} - 4x^9 - 6x^8 + 4x^6 - 8x^5 + 16x^4 + 16x^3 - 8x^2 + 16x - 8$ | $x^{12} - 2x^{10} - 5x^8 + 4x^6 - 5x^4 - 2x^2 + 1$ | $\begin{bmatrix} 2 & 2 & 2 & 3 \\ & & & 1 \end{bmatrix}^3$ | I: 16,14 | $\frac{19}{8}$ |
| $x^{12} + 20x^{11} - 12x^{10} + 20x^9 - 30x^8 + 16x^7 - 16x^6 - 16x^5 - 12x^4 - 16x^3 + 32x^2 - 16x + 8$ | $x^{12} - 6x^{10} + 9x^8 + 4x^6 - 18x^4 + 12x^2 - 1$ | $\begin{bmatrix} 2 & 2 & 2 & \frac{5}{2} & 3 & 3 \\ & & & & & 1 \end{bmatrix}^3$ | I: 64,73 | $\frac{89}{32}$ |
| $x^{12} + 24x^{11} + 2x^{10} - 16x^9 - 10x^8 + 24x^7 - 28x^6 + 16x^5 + 16x^4 - 24x^2 - 16x - 24$ | $x^{12} - 6x^{10} + 18x^8 - 32x^6 + 33x^4 - 18x^2 + 1$ | $\begin{bmatrix} 2 & 2 & 2 & 3 \\ & & & 1 \end{bmatrix}^3$ | I: 16,14 | $\frac{19}{8}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-----------------|
| $x^{12} - 4x^{11} + 14x^{10} - 8x^9 + 6x^8 + 16x^7 - 8x^6 + 8x^5 + 16x^4 - 8x^2 + 16x - 8$ | $x^{12} + 6x^{10} - 6x^8 - 2x^6 + 3x^4 - 3$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & 3 \\ & & & & 1 \end{bmatrix}^6$ | I: 32,21 | $\frac{43}{16}$ |
| $x^{12} + 12x^{11} + 8x^{10} + 14x^8 - 8x^7 - 4x^6 + 8x^5 - 8x^4 + 8$ | $x^{12} - 6x^{10} - 3x^8 + 24x^6 + 36x^4 + 18x^2 + 3$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & 3 \\ & & & & 1 \end{bmatrix}^6$ | I: 64,211 | $\frac{91}{32}$ |
| $x^{12} + 8x^{11} - 8x^{10} + 12x^9 + 16x^8 + 16x^7 - 12x^6 + 8x^5 + 12x^4 + 16x^3 - 8x^2 + 8$ | $x^{12} + 10x^{10} + 30x^8 + 20x^6 - 45x^4 - 72x^2 - 27$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 & 3 \\ & & & & & 1 \end{bmatrix}^6$ | I: 64,202 | $\frac{87}{32}$ |
| $x^{12} + 32x^{11} - 30x^{10} + 8x^9 + 8x^8 + 16x^7 + 32x^6 - 8x^5 - 12x^4 - 16x^3 - 16x^2 + 16x + 24$ | $x^{12} - 2x^{10} - 40x^8 + 128x^6 + 125x^4 - 570x^2 + 125$ | $\begin{bmatrix} 2 & 2 & 3 & 3 & 3 \\ & & & & 1 \end{bmatrix}^6$ | I: 32,21 | $\frac{45}{16}$ |
| $x^{12} + 8x^{11} - 12x^{10} - 12x^9 + 4x^8 + 16x^7 - 12x^6 + 16x^5 + 4x^4 + 16x^2 - 8$ | $x^{12} + 12x^{10} + 48x^8 + 64x^6 - 91x^4 - 364x^2 - 325$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & 3 \\ & & & & 1 \end{bmatrix}^3$ | I: 32,34 | $\frac{43}{16}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-----------------|
| $x^{12} + 24x^{11} + 20x^{10} + 16x^9 +$ $12x^8 - 16x^7 - 24x^6 - 24x^5 -$ $12x^4 + 8x^2 + 32x + 24$ | $x^{12} - 14x^{10} + 61x^8 - 66x^6 - 182x^4 +$ $494x^2 - 325$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,73 | $\frac{91}{32}$ |
| $x^{12} - 12x^{11} + 8x^{10} - 4x^9 -$ $6x^8 - 24x^7 + 24x^6 - 16x^5 +$ $20x^4 + 16x - 24$ | $x^{12} + 6x^{10} - 50x^8 + 98x^6 - 89x^4 +$ $58x^2 - 25$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,73 | $\frac{91}{32}$ |
| $x^{12} - 12x^{11} - 4x^{10} - 12x^9 +$ $6x^8 + 4x^6 + 16x^5 + 16x^3 -$ $8x^2 + 16x + 8$ | $x^{12} + 3x^8 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,211 | $\frac{91}{32}$ |
| $x^{12} - 8x^{11} - 4x^{10} - 4x^8 +$ $16x^7 + 12x^6 + 8x^5 + 4x^4 - 8$ | $x^{12} - 4x^{11} - 60x^{10} + 380x^9 + 676x^8 -$ $10660x^7 + 17984x^6 + 89760x^5 -$ $377389x^4 + 203940x^3 + 1281430x^2 -$ $2592164x + 1504541$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 32,21 | $\frac{45}{16}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-----------------|
| $x^{12} + 20x^{11} - 54x^{10} - 60x^9 +$ $106x^8 + 64x^7 + 96x^6 + 96x^5 +$ $36x^4 + 80x^3 - 88x^2 + 80x +$ 104 | $x^{12} + 2x^{10} - 10x^8 - 20x^6 - 5x^4 + 4x^2 + 1$ | $\begin{bmatrix} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{bmatrix}_1^3$ | I: 32,27 | $\frac{43}{16}$ |
| $x^{12} - 8x^{11} + 2x^{10} + 16x^9 +$ $16x^8 + 8x^7 + 8x^6 + 16x^5 -$ $12x^4 + 16x + 8$ | $x^{12} + 12x^{10} + 60x^8 + 160x^6 + 149x^4 -$ $172x^2 - 625$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 & 3 \\ & 2 & 2 & 2 & 3 & 3 \\ & & 2 & 2 & 3 & 3 \\ & & & 2 & 3 & 3 \\ & & & & 2 & 3 \\ & & & & & 3 \end{bmatrix}_1^6$ | I: 64,211 | $\frac{87}{32}$ |
| $x^{12} + 60x^{11} + 2x^{10} + 64x^9 +$ $54x^8 + 8x^7 + 24x^6 + 60x^4 -$ $8x^2 + 40$ | $x^{12} + 12x^{10} - 81x^8 - 324x^6 + 1782x^4 -$ $1458x^2 - 729$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 & 3 \\ & 2 & 2 & 2 & 3 & 3 \\ & & 2 & 2 & 3 & 3 \\ & & & 2 & 3 & 3 \\ & & & & 2 & 3 \\ & & & & & 3 \end{bmatrix}_1^6$ | I: 64,202 | $\frac{87}{32}$ |
| $x^{12} - 12x^{11} + 2x^{10} - 4x^9 +$ $2x^8 + 16x^6 + 8x^4 + 16x^3 +$ $8x^2 + 8$ | $x^{12} - 9x^8 + 26x^6 - 18x^4 + 1$ | $\begin{bmatrix} 2 & 2 & 3 & 3 & 3 \\ & 2 & 2 & 3 & 3 \\ & & 2 & 3 & 3 \\ & & & 2 & 3 \\ & & & & 2 \end{bmatrix}_1^6$ | I: 32,21 | $\frac{45}{16}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-----------------|
| $x^{12} + 4x^{11} + 2x^{10} + 4x^9 +$ $14x^8 + 8x^7 + 16x^6 - 4x^4 +$ $8x^2 + 16x + 8$ | $x^{12} - 30x^{10} + 352x^8 - 2040x^6 +$ $6045x^4 - 8450x^2 + 4225$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & & 3 \\ & & & & 1 \end{array} \right]$ | I: 32,21 | $\frac{45}{16}$ |
| $x^{12} - 8x^{11} + 8x^{10} + 4x^9 +$ $10x^8 + 8x^7 - 4x^6 - 8x^5 +$ $16x^3 + 8$ | $x^{12} - 30x^8 - 90x^6 - 99x^4 - 36x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & & 1 \end{array} \right]^6$ | I: 64,202 | $\frac{87}{32}$ |
| $x^{12} + 40x^{11} + 44x^{10} + 16x^9 +$ $42x^8 + 48x^7 - 12x^4 - 32x + 40$ | $x^{12} + 10x^{10} + 29x^8 + 12x^6 - 65x^4 -$ $78x^2 - 13$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & & 1 \end{array} \right]^6$ | I: 64,73 | $\frac{91}{32}$ |
| $x^{12} + 12x^{11} + 4x^{10} - 16x^9 +$ $30x^8 + 16x^7 + 16x^6 + 16x^5 +$ $8x^4 - 24x^2 + 16x - 24$ | $x^{12} - 10x^{10} - 267x^8 - 1652x^6 -$ $4005x^4 - 2250x^2 + 3375$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & & 1 \end{array} \right]^6$ | I: 32,27 | $\frac{43}{16}$ |
| $x^{12} + 32x^{11} - 38x^{10} - 48x^9 -$ $18x^8 + 40x^7 + 16x^6 - 32x^5 -$ $36x^4 - 48x^3 + 8x^2 - 32x - 56$ | $x^{12} + 12x^{10} + 51x^8 + 86x^6 + 42x^4 +$ $18x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & & 1 \end{array} \right]^3$ | I: 64,202 | $\frac{91}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-----------------|
| $x^{12} - 8x^{11} + 2x^{10} - 12x^9 + 10x^8 + 16x^7 - 4x^6 - 8x^5 - 8x^4 - 8$ | $x^{12} - 6x^{10} + 3x^8 + 42x^6 - 90x^4 + 54x^2 - 3$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ 2 & 3 & 3 \\ & & 3 \end{array} \right]_1^6$ | I: 64,202 | $\frac{91}{32}$ |
| $x^{12} + 8x^9 - 14x^8 + 4x^6 - 8x^5 + 8x^4 + 16x^2 + 8$ | $x^{12} - 6x^{10} + 9x^8 + 24x^6 - 108x^4 + 162x^2 - 81$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ 2 & 3 & 3 \\ & & 3 \end{array} \right]_1^3$ | I: 64,211 | $\frac{91}{32}$ |
| $x^{12} + 24x^{11} - 14x^{10} - 24x^9 + 24x^8 + 32x^7 - 4x^6 - 16x^5 + 28x^4 + 16x^3 + 24x^2 - 16x + 24$ | $x^{12} - 10x^{10} + 29x^8 - 12x^6 - 65x^4 + 78x^2 - 13$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ 2 & 3 & 3 \\ & & 3 \end{array} \right]_1^6$ | I: 64,73 | $\frac{91}{32}$ |
| $x^{12} + 4x^{11} - 2x^{10} + 4x^8 + 8x^7 + 8x^5 - 4x^4 + 8$ | $x^{12} + 4x^{10} - 4x^9 - 31x^8 + 64x^7 - 112x^6 + 208x^5 - 242x^4 + 160x^3 - 60x^2 + 12x - 1$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & & 3 \end{array} \right]_1$ | I: 8,5 | $\frac{9}{4}$ |
| $x^{12} + 16x^{11} + 8x^{10} - 4x^9 - 14x^8 - 8x^7 - 4x^6 + 8x^5 + 16x^4 + 16x^3 - 8x^2 + 16x - 8$ | $x^{12} - 18x^{10} + 99x^8 - 252x^6 + 315x^4 - 162x^2 + 9$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ 2 & 2 & 3 \\ & & 3 \end{array} \right]_1^3$ | I: 16,14 | $\frac{19}{8}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-----------------|
| $x^{12} + 24x^{11} - 36x^{10} - 20x^9 +$ $58x^8 - 8x^7 - 16x^5 - 12x^4 +$ $16x^3 + 48x - 56$ | $x^{12} - 6x^8 - 9x^4 - 3$ | $\left[\begin{array}{cccccc} 2 & 2 & 2 & 3 & 3 & 3 \\ & & & & & 1 \end{array} \right]_1^6$ | I: 64,211 | $\frac{91}{32}$ |
| $x^{12} + 32x^{11} - 2x^{10} + 28x^9 +$ $32x^8 - 8x^7 + 12x^6 + 24x^5 +$ $12x^4 - 16x^2 + 32x + 24$ | $x^{12} - 12x^8 + 20x^6 - 15x^4 + 6x^2 - 1$ | $\left[\begin{array}{cccccc} 2 & 2 & 2 & 3 & 3 & 3 \\ & & & & & 1 \end{array} \right]_1^3$ | I: 64,73 | $\frac{91}{32}$ |
| $x^{12} - 8x^{11} + 14x^{10} + 12x^9 -$ $6x^8 - 8x^7 + 16x^6 + 8x^4 + 8x^2 -$ 8 | $x^{12} - 8x^{10} - 93x^8 - 272x^6 - 308x^4 -$ $110x^2 + 5$ | $\left[\begin{array}{cccccc} 2 & 2 & 3 & 3 & 3 & 3 \\ & & & & & 1 \end{array} \right]_1^6$ | I: 32,21 | $\frac{45}{16}$ |
| $x^{12} + 28x^{11} - 14x^{10} + 26x^8 +$ $16x^7 + 32x^6 + 24x^5 - 16x^3 +$ $32x^2 + 32x + 24$ | $x^{12} - 14x^{10} + 60x^8 - 126x^6 + 123x^4 -$ $42x^2 - 1$ | $\left[\begin{array}{cccccc} 2 & 2 & 2 & \frac{5}{2} & 3 & 3 \\ & & & & & 1 \end{array} \right]_1^6$ | I: 64,73 | $\frac{89}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-----------------|
| $x^{12} + 12x^{11} + 10x^{10} - 4x^9 +$ $16x^7 - 4x^6 - 8x^5 + 12x^4 +$ $16x^3 + 16x^2 + 16x + 8$ | $x^{12} - 26x^8 - 52x^6 + 195x^4 + 442x^2 - 325$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^3$ | I: 64,73 | $\frac{89}{32}$ |
| $x^{12} + 8x^{11} + 4x^9 + 8x^8 + 8x^7 -$ $8x^6 - 8x^5 - 4x^4 + 16x^3 - 8x^2 +$ $16x - 8$ | $x^{12} - 65x^8 + 338x^6 - 728x^4 + 754x^2 -$ 325 | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^3$ | I: 64,73 | $\frac{89}{32}$ |
| $x^{12} + 16x^{11} - 8x^{10} + 12x^9 +$ $8x^7 + 8x^5 - 4x^4 + 8x^2 + 16x - 8$ | $x^{12} + 10x^{10} + 20x^8 - 22x^6 + 5x^4 +$ $12x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^6$ | I: 64,73 | $\frac{89}{32}$ |
| $x^{12} + 4x^{11} - 10x^{10} + 16x^9 -$ $8x^8 - 8x^7 - 4x^6 - 12x^4 +$ $16x^3 + 8x^2 + 16x + 8$ | $x^{12} + 2x^{10} - 7x^8 + 20x^6 + 18x^4 - 34x^2 -$ 25 | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^6$ | I: 64,73 | $\frac{91}{32}$ |
| $x^{12} + 10x^{10} + 4x^9 - 14x^8 -$ $8x^7 - 12x^6 - 8x^5 + 8x^4 +$ $16x^3 + 8x^2 + 16x - 8$ | $x^{12} - 2x^{10} - 20x^8 + 6x^6 + 5x^4 + 8x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^3$ | I: 32,34 | $\frac{43}{16}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} - 4x^{11} + 2x^{10} - 8x^9 + 4x^8 + 12x^6 + 8x^5 + 12x^4 + 16x^3 - 8x^2 - 8$ | $x^{12} + 12x^{10} + 60x^8 + 160x^6 + 149x^4 - 172x^2 + 25$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_1^3$ | I: 64,211 | $\frac{91}{32}$ |
| $x^{12} - 4x^{11} - 4x^{10} + 8x^9 - 2x^8 + 8x^6 + 8x^5 + 8$ | $x^{12} - 34x^{10} - 4x^9 + 431x^8 + 160x^7 - 2420x^6 - 1664x^5 + 4923x^4 + 4336x^3 - 946x^2 + 4x + 5$ | $\left[\begin{array}{cccc} 4 & 4 & 4 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^6$ | I: 192,1541 | $\frac{223}{96}$ |
| $x^{12} + 18x^{10} - 24x^9 - 30x^8 - 24x^7 - 24x^6 + 28x^4 - 16x^3 - 8x^2 + 32x + 24$ | $x^{12} - 6x^{10} - 99x^8 + 324x^6 + 891x^4 - 486x^2 - 729$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_1^6$ | I: 64,202 | $\frac{87}{32}$ |
| $x^{12} + 12x^{11} - 8x^{10} - 12x^9 - 8x^8 - 8x^6 - 4x^4 - 8x^2 + 8$ | $x^{12} - 6x^{10} + 18x^8 - 32x^6 + 27x^4 - 6x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_1^3$ | I: 64,73 | $\frac{91}{32}$ |
| $x^{12} - 2x^{10} - 12x^9 - 8x^7 - 12x^6 + 8x^5 - 12x^4 + 8x^2 + 8$ | $x^{12} + 10x^{10} - 32x^8 + 4x^6 + 57x^4 - 14x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 5 \\ 3 & 3 & 3 & 3 \end{array} \right]_1^6$ | I: 64,73 | $\frac{89}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-----------------|
| $x^{12} + 28x^{11} + 8x^{10} - 56x^9 +$ $10x^8 + 32x^7 - 56x^6 + 48x^5 -$ $60x^4 - 16x^3 + 32x^2 + 32x - 56$ | $x^{12} - 26x^{10} + 117x^8 - 260x^6 + 247x^4 -$ $26x^2 - 13$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 64,73 | $\frac{91}{32}$ |
| $x^{12} - 8x^{11} - 6x^8 + 8x^6 + 8x^5 +$ $16x^4 + 16x^3 - 8x^2 - 8$ | $x^{12} - 27x^8 - 108x^6 - 198x^4 - 162x^2 - 9$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 64,211 | $\frac{91}{32}$ |
| $x^{12} + 14x^{10} - 4x^9 - 12x^8 +$ $16x^7 + 8x^6 + 4x^4 + 16x^3 +$ $16x^2 + 8$ | $x^{12} - 12x^{10} - 63x^8 + 432x^6 + 567x^4 -$ $972x^2 - 729$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,202 | $\frac{91}{32}$ |
| $x^{12} - 14x^{10} + 12x^9 - 12x^8 +$ $16x^7 - 12x^6 + 8x^5 + 4x^4 +$ $16x - 8$ | $x^{12} - 20x^{10} + 129x^8 - 356x^6 + 403x^4 -$ $104x^2 - 13$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & \frac{5}{2} & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,73 | $\frac{89}{32}$ |
| $x^{12} + 4x^{11} - 2x^{10} + 4x^9 + 4x^8 +$ $8x^7 + 8x^5 - 4x^4 + 8$ | $x^{12} - 6x^{10} - 6x^8 + 2x^6 + 3x^4 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 16,2 | $\frac{21}{8}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-----------------|
| $x^{12} - 4x^{11} + 12x^9 + 12x^8 - 12x^6 + 4x^4 + 16x^3 - 8x^2 - 8$ | $x^{12} - 12x^8 - 4x^6 + 9x^4 + 6x^2 + 1$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & 3 \\ & & & & 3 \\ & & & & & 3 \\ & & & & & & 3 \\ & & & & & & & 1 \end{bmatrix}$ | I: 64,202 | $\frac{91}{32}$ |
| $x^{12} + 8x^{11} - 10x^{10} + 12x^9 + 10x^8 + 8x^7 - 4x^6 - 8x^5 + 8x^4 + 8x^2 + 16x - 8$ | $x^{12} - 6x^{10} + 15x^8 - 20x^6 + 2x^4 + 20x^2 + 1$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & 3 \\ & & & & 3 \\ & & & & & 3 \\ & & & & & & 3 \\ & & & & & & & 1 \end{bmatrix}$ | I: 32,34 | $\frac{43}{16}$ |
| $x^{12} + 28x^{11} - 12x^{10} + 8x^9 + 54x^8 - 32x^7 + 32x^6 - 16x^5 - 36x^4 - 48x^3 + 48x^2 + 64x + 40$ | $x^{12} + 18x^{10} + 99x^8 - 72x^7 + 54x^6 - 648x^5 + 486x^4 - 72x^3 + 972x^2 - 972x + 243$ | $\begin{bmatrix} 8 & 8 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{bmatrix}$ | I: 48,50 | $\frac{61}{24}$ |
| $x^{12} - 8x^{11} + 14x^{10} - 8x^9 + 2x^8 - 8x^7 + 12x^6 - 8x^5 - 8x^4 + 16x^3 + 8$ | $x^{12} + 5x^8 + 6x^4 + 1$ | $\begin{bmatrix} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & & 3 \\ & & & & & 1 \end{bmatrix}$ | I: 16,14 | $\frac{19}{8}$ |
| $x^{12} - 4x^{11} + 2x^{10} - 12x^9 - 8x^8 - 8x^6 + 8x^5 + 4x^4 + 16x^3 + 8$ | $x^{12} - 8x^{10} - 68x^8 - 76x^6 + 215x^4 + 410x^2 + 125$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & 3 \\ & & & & 3 \\ & & & & & 3 \\ & & & & & & 3 \\ & & & & & & & 1 \end{bmatrix}$ | I: 32,21 | $\frac{43}{16}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-----------------|
| $x^{12} - 8x^{11} + 8x^{10} + 4x^9 + 2x^8 + 16x^7 + 8x^6 - 8x^5 + 16x^4 + 16x^3 + 8x^2 - 8$ | $x^{12} - 3x^8 - 4x^4 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 32,34 | $\frac{43}{16}$ |
| $x^{12} - 2x^{10} - 2x^8 + 8x^7 + 8x^5 + 16x^4 + 16x - 8$ | $x^{12} + 4x^{10} + x^8 + 12x^6 + 91x^4 + 104x^2 - 13$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,73 | $\frac{91}{32}$ |
| $x^{12} - 6x^{10} + 32x^8 - 8x^7 + 12x^6 - 8x^5 + 20x^4 + 16x^3 - 8x^2 - 16x - 24$ | $x^{12} - 26x^{10} + 221x^8 - 754x^6 + 806x^4 + 390x^2 - 13$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 64,73 | $\frac{91}{32}$ |
| $x^{12} + 8x^{11} + 22x^{10} + 4x^9 + 30x^8 + 32x^7 - 24x^5 - 8x^4 - 16x^3 + 24x^2 - 16x + 24$ | $x^{12} - 30x^8 + 90x^6 - 99x^4 + 36x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,202 | $\frac{87}{32}$ |
| $x^{12} + 8x^{11} + 2x^{10} + 4x^9 - 4x^6 + 4x^4 + 8x^2 + 8$ | $x^{12} + 12x^{10} - 42x^8 + 60x^6 - 45x^4 + 18x^2 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,211 | $\frac{87}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-----------------|
| $x^{12} - 12x^{11} - 2x^{10} + 8x^9 - 8x^8 + 8x^7 + 16x^6 + 16x^5 + 12x^4 + 16x^3 + 16x + 8$ | $x^{12} + x^8 - 2x^4 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 32,34 | $\frac{43}{16}$ |
| $x^{12} + 16x^{11} + 6x^{10} - 12x^9 - 6x^8 + 16x^7 - 8x^6 + 16x^4 + 16x^3 - 8$ | $x^{12} - 12x^{10} + 60x^8 - 160x^6 + 149x^4 + 172x^2 + 25$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 64,211 | $\frac{91}{32}$ |
| $x^{12} - 8x^{11} + 16x^{10} + 16x^9 + 16x^7 - 12x^6 + 16x^5 + 12x^4 - 8x^2 + 16x - 8$ | $x^{12} + 6x^{10} - 6x^8 - 42x^6 + 63x^4 - 18x^2 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,202 | $\frac{91}{32}$ |
| $x^{12} + 16x^{11} - 12x^9 + 16x^8 - 8x^7 - 4x^6 + 16x^5 + 4x^4 + 16x^3 + 16x - 8$ | $x^{12} - 12x^{10} + 42x^8 - 60x^6 + 45x^4 - 18x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,202 | $\frac{91}{32}$ |

Continued on next page

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-----------------|
| $x^{12} + 28x^{11} - 36x^{10} + 8x^9 +$ $6x^8 - 32x^7 - 32x^6 - 4x^4 -$ $48x^3 - 48x^2 + 32x + 40$ | $x^{12} + 6x^{10} + 15x^8 - 48x^7 + 18x^6 -$ $84x^5 - 30x^4 + 8x^3 + 132x^2 + 144x + 57$ | $\left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | I: 48,50 | $\frac{61}{24}$ |
| $x^{12} + 16x^{11} + 8x^{10} + 12x^9 -$ $6x^8 + 16x^7 + 4x^6 + 8x^4 +$ $16x^2 - 8$ | $x^{12} - 6x^{10} + 21x^8 - 44x^6 + 42x^4 -$ $12x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ 2 & 2 & 2 \end{array} \right]_1^6$ | I: 8,5 | $\frac{9}{4}$ |
| $x^{12} - 8x^{11} + 6x^{10} + 4x^9 + 8x^8 +$ $16x^7 + 12x^6 + 16x^5 - 12x^4 +$ $16x^3 + 8x^2 + 16x + 8$ | $x^{12} + 6x^{10} + 18x^8 + 32x^6 + 33x^4 +$ $18x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ 2 & 2 & 2 \end{array} \right]_1^3$ | I: 16,14 | $\frac{19}{8}$ |
| $x^{12} + 12x^{11} + 14x^8 + 16x^7 -$ $12x^6 + 16x^4 + 16x^3 + 8x^2 +$ $16x + 8$ | $x^{12} - 6x^{10} + 2x^8 + 32x^6 - 89x^4 + 98x^2 -$ 25 | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ 2 & 2 & 2 \\ 2 & 2 & 2 \end{array} \right]_1^6$ | I: 64,73 | $\frac{91}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-----------------|
| $x^{12} + 4x^{11} + 14x^{10} + 8x^9 - 12x^8 - 8x^7 + 8x^5 - 12x^4 + 16x^3 + 16x^2 + 16x + 8$ | $x^{12} + 6x^{10} - 3x^8 - 8x^6 + 12x^4 - 6x^2 + 1$ | $\begin{bmatrix} 2 & 2 & 3 & 3 \\ & & & 3 \\ & & & & 3 \\ & & & & & 3 \\ & & & & & & 3 \\ & & & & & & & 3 \\ & & & & & & & & 3 \\ & & & & & & & & & 1 \end{bmatrix}_1^6$ | I: 32,21 | $\frac{45}{16}$ |
| $x^{12} - 4x^{11} + 12x^{10} + 4x^9 + 12x^8 + 16x^7 - 12x^6 + 8x^5 - 4x^4 + 8x^2 - 8$ | $x^{12} + 6x^{10} + 3x^8 - 24x^6 - 9x^4 + 18x^2 - 3$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 & 3 \\ & & & & & 3 \\ & & & & & & 3 \\ & & & & & & & 3 \\ & & & & & & & & 3 \\ & & & & & & & & & 1 \end{bmatrix}_1^6$ | I: 64,202 | $\frac{87}{32}$ |
| $x^{12} - 8x^{11} - 2x^{10} + 16x^9 + 8x^8 - 8x^7 - 8x^6 + 8x^5 - 12x^4 + 8x^2 - 8$ | $x^{12} - 18x^{10} - 77x^8 + 80x^6 + 220x^4 - 200x^2 + 25$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 & 3 \\ & & & & & 3 \\ & & & & & & 3 \\ & & & & & & & 3 \\ & & & & & & & & 3 \\ & & & & & & & & & 1 \end{bmatrix}_1^3$ | I: 32,21 | $\frac{43}{16}$ |
| $x^{12} + 12x^{11} - 2x^{10} + 16x^9 - 2x^8 + 8x^7 - 12x^6 + 8x^4 + 16x - 8$ | $x^{12} - 6x^{10} - 6x^8 + 42x^6 + 63x^4 + 18x^2 - 3$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 & 3 \\ & & & & & 3 \\ & & & & & & 3 \\ & & & & & & & 3 \\ & & & & & & & & 3 \\ & & & & & & & & & 1 \end{bmatrix}_1^6$ | I: 64,202 | $\frac{91}{32}$ |
| $x^{12} - 12x^{11} + 16x^{10} - 4x^9 - 10x^8 + 16x^7 - 8x^4 - 8x^2 + 8$ | $x^{12} - 10x^{10} - 383x^8 - 1330x^6 - 1360x^4 - 350x^2 + 25$ | $\begin{bmatrix} 2 & 2 & 3 & 3 \\ & & & 3 \\ & & & & 3 \\ & & & & & 3 \\ & & & & & & 3 \\ & & & & & & & 3 \\ & & & & & & & & 3 \\ & & & & & & & & & 1 \end{bmatrix}_1^6$ | I: 16,2 | $\frac{21}{8}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-------------|------------------|
| $x^{12} - 12x^{11} - 8x^{10} + 16x^9 - 4x^8 - 8x^7 - 8x^5 - 4x^4 + 16x^3 + 16x^2 + 16x - 8$ | $x^{12} - 6x^{10} - 12x^9 - 21x^8 + 24x^7 + 42x^6 + 12x^5 + 12x^4 - 152x^3 + 132x^2 - 36x + 3$ | $\left[\begin{array}{cccc} \frac{8}{3} & \frac{8}{3} & \frac{8}{3} & \frac{8}{3} \\ \frac{8}{3} & \frac{8}{3} & \frac{8}{3} & \frac{8}{3} \\ \frac{8}{3} & \frac{8}{3} & \frac{8}{3} & \frac{8}{3} \end{array} \right]_3^6$ | I: 192,1541 | $\frac{253}{96}$ |
| $x^{12} + 4x^{11} + 2x^{10} - 4x^9 - 8x^8 - 8x^7 - 4x^6 + 12x^4 + 16x^3 - 8x^2 - 8$ | $x^{12} - 18x^{10} + 72x^8 - 90x^6 - 9x^4 + 54x^2 + 9$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ 2 & 2 & 2 & 3 \\ 2 & 2 & 2 & 3 \end{array} \right]_1^6$ | I: 32,34 | $\frac{43}{16}$ |
| $x^{12} - 28x^{11} + 12x^{10} + 8x^9 + 30x^8 - 24x^7 + 24x^6 + 32x^5 - 28x^4 - 16x^2 + 24$ | $x^{12} + 12x^{10} + 9x^8 - 14x^6 - 26x^4 + 13$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ 2 & 2 & 2 & 2 \\ 2 & 2 & 2 & 2 \end{array} \right]_1^6$ | I: 64,267 | $\frac{79}{32}$ |
| $x^{12} - 8x^{11} - 2x^{10} + 4x^8 - 8x^6 + 8x^5 - 4x^4 + 16x^3 + 8x^2 + 8$ | $x^{12} + 8x^{10} - 68x^8 + 76x^6 + 215x^4 - 410x^2 + 125$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ 2 & 2 & 3 \\ 2 & 2 & 3 \end{array} \right]_1^{12}$ | I: 16,2 | $\frac{21}{8}$ |
| $x^{12} - 4x^{11} - 6x^{10} - 4x^9 + 2x^8 - 8x^7 + 16x^5 - 8x^4 + 16x^3 - 8x^2 - 8$ | $x^{12} + 6x^{10} - 29x^8 - 208x^6 - 297x^4 - 110x^2 + 5$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ 2 & 2 & 3 \\ 2 & 2 & 3 \end{array} \right]_1^6$ | I: 32,21 | $\frac{45}{16}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-----------------|
| $x^{12} + 24x^{11} - 26x^{10} - 20x^9 +$ $6x^8 + 24x^7 + 16x^6 - 16x^5 -$ $4x^4 - 16x^3 - 8x^2 + 16x - 24$ | $x^{12} - 30x^{10} + 340x^8 - 1800x^6 +$ $4425x^4 - 4250x^2 + 625$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & & 3 \\ & & & & 3 \\ & & & & & 3 \end{array} \right]_1$ | I: 32,21 | $\frac{45}{16}$ |
| $x^{12} - 8x^{11} + 14x^{10} + 6x^8 +$ $8x^7 - 12x^6 + 8x^5 + 16x^4 +$ $16x + 8$ | $x^{12} - 6x^{10} + 8x^8 + 8x^6 - 13x^4 - 6x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & & 3 \\ & & & & & 3 \end{array} \right]_1$ | I: 32,27 | $\frac{43}{16}$ |
| $x^{12} + 44x^{11} + 14x^{10} + 36x^9 -$ $50x^8 - 48x^6 + 64x^5 - 60x^4 +$ $48x^3 + 24x^2 - 48x + 56$ | $x^{12} - 15x^8 - 2x^6 + 36x^4 - 12x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & & 3 \\ & & & & & 3 \end{array} \right]_1$ | I: 32,27 | $\frac{43}{16}$ |
| $x^{12} + 12x^{11} - 44x^{10} - 36x^9 +$ $58x^8 + 56x^7 + 16x^5 + 4x^4 +$ $32x^3 - 16x - 56$ | $x^{12} - 9x^4 + 9$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & & 3 \\ & & & & & 3 \end{array} \right]_1$ | I: 64,211 | $\frac{91}{32}$ |
| $x^{12} + 2x^{10} - 4x^9 + 6x^8 - 8x^7 +$ $16x^6 - 8x^5 + 16x + 8$ | $x^{12} + 2x^{10} - 7x^8 - 16x^6 - 14x^4 - 6x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & & 3 \\ & & & & & 3 \end{array} \right]_1$ | I: 64,73 | $\frac{91}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-----------------|
| $x^{12} + 28x^{11} - 28x^{10} - 28x^9 - 6x^8 + 16x^7 - 8x^6 + 4x^4 - 16x^3 + 16x^2 + 16x - 24$ | $x^{12} - 4x^{10} - 2x^8 + 12x^6 - 13x^4 + 6x^2 - 1$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 & 2 & 2 \\ & & 2 & 2 & 2 & 2 \\ & & & 2 & 2 & 2 \\ & & & & 2 & 2 \\ & & & & & 2 \end{bmatrix}_1^3$ | I: 64,73 | $\frac{89}{32}$ |
| $x^{12} + 4x^{11} - 14x^{10} + 12x^9 - 6x^8 - 8x^7 + 16x^5 + 16x^3 + 16x^2 + 16x - 8$ | $x^{12} + 26x^{10} + 143x^8 + 260x^6 - 442x^2 - 325$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 & 2 & 2 \\ & & 2 & 2 & 2 & 2 \\ & & & 2 & 2 & 2 \\ & & & & 2 & 2 \\ & & & & & 2 \end{bmatrix}_1^3$ | I: 64,73 | $\frac{89}{32}$ |
| $x^{12} - 12x^{11} - 14x^{10} + 4x^9 - 6x^8 + 16x^7 - 8x^6 + 16x^4 + 16x^3 + 16x + 8$ | $x^{12} + 4x^{10} - 15x^8 - 74x^6 - 102x^4 - 48x^2 - 1$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 & 2 & 2 \\ & & 2 & 2 & 2 & 2 \\ & & & 2 & 2 & 2 \\ & & & & 2 & 2 \\ & & & & & 2 \end{bmatrix}_1^6$ | I: 64,73 | $\frac{89}{32}$ |
| $x^{12} + 8x^{11} - 8x^{10} + 4x^9 + 14x^8 - 8x^7 - 8x^6 + 16x^5 + 16x^4 - 8x^2 - 8$ | $x^{12} - 9x^8 + 10x^6 + 18x^4 - 18x^2 + 1$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 & 2 & 2 \\ & & 2 & 2 & 2 & 2 \\ & & & 2 & 2 & 2 \\ & & & & 2 & 2 \\ & & & & & 2 \end{bmatrix}_1^6$ | I: 16,2 | $\frac{21}{8}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-----------------|
| $x^{12} - 4x^{11} + 2x^{10} - 4x^9 +$ $10x^8 + 16x^7 - 4x^6 + 8x^5 +$ $16x^3 + 16x^2 + 16x + 8$ | $x^{12} + 20x^{10} + 148x^8 + 496x^6 + 729x^4 +$ $342x^2 - 27$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,202 | $\frac{91}{32}$ |
| $x^{12} + 28x^{11} - 30x^{10} - 8x^9 -$ $4x^8 - 16x^7 + 4x^6 + 24x^5 -$ $28x^4 + 16x^3 - 24x^2 + 16x + 24$ | $x^{12} + 26x^{10} - 104x^8 + 26x^6 - 65x^4 +$ $104x^2 - 13$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 64,73 | $\frac{91}{32}$ |
| $x^{12} - 12x^{11} + 12x^{10} + 16x^9 -$ $6x^8 + 16x^7 - 4x^6 + 8x^5 + 8x^4 +$ $16x^3 + 8x^2 + 16x - 8$ | $x^{12} + 26x^{10} + 260x^8 + 1248x^6 +$ $2899x^4 + 2652x^2 - 325$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & \frac{5}{2} & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 64,73 | $\frac{89}{32}$ |
| $x^{12} + 8x^{11} - 4x^{10} + 12x^9 +$ $10x^8 + 16x^7 + 8x^6 - 8x^5 +$ $16x^4 + 16x^3 - 8x^2 + 16x - 8$ | $x^{12} + 6x^{10} + 6x^8 + 22x^6 + 33x^4 + 18x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 64,202 | $\frac{91}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-----------------|
| $x^{12} - 8x^{11} + 4x^{10} - 8x^9 -$ $14x^8 + 8x^7 + 8x^5 + 16x^3 -$ $8x^2 + 16x + 8$ | $x^{12} - 6x^{10} + 6x^8 - 10x^6 + 21x^4 - 12x^2 +$ 1 | $\left[\begin{array}{ccc} & & 6 \\ & 2 & 3 \\ 2 & 2 & 3 \\ & & 1 \end{array} \right]$ | I: 8,5 | $\frac{9}{4}$ |
| $x^{12} - 12x^{11} - 6x^{10} + 4x^9 +$ $16x^8 + 16x^7 - 12x^6 + 8x^5 +$ $12x^4 + 16x^3 + 8x^2 + 16x + 8$ | $x^{12} - 65x^8 - 338x^6 - 728x^4 - 754x^2 -$ 325 | $\left[\begin{array}{ccc} & & 3 \\ & 2 & 3 \\ 2 & 2 & 3 \\ 2 & 2 & 3 \\ & & 1 \end{array} \right]$ | I: 64,73 | $\frac{89}{32}$ |
| $x^{12} + 4x^{11} - 10x^{10} + 8x^8 +$ $8x^7 + 4x^6 - 8x^5 + 4x^4 + 16x^2 +$ $16x - 8$ | $x^{12} + 3x^8 - 9x^4 - 3$ | $\left[\begin{array}{ccc} & & 6 \\ & 2 & 3 \\ 2 & 2 & 3 \\ 2 & 2 & 3 \\ & & 1 \end{array} \right]$ | I: 64,211 | $\frac{91}{32}$ |
| $x^{12} - 4x^{11} + 4x^{10} - 4x^9 + 8x^7 -$ $8x^6 + 8x^5 + 4x^4 + 16x^3 + 8x^2 +$ $16x + 8$ | $x^{12} + 14x^{10} + 60x^8 + 126x^6 + 123x^4 +$ $42x^2 - 1$ | $\left[\begin{array}{ccc} & & 6 \\ & 2 & 3 \\ 2 & 2 & 3 \\ 2 & 2 & 3 \\ & & 1 \end{array} \right]$ | I: 64,73 | $\frac{89}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-------------|------------------|
| $x^{12} + 24x^{11} - 52x^{10} + 16x^9 - 18x^8 - 16x^7 + 16x^5 - 36x^4 + 64x^3 - 48x^2 - 32x - 56$ | $x^{12} + 66x^{10} - 660x^9 - 4301x^8 + 31944x^7 - 176666x^6 - 1277760x^5 - 417692x^4 + 13735920x^3 + 372680x^2 - 106038108x - 133942523$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | I: 192,1541 | $\frac{247}{96}$ |
| $x^{12} + 16x^{11} - 14x^{10} - 12x^9 + 4x^8 + 8x^7 + 4x^6 + 12x^4 + 16x^3 + 8$ | $x^{12} + 2x^{10} - 5x^8 - 4x^6 - 5x^4 + 2x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ 2 & 2 & 3 \end{array} \right]_1^3$ | I: 16,14 | $\frac{19}{8}$ |
| $x^{12} + 4x^{11} + 6x^{10} - 4x^9 - 2x^8 + 8x^7 + 8x^2 + 8$ | $x^{12} - 9x^8 + 20x^6 - 24x^4 + 18x^2 - 3$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ 2 & 3 & 3 \end{array} \right]_1^6$ | I: 32,21 | $\frac{45}{16}$ |
| $x^{12} - 12x^{10} - 8x^8 - 8x^6 + 16x^5 - 4x^4 + 8x^2 + 16x - 8$ | $x^{12} - 6x^{10} + 3x^8 - 4x^6 + 3x^4 - 6x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ 2 & 2 & 3 \end{array} \right]_1^3$ | I: 16,14 | $\frac{19}{8}$ |
| $x^{12} + 24x^{11} - 18x^{10} - 12x^9 - 18x^8 + 8x^7 + 24x^6 + 28x^4 + 16x^3 + 8x^2 - 16x + 8$ | $x^{12} - 26x^{10} + 286x^8 - 1742x^6 + 6305x^4 - 13052x^2 + 12493$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ 2 & 2 & 3 \end{array} \right]_1^6$ | I: 32,51 | $\frac{39}{16}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-----------------|
| $x^{12} - 12x^{11} - 8x^8 + 16x^7 - 4x^6 + 12x^4 + 16x^3 + 16x + 8$ | $x^{12} + 8x^{10} + 19x^8 + 20x^6 + 14x^4 + 14x^2 + 7$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 32,27 | $\frac{43}{16}$ |
| $x^{12} + 4x^{11} + 6x^{10} + 4x^9 + 8x^8 + 8x^7 + 8x^6 + 8x^5 - 4x^4 + 8$ | $x^{12} - 24x^{10} + 152x^8 - 340x^6 + 335x^4 - 150x^2 + 25$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 16,2 | $\frac{21}{8}$ |
| $x^{12} + 12x^{11} - 48x^{10} - 4x^9 + 26x^8 + 32x^7 - 40x^6 + 48x^5 - 12x^4 - 48x^3 - 32x^2 + 48x - 56$ | $x^{12} + 6x^{10} + 20x^8 + 40x^6 + 37x^4 + 10x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & \frac{5}{2} \\ & & & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 64,73 | $\frac{89}{32}$ |
| $x^{12} - 8x^{11} + 10x^{10} + 16x^9 - 6x^8 + 4x^6 + 16x - 8$ | $x^{12} + 6x^{10} + 3x^8 - 42x^6 - 90x^4 - 54x^2 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,202 | $\frac{91}{32}$ |
| $x^{12} - 16x^{11} - 6x^{10} - 20x^9 + 10x^8 + 32x^7 + 20x^4 + 8x^2 - 16x + 8$ | $x^{12} - 12x^{10} + 74x^8 - 272x^6 + 585x^4 - 676x^2 + 325$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 3 \end{array} \right]_1^6$ | I: 16,14 | $\frac{19}{8}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-----------------|
| $x^{12} - 8x^{11} - 2x^{10} - 8x^9 - 8x^7 - 8x^6 + 8x^5 - 12x^4 - 8x^2 + 16x + 8$ | $x^{12} + 4x^{10} - x^8 - x^4 + 4x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & & 1 \end{array} \right]^3$ | I: 8,5 | $\frac{9}{4}$ |
| $x^{12} - 8x^{11} + 14x^{10} + 8x^9 + 2x^8 - 8x^7 - 4x^6 + 8x^5 + 8x^4 + 16x^2 - 8$ | $x^{12} - 12x^{10} + 3x^8 + 40x^6 + 3x^4 - 12x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & & 1 \end{array} \right]^3$ | I: 16,14 | $\frac{19}{8}$ |
| $x^{12} + 8x^{11} + 12x^{10} + 4x^9 - 2x^8 - 8x^7 - 8x^6 + 8x^5 + 16x^3 + 8x^2 + 16x + 8$ | $x^{12} - 4x^{10} + 3x^8 - 6x^6 + 14x^4 - 14x^2 + 7$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & & 1 \end{array} \right]^3$ | I: 64,202 | $\frac{91}{32}$ |
| $x^{12} - 28x^{11} - 14x^{10} + 12x^9 + 6x^8 - 16x^7 + 4x^6 - 8x^5 - 8x^4 + 16x^3 - 16x^2 - 24$ | $x^{12} + 8x^{10} - 53x^8 - 518x^6 - 44x^4 + 5154x^2 + 5041$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & & 1 \end{array} \right]^3$ | I: 64,202 | $\frac{91}{32}$ |

Continued on next page

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-----------------|
| $x^{12} + 8x^{11} - 6x^{10} - 4x^9 +$ $10x^8 - 8x^7 + 12x^6 + 8x^5 +$ $16x^3 + 8x^2 + 16x - 8$ | $x^{12} - 54x^8 - 252x^6 - 441x^4 - 270x^2 + 9$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & 3 \\ & & & & 1 \end{bmatrix}^6$ | I: 32,34 | $\frac{43}{16}$ |
| $x^{12} + 8x^{11} - 2x^{10} - 24x^9 -$ $10x^8 - 16x^7 + 8x^6 + 8x^5 +$ $24x^4 + 32x^2 + 32x + 24$ | $x^{12} + 20x^{10} + 129x^8 + 356x^6 + 403x^4 +$ $104x^2 - 13$ | $\begin{bmatrix} 2 & 2 & 2 & \frac{5}{2} & 3 & 3 \\ & & & & & 1 \end{bmatrix}^6$ | I: 64,73 | $\frac{89}{32}$ |
| $x^{12} - 12x^{11} + 30x^{10} + 32x^9 -$ $8x^8 - 8x^7 - 8x^5 + 4x^4 + 24$ | $x^{12} - 6x^{10} + 6x^8 - 10x^6 - 15x^4 + 6x^2 + 1$ | $\begin{bmatrix} 2 & 2 & 3 \\ & & 1 \end{bmatrix}^6$ | I: 8,5 | $\frac{9}{4}$ |
| $x^{12} - 8x^{11} + 4x^{10} - 8x^9 + 4x^8 +$ $16x^7 - 8x^6 + 8x^5 - 12x^4 +$ $16x^3 - 8x^2 + 16x - 8$ | $x^{12} - 6x^{10} + 20x^8 - 40x^6 + 37x^4 -$ $10x^2 - 1$ | $\begin{bmatrix} 2 & 2 & 2 & \frac{5}{2} & 3 & 3 \\ & & & & & 1 \end{bmatrix}^3$ | I: 64,73 | $\frac{89}{32}$ |
| $x^{12} + 8x^{11} + 24x^{10} - 4x^9 -$ $28x^8 + 16x^7 - 4x^6 - 12x^4 -$ $16x^3 + 8x^2 + 32x + 24$ | $x^{12} - 12x^8 + 4x^6 + 9x^4 - 6x^2 + 1$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & 3 & 3 \\ & & & & & 1 \end{bmatrix}^3$ | I: 64,202 | $\frac{91}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-----------------|
| $x^{12} + 12x^{11} + 2x^{10} + 4x^9 + 16x^8 - 8x^7 - 4x^6 + 8x^5 - 4x^4 + 16x^3 + 16x^2 + 16x + 8$ | $x^{12} - 10x^{10} + 20x^8 + 22x^6 + 5x^4 - 12x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^6$ | I: 64,73 | $\frac{89}{32}$ |
| $x^{12} + 12x^{11} - 30x^{10} - 8x^9 + 6x^8 - 12x^6 - 24x^5 - 16x^3 - 8x^2 + 16x + 24$ | $x^{12} + 12x^{10} + 48x^8 + 64x^6 - 13x^4 - 52x^2 + 13$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^6$ | I: 64,211 | $\frac{91}{32}$ |
| $x^{12} + 6x^{10} + 4x^9 - 12x^8 - 8x^7 + 8x^6 + 16x^5 - 12x^4 + 8x^2 + 16x - 8$ | $x^{12} - 3x^8 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^6$ | I: 64,211 | $\frac{87}{32}$ |
| $x^{12} + 12x^{11} + 8x^{10} - 4x^9 + 14x^8 - 8x^7 + 8x^6 - 16x^5 - 28x^4 + 16x + 24$ | $x^{12} + 14x^{10} + 61x^8 + 66x^6 - 182x^4 - 494x^2 - 325$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^6$ | I: 64,73 | $\frac{91}{32}$ |
| $x^{12} - 6x^{10} + 4x^9 + 2x^8 + 8x^2 + 8$ | $x^{12} - 9x^8 - 20x^6 - 24x^4 - 18x^2 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^6$ | I: 32,21 | $\frac{45}{16}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-----------------|
| $x^{12} + 4x^{10} - 2x^8 + 4x^6 + 8x^5 + 8x^2 + 8$ | $x^{12} - 26x^8 + 52x^6 + 195x^4 - 442x^2 - 325$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \right]_1^3$ | I: 64,73 | $\frac{89}{32}$ |
| $x^{12} - 16x^{11} + 14x^{10} + 4x^9 + 2x^8 - 8x^7 - 24x^6 + 12x^4 - 16x^3 - 24x^2 + 16x + 24$ | $x^{12} - 20x^{10} + 134x^8 - 414x^6 + 635x^4 - 460x^2 + 125$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \right]_1^6$ | I: 32,21 | $\frac{45}{16}$ |
| $x^{12} - 12x^9 - 12x^8 - 8x^7 - 4x^6 + 16x^5 + 12x^4 + 16x^3 - 8x^2 + 16x - 8$ | $x^{12} - 21x^8 - 50x^6 - 36x^4 - 6x^2 + 1$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \right]_1^3$ | I: 64,202 | $\frac{91}{32}$ |
| $x^{12} + 4x^{10} + 16x^9 + 6x^8 + 4x^6 + 8x^5 + 16x^3 - 8$ | $x^{12} - 2x^{10} - 7x^8 + 32x^6 - 8x^4 + 34x^2 - 25$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \right]_1^6$ | I: 64,211 | $\frac{91}{32}$ |
| $x^{12} + 24x^{11} + 4x^{10} + 4x^9 + 28x^8 + 32x^7 - 4x^6 - 8x^5 + 28x^4 + 16x^3 + 16x^2 + 32x - 24$ | $x^{12} - 9x^8 + 8x^6 - 9x^4 + 1$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \right]_1^6$ | I: 8,5 | $\frac{9}{4}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-----------------|
| $x^{12} + 8x^{11} - 2x^{10} + 8x^8 - 4x^6 + 8x^5 + 4x^4 + 8$ | $x^{12} + 2x^{10} - 16x^8 + 8x^6 + 39x^4 - 52x^2 - 13$ | $\begin{bmatrix} 2 & 2 & 2 & 5 & 3 & 3 \\ & & & 2 & & \\ & & & & & 1 \end{bmatrix}_1^6$ | I: 64,73 | $\frac{89}{32}$ |
| $x^{12} + 8x^{11} + 22x^{10} - 4x^9 - 28x^8 - 8x^7 + 16x^6 + 24x^5 - 4x^4 - 16x^3 + 24x^2 - 16x - 24$ | $x^{12} + 6x^{10} + 28x^8 + 72x^6 + 67x^4 + 6x^2 - 25$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & 3 & 3 \\ & & & & & \\ & & & & & 1 \end{bmatrix}_1^6$ | I: 64,211 | $\frac{91}{32}$ |
| $x^{12} + 4x^{11} - 6x^{10} + 8x^8 + 12x^6 - 8x^5 - 12x^4 + 16x^3 - 8x^2 + 8$ | $x^{12} - 12x^{10} + 47x^8 - 56x^6 - 33x^4 + 68x^2 + 25$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & 3 & 3 \\ & & & & & \\ & & & & & 1 \end{bmatrix}_1^3$ | I: 64,211 | $\frac{91}{32}$ |
| $x^{12} - 8x^{11} + 4x^{10} + 8x^9 - 6x^8 - 8x^6 - 8x^5 - 8x^4 - 8x^2 + 16x - 8$ | $x^{12} + 6x^{10} + 17x^8 + 28x^6 + 26x^4 + 12x^2 + 1$ | $\begin{bmatrix} 2 & 2 & 3 \\ & & \\ & & 1 \end{bmatrix}_1^3$ | I: 8,5 | $\frac{9}{4}$ |
| $x^{12} + 12x^{11} + 16x^{10} + 24x^9 - 22x^8 - 8x^7 + 8x^6 - 12x^4 + 32x^3 + 32x^2 + 32x + 8$ | $x^{12} + 8x^{10} - 9x^8 - 60x^6 + 91x^4 - 52x^2 + 13$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 & 3 \\ & & & & & \\ & & & & & 1 \end{bmatrix}_1^6$ | I: 64,211 | $\frac{87}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-----------------|
| $x^{12} - 8x^{11} + 16x^{10} - 4x^9 +$ $2x^8 + 16x^7 - 12x^6 + 8x^5 +$ $8x^2 + 16x - 8$ | $x^{12} + 10x^{10} + 29x^8 + 12x^6 - 26x^4 +$ $26x^2 + 13$ | $\left[\begin{array}{cccccc} 2 & 2 & 2 & 2 & 2 & 3 \\ & & & & & 1 \end{array} \right]_1^6$ | I: 64,267 | $\frac{79}{32}$ |
| $x^{12} + 4x^{11} - 8x^{10} - 8x^9 +$ $16x^8 + 4x^6 + 8x^5 - 12x^4 +$ $16x^2 + 16x + 8$ | $x^{12} + 6x^{10} - 3x^8 - 26x^6 - 24x^4 - 6x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & & 1 \end{array} \right]_1^6$ | I: 16,2 | $\frac{21}{8}$ |
| $x^{12} + 8x^{11} - 14x^{10} - 8x^9 +$ $8x^8 + 16x^7 - 8x^6 - 4x^4 +$ $16x^2 + 16x + 8$ | $x^{12} - 12x^{10} + 48x^8 - 64x^6 - 91x^4 +$ $364x^2 - 325$ | $\left[\begin{array}{cccccc} 2 & 2 & 2 & 3 & 3 \\ & & & & & 1 \end{array} \right]_1^6$ | I: 32,34 | $\frac{43}{16}$ |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-----------------|
| $x^{12} - 12x^{11} + 16x^{10} + 4x^9 - 14x^8 - 8x^7 + 4x^6 + 16x^4 + 16x^3 + 8x^2 - 8$ | $x^{12} - 12x^8 - 20x^6 - 15x^4 - 6x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 64,73 | $\frac{91}{32}$ |
| $x^{12} - 20x^{11} + 20x^{10} - 28x^9 + 10x^8 - 24x^7 + 8x^6 - 8x^5 + 32x^4 + 24x^2 + 32x + 24$ | $x^{12} + 12x^{10} + 61x^8 + 168x^6 + 247x^4 + 156x^2 - 13$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 32,34 | $\frac{43}{16}$ |
| $x^{12} - 16x^{11} - 4x^{10} - 8x^9 + 16x^8 - 8x^7 + 24x^6 - 16x^5 + 12x^4 - 16x^3 + 24x^2 + 16x + 24$ | $x^{12} - 3x^8 + 22x^6 + 18x^4 + 12x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & & 3 \end{array} \right]_1^3$ | I: 16,14 | $\frac{19}{8}$ |
| $x^{12} - 24x^{11} - 2x^{10} + 12x^9 - 28x^8 + 32x^7 + 28x^6 - 16x^5 + 12x^4 + 16x^3 - 16x^2 - 16x + 24$ | $x^{12} - 2x^{10} - 7x^8 - 20x^6 + 18x^4 + 34x^2 - 25$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,73 | $\frac{91}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-----------------|
| $x^{12} - 12x^{11} + 12x^{10} - 8x^9 -$ $14x^8 + 16x^6 + 8x^5 + 16x^4 +$ $16x^3 - 8x^2 + 16x - 8$ | $x^{12} - 12x^{10} + 54x^8 - 132x^6 + 189x^4 -$ $162x^2 + 81$ | $\left[\begin{array}{ccc} & & 3 \\ & 2 & 3 \\ 2 & 2 & 3 \end{array} \right]_1$ | I: 8,5 | $\frac{9}{4}$ |
| $x^{12} + 36x^{11} + 26x^{10} + 4x^9 -$ $46x^8 - 56x^6 + 48x^5 - 4x^4 -$ $48x^3 + 56x^2 - 16x + 56$ | $x^{12} - 28x^{10} + 164x^8 + 12x^6 - 157x^4 -$ $50x^2 + 5$ | $\left[\begin{array}{ccc} & & 12 \\ & 2 & 3 \\ 2 & 2 & 3 \end{array} \right]_1$ | I: 16,2 | $\frac{21}{8}$ |
| $x^{12} + 12x^{10} + 12x^9 - 14x^8 -$ $8x^6 - 8x^4 + 16x^3 - 8x^2 + 16x -$ 8 | $x^{12} - 34x^{10} + 177x^8 - 360x^6 + 340x^4 -$ $150x^2 + 25$ | $\left[\begin{array}{ccc} & & 3 \\ & 2 & 3 \\ 2 & 2 & 3 \end{array} \right]_1$ | I: 32,21 | $\frac{45}{16}$ |
| $x^{12} - 12x^{11} - 8x^{10} - 12x^9 -$ $14x^8 + 8x^7 - 8x^6 + 16x^5 +$ $16x^4 + 16x^3 + 8x^2 + 16x - 8$ | $x^{12} + 6x^{10} + 3x^8 + 16x^6 - 33x^4 + 18x^2 -$ 3 | $\left[\begin{array}{ccc} & & 6 \\ & 2 & 3 \\ 2 & 2 & 3 \end{array} \right]_1$ | I: 32,21 | $\frac{45}{16}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-----------------|
| $x^{12} - 12x^{11} + 10x^{10} + 12x^9 -$ $2x^8 - 8x^7 + 8x^6 + 12x^4 - 8x^2 +$ $16x + 8$ | $x^{12} + 26x^{10} + 286x^8 + 1742x^6 +$ $6305x^4 + 13052x^2 + 12493$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 \\ & & & & 3 \\ & & & & 3 \\ & & & & 3 \\ & & & & 3 \\ & & & & 3 \end{bmatrix}_1^6$ | I: 32,51 | $\frac{39}{16}$ |
| $x^{12} - 8x^{11} + 4x^9 + 2x^8 - 8x^7 -$ $8x^6 - 8x^5 - 8x^4 + 16x^3 - 8x^2 +$ 8 | $x^{12} + 12x^{10} + 60x^8 + 160x^6 + 227x^4 +$ $140x^2 - 1$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 \\ & & & & 3 \\ & & & & 3 \\ & & & & 3 \\ & & & & 3 \\ & & & & 3 \end{bmatrix}_1^6$ | I: 64,211 | $\frac{87}{32}$ |
| $x^{12} - 4x^{11} + 24x^{10} + 32x^9 -$ $24x^8 - 8x^7 - 12x^6 + 24x^5 +$ $12x^4 + 32x^3 + 32x + 24$ | $x^{12} - 70x^{10} + 1655x^8 - 18000x^6 +$ $94575x^4 - 211250x^2 + 105625$ | $\begin{bmatrix} 2 & 2 & 3 & 3 & 3 \\ & & & & 3 \\ & & & & 3 \\ & & & & 3 \\ & & & & 3 \\ & & & & 3 \end{bmatrix}_1^3$ | I: 32,21 | $\frac{45}{16}$ |
| $x^{12} - 12x^{11} + 26x^{10} + 20x^9 -$ $6x^8 + 8x^7 - 16x^6 + 16x^5 -$ $20x^4 - 24x^2 - 16x + 24$ | $x^{12} + 30x^{10} + 340x^8 + 1800x^6 +$ $4425x^4 + 4250x^2 + 625$ | $\begin{bmatrix} 2 & 2 & 3 & 3 & 3 \\ & & & & 3 \\ & & & & 3 \\ & & & & 3 \\ & & & & 3 \\ & & & & 3 \end{bmatrix}_1^3$ | I: 32,21 | $\frac{45}{16}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-----------------|
| $x^{12} - 4x^{11} + 2x^{10} - 4x^9 + 10x^8 + 4x^6 + 16x^4 + 16x^3 + 8x^2 + 16x + 8$ | $x^{12} + 26x^{10} + 221x^8 + 754x^6 + 806x^4 - 390x^2 - 13$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 1 \end{array} \right]_1^3$ | I: 64,73 | $\frac{91}{32}$ |
| $x^{12} - 12x^{11} + 2x^{10} - 28x^9 + 4x^8 + 8x^7 + 12x^6 + 16x^5 - 4x^4 + 32x + 24$ | $x^{12} + 6x^{10} + 3x^8 + 4x^6 + 3x^4 + 6x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 2 & 3 \\ & & 1 \end{array} \right]_1^3$ | I: 16,14 | $\frac{19}{8}$ |
| $x^{12} + 12x^{11} + 90x^{10} - 64x^9 + 98x^8 + 64x^7 - 112x^6 - 32x^5 + 100x^4 - 80x^3 - 120x^2 - 64x + 8$ | $x^{12} + 2x^{10} - 10x^8 - 6x^6 + 23x^4 - 10x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 1 \end{array} \right]_1^3$ | I: 64,202 | $\frac{91}{32}$ |
| $x^{12} - 4x^{11} + 4x^{10} - 8x^9 - 8x^8 - 8x^7 + 16x^5 - 4x^4 + 16x^3 + 8x^2 + 16x - 8$ | $x^{12} - 39x^8 - 156x^6 - 182x^4 - 26x^2 + 13$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 1 \end{array} \right]_1^6$ | I: 64,267 | $\frac{79}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-----------------|
| $x^{12} - 4x^{11} + 4x^{10} - 8x^9 + 16x^8 + 16x^7 + 12x^6 + 12x^4 + 16x^3 + 16x^2 + 16x + 8$ | $x^{12} - 8x^{10} + 87x^8 - 532x^6 + 2070x^4 - 6750x^2 + 3375$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & 3 \\ & & & & 1 \end{bmatrix}^6$ | I: 32,27 | $\frac{43}{16}$ |
| $x^{12} - 16x^{11} - 12x^{10} - 20x^9 - 24x^7 - 20x^6 + 8x^5 - 28x^4 - 16x^2 + 32x - 24$ | $x^{12} + 6x^{10} + 21x^8 + 44x^6 + 42x^4 + 12x^2 + 1$ | $\begin{bmatrix} 2 & 2 & 3 \\ & & & 1 \end{bmatrix}^6$ | I: 8,5 | $\frac{9}{4}$ |
| $x^{12} + 32x^{11} + 6x^{10} + 32x^9 - 2x^8 + 16x^7 + 24x^6 - 8x^5 + 16x^3 + 8x^2 + 16x - 24$ | $x^{12} - 30x^{10} + 323x^8 - 1460x^6 + 2420x^4 - 1200x^2 + 25$ | $\begin{bmatrix} 2 & 2 & 3 & 3 \\ & & & & 1 \end{bmatrix}^6$ | I: 16,2 | $\frac{21}{8}$ |
| $x^{12} + 16x^{11} + 14x^{10} - 12x^9 + 4x^8 - 8x^7 + 16x^6 - 8x^5 + 12x^4 + 16x^3 + 8x^2 - 8$ | $x^{12} + 20x^{10} + 134x^8 + 414x^6 + 635x^4 + 460x^2 + 125$ | $\begin{bmatrix} 2 & 2 & 3 & 3 & 3 \\ & & & & & 1 \end{bmatrix}^6$ | I: 32,21 | $\frac{45}{16}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-----------------|
| $x^{12} + 8x^{11} + 14x^{10} - 12x^9 + 6x^8 + 4x^6 + 8x^5 + 16x^4 - 8x^2 + 16x + 8$ | $x^{12} + 2x^{10} - 20x^8 - 6x^6 + 5x^4 - 8x^2 + 1$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & 3 \\ & & & & 1 \end{bmatrix}^6$ | I: 32,34 | $\frac{43}{16}$ |
| $x^{12} - 4x^{11} + 16x^{10} + 20x^9 - 14x^8 + 32x^7 + 4x^6 + 16x^5 + 16x^4 + 32x^3 - 16x^2 - 16x + 24$ | $x^{12} + 30x^{10} + 323x^8 + 1460x^6 + 2420x^4 + 1200x^2 + 25$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & 3 \\ & & & & 1 \end{bmatrix}^3$ | I: 32,21 | $\frac{43}{16}$ |
| $x^{12} + 28x^{11} - 2x^{10} + 16x^9 + 26x^8 + 8x^7 + 20x^6 - 24x^5 - 8x^4 + 32x^3 + 32x^2 + 32x + 24$ | $x^{12} + 12x^{10} + 54x^8 + 112x^6 + 105x^4 + 36x^2 + 1$ | $\begin{bmatrix} 2 & 3 \\ & 1 \end{bmatrix}^3$ | I: 4,2 | 2 |
| $x^{12} + 24x^{11} - 24x^{10} + 12x^9 - 18x^8 + 16x^7 + 28x^6 - 16x^5 - 24x^4 - 16x^3 + 16x^2 + 32x - 24$ | $x^{12} - 9x^8 - 8x^6 - 9x^4 + 1$ | $\begin{bmatrix} 2 & 2 & 3 \\ & & 1 \end{bmatrix}^6$ | I: 8,5 | $\frac{9}{4}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-----------------|
| $x^{12} - 16x^{11} - 26x^{10} - 28x^9 - 18x^8 - 8x^7 - 24x^6 + 32x^5 + 8x^4 + 16x^3 - 24x^2 + 16x + 24$ | $x^{12} + 6x^{10} + 6x^8 + 10x^6 + 21x^4 + 12x^2 + 1$ | $\begin{bmatrix} 2 & 2 & 3 \\ & & 1 \end{bmatrix}_1^6$ | I: 8,5 | $\frac{9}{4}$ |
| $x^{12} + 24x^{11} + 30x^{10} + 12x^9 + 22x^8 - 24x^7 + 16x^5 + 28x^4 + 16x^3 + 24x^2 - 16x + 8$ | $x^{12} - 6x^{10} + 18x^8 - 30x^6 + 81x^4 - 162x^2 + 81$ | $\begin{bmatrix} 2 & 2 & 3 \\ & & 1 \end{bmatrix}_1^3$ | I: 8,5 | $\frac{9}{4}$ |
| $x^{12} + 44x^{11} + 26x^{10} + 36x^9 - 50x^8 + 48x^7 + 64x^6 - 32x^5 + 12x^4 + 16x^3 - 56x^2 + 16x - 56$ | $x^{12} - 6x^{10} - 23x^8 + 210x^6 - 360x^4 + 50x^2 + 25$ | $\begin{bmatrix} 2 & 2 & 2 & 3 \\ & & & 1 \end{bmatrix}_1^3$ | I: 32,21 | $\frac{43}{16}$ |
| $x^{12} + 16x^{11} + 12x^{10} + 4x^9 + 8x^7 + 4x^6 - 8x^5 + 4x^4 + 16x^3 + 8x^2 + 16x - 8$ | $x^{12} + 12x^{10} + 3x^8 - 40x^6 + 3x^4 + 12x^2 + 1$ | $\begin{bmatrix} 2 & 2 & 2 & 3 \\ & & & 1 \end{bmatrix}_1^3$ | I: 16,14 | $\frac{19}{8}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|----------------|
| $x^{12} + 12x^{11} - 4x^{10} + 4x^9 - 12x^8 + 4x^6 - 8x^5 - 4x^4 + 16x^3 + 8x^2 + 16x - 8$ | $x^{12} - 15x^8 + 18x^4 - 3$ | $\begin{bmatrix} 2 & 3 \\ & 1 \end{bmatrix}^6$ | I: 4,2 | 2 |
| $x^{12} + 14x^{10} - 4x^9 + 4x^8 + 16x^7 - 4x^6 + 16x^5 - 12x^4 - 8x^2 + 16x - 8$ | $x^{12} - 3x^8 - 22x^6 + 18x^4 - 12x^2 + 1$ | $\begin{bmatrix} 2 & 2 & 2 \\ & 3 \\ & & 1 \end{bmatrix}^3$ | I: 16,14 | $\frac{19}{8}$ |
| $x^{12} + 32x^{11} - 10x^{10} + 8x^9 - 18x^8 + 32x^7 + 20x^6 + 24x^5 - 24x^4 + 32x^3 + 16x^2 - 24$ | $x^{12} + 18x^8 + 45x^4 + 9$ | $\begin{bmatrix} 2 & 3 \\ & 1 \end{bmatrix}^3$ | I: 4,2 | 2 |
| $x^{12} + 8x^{11} + 16x^{10} + 32x^9 - 18x^8 + 8x^7 + 8x^6 + 24x^5 - 24x^4 + 32x^3 + 8x^2 + 16x - 24$ | $x^{12} + 12x^{10} + 54x^8 + 132x^6 + 189x^4 + 162x^2 + 81$ | $\begin{bmatrix} 2 & 2 & 3 \\ & 1 \end{bmatrix}^3$ | I: 8,5 | $\frac{9}{4}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-------------|------------------|
| $x^{12} + 8x^{11} - 12x^{10} - 4x^9 - 14x^8 + 8x^7 - 4x^6 - 8x^5 + 16x^3 - 8x^2 + 16x + 8$ | $x^{12} - 6x^{10} + 18x^8 - 32x^6 + 29x^4 - 10x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 3 \\ & & 3 \end{array} \right]_1^3$ | I: 16,14 | $\frac{19}{8}$ |
| $x^{12} + 60x^{11} + 14x^{10} + 36x^9 - 34x^8 - 32x^7 - 48x^6 - 32x^5 + 36x^4 - 16x^3 - 40x^2 - 48x + 56$ | $x^{12} - 12x^{10} + 54x^8 - 112x^6 + 105x^4 - 36x^2 + 1$ | $\left[\begin{array}{cc} 2 & 3 \\ & 3 \end{array} \right]_1^3$ | I: 4,2 | 2 |
| $x^{12} + 12x^{11} - 8x^9 + 12x^8 - 8x^7 + 4x^6 + 8x^5 - 12x^4 + 16x^3 + 8x^2 + 16x + 8$ | $x^{12} + 10x^{10} - 137x^8 + 176x^6 + 511x^4 + 294x^2 + 49$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 32,27 | $\frac{43}{16}$ |
| $x^{12} - 12x^{11} - 2x^{10} - 12x^9 + 8x^8 - 8x^7 + 12x^6 + 12x^4 + 16x^3 + 16x^2 + 8$ | $x^{12} + 18x^{10} + 123x^8 + 428x^6 + 819x^4 + 834x^2 + 361$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 3 \\ & & 3 \end{array} \right]_1^3$ | I: 16,14 | $\frac{19}{8}$ |
| $x^{12} - 12x^{10} + 8x^8 + 28x^4 - 24x^2 + 24$ | $x^{12} - 6x^{10} + 12x^8 - 12x^6 + 36x^4 - 72x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-------------|------------------|
| $x^{12} + 2x^{10} + 4x^8 - 24x^6 + 12x^4 + 24x^2 - 24$ | $x^{12} + 12x^{10} + 60x^8 + 132x^6 + 108x^4 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 12x^8 - 4x^6 + 12x^4 + 8x^2 - 8$ | $x^{12} - 12x^{10} + 48x^8 - 68x^6 + 12x^4 + 24x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & 3 & 3 \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 4x^8 + 16x^6 - 12x^4 + 8x^2 - 8$ | $x^{12} - 6x^{10} + 6x^8 + 12x^6 - 24x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 14x^{10} + 12x^8 + 4x^4 + 8x^2 - 8$ | $x^{12} - 6x^{10} + 12x^8 - 8x^6 - 12x^4 + 24x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 2x^{10} + 12x^8 - 12x^4 + 8x^2 - 8$ | $x^{12} - 18x^8 - 28x^6 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 6x^{10} + 12x^8 + 24x^6 + 20x^4 + 24x^2 + 24$ | $x^{12} - 12x^{10} + 6x^8 + 660x^6 - 3024x^4 - 21168x^2 - 8232$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 14x^{10} - 8x^8 - 24x^6 + 4x^4 + 8x^2 - 24$ | $x^{12} + 10x^{10} + 42x^8 + 64x^6 + 104x^2 + 104$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & & \frac{7}{2} \end{array} \right]_1^3$ | I: 32,27 | $\frac{51}{16}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} + 12x^{10} + 12x^8 + 12x^4 - 8x^2 - 8$ | $x^{12} - 6144x^{10} + 50331648x^8 - 4294967296x^6 - 65970697666560x^4 + 54043195528445952x^2 - 9223372036854775808$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} - 8x^{10} - 12x^8 - 28x^4 + 8x^2 + 24$ | $x^{12} - 40x^{10} - 72x^9 + 262x^8 + 360x^7 - 1488x^6 - 1596x^5 + 3419x^4 + 2496x^3 - 4010x^2 - 1172x + 1997$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 12x^{10} - 8x^8 + 12x^6 + 4x^4 - 8x^2 + 8$ | $x^{12} - 16x^{10} + 88x^8 - 204x^6 + 212x^4 - 88x^2 + 8$ | $\left[\begin{array}{ccc} 2 & 3 & \\ & & \frac{7}{2} \\ & & \frac{7}{2} \end{array} \right]_1^3$ | I: 8,3 | $\frac{11}{4}$ |
| $x^{12} + 18x^{10} - 28x^8 + 8x^6 - 28x^4 + 24x^2 + 24$ | $x^{12} - 36x^{10} + 432x^8 - 1728x^6 - 4032x^4 + 48384x^2 - 96768$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 8x^{10} - 4x^8 - 8x^6 - 12x^4 - 8x^2 + 8$ | $x^{12} - 30x^{10} + 180x^8 + 2100x^6 - 24300x^4 + 54000x^2 - 27000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} + 32x^{10} - 16x^8 - 8x^6 - 20x^4 + 24x^2 + 8$ | $x^{12} - 18x^{10} - 12x^9 + 134x^8 + 144x^7 - 480x^6 - 640x^5 + 731x^4 + 1184x^3 - 82x^2 - 332x + 71$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} - 10x^{10} + 16x^8 + 8x^6 - 4x^4 + 8x^2 - 8$ | $x^{12} - 6x^{10} + 18x^8 - 48x^6 + 144x^4 - 216x^2 - 72$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 32,34 | $\frac{51}{16}$ |
| $x^{12} + 12x^{10} - 8x^8 - 4x^6 + 12x^4 + 8x^2 + 8$ | $x^{12} + 14x^{10} + 14x^8 - 84x^6 + 112x^2 - 56$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} - 4x^{10} + 16x^8 - 24x^6 + 4x^4 + 24x^2 - 8$ | $x^{12} - 6x^{10} + 20x^6 + 12x^4 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 12x^{10} + 16x^6 - 4x^4 - 24x^2 + 24$ | $x^{12} - 6x^{10} + 12x^8 - 12x^6 - 36x^4 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} + 32x^{10} - 20x^8 - 4x^4 + 24x^2 - 24$ | $x^{12} + 6x^{10} - 66x^8 + 164x^6 - 104x^4 - 104x^2 + 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-------------|------------------|
| $x^{12} + 6x^{10} + 24x^8 - 24x^6 - 4x^4 - 24x^2 + 24$ | $x^{12} + 10x^{10} + 42x^8 + 64x^6 - 52x^4 - 312x^2 - 104$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 32,34 | $\frac{51}{16}$ |
| $x^{12} + 16x^{10} - 28x^8 + 20x^6 - 28x^4 - 8x^2 + 24$ | $x^{12} - 6x^{10} - 6x^8 + 60x^6 - 144x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & 3 \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 24x^{10} - 4x^8 + 8x^6 + 4x^4 - 8x^2 + 24$ | $x^{12} - 4x^{10} - 12x^8 + 40x^6 + 52x^4 - 104x^2 - 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 4x^8 + 12x^6 + 4x^4 - 8x^2 - 24$ | $x^{12} + 8x^{10} - 20x^8 - 356x^6 - 1140x^4 - 1224x^2 - 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & 3 \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 12x^{10} - 8x^8 + 8x^6 - 12x^4 - 8x^2 + 8$ | $x^{12} + 60x^{10} + 630x^8 - 10500x^6 - 86400x^4 - 243000x^2 - 243000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 12x^8 + 8x^6 - 12x^4 - 8x^2 + 8$ | $x^{12} + 30x^{10} + 180x^8 - 2100x^6 - 24300x^4 - 54000x^2 - 27000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 6x^{10} + 16x^8 - 8x^6 + 28x^4 + 8x^2 - 24$ | $x^{12} - 18x^{10} + 120x^8 - 464x^6 + 780x^4 - 432x^2 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 32,34 | $\frac{51}{16}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} - 14x^{10} + 28x^8 + 16x^6 + 4x^4 - 24x^2 - 24$ | $x^{12} - 18x^{10} + 78x^8 - 72x^6 - 36x^4 + 72x^2 - 24$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 3 & \frac{7}{2} \\ & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 14x^{10} + 8x^8 + 4x^4 - 8x^2 - 8$ | $x^{12} + 8x^{10} + 26x^8 + 48x^6 + 56x^4 + 56x^2 + 56$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 3 & \frac{7}{2} \\ & & \frac{7}{2} \end{array} \right]_1^3$ | I: 32,27 | $\frac{51}{16}$ |
| $x^{12} + 16x^{10} + 28x^8 - 16x^6 + 12x^4 + 24x^2 + 24$ | $x^{12} + 2x^{10} - 76x^8 - 220x^6 + 108x^4 + 648x^2 + 216$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 3 & \frac{7}{2} \\ & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} - 16x^{10} - 4x^8 + 16x^6 + 28x^4 - 8x^2 - 24$ | $x^{12} + 16x^{10} - 4x^9 + 55x^8 - 216x^7 - 700x^6 - 2084x^5 - 6096x^4 - 9528x^3 - 7462x^2 - 2704x - 325$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 3 & \frac{7}{2} \\ & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} - 22x^{10} + 8x^8 + 24x^6 - 4x^4 + 8x^2 - 24$ | $x^{12} + 6x^{10} - 96x^6 - 324x^4 - 432x^2 - 216$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 3 & \frac{7}{2} \\ & & \frac{7}{2} \end{array} \right]_1^6$ | I: 32,34 | $\frac{51}{16}$ |
| $x^{12} - 10x^{10} - 8x^8 - 8x^6 + 12x^4 + 8x^2 - 8$ | $x^{12} + 6x^{10} + 18x^8 + 48x^6 + 144x^4 + 216x^2 - 72$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 3 & \frac{7}{2} \\ & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-------------|------------------|
| $x^{12} - 6x^{10} - 20x^8 + 28x^4 - 8x^2 + 24$ | $x^{12} + 6x^{10} - 198x^8 - 720x^6 + 6552x^4 + 10584x^2 - 74088$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 6x^{10} + 24x^8 - 24x^6 + 12x^4 - 24x^2 - 24$ | $x^{12} - 6x^8 + 4x^6 + 24x^4 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |
| $x^{12} + 28x^{10} + 20x^8 - 16x^6 - 4x^4 - 8x^2 - 24$ | $x^{12} - 2x^{10} - 16x^8 + 44x^6 + 52x^4 - 208x^2 + 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} + 2x^{10} + 4x^8 + 16x^6 - 12x^4 - 24x^2 + 24$ | $x^{12} + 6x^{10} - 102x^8 - 600x^6 + 1260x^4 + 3528x^2 - 8232$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 8x^6 + 12x^4 - 8x^2 + 8$ | $x^{12} - 4x^{10} + 2x^8 - 8x^6 + 4x^4 - 16x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} + 32x^{10} + 24x^8 - 28x^6 + 12x^4 - 24x^2 - 24$ | $x^{12} + 6x^{10} - 34x^8 - 92x^6 + 456x^4 - 288x^2 - 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} - 4x^{10} - 4x^4 + 8x^2 - 8$ | $x^{12} - 6x^{10} - 180x^8 - 108x^6 + 4212x^4 + 5832x^2 - 5832$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} - 10x^{10} - 12x^4 - 8x^2 - 8$ | $x^{12} - 32x^{10} + 426x^8 - 3304x^6 + 16680x^4 - 45000x^2 + 27000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |
| $x^{12} - 30x^{10} - 20x^8 + 24x^6 + 4x^4 - 8x^2 + 24$ | $x^{12} + 78x^{10} - 282x^8 + 2568x^6 + 8568x^4 - 13608x^2 - 4200$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 2x^{10} - 16x^8 - 8x^6 + 12x^4 - 24x^2 - 24$ | $x^{12} - 6x^{10} + 96x^6 - 324x^4 + 432x^2 - 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |
| $x^{12} - 4x^{10} + 32x^8 - 24x^6 + 20x^4 - 8x^2 + 24$ | $x^{12} + 6x^{10} + 38x^8 + 112x^6 - 208x^2 - 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 20x^{10} - 16x^8 + 8x^6 - 12x^4 + 24x^2 - 8$ | $x^{12} - 18x^{10} + 72x^8 - 108x^6 + 60x^4 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 20x^{10} - 8x^8 + 20x^6 - 12x^4 + 24x^2 + 24$ | $x^{12} - 24x^8 + 36x^6 + 36x^4 - 72x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 32,46 | $\frac{47}{16}$ |
| $x^{12} + 10x^{10} + 28x^8 + 16x^6 + 4x^4 + 8x^2 + 24$ | $x^{12} - 72x^{10} + 1854x^8 - 21132x^6 + 111888x^4 - 254016x^2 - 74088$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} - 8x^{10} + 20x^8 - 24x^6 - 28x^4 + 24x^2 - 24$ | $x^{12} + 12x^{10} - 16x^8 - 1120x^6 - 7872x^4 - 18432x^2 - 13824$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 6x^{10} - 4x^8 - 8x^6 - 12x^4 - 24x^2 - 24$ | $x^{12} - 18x^{10} - 12x^8 + 72x^6 + 36x^4 - 72x^2 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 2x^{10} + 8x^6 + 12x^4 - 8x^2 - 8$ | $x^{12} - 2x^{10} - 6x^8 + 24x^6 - 32x^4 + 24x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 32,34 | $\frac{51}{16}$ |
| $x^{12} + 10x^{10} + 20x^8 - 8x^6 - 4x^4 + 24x^2 - 24$ | $x^{12} + 6x^{10} + 6x^8 - 24x^6 - 36x^4 + 72x^2 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 12x^{10} - 8x^8 + 16x^6 - 4x^4 + 8x^2 + 24$ | $x^{12} + 6x^{10} + 12x^8 + 12x^6 - 36x^4 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} + 18x^{10} - 4x^8 - 16x^6 - 12x^4 + 8x^2 + 24$ | $x^{12} - 66x^{10} - 480x^8 + 4080x^6 - 8316x^4 + 7056x^2 - 4200$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 20x^{10} - 16x^8 - 8x^6 + 4x^4 - 8x^2 - 24$ | $x^{12} - 10x^{10} - 176x^8 + 3052x^6 - 16836x^4 + 40464x^2 - 36504$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-------------|------------------|
| $x^{12} - 8x^{10} + 4x^6 - 20x^4 + 8x^2 - 24$ | $x^{12} - 10x^{10} + 2x^8 + 176x^6 - 108x^4 - 936x^2 - 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 3 & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 22x^{10} + 4x^8 - 32x^6 + 12x^4 - 24x^2 - 24$ | $x^{12} + 6x^{10} + 6x^8 - 24x^6 - 72x^4 - 72x^2 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 3 & 3 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 24x^{10} + 12x^8 - 8x^6 - 28x^4 - 28x^2 + 24x^2 + 24$ | $x^{12} + 32x^{10} + 246x^8 + 840x^6 + 1300x^4 + 416x^2 - 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 3 & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 12x^8 + 8x^6 - 28x^4 - 8x^2 - 24$ | $x^{12} + 24x^{10} + 104x^8 - 448x^6 - 6336x^4 + 23040x^2 - 13824$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 3 & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 26x^{10} + 8x^8 + 16x^6 - 28x^4 + 24x^2 + 24$ | $x^{12} + 6x^{10} + 24x^8 + 56x^6 + 84x^4 + 72x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 3 & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 32,27 | $\frac{51}{16}$ |
| $x^{12} - 6x^{10} - 20x^8 + 8x^6 + 12x^4 - 8x^2 - 24$ | $x^{12} - 6x^{10} + 6x^8 + 24x^6 - 72x^4 + 72x^2 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 3 & 3 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 8x^{10} - 4x^8 + 32x^6 - 4x^4 + 24x^2 + 24$ | $x^{12} - 20x^{10} + 142x^8 - 388x^6 + 96x^4 + 792x^2 + 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 3 & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} + 8x^{10} + 4x^8 + 12x^6 + 12x^4 - 8x^2 - 8$ | $x^{12} - 6x^{10} - 6x^8 + 68x^6 - 96x^4 + 48x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} - 4x^8 - 4x^4 - 8x^2 + 8$ | $x^{12} + 6x^{10} - 60x^6 - 108x^4 + 72$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} + 8x^{10} - 28x^8 - 8x^6 + 4x^4 - 8x^2 - 24$ | $x^{12} - 24x^{10} + 104x^8 + 448x^6 - 6336x^4 - 23040x^2 - 13824$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 8x^{10} + 12x^8 - 16x^6 + 12x^4 - 8x^2 + 8$ | $x^{12} - 6x^{10} - 18x^8 + 60x^6 + 216x^4 + 216x^2 + 72$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} + 4x^{10} - 32x^8 - 24x^6 + 4x^4 + 24x^2 + 24$ | $x^{12} + 22x^{10} + 118x^8 + 40x^6 - 1248x^4 - 3328x^2 - 2600$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 6x^{10} + 32x^8 - 24x^6 - 20x^4 + 8x^2 - 24$ | $x^{12} - 6x^{10} + 40x^6 - 84x^4 + 72x^2 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |
| $x^{12} + 16x^{10} + 20x^8 + 8x^6 - 12x^4 - 8x^2 + 24$ | $x^{12} + 16x^{10} + 94x^8 + 248x^6 + 260x^4 - 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-------------|------------------|
| $x^{12} + 4x^{10} + 12x^8 + 28x^4 + 24x^2 - 24$ | $x^{12} + 22x^{10} - 64x^8 + 196x^6 - 156x^4 - 416x^2 + 104$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} - 28x^{10} + 28x^8 - 16x^6 - 4x^4 - 8x^2 - 24$ | $x^{12} + 2x^{10} - 16x^8 - 44x^6 + 52x^4 + 208x^2 + 104$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} + 8x^{10} + 4x^8 - 4x^6 + 4x^4 + 8x^2 + 8$ | $x^{12} - 4x^{10} - 12x^8 + 76x^6 - 108x^4 + 40x^2 + 8$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 3 & 3 & 3 & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} - 4x^{10} + 4x^8 - 4x^4 - 8x^2 - 8$ | $x^{12} + 196608x^{10} - 6442450944x^8 + 140737488355328x^6 - 27670116110564327424x^4 + 906694364710971881029632x^2 - 9903520314283042199192993792$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} + 10x^{10} + 4x^8 + 4x^4 + 8x^2 + 8$ | $x^{12} + 6x^{10} - 186x^8 + 296x^6 + 4956x^4 - 15288x^2 - 2744$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 3 & 3 & 3 & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} - 6x^{10} - 4x^8 + 16x^6 - 28x^4 - 24x^2 - 24$ | $x^{12} + 18x^{10} - 12x^8 - 72x^6 + 36x^4 + 72x^2 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 16x^{10} - 12x^8 + 16x^6 + 28x^4 - 8x^2 - 24$ | $x^{12} - 14x^{10} + 22x^8 + 220x^6 - 312x^4 + 1144x^2 + 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} + 32x^{10} + 4x^8 + 32x^6 - 4x^4 + 24x^2 - 24$ | $x^{12} - 6x^{10} - 66x^8 - 164x^6 - 104x^4 + 104x^2 + 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} + 32x^{10} - 28x^8 - 20x^4 + 24x^2 - 8$ | $x^{12} + 12x^{10} + 48x^8 + 32x^6 + 192x^4 + 768x^2 - 512$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} + 16x^{10} - 12x^8 - 32x^6 - 20x^4 - 8x^2 + 24$ | $x^{12} - 2x^{10} - 76x^8 + 220x^6 + 108x^4 - 648x^2 + 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} - 6x^{10} + 12x^8 + 16x^6 + 12x^4 - 8x^2 - 8$ | $x^{12} + 12x^{10} + 42x^8 + 44x^6 - 24x^4 - 48x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 2x^{10} - 20x^8 - 8x^6 - 20x^4 - 8x^2 + 24$ | $x^{12} + 30x^{10} + 300x^8 + 720x^6 - 6300x^4 - 42336x^2 - 74088$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-------------|------------------|
| $x^{12} + 20x^{10} + 20x^8 - 16x^6 + 12x^4 + 24x^2 + 24$ | $x^{12} - 22x^{10} + 16x^8 + 388x^6 + 852x^4 + 720x^2 + 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} - 20x^{10} - 24x^8 + 12x^6 - 4x^4 + 8x^2 - 24$ | $x^{12} - 24x^{10} + 212x^8 - 860x^6 + 1572x^4 - 936x^2 - 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 4x^{10} + 16x^8 + 12x^4 + 8x^2 + 8$ | $x^{12} - 22x^8 - 56x^6 - 44x^4 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} - 16x^{10} - 8x^8 - 8x^6 + 12x^4 - 8x^2 - 8$ | $x^{12} - 18x^{10} + 18x^8 + 864x^6 - 1296x^4 - 11664x^2 - 5832$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} + 12x^{10} - 32x^8 - 20x^4 + 8x^2 + 24$ | $x^{12} + 12x^{10} + 48x^8 + 96x^6 + 108x^4 + 72x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} - 2x^{10} + 8x^8 + 16x^6 - 12x^4 - 8x^2 - 8$ | $x^{12} - 26x^{10} + 306x^8 - 2128x^6 + 9180x^4 - 23400x^2 + 27000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |
| $x^{12} + 4x^{10} + 4x^8 - 16x^6 + 12x^4 - 8x^2 + 8$ | $x^{12} - 6x^{10} - 24x^8 - 4x^6 + 36x^4 + 32x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} + 12x^{10} + 8x^8 - 8x^6 - 12x^4 - 8x^2 - 24$ | $x^{12} - 2x^{10} - 114x^8 + 308x^6 + 3552x^4 - 6840x^2 - 36504$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 2 \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 4x^{10} - 8x^8 - 12x^6 - 4x^4 + 8x^2 - 8$ | $x^{12} - 6x^{10} - 18x^8 + 4x^6 + 24x^4 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 6x^{10} + 32x^8 - 16x^6 + 20x^4 + 24x^2 + 24$ | $x^{12} - 6x^{10} + 24x^8 - 56x^6 + 84x^4 - 72x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 2 \\ & & & 2 \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |
| $x^{12} - 20x^{10} - 24x^8 + 4x^6 + 12x^4 - 24x^2 + 24$ | $x^{12} + 6x^{10} - 6x^8 - 60x^6 + 144x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} - 4x^{10} + 8x^8 - 8x^6 + 4x^4 - 8x^2 + 8$ | $x^{12} + 60x^{10} - 630x^8 - 2400x^6 + 18900x^4 - 243000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 2 \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 8x^{10} - 12x^8 - 4x^6 + 12x^4 + 8x^2 - 8$ | $x^{12} + 12x^{10} + 48x^8 + 68x^6 + 12x^4 - 24x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} - 24x^{10} + 20x^8 - 32x^6 - 28x^4 - 24x^2 + 8$ | $x^{12} - 30x^{10} + 90x^8 + 2100x^6 - 27000x^2 - 27000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 2 \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-------------|------------------|
| $x^{12} + 6x^{10} - 8x^8 - 8x^6 - 4x^4 + 8x^2 - 8$ | $x^{12} - 12x^{10} + 54x^8 - 132x^6 + 216x^4 - 648$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 3 \\ 3 \\ 3 \end{array} \begin{array}{c} \frac{7}{2} \\ \frac{7}{2} \\ \frac{7}{2} \end{array} \right]_1^6$ | I: 32,34 | $\frac{51}{16}$ |
| $x^{12} - 16x^{10} + 20x^8 + 8x^6 + 4x^4 + 24x^2 + 8$ | $x^{12} - 60x^{10} + 1170x^8 - 10200x^6 + 40500x^4 - 54000x^2 - 27000$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 3 \\ 3 \\ 3 \end{array} \begin{array}{c} \frac{7}{2} \\ \frac{7}{2} \\ \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 10x^{10} - 8x^8 - 24x^6 - 28x^4 - 8x^2 - 24$ | $x^{12} - 18x^{10} + 160x^8 - 840x^6 + 2548x^4 - 4056x^2 + 2600$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 3 \\ 3 \\ 3 \end{array} \begin{array}{c} \frac{7}{2} \\ \frac{7}{2} \\ \frac{7}{2} \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |
| $x^{12} - 6x^{10} + 4x^8 - 8x^6 - 12x^4 - 24x^2 - 24$ | $x^{12} - 48x^8 + 180x^6 - 252x^4 + 144x^2 - 24$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 3 \\ 3 \\ 3 \end{array} \begin{array}{c} \frac{7}{2} \\ \frac{7}{2} \\ \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 20x^{10} + 8x^8 - 24x^6 + 4x^4 + 24x^2 + 24$ | $x^{12} - 2x^{10} - 16x^8 + 44x^6 - 52x^4 + 104x^2 - 104$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 3 \\ 3 \\ 3 \end{array} \begin{array}{c} \frac{7}{2} \\ \frac{7}{2} \\ \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 10x^{10} - 8x^8 + 8x^6 - 12x^4 - 8x^2 + 8$ | $x^{12} - 4x^{10} + 6x^8 - 28x^6 + 48x^4 - 32x^2 + 8$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 3 \\ 3 \\ 3 \end{array} \begin{array}{c} \frac{7}{2} \\ \frac{7}{2} \\ \frac{7}{2} \end{array} \right]_1^3$ | I: 32,27 | $\frac{51}{16}$ |
| $x^{12} + 8x^{10} + 4x^6 + 4x^4 + 8x^2 + 8$ | $x^{12} - 6x^{10} - 6x^8 + 92x^6 - 160x^4 + 64x^2 + 8$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 3 \\ 3 \\ 3 \end{array} \begin{array}{c} \frac{7}{2} \\ \frac{7}{2} \\ \frac{7}{2} \end{array} \right]_1^3$ | I: 32,46 | $\frac{47}{16}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} + 30x^{10} + 16x^8 + 32x^6 - 12x^4 - 8x^2 + 24$ | $x^{12} + 6x^{10} - 24x^8 - 56x^6 + 84x^4 + 216x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |
| $x^{12} - 18x^{10} + 12x^8 - 16x^6 - 20x^4 + 8x^2 - 24$ | $x^{12} - 12x^{10} + 60x^8 - 132x^6 + 108x^4 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 12x^{10} + 32x^8 - 16x^6 + 12x^4 - 24x^2 - 24$ | $x^{12} + 10x^{10} - 10x^8 - 40x^6 + 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} + 4x^6 + 4x^4 + 8x^2 + 8$ | $x^{12} - 2x^{10} + 2x^8 + 4x^6 + 16x^4 - 16x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 32,46 | $\frac{47}{16}$ |
| $x^{12} + 6x^{10} - 4x^8 + 12x^4 + 8x^2 + 8$ | $x^{12} + 54x^{10} + 846x^8 + 4824x^6 + 2268x^4 - 58968x^2 - 113400$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 8x^{10} + 8x^8 - 8x^6 + 12x^4 - 8x^2 + 8$ | $x^{12} - 2x^{10} + 4x^8 - 36x^6 + 44x^4 - 32x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} - 18x^{10} - 16x^8 - 28x^4 - 8x^2 + 24$ | $x^{12} - 6x^{10} + 12x^8 - 16x^6 + 12x^4 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 32,27 | $\frac{51}{16}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} + 2x^{10} - 24x^8 - 8x^6 - 20x^4 + 8x^2 - 24$ | $x^{12} + 18x^{10} + 120x^8 + 464x^6 + 780x^4 + 432x^2 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |
| $x^{12} - 28x^{10} + 32x^8 - 16x^6 + 12x^4 - 24x^2 + 8$ | $x^{12} - 6x^{10} + 22x^8 - 48x^6 + 64x^4 - 48x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} + 20x^{10} + 28x^6 - 12x^4 + 24x^2 - 24$ | $x^{12} - 20x^{10} + 168x^8 - 772x^6 + 2132x^4 - 3432x^2 + 2600$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 32,46 | $\frac{47}{16}$ |
| $x^{12} - 12x^{10} + 16x^8 + 28x^4 + 8x^2 + 24$ | $x^{12} + 6x^{10} + 12x^8 + 12x^6 + 36x^4 + 72x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} - 4x^{10} - 8x^6 + 4x^4 - 8x^2 - 8$ | $x^{12} - 2x^{10} - 14x^8 - 12x^6 - 8x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 4x^6 - 4x^4 + 8x^2 - 8$ | $x^{12} - 12x^8 - 4x^6 + 36x^4 + 24x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 4x^8 + 12x^6 + 12x^4 - 8x^2 - 8$ | $x^{12} + 6x^{10} - 6x^8 - 68x^6 - 96x^4 - 48x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-------------|------------------|
| $x^{12} - 4x^{10} - 28x^8 + 32x^6 + 28x^4 + 24x^2 - 24$ | $x^{12} - 8x^{10} - 64x^9 + 77x^8 + 480x^7 + 230x^6 - 1588x^5 - 3268x^4 + 2672x^3 + 4806x^2 + 1908x + 83$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} + 2x^{10} + 8x^8 + 8x^6 - 4x^4 + 8x^2 + 8$ | $x^{12} - 22x^{10} - 44x^9 + 299x^8 + 720x^7 - 2282x^6 - 5272x^5 + 6690x^4 + 24872x^3 + 5054x^2 - 58520x - 42637$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 32,34 | $\frac{51}{16}$ |
| $x^{12} - 4x^8 - 32x^6 + 20x^4 - 24x^2 - 24$ | $x^{12} + 32x^{10} + 328x^8 + 1120x^6 + 384x^4 - 6912x^2 - 13824$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 28x^{10} + 32x^8 + 16x^6 + 12x^4 - 24x^2 - 8$ | $x^{12} - 6x^{10} - 180x^8 + 1404x^6 - 324x^4 - 7776x^2 - 5832$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} + 8x^8 + 28x^6 - 28x^4 + 8x^2 + 24$ | $x^{12} - 24x^8 - 36x^6 + 36x^4 + 72x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 32,46 | $\frac{47}{16}$ |
| $x^{12} + 6x^{10} + 8x^8 - 8x^6 + 4x^4 - 8x^2 + 8$ | $x^{12} - 6x^{10} + 24x^8 - 56x^6 + 68x^4 - 40x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-------------|------------------|
| $x^{12} - 8x^{10} + 4x^8 - 8x^6 + 4x^4 - 8x^2 - 8$ | $x^{12} - 4x^{10} - 2x^8 + 12x^6 + 8x^4 - 8x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 4x^{10} - 8x^8 - 8x^6 + 4x^4 - 8x^2 - 8$ | $x^{12} + 6x^{10} - 20x^6 + 12x^4 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 22x^{10} + 32x^8 + 24x^6 - 4x^4 - 24x^2 + 24$ | $x^{12} + 4x^{10} - 12x^8 + 12x^6 + 52x^4 - 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 32,34 | $\frac{51}{16}$ |
| $x^{12} + 8x^{10} - 4x^8 + 4x^6 + 12x^4 + 8x^2 + 8$ | $x^{12} - 2x^{10} - 10x^8 + 20x^6 + 16x^4 - 32x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} - 14x^{10} - 12x^8 + 12x^4 - 8x^2 - 8$ | $x^{12} - 12x^{10} + 12x^8 + 44x^6 - 84x^4 + 48x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 8x^8 - 4x^6 - 12x^4 + 8x^2 - 8$ | $x^{12} - 24x^8 - 20x^6 + 36x^4 + 24x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 32,46 | $\frac{47}{16}$ |
| $x^{12} - 16x^{10} - 28x^8 + 16x^6 - 12x^4 - 24x^2 - 24$ | $x^{12} - 32x^{10} + 328x^8 - 1120x^6 + 384x^4 + 6912x^2 - 13824$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} + 20x^8 - 12x^6 + 12x^4 + 8x^2 - 24$ | $x^{12} - 18x^{10} + 30x^8 + 188x^6 - 192x^4 - 576x^2 - 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} - 4x^{10} - 24x^8 + 32x^6 - 20x^4 - 24x^2 + 24$ | $x^{12} - 12x^{10} + 48x^8 - 96x^6 + 108x^4 - 72x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} + 20x^{10} - 8x^6 + 20x^4 + 24x^2 + 8$ | $x^{12} - 90x^{10} + 3150x^8 - 52900x^6 + 418800x^4 - 1215000x^2 - 3000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 14x^{10} + 28x^8 - 24x^6 - 4x^4 + 24x^2 + 24$ | $x^{12} + 72x^{10} + 972x^8 + 5508x^6 + 11340x^4 - 13608$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 20x^{10} - 8x^8 - 20x^4 - 24x^2 + 8$ | $x^{12} + 2x^{10} + 4x^8 - 20x^6 - 12x^4 - 24x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} + 4x^{10} + 28x^8 - 4x^4 + 24x^2 + 8$ | $x^{12} + 6x^{10} - 18x^8 - 60x^6 + 216x^4 - 216x^2 + 72$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} - 6x^{10} + 12x^8 + 4x^4 + 8x^2 - 8$ | $x^{12} + 28x^6 + 36x^4 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} + 12x^{10} + 12x^6 + 12x^4 + 8x^2 + 8$ | $x^{12} - 28x^8 + 28x^6 + 84x^4 - 56x^2 - 56$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 3 & 3 & 3 & 3 \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 6x^{10} - 12x^8 - 16x^6 + 12x^4 + 8x^2 + 8$ | $x^{12} + 54x^{10} + 468x^8 + 512x^6 - 8820x^4 - 34776x^2 - 35000$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 3 & 3 & 3 & 3 \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 6x^{10} - 4x^8 - 8x^6 + 12x^4 - 8x^2 - 8$ | $x^{12} - 18x^8 + 8x^6 + 72x^4 - 72x^2 - 8$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 3 & 3 & 3 & 3 \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 28x^{10} - 8x^8 - 24x^6 - 12x^4 + 24x^2 - 8$ | $x^{12} - 2x^{10} - 12x^6 + 28x^4 - 8x^2 - 8$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 3 & 3 & 3 & 3 \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 4x^{10} - 8x^8 - 4x^6 + 12x^4 + 8x^2 + 8$ | $x^{12} + 4x^{10} - 12x^8 - 20x^6 + 60x^4 - 40x^2 + 8$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 3 & 3 & 3 & 3 \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 2x^{10} + 16x^8 + 8x^6 + 12x^4 + 8x^2 + 8$ | $x^{12} - 2x^{10} - 8x^8 + 8x^6 + 28x^4 - 56$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 3 & 3 & 3 & 3 \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |
| $x^{12} + 14x^{10} - 24x^8 - 8x^6 + 28x^4 + 8x^2 + 24$ | $x^{12} - 6x^{10} - 14x^8 + 96x^6 + 156x^4 - 728x^2 - 104$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 3 & 3 & 3 & 3 \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \\ & & & & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 32,34 | $\frac{51}{16}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} + 30x^{10} - 8x^8 + 4x^4 - 8x^2 + 24$ | $x^{12} - 6x^{10} - 24x^8 + 56x^6 + 84x^4 - 216x^2 + 24$ | $\left[\begin{matrix} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \end{matrix} \right]_1^6$ | I: 32,27 | $\frac{51}{16}$ |
| $x^{12} + 12x^{10} - 8x^8 - 24x^6 - 28x^4 + 24x^2 - 24$ | $x^{12} + 8x^{10} - 102x^8 - 560x^6 + 3204x^4 + 7632x^2 - 36504$ | $\left[\begin{matrix} 2 & 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} \\ & & & & & \frac{7}{2} \end{matrix} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 20x^{10} + 16x^8 + 24x^6 + 20x^4 + 24x^2 + 24$ | $x^{12} + 10x^{10} - 62x^8 - 1028x^6 - 4160x^4 - 6344x^2 - 2600$ | $\left[\begin{matrix} 2 & 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} \\ & & & & & \frac{7}{2} \end{matrix} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 6x^{10} - 4x^8 - 8x^6 - 4x^4 - 8x^2 - 8$ | $x^{12} - 12x^{10} + 42x^8 - 44x^6 - 24x^4 + 48x^2 - 8$ | $\left[\begin{matrix} 2 & 2 & 3 & 3 & \frac{7}{2} & \frac{7}{2} \\ & & & & & \frac{7}{2} \end{matrix} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 30x^{10} + 20x^8 - 16x^6 - 4x^4 + 8x^2 - 24$ | $x^{12} - 6x^{10} - 12x^8 + 24x^6 + 36x^4 - 24$ | $\left[\begin{matrix} 2 & 2 & 3 & 3 & \frac{7}{2} & \frac{7}{2} \\ & & & & & \frac{7}{2} \end{matrix} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 10x^{10} + 12x^8 + 24x^6 + 12x^4 - 8x^2 + 24$ | $x^{12} + 54x^{10} + 468x^8 - 8280x^6 - 23436x^4 - 63504x^2 - 74088$ | $\left[\begin{matrix} 2 & 2 & 3 & 3 & \frac{7}{2} & \frac{7}{2} \\ & & & & & \frac{7}{2} \end{matrix} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 26x^{10} - 4x^8 + 8x^6 + 28x^4 + 24x^2 + 24$ | $x^{12} + 24x^{10} + 150x^8 - 720x^6 - 12600x^4 - 52920x^2 - 74088$ | $\left[\begin{matrix} 2 & 2 & 3 & 3 & \frac{7}{2} & \frac{7}{2} \\ & & & & & \frac{7}{2} \end{matrix} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-------------|------------------|
| $x^{12} + 12x^8 + 20x^6 + 12x^4 + 24x^2 - 24$ | $x^{12} + 18x^{10} + 86x^8 + 92x^6 - 192x^4 - 432x^2 - 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 4x^8 - 4x^6 + 4x^4 + 8x^2 + 8$ | $x^{12} - 56x^8 + 252x^6 - 420x^4 + 280x^2 - 56$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} - 8x^6 - 4x^4 - 8x^2 - 8$ | $x^{12} - 12x^{10} - 90x^8 + 648x^6 + 1620x^4 - 3888x^2 - 5832$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} - 18x^{10} - 24x^8 - 8x^6 + 12x^4 + 8x^2 + 24$ | $x^{12} - 8x^{10} - 100x^8 - 356x^6 - 572x^4 - 416x^2 - 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |
| $x^{12} - 14x^{10} - 4x^8 + 24x^6 + 20x^4 - 24x^2 - 24$ | $x^{12} + 18x^{10} + 78x^8 + 72x^6 - 36x^4 - 72x^2 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 14x^{10} - 8x^8 + 8x^6 - 4x^4 - 8x^2 - 8$ | $x^{12} + 2x^{10} - 6x^8 - 24x^6 - 32x^4 - 24x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |
| $x^{12} - 6x^{10} + 8x^6 - 4x^4 + 8x^2 + 8$ | $x^{12} + 8x^{10} + 26x^8 + 20x^6 - 56x^4 - 112x^2 - 56$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 32,34 | $\frac{51}{16}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-------------|------------------|
| $x^{12} - 10x^{10} + 32x^8 - 8x^6 - 20x^4 - 24x^2 + 24$ | $x^{12} - 10x^{10} + 42x^8 - 64x^6 - 52x^4 + 312x^2 - 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |
| $x^{12} + 8x^{10} + 24x^6 - 20x^4 - 8x^2 - 24$ | $x^{12} - 14x^{10} + 74x^8 - 196x^6 + 312x^4 - 312x^2 + 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} - 4x^{10} + 8x^8 - 32x^6 - 4x^4 - 24x^2 - 8$ | $x^{12} + 6x^{10} - 180x^8 + 108x^6 + 4212x^4 - 5832x^2 - 5832$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} + 28x^{10} + 16x^8 - 24x^6 + 4x^4 + 24x^2 + 8$ | $x^{12} - 30x^{10} + 5700x^6 - 62100x^4 + 243000x^2 - 243000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 16x^{10} - 12x^8 + 16x^6 - 4x^4 + 24x^2 + 8$ | $x^{12} + 6x^{10} - 24x^8 + 4x^6 + 36x^4 - 32x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} + 10x^{10} - 12x^8 - 8x^6 + 4x^4 + 8x^2 + 8$ | $x^{12} + 84x^{10} - 126x^8 + 308x^6 + 2352x^4 - 2744$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 28x^8 + 8x^6 - 12x^4 + 24x^2 - 8$ | $x^{12} + 6x^{10} + 6x^8 - 12x^6 + 24x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} - 14x^{10} - 12x^8 - 8x^6 + 4x^4 - 8x^2 - 8$ | $x^{12} - 28x^6 + 36x^4 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 6x^{10} - 4x^8 - 4x^4 - 8x^2 - 8$ | $x^{12} - 18x^8 - 8x^6 + 72x^4 + 72x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 4x^{10} + 24x^8 - 32x^6 - 4x^4 - 24x^2 - 24$ | $x^{12} - 32x^{10} + 376x^8 - 1880x^6 + 4108x^4 - 3224x^2 + 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} + 6x^{10} + 8x^6 + 4x^4 + 8x^2 + 8$ | $x^{12} + 108x^6 + 396x^4 + 432x^2 + 72$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 32,27 | $\frac{51}{16}$ |
| $x^{12} + 2x^{10} - 4x^8 - 8x^6 - 4x^4 - 8x^2 - 24$ | $x^{12} + 6x^{10} - 12x^8 - 24x^6 + 36x^4 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 2x^{10} - 24x^8 + 24x^6 + 4x^4 + 24x^2 - 24$ | $x^{12} - 10x^{10} + 42x^8 - 64x^6 - 104x^2 + 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |
| $x^{12} - 14x^{10} + 8x^6 - 4x^4 - 8x^2 - 8$ | $x^{12} + 4x^{10} + 4x^8 + 4x^6 + 20x^4 + 16x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} + 8x^{10} - 4x^8 - 12x^4 + 8x^2 + 8$ | $x^{12} - 72x^{10} - 4x^9 + 1734x^8 - 924x^7 - 18662x^6 + 25692x^5 + 86625x^4 - 195816x^3 - 77646x^2 + 451932x - 287659$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 4x^{10} - 8x^6 + 4x^4 - 8x^2 + 8$ | $x^{12} - 60x^{10} - 630x^8 + 2400x^6 + 18900x^4 - 243000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 26x^{10} - 8x^8 + 8x^6 - 12x^4 + 8x^2 - 24$ | $x^{12} + 8x^{10} + 30x^8 + 200x^6 + 312x^4 + 520x^2 + 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |
| $x^{12} - 4x^8 - 16x^6 - 28x^4 - 24x^2 - 8$ | $x^{12} + 4x^{10} - 2x^8 - 12x^6 + 8x^4 + 8x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 22x^{10} + 4x^8 - 24x^6 - 12x^4 - 8x^2 + 24$ | $x^{12} + 66x^{10} - 480x^8 - 4080x^6 - 8316x^4 - 7056x^2 - 4200$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 6x^{10} + 12x^8 - 12x^4 + 8x^2 - 8$ | $x^{12} - 6x^{10} + 6x^8 + 8x^6 - 24x^4 + 24x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|------------------|
| $x^{12} + 2x^{10} + 20x^8 - 32x^6 - 28x^4 - 24x^2 - 24$ | $x^{12} - 30x^8 - 72x^6 + 72x^2 - 24$ | $\begin{bmatrix} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 2 & 3 \\ & & & 2 \end{bmatrix}_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 10x^{10} - 12x^8 - 8x^6 + 4x^4 - 8x^2 - 8$ | $x^{12} + 6x^{10} + 12x^8 + 8x^6 - 12x^4 - 24x^2 - 8$ | $\begin{bmatrix} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 2 & 3 \\ & & & 2 \end{bmatrix}_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 2x^{10} + 8x^6 - 4x^4 + 8x^2 + 8$ | $x^{12} - 4x^{10} - 52x^9 - 49x^8 + 232x^7 + 1398x^6 - 172x^5 - 1418x^4 - 19392x^3 + 22064x^2 + 6836x - 15233$ | $\begin{bmatrix} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 2 & 3 \\ & & & 2 \end{bmatrix}_1^6$ | I: 32,34 | $\frac{51}{16}$ |
| $x^{12} - 2x^{10} - 8x^8 - 8x^6 - 12x^4 + 8x^2 + 8$ | $x^{12} - 108x^6 + 396x^4 - 432x^2 + 72$ | $\begin{bmatrix} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 2 \end{bmatrix}_1^3$ | I: 64,202 | $\frac{103}{32}$ |
| $x^{12} + 6x^{10} + 32x^8 - 16x^6 + 4x^4 + 24x^2 + 24$ | $x^{12} + 18x^{10} + 126x^8 + 416x^6 + 624x^4 + 360x^2 + 24$ | $\begin{bmatrix} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 2 & 3 \\ & & & 2 \end{bmatrix}_1^6$ | I: 32,27 | $\frac{51}{16}$ |
| $x^{12} - 6x^{10} + 12x^8 - 8x^6 - 12x^4 + 8x^2 + 8$ | $x^{12} - 18x^{10} - 396x^8 - 4976x^6 - 33516x^4 - 63000x^2 - 35000$ | $\begin{bmatrix} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 2 & 3 \\ & & & 2 \end{bmatrix}_1^6$ | I: 64,77 | $\frac{105}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-------------|------------------|
| $x^{12} + 16x^{10} + 8x^8 + 4x^6 - 12x^4 - 24x^2 - 24$ | $x^{12} - 14x^{10} + 178x^8 - 716x^6 + 1872x^4 - 2912x^2 + 2600$ | $\begin{bmatrix} 2 & 3 \\ & 2 \end{bmatrix}_1^3$ | I: 8,3 | $\frac{11}{4}$ |
| $x^{12} + 28x^{10} + 16x^8 + 24x^6 - 12x^4 + 24x^2 - 24$ | $x^{12} - 32x^{10} + 384x^8 - 1960x^6 + 2148x^4 + 14472x^2 - 36504$ | $\begin{bmatrix} 2 & 2 & 3 \\ & 2 & 3 \\ & & 2 \end{bmatrix}_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 2x^{10} + 4x^8 - 8x^6 + 12x^4 - 8x^2 - 8$ | $x^{12} - 18x^{10} - 36x^8 + 8x^6 + 36x^4 - 8$ | $\begin{bmatrix} 2 & 2 & 3 & 3 \\ & 2 & 3 \\ & & 2 \end{bmatrix}_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 32x^{10} + 12x^8 - 16x^6 - 12x^4 + 8x^2 - 24$ | $x^{12} + 32x^{10} + 332x^8 + 944x^6 - 3948x^4 - 24696x^2 - 10584$ | $\begin{bmatrix} 2 & 2 & 3 \\ & 2 & 3 \\ & & 2 \end{bmatrix}_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 4x^{10} - 28x^8 + 16x^6 + 28x^4 + 24x^2 - 8$ | $x^{12} + 6x^{10} - 6x^8 + 4x^6 - 24x^4 + 24x^2 - 8$ | $\begin{bmatrix} 2 & 2 & 3 \\ & 2 & 3 \\ & & 2 \end{bmatrix}_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} + 32x^{10} + 32x^8 - 4x^6 + 20x^4 + 8x^2 + 24$ | $x^{12} - 18x^{10} + 102x^8 - 252x^6 + 288x^4 - 144x^2 + 24$ | $\begin{bmatrix} 2 & 3 \\ & 2 \end{bmatrix}_1^3$ | I: 8,3 | $\frac{11}{4}$ |
| $x^{12} + 28x^{10} - 4x^8 - 32x^6 - 20x^4 + 24x^2 + 8$ | $x^{12} - 6x^{10} + 60x^6 - 108x^4 + 72$ | $\begin{bmatrix} 2 & 2 & 3 \\ & 2 & 3 \\ & & 2 \end{bmatrix}_1^3$ | I: 128,1599 | $\frac{215}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-------------|------------------|
| $x^{12} - 8x^{10} + 4x^8 - 16x^6 + 4x^4 - 24x^2 + 24$ | $x^{12} + 4x^{10} - 12x^8 - 40x^6 + 52x^4 + 104x^2 - 104$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} \\ & & & & & & \end{bmatrix}_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 24x^{10} + 4x^8 + 24x^6 + 20x^4 + 24x^2 - 8$ | $x^{12} - 2x^{10} - 4x^8 + 12x^6 + 4x^4 - 16x^2 - 8$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} \\ & & & & & & \end{bmatrix}_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 6x^{10} + 16x^8 + 8x^6 + 12x^4 + 8x^2 - 8$ | $x^{12} + 12x^{10} + 54x^8 + 132x^6 + 216x^4 - 648$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} \\ & & & & & \end{bmatrix}_1^3$ | I: 64,211 | $\frac{103}{32}$ |
| $x^{12} + 16x^{10} + 12x^8 - 20x^6 - 4x^4 + 8x^2 + 24$ | $x^{12} - 12x^{10} + 48x^8 - 60x^6 - 36x^4 + 72x^2 + 24$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & 3 & 3 & \frac{7}{2} \\ & & & & & & \end{bmatrix}_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 16x^{10} + 16x^8 - 4x^6 - 12x^4 + 8x^2 - 8$ | $x^{12} - 12x^{10} + 212x^6 + 276x^4 + 72x^2 - 8$ | $\begin{bmatrix} 2 & 3 & \frac{7}{2} \\ & & \end{bmatrix}_1^3$ | I: 8,3 | $\frac{11}{4}$ |
| $x^{12} - 14x^{10} + 4x^8 + 16x^6 - 4x^4 - 8x^2 - 8$ | $x^{12} + 18x^{10} - 36x^8 - 8x^6 + 36x^4 - 8$ | $\begin{bmatrix} 2 & 2 & 3 & 3 & \frac{7}{2} & \frac{7}{2} \\ & & & & & \end{bmatrix}_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 20x^8 - 4x^6 - 20x^4 - 8x^2 + 24$ | $x^{12} + 12x^{10} + 48x^8 + 60x^6 - 36x^4 - 72x^2 + 24$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & 3 & 3 & \frac{7}{2} \\ & & & & & & \end{bmatrix}_1^3$ | I: 128,1578 | $\frac{203}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-------------|------------------|
| $x^{12} + 14x^{10} + 8x^6 + 4x^4 - 8x^2 + 8$ | $x^{12} + 4x^{10} + 6x^8 + 28x^6 + 48x^4 + 32x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |
| $x^{12} + 6x^{10} - 8x^8 + 4x^4 - 8x^2 - 8$ | $x^{12} - 4x^{11} - 46x^{10} + 68x^9 + 943x^8 + 684x^7 - 7546x^6 - 17708x^5 + 8822x^4 + 91436x^3 + 161746x^2 + 139976x + 53759$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 32,27 | $\frac{51}{16}$ |
| $x^{12} - 22x^{10} - 12x^8 - 32x^6 + 4x^4 - 24x^2 - 24$ | $x^{12} - 48x^8 - 180x^6 - 252x^4 - 144x^2 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 12x^{10} - 12x^8 + 16x^6 - 4x^4 - 8x^2 + 8$ | $x^{12} - 2x^{10} - 12x^8 + 4x^6 + 44x^4 + 40x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} + 28x^{10} - 20x^8 - 32x^6 - 20x^4 - 8x^2 + 24$ | $x^{12} + 22x^{10} + 16x^8 - 388x^6 + 852x^4 - 720x^2 + 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} + 16x^{10} - 12x^8 + 16x^6 + 12x^4 - 8x^2 - 8$ | $x^{12} + 6x^{10} + 12x^8 + 4x^6 + 12x^4 + 24x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-------------|------------------|
| $x^{12} - 16x^{10} - 28x^8 + 4x^4 - 24x^2 - 8$ | $x^{12} - 6x^{10} + 12x^6 - 12x^4 - 24x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 24x^{10} + 8x^8 - 8x^6 + 28x^4 + 24x^2 - 8$ | $x^{12} + 12x^{10} - 90x^8 - 648x^6 + 1620x^4 + 3888x^2 - 5832$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} + 20x^{10} - 24x^8 - 8x^6 + 20x^4 + 24x^2 + 24$ | $x^{12} - 4x^{10} - 28x^9 + 25x^8 + 248x^7 - 482x^6 - 76x^5 + 1374x^4 - 2288x^3 + 1644x^2 - 388x + 5$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 12x^{10} - 8x^8 + 24x^6 - 12x^4 + 24x^2 - 24$ | $x^{12} + 32x^{10} + 384x^8 + 1960x^6 + 2148x^4 - 14472x^2 - 36504$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 8x^{10} - 20x^8 - 8x^6 - 28x^4 + 24x^2 + 8$ | $x^{12} + 60x^{10} + 1170x^8 + 10200x^6 + 40500x^4 + 54000x^2 - 27000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 6x^{10} + 16x^8 + 8x^6 + 12x^4 + 8x^2 + 8$ | $x^{12} - 24x^{10} + 228x^8 - 1396x^6 + 7860x^4 - 21600x^2 - 27000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} + 4x^{10} + 8x^8 - 8x^6 - 12x^4 - 8x^2 - 8$ | $x^{12} + 18x^{10} + 72x^8 + 108x^6 + 60x^4 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 4x^8 + 4x^6 + 12x^4 + 8x^2 + 8$ | $x^{12} - 14x^{10} + 70x^8 - 140x^6 + 56x^4 + 112x^2 - 56$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 12x^{10} + 32x^8 + 8x^6 - 28x^4 + 24x^2 - 24$ | $x^{12} - 8x^{10} - 102x^8 + 560x^6 + 3204x^4 - 7632x^2 - 36504$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 6x^{10} + 24x^8 - 24x^6 - 20x^4 - 24x^2 + 24$ | $x^{12} - 4x^{10} - 12x^8 - 12x^6 + 52x^4 - 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 2 \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |
| $x^{12} + 22x^{10} - 24x^8 - 8x^6 + 20x^4 - 8x^2 - 24$ | $x^{12} - 10x^{10} - 4x^9 - 21x^8 - 320x^7 - 800x^6 - 304x^5 + 1534x^4 + 2080x^3 - 180x^2 - 1764x - 837$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 2 \end{array} \right]_1^6$ | I: 32,27 | $\frac{51}{16}$ |
| $x^{12} + 20x^{10} + 8x^8 - 24x^6 + 4x^4 - 8x^2 + 24$ | $x^{12} - 22x^{10} + 118x^8 - 40x^6 - 1248x^4 + 3328x^2 - 2600$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 6x^{10} + 4x^4 - 8x^2 - 8$ | $x^{12} + 2x^{10} + 6x^8 - 8x^6 - 56x^2 + 56$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 2 \end{array} \right]_1^3$ | I: 32,27 | $\frac{51}{16}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} - 6x^{10} - 4x^8 + 8x^6 + 4x^4 + 8x^2 + 8$ | $x^{12} + 30x^{10} + 384x^8 + 2960x^6 + 13188x^4 + 16800x^2 - 35000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 2x^{10} + 16x^8 - 8x^6 - 12x^4 - 8x^2 + 8$ | $x^{12} + 6x^{10} + 24x^8 + 56x^6 + 68x^4 + 40x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 32,27 | $\frac{51}{16}$ |
| $x^{12} - 12x^{10} + 8x^8 - 24x^6 + 4x^4 + 24x^2 - 8$ | $x^{12} + 2x^{10} - 14x^8 + 12x^6 + 8x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 4x^8 - 8x^6 + 4x^4 - 8x^2 - 8$ | $x^{12} + 6x^{10} - 12x^6 - 12x^4 + 24x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 30x^{10} + 8x^8 - 8x^6 + 20x^4 - 24x^2 - 24$ | $x^{12} - 4x^{10} + 14x^8 + 40x^6 - 104x^4 + 104x^2 + 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |
| $x^{12} + 12x^{10} + 28x^8 + 16x^6 - 20x^4 + 24x^2 - 8$ | $x^{12} - 6x^{10} + 18x^8 - 32x^6 + 24x^4 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} - 2x^{10} + 24x^8 - 24x^6 - 12x^4 + 24x^2 - 24$ | $x^{12} + 4x^{10} + 14x^8 - 40x^6 - 104x^4 - 104x^2 + 104$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 32,27 | $\frac{51}{16}$ |
| $x^{12} - 8x^{10} - 4x^6 - 4x^4 + 8x^2 - 8$ | $x^{12} - 12x^8 + 4x^6 + 36x^4 - 24x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & 3 & 3 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} + 2x^{10} - 12x^8 - 8x^6 + 12x^4 - 8x^2 + 8$ | $x^{12} + 78x^{10} + 2364x^8 + 34768x^6 + 247044x^4 + 669648x^2 - 35000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 14x^{10} - 20x^8 - 32x^6 - 4x^4 - 8x^2 + 24$ | $x^{12} - 30x^{10} + 300x^8 - 720x^6 - 6300x^4 + 42336x^2 - 74088$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 2x^{10} - 8x^8 + 32x^6 + 20x^4 - 8x^2 + 24$ | $x^{12} + 6x^{10} + 12x^8 + 16x^6 + 12x^4 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |
| $x^{12} + 4x^{10} + 16x^8 + 24x^6 - 12x^4 - 8x^2 - 24$ | $x^{12} + 2x^{10} - 114x^8 - 308x^6 + 3552x^4 + 6840x^2 - 36504$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 2x^{10} + 16x^8 + 16x^6 - 12x^4 - 8x^2 - 8$ | $x^{12} - 8x^{10} + 26x^8 - 48x^6 + 56x^4 - 56x^2 + 56$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |
| $x^{12} - 14x^{10} + 4x^8 + 24x^6 + 20x^4 - 24x^2 - 24$ | $x^{12} - 30x^8 + 72x^6 - 72x^2 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 2x^{10} - 8x^8 + 8x^6 + 12x^4 - 8x^2 - 8$ | $x^{12} - 4x^{10} + 4x^8 - 4x^6 + 20x^4 - 16x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 32,34 | $\frac{51}{16}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-------------|------------------|
| $x^{12} + 2x^{10} - 12x^8 - 8x^6 - 12x^4 - 8x^2 - 8$ | $x^{12} + 6x^{10} + 6x^8 - 8x^6 - 24x^4 - 24x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 8x^{10} + 8x^8 - 8x^6 + 28x^4 - 8x^2 - 24$ | $x^{12} - 6x^{10} - 170x^8 - 736x^6 - 1040x^4 - 416x^2 + 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} - 16x^{10} - 12x^8 + 32x^6 + 20x^4 + 8x^2 - 24$ | $x^{12} - 32x^{10} + 332x^8 - 944x^6 - 3948x^4 + 24696x^2 - 10584$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 4x^{10} - 16x^8 - 32x^6 - 4x^4 + 8x^2 - 24$ | $x^{12} + 14x^{10} + 74x^8 + 196x^6 + 312x^4 + 312x^2 + 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} + 32x^{10} - 28x^8 - 20x^6 - 4x^4 - 8x^2 + 24$ | $x^{12} - 6x^{10} - 6x^8 + 60x^6 - 72x^4 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 30x^{10} - 16x^8 - 24x^6 + 28x^4 + 8x^2 + 24$ | $x^{12} + 8x^{10} - 100x^8 + 356x^6 - 572x^4 + 416x^2 - 104$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 32,34 | $\frac{51}{16}$ |
| $x^{12} - 6x^{10} - 8x^8 + 16x^6 - 12x^4 - 8x^2 - 8$ | $x^{12} - 6x^{10} - 2x^8 + 48x^6 - 168x^2 + 56$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} - 12x^{10} - 8x^8 - 16x^6 + 12x^4 + 8x^2 - 8$ | $x^{12} + 6x^{10} - 180x^8 - 1404x^6 - 324x^4 + 7776x^2 - 5832$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} + 12x^{10} - 24x^6 + 4x^4 - 8x^2 + 24$ | $x^{12} + 2x^{10} - 16x^8 - 44x^6 - 52x^4 - 104x^2 - 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 8x^{10} - 12x^8 - 16x^6 - 12x^4 + 8x^2 + 8$ | $x^{12} + 60x^{10} + 1320x^8 + 12800x^6 + 48000x^4 - 192000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 28x^{10} - 8x^8 - 8x^6 + 4x^4 - 8x^2 - 24$ | $x^{12} + 10x^{10} - 176x^8 - 3052x^6 - 16836x^4 - 40464x^2 - 36504$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 24x^{10} - 28x^8 + 16x^6 + 28x^4 - 8x^2 + 24$ | $x^{12} + 20x^{10} + 142x^8 + 388x^6 + 96x^4 - 792x^2 + 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} - 6x^{10} - 4x^8 + 4x^4 + 8x^2 + 8$ | $x^{12} + 18x^{10} - 396x^8 + 4976x^6 - 33516x^4 + 63000x^2 - 35000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 6x^{10} + 4x^8 - 12x^4 + 8x^2 + 8$ | $x^{12} - 84x^{10} - 126x^8 - 308x^6 + 2352x^4 - 2744$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-------------|------------------|
| $x^{12} + 10x^{10} - 4x^8 - 8x^6 + 12x^4 - 8x^2 + 8$ | $x^{12} - 54x^{10} + 468x^8 - 512x^6 - 8820x^4 + 34776x^2 - 35000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 8x^{10} - 16x^8 - 28x^6 + 20x^4 - 24x^2 - 24$ | $x^{12} + 2x^{10} - 40x^9 + 43x^8 + 16x^7 + 464x^6 - 1256x^5 + 479x^4 - 800x^3 + 7166x^2 - 11600x + 5725$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 32,46 | $\frac{47}{16}$ |
| $x^{12} + 8x^{10} + 20x^8 - 32x^6 - 20x^4 + 24x^2 + 8$ | $x^{12} + 2x^{10} - 12x^8 - 4x^6 + 44x^4 - 40x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} - 10x^{10} + 28x^8 - 32x^6 + 28x^4 - 24x^2 - 24$ | $x^{12} - 6x^{10} + 6x^8 + 24x^6 - 36x^4 - 72x^2 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 24x^{10} + 24x^8 - 24x^6 + 12x^4 + 24x^2 + 8$ | $x^{12} + 10x^{10} + 36x^8 + 60x^6 + 60x^4 + 48x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} - 14x^{10} - 24x^6 - 4x^4 - 24x^2 - 24$ | $x^{12} - 6x^8 - 4x^6 + 24x^4 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 32,34 | $\frac{51}{16}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} - 14x^{10} + 8x^8 - 8x^6 + 12x^4 + 8x^2 + 8$ | $x^{12} + 12x^{10} + 34x^8 - 20x^6 - 56x^4 + 224x^2 - 56$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |
| $x^{12} + 26x^{10} - 28x^8 + 16x^6 + 4x^4 - 24x^2 + 24$ | $x^{12} - 78x^{10} - 282x^8 - 2568x^6 + 8568x^4 + 13608x^2 - 4200$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 8x^{10} + 12x^8 + 12x^6 - 28x^4 + 24x^2 - 24$ | $x^{12} + 12x^{10} + 32x^8 - 92x^6 - 516x^4 - 648x^2 - 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & 3 \\ & & & 3 \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} - 12x^{10} + 8x^8 + 16x^6 + 12x^4 + 8x^2 + 8$ | $x^{12} - 22x^8 + 56x^6 - 44x^4 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} - 20x^{10} - 16x^8 - 16x^6 + 12x^4 - 24x^2 + 24$ | $x^{12} - 12x^{10} - 6x^8 + 12x^6 + 72x^4 + 72x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} - 2x^{10} + 16x^8 + 16x^6 + 4x^4 - 8x^2 - 8$ | $x^{12} - 26x^{10} + 194x^8 - 896x^6 + 5820x^4 - 23400x^2 + 27000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 32,27 | $\frac{51}{16}$ |
| $x^{12} + 30x^{10} - 16x^8 + 8x^6 + 12x^4 + 8x^2 + 24$ | $x^{12} + 6x^{10} - 14x^8 - 96x^6 + 156x^4 + 728x^2 - 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} - 2x^{10} + 8x^8 + 8x^6 + 4x^4 + 8x^2 + 8$ | $x^{12} - 18x^{10} + 90x^8 - 216x^6 + 288x^4 - 216x^2 + 72$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 32,27 | $\frac{51}{16}$ |
| $x^{12} + 12x^8 - 12x^4 + 8x^2 - 8$ | $x^{12} + 2x^{10} - 4x^8 - 12x^6 + 4x^4 + 16x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 16x^{10} + 16x^8 - 8x^6 + 28x^4 + 24x^2 - 24$ | $x^{12} - 10x^{10} - 10x^8 + 40x^6 + 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} + 6x^{10} + 16x^8 - 8x^6 - 12x^4 + 8x^2 + 8$ | $x^{12} + 18x^{10} + 90x^8 + 216x^6 + 288x^4 + 216x^2 + 72$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |
| $x^{12} - 10x^{10} - 24x^8 + 16x^6 - 12x^4 + 24x^2 + 24$ | $x^{12} - 18x^{10} + 126x^8 - 416x^6 + 624x^4 - 360x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |
| $x^{12} - 20x^{10} + 20x^8 - 16x^6 + 28x^4 + 24x^2 + 24$ | $x^{12} - 4x^{11} - 18x^{10} + 124x^9 - 195x^8 - 444x^7 + 3300x^6 - 8908x^5 + 11662x^4 - 4572x^3 - 4452x^2 + 3724x - 49$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} + 2x^{10} - 8x^8 + 8x^6 + 28x^4 - 24x^2 - 24$ | $x^{12} + 6x^{10} - 40x^6 - 84x^4 - 72x^2 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 32,34 | $\frac{51}{16}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-------------|------------------|
| $x^{12} + 10x^{10} + 28x^8 - 16x^6 + 12x^4 - 8x^2 + 24$ | $x^{12} - 24x^{10} + 150x^8 + 720x^6 - 12600x^4 + 52920x^2 - 74088$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 4x^{10} - 8x^8 + 8x^6 + 4x^4 + 24x^2 + 8$ | $x^{12} + 30x^{10} - 5700x^6 - 62100x^4 - 243000x^2 - 243000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 12x^{10} + 16x^8 + 8x^6 - 12x^4 - 8x^2 + 8$ | $x^{12} - 72x^{10} - 124x^9 + 1764x^8 + 6876x^7 - 4992x^6 - 72648x^5 - 126675x^4 + 44264x^3 + 341154x^2 + 113472x - 194669$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 20x^{10} + 8x^8 + 24x^6 + 20x^4 + 24x^2 + 8$ | $x^{12} + 90x^{10} + 3150x^8 + 52900x^6 + 418800x^4 + 1215000x^2 - 3000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 16x^{10} - 4x^8 + 4x^6 - 12x^4 - 8x^2 + 24$ | $x^{12} + 6x^{10} - 6x^8 - 60x^6 - 72x^4 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} - 8x^{10} + 12x^8 + 12x^6 - 20x^4 - 24x^2 + 24$ | $x^{12} + 6x^{10} - 42x^8 + 48x^6 + 36x^4 - 72x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} + 10x^{10} - 12x^8 - 8x^6 - 12x^4 - 8x^2 - 8$ | $x^{12} - 18x^8 + 28x^6 - 8$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 3 & \frac{7}{2} \\ & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 22x^{10} - 24x^8 - 8x^6 - 28x^4 - 24x^2 - 24$ | $x^{12} + 18x^{10} + 160x^8 + 840x^6 + 2548x^4 + 4056x^2 + 2600$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 3 & \frac{7}{2} \\ & & \frac{7}{2} \end{array} \right]_1^6$ | I: 32,27 | $\frac{51}{16}$ |
| $x^{12} - 24x^{10} + 12x^8 + 32x^6 - 12x^4 - 24x^2 + 24$ | $x^{12} - 16x^{10} + 94x^8 - 248x^6 + 260x^4 - 104$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 3 & \frac{7}{2} \\ & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 24x^{10} - 20x^8 + 16x^6 + 4x^4 - 24x^2 + 8$ | $x^{12} + 30x^{10} + 90x^8 - 2100x^6 + 27000x^2 - 27000$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 3 & \frac{7}{2} \\ & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 12x^{10} - 8x^6 - 12x^4 - 8x^2 - 8$ | $x^{12} + 2x^{10} + 12x^6 + 28x^4 + 8x^2 - 8$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 3 & \frac{7}{2} \\ & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 6x^{10} + 8x^8 + 8x^6 - 4x^4 + 8x^2 + 8$ | $x^{12} + 2x^{10} - 8x^8 - 8x^6 + 28x^4 - 56$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 3 & \frac{7}{2} \\ & & \frac{7}{2} \end{array} \right]_1^3$ | I: 32,34 | $\frac{51}{16}$ |
| $x^{12} + 20x^{10} - 4x^8 - 32x^6 - 4x^4 - 8x^2 + 24$ | $x^{12} + 18x^{10} + 18x^8 - 220x^6 - 456x^4 + 72x^2 + 216$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 3 & \frac{7}{2} \\ & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} + 10x^{10} - 8x^8 + 8x^6 + 12x^4 + 8x^2 + 8$ | $x^{12} - 4x^{11} + 20x^{10} - 12x^9 + 59x^8 - 628x^7 + 3294x^6 - 14608x^5 + 33466x^4 - 74348x^3 + 88284x^2 - 102172x + 38227$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |
| $x^{12} - 2x^{10} - 12x^8 + 8x^6 - 4x^4 - 8x^2 - 8$ | $x^{12} + 12x^{10} + 12x^8 - 44x^6 - 84x^4 - 48x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 10x^{10} - 12x^8 - 8x^6 + 12x^4 - 8x^2 + 8$ | $x^{12} - 12x^{10} - 246x^8 - 232x^6 + 5208x^4 + 4200x^2 - 35000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 14x^{10} - 4x^8 + 12x^4 + 8x^2 + 8$ | $x^{12} - 78x^{10} + 2364x^8 - 34768x^6 + 247044x^4 - 669648x^2 - 35000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 24x^{10} - 20x^8 + 16x^6 - 4x^4 + 24x^2 - 8$ | $x^{12} + 12288x^{10} + 31457280x^8 - 4294967296x^6 - 105553116266496x^4 - 27021597764222976x^2 - 9223372036854775808$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} + 24x^{10} + 20x^8 - 12x^6 - 4x^4 - 24x^2 - 24$ | $x^{12} - 16x^{10} + 32x^8 + 188x^6 - 180x^4 - 648x^2 - 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 3 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} - 2x^{10} - 12x^8 - 16x^6 + 12x^4 + 8x^2 + 8$ | $x^{12} - 36x^{10} - 954x^8 + 9332x^6 - 26712x^4 + 43344x^2 - 35000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 3 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 8x^8 - 8x^6 - 20x^4 + 24x^2 - 24$ | $x^{12} + 32x^{10} + 376x^8 + 1880x^6 + 4108x^4 + 3224x^2 + 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 3 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} + 8x^{10} - 8x^8 - 4x^6 - 12x^4 + 8x^2 - 8$ | $x^{12} - 24x^8 + 20x^6 + 36x^4 - 24x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 3 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 32,46 | $\frac{47}{16}$ |
| $x^{12} + 8x^{10} + 28x^8 + 16x^6 + 20x^4 + 8x^2 + 24$ | $x^{12} + 8x^{10} - 48x^8 - 320x^6 + 832x^4 + 3328x^2 - 6656$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 3 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 14x^{10} - 4x^8 - 8x^6 + 12x^4 - 8x^2 + 8$ | $x^{12} + 36x^{10} - 954x^8 - 9332x^6 - 26712x^4 - 43344x^2 - 35000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 3 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 4x^{10} - 8x^8 + 16x^6 + 12x^4 + 8x^2 - 24$ | $x^{12} + 6x^{10} - 170x^8 + 736x^6 - 1040x^4 + 416x^2 + 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 3 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} + 32x^{10} + 4x^8 + 24x^6 + 20x^4 + 24x^2 + 24$ | $x^{12} - 8x^{10} - 48x^8 + 320x^6 + 832x^4 - 3328x^2 - 6656$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 16x^{10} - 4x^8 - 8x^6 + 4x^4 + 24x^2 - 24$ | $x^{12} - 12x^{10} - 16x^8 + 1120x^6 - 7872x^4 + 18432x^2 - 13824$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 28x^{10} + 24x^8 + 8x^6 + 20x^4 - 8x^2 + 24$ | $x^{12} - 10x^{10} - 62x^8 + 1028x^6 - 4160x^4 + 6344x^2 - 2600$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 8x^{10} + 16x^8 - 4x^6 - 12x^4 + 8x^2 - 8$ | $x^{12} + 12x^{10} - 212x^6 + 276x^4 - 72x^2 - 8$ | $\left[\begin{array}{ccc} 2 & 3 & 3 \\ & & \frac{7}{2} \end{array} \right]_1^3$ | I: 8,3 | $\frac{11}{4}$ |
| $x^{12} + 4x^{10} + 12x^6 + 12x^4 + 8x^2 + 8$ | $x^{12} - 10x^{10} + 30x^8 - 20x^6 - 24x^4 + 16x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & 3 \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 10x^{10} - 12x^8 - 8x^6 - 12x^4 + 8x^2 + 8$ | $x^{12} - 168x^8 - 308x^6 + 1764x^4 - 16464x^2 - 2744$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 8x^{10} - 4x^8 - 4x^4 - 8x^2 - 8$ | $x^{12} - 12x^8 - 32x^6 - 36x^4 - 24x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} - 8x^{10} + 24x^6 + 12x^4 + 24x^2 - 8$ | $x^{12} + 18x^{10} + 18x^8 - 864x^6 - 1296x^4 + 11664x^2 - 5832$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & 2 & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} - 30x^{10} + 28x^8 + 16x^6 - 20x^4 - 8x^2 + 24$ | $x^{12} + 18x^{10} - 102x^8 - 2808x^6 - 3780x^4 + 52920x^2 - 74088$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & 2 & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 16x^{10} - 20x^8 + 12x^6 + 28x^4 + 24x^2 + 24$ | $x^{12} - 6x^{10} - 42x^8 - 48x^6 + 36x^4 + 72x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 2 & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 28x^{10} - 8x^8 + 16x^6 + 12x^4 + 8x^2 + 24$ | $x^{12} + 12x^{10} - 6x^8 - 12x^6 + 72x^4 - 72x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & 2 & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} + 12x^{10} - 8x^8 - 12x^6 - 4x^4 + 8x^2 - 8$ | $x^{12} + 6x^{10} - 18x^8 - 4x^6 + 24x^4 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 2 & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} - 20x^{10} + 32x^8 - 12x^6 - 28x^4 - 8x^2 + 24$ | $x^{12} + 18x^{10} + 102x^8 + 252x^6 + 288x^4 + 144x^2 + 24$ | $\left[\begin{array}{ccc} 2 & 3 & \frac{7}{2} \\ & 2 & \frac{7}{2} \\ & & 2 \end{array} \right]_1^3$ | I: 8,3 | $\frac{11}{4}$ |
| $x^{12} - 6x^{10} + 12x^8 - 16x^6 - 12x^4 + 8x^2 + 8$ | $x^{12} - 30x^{10} + 384x^8 - 2960x^6 + 13188x^4 - 16800x^2 - 35000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & 2 & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-----------------|
| $x^{12} + 4x^{10} - 8x^8 + 12x^6 + 4x^4 - 8x^2 + 8$ | $x^{12} - 10x^{10} + 50x^8 - 116x^6 + 144x^4 - 48x^2 + 8$ | $\begin{bmatrix} 2 & 3 & 7 \\ & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 8,3 | $\frac{11}{4}$ |
| $x^{12} + 20x^{10} - 24x^8 - 4x^6 + 4x^4 - 8x^2 - 24$ | $x^{12} - 4x^{11} - 28x^{10} - 4x^9 + 391x^8 + 1316x^7 + 1864x^6 + 656x^5 - 902x^4 + 508x^3 + 4034x^2 + 4368x + 2105$ | $\begin{bmatrix} 2 & 3 & 7 \\ & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 8,3 | $\frac{11}{4}$ |
| $x^{12} + 6x^{11} - 2x^{10} + 4x^9 - 6x^8 + 4x^7 + 8x^4 + 8x^3 + 8x^2 + 8$ | $x^{12} - 2x^{11} - 14x^9 + 23x^8 - 8x^7 + 8x^6 - 8x^5 + 23x^4 - 14x^3 - 2x + 1$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 & 2 \\ & & 2 & 2 & 2 \\ & & & 2 & 2 \\ & & & & 1 \end{bmatrix}^6$ | I: 64,267 | $\frac{63}{32}$ |
| $x^{12} - 2x^{11} - 4x^{10} - 4x^9 + 2x^8 + 4x^7 + 8x^5 + 8$ | $x^{12} - 4x^{11} + 16x^{10} - 12x^9 + 22x^8 - 36x^7 + 40x^6 + 152x^5 + 16x^4 - 64x^3 + 48x^2 + 16x + 40$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 & 2 \\ & & 2 & 2 & 2 \\ & & & 2 & 2 \\ & & & & 1 \end{bmatrix}^6$ | I: 64,267 | $\frac{63}{32}$ |
| $x^{12} + 14x^{11} + 4x^{10} + 12x^9 + 8x^8 + 4x^7 + 12x^6 - 8x^5 + 4x^4 + 8x^3 + 16x^2 + 16x - 8$ | $x^{12} - 6x^{11} + 12x^{10} + 4x^9 - 82x^8 + 240x^7 - 424x^6 + 528x^5 - 480x^4 + 320x^3 - 152x^2 + 48x - 8$ | $\begin{bmatrix} 2 & 2 & 2 \\ & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 8,5 | $\frac{7}{4}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-----------------|
| $x^{12} - 2x^{11} + 4x^{10} - 4x^9 - 2x^8 - 4x^7 - 4x^6 + 8x^5 + 8x^3 + 8x^2 + 8$ | $x^{12} - 4x^{11} + 2x^{10} + 28x^9 - 21x^8 - 102x^7 + 264x^6 - 70x^5 - 448x^4 + 752x^3 - 474x^2 + 58x + 7$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^9$ | I: 64,267 | $\frac{63}{32}$ |
| $x^{12} + 8x^{10} - 4x^9 - 2x^8 - 8x^7 + 8x^5 - 8x^4 - 8x^3 + 16x^2 + 16x - 8$ | $x^{12} - 4x^{11} + 2x^{10} + 12x^9 - 74x^7 + 136x^6 - 112x^5 + 37x^4 + 14x^3 - 16x^2 + 6x - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^6$ | I: 16,14 | $\frac{15}{8}$ |
| $x^{12} + 26x^{11} - 18x^{10} - 30x^8 + 24x^7 - 16x^6 + 32x^5 + 12x^4 - 24x^3 + 24x^2 + 24$ | $x^{12} - 6x^{11} + 10x^{10} - 8x^9 + 22x^8 - 28x^7 - 66x^6 + 110x^5 + 29x^4 - 70x^3 - 22x^2 + 2x + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^6$ | I: 64,267 | $\frac{63}{32}$ |
| $x^{12} - 4x^{11} + 4x^{10} - 4x^9 - 2x^8 - 4x^7 + 4x^6 + 8x^5 + 8x^3 + 8x^2 + 8$ | $x^{12} - 4x^{11} - 2x^{10} + 14x^9 + 16x^8 - 56x^7 - 30x^6 + 250x^5 + 65x^4 - 246x^3 + 108x^2 - 20x + 7$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^9$ | I: 64,267 | $\frac{63}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-----------------|
| $x^{12} - 6x^{11} + 6x^{10} + 8x^9 + 8x^8 + 4x^7 + 4x^6 + 4x^4 + 8$ | $x^{12} - 6x^{11} + 36x^{10} - 112x^9 + 334x^8 - 600x^7 + 1052x^6 - 982x^5 + 965x^4 - 122x^3 + 56x^2 + 2x + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & & 2 \\ & & & & & 2 \\ & & & & & & 2 \end{array} \right]_1^6$ | I: 32,51 | $\frac{31}{16}$ |
| $x^{12} + 2x^{11} - 4x^9 + 8x^7 + 8x^5 - 4x^4 + 8x^2 + 8$ | $x^{12} - 6x^{11} + 4x^{10} + 32x^9 - 40x^8 - 64x^7 + 94x^6 + 2x^5 - 83x^4 + 262x^3 - 122x^2 - 270x + 293$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & & 2 \\ & & & & & 2 \\ & & & & & & 2 \end{array} \right]_1^9$ | I: 64,267 | $\frac{63}{32}$ |
| $x^{12} - 4x^{11} - 2x^{10} - 4x^9 - 6x^8 + 8x^7 - 4x^6 + 8x^4 + 8x^3 + 8$ | $x^{12} - 2x^{11} - 10x^{10} + 20x^9 + 52x^8 - 90x^7 - 116x^6 + 98x^5 + 159x^4 + 80x^3 + 72x^2 + 40x + 7$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & & 2 \\ & & & & & 2 \\ & & & & & & 2 \end{array} \right]_1^9$ | I: 64,267 | $\frac{63}{32}$ |
| $x^{12} + 8x^{10} + 4x^9 + 8x^8 + 8x^6 + 4x^4 + 8x^3 + 8$ | $x^{12} - 2x^{11} - 18x^{10} + 64x^9 + 12x^8 - 362x^7 + 642x^6 - 338x^5 - 221x^4 + 312x^3 - 52x^2 - 52x + 13$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & & 2 \\ & & & & & 2 \\ & & & & & & 2 \end{array} \right]_1^6$ | I: 64,267 | $\frac{63}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-----------------|
| $x^{12} + 8x^{11} - 6x^{10} + 4x^9 - 2x^8 + 4x^7 + 4x^6 + 8x^3 + 8$ | $x^{12} - 2x^{11} - 22x^{10} + 96x^9 - 75x^8 - 318x^7 + 818x^6 - 466x^5 - 810x^4 + 1542x^3 - 1030x^2 + 292x - 25$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^6$ | I: 64,267 | $\frac{63}{32}$ |
| $x^{12} + 14x^{11} + 8x^{10} - 12x^9 - 14x^8 + 8x^7 + 16x^6 + 16x^3 - 8$ | $x^{12} - 4x^{11} + 16x^{10} - 64x^9 + 243x^8 - 686x^7 + 1418x^6 - 2162x^5 + 2434x^4 - 1988x^3 + 1062x^2 - 270x + 27$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^{12}$ | I: 16,14 | $\frac{15}{8}$ |
| $x^{12} + 10x^{11} - 8x^{10} + 4x^9 - 6x^8 + 16x^7 - 8x^6 + 16x^5 - 12x^4 - 8x^3 + 16x + 8$ | $x^{12} - 4x^{11} + 10x^{10} - 2x^9 - 42x^8 + 92x^7 - 52x^6 - 90x^5 + 239x^4 - 86x^3 - 8x^2 + 8x - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^6$ | I: 32,51 | $\frac{31}{16}$ |
| $x^{12} + 8x^{11} + 4x^{10} - 4x^7 - 4x^6 + 8x^5 + 4x^4 + 8x^3 + 8$ | $x^{12} - 6x^{11} + 20x^{10} - 42x^9 + 53x^8 - 28x^7 - 14x^6 + 34x^5 - 10x^4 - 16x^3 + 24x^2 + 8x + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^6$ | I: 16,14 | $\frac{15}{8}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-----------------|
| $x^{12} - 6x^{11} + 8x^{10} + 6x^8 + 4x^6 + 8x^5 + 8x^4 + 8x^3 + 8$ | $x^{12} - 4x^{11} + 8x^{10} + 8x^9 - 8x^8 - 38x^7 + 28x^6 + 4x^5 - 17x^4 - 26x^3 + 42x^2 + 14x + 37$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^9$ | I: 64,267 | $\frac{63}{32}$ |
| $x^{12} - 2x^{11} + 4x^{10} - 4x^9 + 8x^7 - 4x^6 + 8x^5 - 4x^4 + 8x^3 + 8x^2 + 8$ | $x^{12} - 6x^{11} + 24x^{10} - 54x^9 + 95x^8 - 100x^7 + 100x^6 - 30x^5 + 24x^4 + 56x^3 + 28x^2 + 8x + 5$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^6$ | I: 64,267 | $\frac{63}{32}$ |
| $x^{12} - 2x^{11} + 10x^{10} + 12x^9 - 14x^8 - 8x^7 + 8x^5 + 12x^4 - 8x^3 + 8x^2 - 8$ | $x^{12} - 4x^{11} - 20x^{10} + 112x^9 + x^8 - 782x^7 + 1254x^6 + 546x^5 - 3484x^4 + 4144x^3 - 2364x^2 + 674x - 77$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^9$ | I: 64,267 | $\frac{63}{32}$ |
| $x^{12} - 4x^{11} + 2x^{10} + 8x^9 - 2x^8 + 8x^4 + 8x^3 + 8$ | $x^{12} - 4x^{11} + 8x^{10} - 8x^9 + 23x^8 - 86x^7 + 180x^6 - 226x^5 + 192x^4 - 124x^3 + 62x^2 - 22x + 5$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^6$ | I: 32,51 | $\frac{31}{16}$ |
| $x^{12} - 4x^{11} - 4x^{10} + 8x^9 - 4x^8 - 4x^7 + 4x^6 + 4x^4 + 8x^2 + 8$ | $x^{12} - 6x^{11} + 12x^{10} + 6x^9 - 54x^8 + 60x^7 + 22x^6 - 48x^5 - 3x^4 + 24x^3 - 6x + 1$ | $\left[\begin{array}{cc} 2 & 2 \\ & 2 \end{array} \right]_1^6$ | I: 4,2 | $\frac{3}{2}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-----------------|
| $x^{12} + 4x^{11} - 4x^{10} - 12x^9 - 8x^8 + 8x^7 + 8x^6 + 8x^5 - 12x^4 - 8x^3 + 8x^2 - 8$ | $x^{12} - 6x^{10} - 16x^9 + 3x^8 + 42x^7 + 28x^6 - 6x^5 - 24x^4 - 36x^3 - 36x^2 - 18x - 3$ | $\begin{bmatrix} 2 & 2 & 2 \\ & 2 & 2 \\ & & 2 \end{bmatrix}_1^3$ | I: 8,5 | $\frac{7}{4}$ |
| $x^{12} + 4x^{11} + 8x^{10} - 4x^8 - 4x^7 - 4x^4 + 8x^3 + 8x^2 + 8$ | $x^{12} - 6x^{11} + 10x^{10} - 8x^9 + 22x^8 - 28x^7 - 40x^6 + 162x^5 - 231x^4 + 138x^3 - 48x^2 + 2x + 1$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 & 2 \\ & & 2 & 2 & 2 \\ & & & 2 & 2 \\ & & & & 2 \end{bmatrix}_1^6$ | I: 64,267 | $\frac{63}{32}$ |
| $x^{12} + 10x^{11} + 16x^{10} + 16x^9 - 6x^8 + 16x^7 - 8x^6 - 8x^5 + 4x^4 - 8x^3 + 16x + 8$ | $x^{12} - 2x^{11} + 2x^{10} + 2x^9 + 3x^8 - 4x^6 + 3x^4 + 2x^3 + 2x^2 - 2x + 1$ | $\begin{bmatrix} 2 & 2 & 2 \\ & 2 & 2 \\ & & 2 \end{bmatrix}_1^3$ | I: 8,5 | $\frac{7}{4}$ |
| $x^{12} + 20x^{11} - 22x^{10} - 24x^9 + 26x^8 - 24x^7 + 8x^6 + 32x^5 + 28x^4 + 16x^3 + 24x^2 + 24$ | $x^{12} - 6x^{11} + 18x^{10} - 34x^9 + 33x^8 + 12x^7 - 116x^6 + 228x^5 - 213x^4 + 18x^3 + 306x^2 - 378x + 267$ | $\begin{bmatrix} 2 & 2 & 2 \\ & 2 & 2 \\ & & 2 \end{bmatrix}_1^3$ | I: 8,5 | $\frac{7}{4}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-----------------|
| $x^{12} + 4x^{11} + 6x^{10} - 4x^9 - 2x^8 + 4x^7 + 8x^5 + 8x^4 + 8x^2 + 8$ | $x^{12} - 4x^{11} + 2x^{10} + 28x^9 - 21x^8 - 26x^7 + 112x^6 + 6x^5 - 144x^4 + 68x^3 + 134x^2 - 18x - 31$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^9$ | I: 64,267 | $\frac{63}{32}$ |
| $x^{12} + 30x^{11} + 30x^{10} + 12x^9 + 18x^8 - 8x^7 + 8x^6 - 8x^5 + 12x^4 - 24x^3 + 8x^2 + 24$ | $x^{12} - 2x^{11} - 6x^{10} - 4x^9 + 38x^8 + 16x^7 - 32x^6 + 8x^5 + 44x^4 - 8x^3 + 40x^2 + 8$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 2 \\ & & 2 \end{array} \right]_1^6$ | I: 16,14 | $\frac{15}{8}$ |
| $x^{12} - 14x^{11} - 6x^{10} - 12x^9 + 12x^8 + 16x^7 + 12x^6 + 16x^5 + 12x^4 + 16x^3 + 8x^2 + 16x - 8$ | $x^{12} - 2x^{11} - 4x^{10} + 10x^9 + 17x^8 - 66x^7 + 32x^6 + 108x^5 - 170x^4 + 88x^3 - 10x^2 - 6x + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^6$ | I: 64,267 | $\frac{63}{32}$ |
| $x^{12} - 6x^{11} - 2x^{10} + 8x^9 + 8x^7 - 4x^4 + 8x^3 + 8$ | $x^{12} - 6x^{11} + 10x^{10} - 34x^9 + 191x^8 - 236x^7 - 196x^6 - 644x^5 + 1147x^4 + 7210x^3 - 12918x^2 - 2130x + 9725$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 2 \\ & & 2 \end{array} \right]_1^{12}$ | I: 16,14 | $\frac{15}{8}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-----------------|
| $x^{12} + 14x^{11} + 16x^{10} + 6x^8 + 4x^7 - 4x^6 + 8x^2 + 16x - 8$ | $x^{12} - 12x^{10} - 10x^9 + 30x^8 + 48x^7 - 16x^6 - 78x^5 - 27x^4 + 46x^3 + 42x^2 + 12x + 1$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 6 \\ & & & 1 \end{bmatrix}$ | I: 8,5 | $\frac{7}{4}$ |
| $x^{12} + 4x^{11} + 6x^{10} + 4x^9 - 4x^7 - 4x^6 + 8x^5 - 4x^4 + 8x^3 + 8x^2 + 8$ | $x^{12} - 4x^{11} - 10x^{10} + 92x^9 - 238x^8 + 328x^7 - 272x^6 + 48x^5 + 328x^4 - 584x^3 + 464x^2 - 192x + 40$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & & & 6 \\ & & & & 1 \end{bmatrix}$ | I: 32,51 | $\frac{31}{16}$ |
| $x^{12} - 2x^{11} + 6x^{10} + 4x^9 + 6x^8 + 12x^7 - 4x^6 - 8x^3 + 16x^2 - 8$ | $x^{12} - 2x^{11} - 4x^{10} + 6x^9 + 18x^8 - 24x^7 - 18x^6 + 12x^5 + 57x^4 - 76x^3 + 40x^2 - 10x + 1$ | $\begin{bmatrix} 2 & 2 \\ & 3 \\ & & 1 \end{bmatrix}$ | I: 4,2 | $\frac{3}{2}$ |
| $x^{12} - 6x^{11} + 6x^{10} + 8x^8 + 8x^7 - 4x^4 + 8x^2 + 8$ | $x^{12} - 6x^{11} + 12x^{10} + 2x^9 - 54x^8 + 102x^7 - 76x^6 + 48x^5 - 75x^4 + 70x^3 - 24x^2 + 1$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 6 \\ & & & 1 \end{bmatrix}$ | I: 8,5 | $\frac{7}{4}$ |
| $x^{12} - 6x^{10} + 2x^8 - 4x^7 + 8x^5 + 8x^4 + 8x^3 + 8$ | $x^{12} - 16x^9 + 54x^8 - 102x^7 + 128x^6 - 108x^5 + 69x^4 - 38x^3 + 18x^2 - 6x + 1$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 6 \\ & & & 1 \end{bmatrix}$ | I: 8,5 | $\frac{7}{4}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-----------------|
| $x^{12} + 6x^{11} + 16x^{10} + 4x^9 + 2x^8 + 8x^6 + 16x^5 + 16x^3 - 8x^2 - 8$ | $x^{12} - 6x^{11} + 12x^{10} - 2x^9 - 33x^8 + 36x^7 + 32x^6 - 36x^5 - 33x^4 + 2x^3 + 12x^2 + 6x + 1$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^6$ | I: 8,5 | $\frac{7}{4}$ |
| $x^{12} + 6x^{11} + 8x^{10} - 52x^9 - 10x^8 + 24x^7 + 8x^6 + 64x^5 + 28x^4 - 40x^3 - 16x^2 - 16x + 40$ | $x^{12} - 2x^{11} - 6x^{10} + 30x^9 - 17x^8 - 50x^7 + 172x^6 - 204x^5 + 266x^4 - 228x^3 + 384x^2 - 206x + 125$ | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^6$ | I: 4,2 | $\frac{3}{2}$ |
| $x^{12} + 14x^{11} + 12x^{10} + 4x^9 + 10x^8 + 4x^6 + 8x^5 + 8x^4 + 16x - 8$ | $x^{12} - 6x^{10} - 2x^9 + 21x^8 + 6x^7 - 42x^6 - 12x^5 + 48x^4 + 10x^3 - 24x^2 + 1$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^6$ | I: 16,14 | $\frac{15}{8}$ |
| $x^{12} + 12x^{11} + 8x^{10} + 4x^9 + 16x^8 - 12x^7 - 8x^6 + 8x^5 - 12x^4 + 16x^3 - 8$ | $x^{12} - 6x^{11} + 28x^9 + 30x^8 - 12x^7 - 132x^6 - 210x^5 - 141x^4 - 38x^3 + 6x^2 + 6x + 1$ | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^6$ | I: 4,2 | $\frac{3}{2}$ |
| $x^{12} - 6x^{10} + 27x^8 - 4x^6 - 5x^4 + 2x^2 + 9$ | $x^{12} + 10x^{10} + 7x^8 - 74x^6 - 8x^4 + 64x^2 + 25$ | $\begin{bmatrix} 2 & 2 & 3 & 7 \\ & & 2 & 2 \\ & & & 1 \end{bmatrix}^6$ | I: 32,27 | $\frac{51}{16}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} - 6x^{10} - 3x^8 - 12x^6 + 11x^4 - 14x^2 - 1$ | $x^{12} + 30x^{10} + 245x^8 + 342x^6 + 210x^4 - 152x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 14x^{10} - 27x^8 - 28x^6 - 5x^4 - 2x^2 - 25$ | $x^{12} + 14x^{10} - 57x^8 + 74x^6 - 72x^4 + 16x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 14x^{10} - 7x^8 + 4x^6 - 5x^4 - 6x^2 + 3$ | $x^{12} - 6x^{10} - 27x^8 + 546x^6 - 2610x^4 + 5400x^2 - 1125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} + 18x^{10} - 3x^8 - 12x^6 + 19x^4 - 22x^2 - 9$ | $x^{12} - 12x^{10} - 36x^8 - 78x^6 - 81x^4 - 54x^2 - 9$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} - 26x^{10} - 5x^8 + 12x^6 + 3x^4 + 6x^2 + 1$ | $x^{12} + 6x^{10} - 11x^8 - 14x^6 + 12x^4 + 12x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 32,27 | $\frac{51}{16}$ |
| $x^{12} - 30x^{10} + 31x^8 - 20x^6 + 27x^4 + 26x^2 - 11$ | $x^{12} - 6x^{10} + 3x^8 + 6x^6 - 54x^4 - 36x^2 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 14x^{10} - x^8 + 4x^6 + 3x^4 - 14x^2 + 13$ | $x^{12} - 18x^8 + 38x^6 - 33x^4 + 18x^2 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-------------|------------------|
| $x^{12} + 6x^{10} + 9x^8 + 20x^6 - 29x^4 - 10x^2 - 21$ | $x^{12} + 42x^{10} + 297x^8 + 588x^6 - 45x^4 - 1350x^2 - 1125$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} \\ & & & & & & 1 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 10x^{10} - 5x^8 - 4x^6 + 3x^4 + 6x^2 + 1$ | $x^{12} + 2x^{10} - 9x^8 - 14x^6 + 10x^4 + 8x^2 + 1$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} \\ & & & & & & 1 \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |
| $x^{12} + 10x^{10} - 9x^8 - 4x^6 - 5x^4 + 2x^2 - 3$ | $x^{12} - 6x^{10} - 13x^8 + 22x^6 - 6x^4 + 36x^2 - 27$ | $\left[\begin{array}{ccccccc} 2 & 2 & 3 & 3 & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} \\ & & & & & & 1 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 42x^{10} + 33x^8 + 36x^6 + 39x^4 - 22x^2 + 87$ | $x^{12} - 24x^{10} + 54x^8 + 1458x^6 - 6075x^4 - 4374x^2 - 729$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 3 & 3 & 3 & \frac{7}{2} \\ & & & & & & 1 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 30x^{10} + 21x^8 - 28x^6 - 29x^4 + 30x^2 + 15$ | $x^{12} + 4x^{10} - 28x^8 - 178x^6 - 297x^4 - 126x^2 - 1$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} \\ & & & & & & 1 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} + 10x^{10} + 9x^8 + 4x^6 + 3x^4 - 14x^2 + 11$ | $x^{12} + 6x^{10} - 27x^8 + 66x^6 + 630x^4 - 1125$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} \\ & & & & & & 1 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 2x^{10} + 3x^8 - 4x^6 + 3x^4 - 2x^2 - 7$ | $x^{12} - 36x^8 + 90x^6 - 9x^4 - 54x^2 + 9$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} \\ & & & & & & 1 \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-------------|------------------|
| $x^{12} + 14x^{10} - 11x^8 - 12x^6 - 5x^4 + 14x^2 - 9$ | $x^{12} + 18x^{10} + 109x^8 + 228x^6 - 813x^4 - 5094x^2 - 6889$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 18x^{10} - 7x^8 + 4x^6 - 29x^4 + 10x^2 - 21$ | $x^{12} + 6x^{10} - 3x^8 - 42x^6 - 36x^4 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} + 90x^{10} - 179x^8 - 76x^6 - 113x^4 + 202x^2 + 243$ | $x^{12} - 12x^{10} + 42x^8 - 78x^6 + 81x^4 - 54x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 2x^{10} + x^8 + 52x^6 - 89x^4 - 94x^2 + 55$ | $x^{12} - 2x^{10} - x^8 - 6x^6 - 14x^4 - 28x^2 + 7$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 2x^{10} - x^8 + 4x^6 + 3x^4 + 2x^2 - 3$ | $x^{12} + 12x^{10} + 48x^8 + 42x^6 - 153x^4 - 270x^2 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 2x^{10} - 3x^8 - 12x^6 - 5x^4 - 2x^2 + 15$ | $x^{12} - 2x^{10} - 137x^8 - 930x^6 - 2764x^4 - 3944x^2 - 2209$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 14x^{10} + 9x^8 - 12x^6 + 3x^4 - 6x^2 - 5$ | $x^{12} + 6x^{10} - 3x^8 - 42x^6 + 18x^4 + 36x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-------------|------------------|
| $x^{12} + 2x^{10} + 27x^8 - 12x^6 - 21x^4 + 18x^2 - 7$ | $x^{12} - 36x^8 - 90x^6 - 9x^4 + 54x^2 + 9$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 7 & 7 \\ & 2 & 2 \end{array} \right]_1^6$ | I: 32,27 | $\frac{51}{16}$ |
| $x^{12} - 10x^{10} + 3x^8 - 12x^6 + 3x^4 + 14x^2 - 7$ | $x^{12} - 6x^{10} + 11x^8 - 4x^6 - 13x^4 + 18x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 7 & 7 \\ & 2 & 2 \end{array} \right]_1^3$ | I: 32,34 | $\frac{51}{16}$ |
| $x^{12} + 10x^{10} + 13x^8 + 4x^6 + 11x^4 - 14x^2 + 15$ | $x^{12} - 2x^{10} - 7x^8 - 46x^6 - 8x^4 + 112x^2 - 25$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 3 & 7 \\ & 2 & 7 \\ & 2 & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 30x^{10} - 5x^8 + 4x^6 + 19x^4 - 10x^2 - 31$ | $x^{12} - 6x^{10} + 27x^8 - 68x^6 + 51x^4 + 18x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 3 & 7 \\ & 2 & 7 \\ & 2 & 2 \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |
| $x^{12} - 14x^{10} + 13x^8 + 12x^6 - 5x^4 + 2x^2 + 15$ | $x^{12} - 4x^{10} - 28x^8 + 178x^6 - 297x^4 + 126x^2 - 1$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 3 & 7 \\ & 2 & 7 \\ & 2 & 2 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} - 22x^{10} - 9x^8 + 4x^6 + 3x^4 + 26x^2 + 21$ | $x^{12} + 12x^{10} - 24x^8 - 1170x^6 - 11205x^4 - 60750x^2 - 136107$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 3 & 7 \\ & 2 & 7 \\ & 2 & 2 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 18x^{10} - 7x^8 + 4x^6 - 21x^4 - 6x^2 + 19$ | $x^{12} - 6x^{10} - 3x^8 + 14x^6 - 12x^4 + 3$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 3 & 7 \\ & 2 & 7 \\ & 2 & 2 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} + 14x^{10} - 23x^8 - 12x^6 - 29x^4 - 18x^2 + 11$ | $x^{12} + 60x^{10} + 1380x^8 + 15200x^6 + 78000x^4 + 120000x^2 - 8000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 18x^{10} - 27x^8 - 28x^6 + 27x^4 + 10x^2 - 25$ | $x^{12} + 2x^{10} - 7x^8 + 46x^6 - 8x^4 - 112x^2 - 25$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 18x^{10} - 5x^8 - 12x^6 - 13x^4 + 22x^2 - 31$ | $x^{12} - 18x^{10} + 105x^8 - 158x^6 - 432x^4 + 1092x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 32,34 | $\frac{51}{16}$ |
| $x^{12} - 14x^{10} + x^8 + 4x^6 + 11x^4 - 6x^2 + 11$ | $x^{12} - 6x^8 - 22x^6 + 15x^4 + 18x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} - 26x^{10} - 15x^8 + 20x^6 + 27x^4 + 6x^2 + 11$ | $x^{12} + 24x^{10} + 84x^8 - 306x^6 - 1737x^4 - 1890x^2 + 27$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} - 14x^{10} + 3x^8 - 12x^6 + 11x^4 + 2x^2 + 1$ | $x^{12} + 6x^{10} - 3x^8 - 26x^6 + 12x^4 + 12x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^6$ | I: 32,27 | $\frac{51}{16}$ |
| $x^{12} - 2x^{10} - 5x^8 - 12x^6 - 13x^4 + 6x^2 + 1$ | $x^{12} + 4x^{10} - 82x^8 + 330x^6 - 549x^4 + 338x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 32,34 | $\frac{51}{16}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} + 6x^{10} - 7x^8 + 4x^6 + 3x^4 + 6x^2 - 5$ | $x^{12} + 60x^{10} - 900x^8 + 4350x^6 - 9225x^4 + 6750x^2 - 1125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 22x^{10} + 25x^8 + 20x^6 - 5x^4 - 14x^2 + 3$ | $x^{12} - 3072x^{10} - 10223616x^8 + 1879048192x^6 + 2886218022912x^4 + 1266637395197952x^2 + 54043195528445952$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} + 210x^{10} + 53x^8 - 124x^6 + 223x^4 + 162x^2 + 91$ | $x^{12} - 30x^8 + 54x^6 + 9x^4 - 18x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 32,46 | $\frac{47}{16}$ |
| $x^{12} - 6x^{10} + 5x^8 - 12x^6 + 3x^4 + 2x^2 - 1$ | $x^{12} + 4x^{10} - 4x^8 - 50x^6 - 105x^4 - 98x^2 - 49$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} + 30x^{10} - 13x^8 + 20x^6 - 13x^4 - 26x^2 - 7$ | $x^{12} + 6x^{10} - 9x^8 - 78x^6 - 108x^4 + 81$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 32,34 | $\frac{51}{16}$ |
| $x^{12} - 6x^{10} - 19x^8 - 12x^6 - 5x^4 + 18x^2 - 17$ | $x^{12} + 10x^{10} - 19x^8 - 100x^6 - 21x^4 + 90x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} - 190x^{10} + 125x^8 + 100x^6 - 17x^4 - 238x^2 + 227$ | $x^{12} + 18x^{10} + 123x^8 + 386x^6 + 522x^4 + 216x^2 + 27$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} - 22x^{10} - 35x^8 + 52x^6 - 49x^4 + 58x^2 - 93$ | $x^{12} - 12x^{10} - 30x^8 - 78x^6 - 63x^4 - 18x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 26x^{10} + 25x^8 - 60x^6 + 55x^4 - 38x^2 - 17$ | $x^{12} - 14x^{10} + 63x^8 - 126x^6 + 154x^4 - 84x^2 + 7$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} - 18x^{10} - 5x^8 + 4x^6 - 29x^4 - 10x^2 + 17$ | $x^{12} - 22x^{10} - 123x^8 + 966x^6 + 152x^4 - 1724x^2 + 841$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |
| $x^{12} - 54x^{10} - 19x^8 - 60x^6 + 15x^4 - 54x^2 - 13$ | $x^{12} + 6x^8 - 10x^6 + 81x^4 - 54x^2 + 27$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 32,46 | $\frac{47}{16}$ |
| $x^{12} + 10x^{10} - 3x^8 + 4x^6 - 5x^4 - 14x^2 + 15$ | $x^{12} - 12x^{10} + 30x^8 - 10x^6 - 9x^4 - 18x^2 - 9$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 6x^{10} + 15x^8 - 20x^6 + 11x^4 + 2x^2 + 5$ | $x^{12} + 12x^{10} + 48x^8 + 74x^6 + 57x^4 + 54x^2 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} - 10x^{10} - 31x^8 - 28x^6 - 13x^4 - 10x^2 - 29$ | $x^{12} + 30x^{10} + 45x^8 - 1650x^6 + 4950x^4 + 13500x^2 - 1125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 30x^{10} - 17x^8 + 12x^6 - 21x^4 + 26x^2 + 21$ | $x^{12} + 4x^{10} + 2x^8 + 22x^6 + 39x^4 - 54x^2 - 27$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 30x^{10} - 23x^8 + 4x^6 - 13x^4 + 14x^2 + 27$ | $x^{12} + 12x^{10} - 36x^8 - 318x^6 + 1575x^4 - 1350x^2 - 1125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 10x^{10} - 11x^8 + 4x^6 + 11x^4 - 10x^2 + 7$ | $x^{12} - 4x^{10} - 2x^8 + 22x^6 - 141x^4 - 30x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 18x^{10} - 9x^8 + 20x^6 + 3x^4 + 2x^2 - 27$ | $x^{12} - 24x^8 - 126x^6 - 207x^4 - 90x^2 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 6x^{10} - 5x^8 - 12x^6 + 3x^4 - 2x^2 - 15$ | $x^{12} - 28x^{10} + 174x^8 + 1554x^6 - 21373x^4 + 58954x^2 + 49729$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 32,34 | $\frac{51}{16}$ |
| $x^{12} + 6x^{10} + 11x^8 + 4x^6 - 13x^4 + 14x^2 + 1$ | $x^{12} - 6x^{10} - 37x^8 + 214x^6 - 310x^4 + 72x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} - 6x^{10} - x^8 - 12x^6 + 19x^4 + 26x^2 + 29$ | $x^{12} - 6x^{10} + 15x^8 - 20x^6 + 3x^4 + 18x^2 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 18x^{10} - 13x^8 + 12x^6 - 13x^4 - 2x^2 + 9$ | $x^{12} - 12x^{10} - 36x^8 + 30x^6 + 63x^4 - 54x^2 + 9$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |
| $x^{12} + 10x^{10} + 15x^8 + 12x^6 - 5x^4 - 14x^2 + 5$ | $x^{12} + 6x^{10} + 3x^8 - 6x^6 - 54x^4 + 36x^2 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 2x^{10} + 11x^8 - 12x^6 + 3x^4 + 6x^2 - 15$ | $x^{12} - 12x^{10} + 54x^8 - 78x^6 - 81x^4 + 162x^2 + 81$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 32,34 | $\frac{51}{16}$ |
| $x^{12} + 10x^{10} + 17x^8 + 4x^6 + 19x^4 - 14x^2 + 19$ | $x^{12} + 30x^{10} + 225x^8 + 1950x^6 - 67950x^4 + 283500x^2 - 325125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 18x^{10} + 27x^8 - 28x^6 - 13x^4 + 6x^2 + 1$ | $x^{12} - 30x^{10} + 37x^8 + 718x^6 + 2536x^4 + 5528x^2 + 5041$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |
| $x^{12} - 10x^{10} + 11x^8 - 12x^6 - 13x^4 - 2x^2 + 1$ | $x^{12} - 18x^{10} + 83x^8 + 84x^6 - 917x^4 + 102x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-------------|------------------|
| $x^{12} + 2x^{10} - x^8 + 12x^6 - 5x^4 - 6x^2 - 11$ | $x^{12} + 12x^{10} + 32x^8 + 62x^6 + 51x^4 - 18x^2 - 27$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 18x^{10} + 7x^8 - 4x^6 - 21x^4 - 6x^2 - 19$ | $x^{12} - 156x^{10} - 896x^9 + 3756x^8 + 64176x^7 + 336888x^6 + 983472x^5 + 1731900x^4 + 1744624x^3 + 717888x^2 - 230496x - 231272$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 10x^{10} + 7x^8 - 12x^6 - 13x^4 + 10x^2 + 5$ | $x^{12} - 6x^{10} - 15x^8 + 150x^6 - 288x^4 + 180x^2 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 90x^{10} + 189x^8 - 108x^6 + 15x^4 + 170x^2 - 253$ | $x^{12} - 6x^{10} + 15x^8 - 30x^6 + 90x^4 - 144x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & 3 & 3 \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 2x^{10} - x^8 + 2x^6 + 6x^4 - 4x^2 - 5$ | $x^{12} - 18x^{10} + 87x^8 - 162x^6 + 126x^4 - 36x^2 + 3$ | $\left[\begin{array}{ccc} 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} \end{array} \right]_1^3$ | I: 8,3 | $\frac{11}{4}$ |
| $x^{12} - 6x^{10} - 19x^8 - 12x^6 + 19x^4 - 30x^2 + 7$ | $x^{12} - 2x^{10} - 7x^8 - 46x^6 - 86x^4 - 148x^2 - 25$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-------------|------------------|
| $x^{12} - 10x^{10} + 13x^8 - 12x^6 + 11x^4 - 26x^2 + 15$ | $x^{12} - 18x^{10} + 109x^8 - 228x^6 - 813x^4 + 5094x^2 - 6889$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 30x^{10} + 19x^8 - 28x^6 + 19x^4 - 10x^2 + 25$ | $x^{12} + 12x^{10} + 54x^8 + 78x^6 - 81x^4 - 162x^2 + 81$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |
| $x^{12} - 2x^{10} + 11x^8 + 4x^6 + 3x^4 - 10x^2 - 15$ | $x^{12} - 6x^{10} - 9x^8 + 78x^6 - 108x^4 + 81$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |
| $x^{12} - 14x^{10} + x^8 - 12x^6 + 7x^4 - 14x^2 + 23$ | $x^{12} - 8x^{10} + 26x^8 - 34x^6 + 21x^4 - 42x^2 + 7$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & 3 \\ & & & 3 \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 6x^{10} + 11x^8 + 4x^6 + 3x^4 + 14x^2 + 1$ | $x^{12} + 10x^{10} + 23x^8 + 6x^6 + 18x^4 - 16x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |
| $x^{12} - 158x^{10} - 235x^8 + 36x^6 - 129x^4 + 242x^2 - 165$ | $x^{12} + 18x^{10} + 141x^8 + 612x^6 + 1503x^4 + 1890x^2 + 867$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & 3 \\ & & & 3 \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} - 30x^{10} + 13x^8 + 20x^6 - 5x^4 + 10x^2 + 31$ | $x^{12} + 20x^{10} + 28x^8 + 6x^6 - 37x^4 - 58x^2 - 25$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-------------|------------------|
| $x^{12} + 14x^{10} + 5x^8 + 4x^6 + 11x^4 - 2x^2 - 9$ | $x^{12} + 6x^{10} - 3x^8 - 18x^6 + 30x^4 - 12x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 6x^{10} - 11x^8 + 4x^6 - 5x^4 + 2x^2 + 7$ | $x^{12} - 12x^{10} + 34x^8 - 22x^6 - 21x^4 + 14x^2 + 7$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} - 6x^{10} - 9x^8 + 28x^6 + 11x^4 + 18x^2 + 29$ | $x^{12} + 12x^{10} + 54x^8 + 98x^6 + 27x^4 - 54x^2 - 27$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 6x^{10} - 11x^8 - 12x^6 - 5x^4 - 14x^2 + 7$ | $x^{12} - 34x^{10} + 421x^8 - 2346x^6 + 5570x^4 - 3612x^2 - 25$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} - 10x^{10} + 11x^8 + 4x^6 + 3x^4 - 2x^2 + 1$ | $x^{12} + 18x^{10} + 105x^8 + 158x^6 - 432x^4 - 1092x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |
| $x^{12} - 10x^{10} - 5x^8 - 12x^6 - 13x^4 + 14x^2 - 15$ | $x^{12} + 28x^{10} + 136x^8 - 266x^6 + 161x^4 - 34x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 32,34 | $\frac{51}{16}$ |
| $x^{12} + 2x^{10} - x^8 + 12x^6 - 5x^4 - 6x^2 + 5$ | $x^{12} - 6x^{10} - 9x^8 + 98x^6 - 162x^4 + 108x^2 - 27$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} - 18x^{10} - 23x^8 - 28x^6 - 29x^4 + 30x^2 + 11$ | $x^{12} - 60x^{10} + 1380x^8 - 15200x^6 + 78000x^4 - 120000x^2 - 8000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 2 \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 10x^{10} - 71x^8 - 156x^6 - 9x^4 + 138x^2 + 143$ | $x^{12} - 6x^{10} - 9x^8 - 22x^6 - 14x^4 + 7$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 10x^{10} + 13x^8 + 4x^6 - 29x^4 + 2x^2 - 9$ | $x^{12} - 8x^{10} + 16x^8 - 18x^6 + 19x^4 - 22x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 2 \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} + 2x^{10} + 19x^8 + 12x^6 + 27x^4 - 22x^2 - 15$ | $x^{12} + 8x^{10} - 8x^8 - 202x^6 - 449x^4 + 50x^2 + 625$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 2 \\ & & & 2 \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |
| $x^{12} + 14x^{10} + x^8 + 4x^6 + 3x^4 - 2x^2 - 13$ | $x^{12} - 72x^{10} - 56x^9 + 1314x^8 - 396x^7 - 9762x^6 + 16128x^5 + 8415x^4 - 41564x^3 + 31014x^2 + 2988x - 8279$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 2 \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 10x^{10} - 3x^8 + 4x^6 + 11x^4 - 10x^2 - 1$ | $x^{12} - 14x^{10} - 57x^8 - 74x^6 - 72x^4 - 16x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 2 \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-------------|------------------|
| $x^{12} + 2x^{10} - 7x^8 - 12x^6 + 3x^4 + 10x^2 - 5$ | $x^{12} + 60x^{10} + 750x^8 - 10450x^6 - 178725x^4 + 216750x^2 - 45125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 10x^{10} + 21x^8 - 12x^6 - 21x^4 + 30x^2 + 7$ | $x^{12} - 20x^{10} + 28x^8 - 6x^6 - 37x^4 + 58x^2 - 25$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 6x^{10} - 15x^8 + 4x^6 + 11x^4 - 14x^2 - 5$ | $x^{12} + 6x^{10} - 27x^8 - 546x^6 - 2610x^4 - 5400x^2 - 1125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} - 6x^{10} + 133x^8 - 44x^6 - 65x^4 - 246x^2 - 149$ | $x^{12} - 6x^8 + 14x^6 - 39x^4 + 18x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} - 10x^{10} - 5x^8 + 20x^6 + 3x^4 + 14x^2 - 15$ | $x^{12} + 6x^{10} + 27x^8 + 68x^6 + 51x^4 - 18x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^6$ | I: 32,34 | $\frac{51}{16}$ |
| $x^{12} + 2x^{10} - 19x^8 - 28x^6 - 5x^4 + 26x^2 - 1$ | $x^{12} - 4x^{10} - 80x^8 + 178x^6 + 1809x^4 - 810x^2 - 729$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 14x^{10} - x^8 + 4x^6 - 29x^4 + 18x^2 - 19$ | $x^{12} + 72x^{10} + 1656x^8 + 15786x^6 + 53433x^4 - 23166x^2 - 136107$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-------------|------------------|
| $x^{12} + 14x^{10} + 11x^8 + 4x^6 + 3x^4 + 6x^2 - 15$ | $x^{12} - 22x^{10} - 119x^8 - 178x^6 - 76x^4 + 4x^2 + 25$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |
| $x^{12} - 2x^{10} - 7x^8 - 12x^6 - 13x^4 - 2x^2 + 11$ | $x^{12} - 12x^{10} - 36x^8 + 318x^6 + 1575x^4 + 1350x^2 - 1125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 18x^{10} + 19x^8 + 4x^6 - 13x^4 + 6x^2 + 25$ | $x^{12} + 10x^{10} + 7x^8 - 74x^6 + 122x^4 - 92x^2 + 25$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |
| $x^{12} - 22x^{10} - 25x^8 + 28x^6 + 27x^4 + 2x^2 + 29$ | $x^{12} - 90x^{10} + 2619x^8 - 24786x^6 - 20250x^4 + 46656x^2 - 6075$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 10x^{10} + 9x^8 + 4x^6 + 11x^4 + 2x^2 + 3$ | $x^{12} - 36x^{10} + 378x^8 - 1666x^6 + 3195x^4 - 2250x^2 - 125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} + 18x^{10} + 19x^8 + 28x^6 + 11x^4 - 22x^2 + 17$ | $x^{12} + 12x^{10} + 18x^8 - 106x^6 + 79x^4 - 18x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |
| $x^{12} + 18x^{10} - 9x^8 - 4x^6 + 11x^4 - 6x^2 + 13$ | $x^{12} + 6x^{10} + 3x^8 - 6x^6 + 36x^4 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-------------|------------------|
| $x^{12} + 114x^{10} - 7x^8 + 84x^6 + 119x^4 + 18x^2 + 15$ | $x^{12} + 6x^{10} - 225x^8 - 702x^6 + 12798x^4 - 2916x^2 - 729$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 3 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} - 14x^{10} - 19x^8 + 20x^6 - 29x^4 - 22x^2 + 23$ | $x^{12} + 14x^{10} + 99x^8 + 438x^6 + 864x^4 - 556x^2 - 2809$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 3 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} - 22x^{10} - 7x^8 + 20x^6 + 3x^4 + 2x^2 + 27$ | $x^{12} - 6x^{10} - 27x^8 - 66x^6 + 630x^4 - 1125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 3 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 6x^{10} - 3x^8 + 20x^6 + 3x^4 - 14x^2 + 7$ | $x^{12} - 4x^{10} - 4x^8 + 22x^6 - 7x^4 - 14x^2 + 7$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 3 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} + 10x^{10} - 3x^8 - 28x^6 - 21x^4 - 14x^2 - 17$ | $x^{12} - 26x^8 - 70x^6 - 57x^4 - 14x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 3 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} - 6x^{10} + 9x^8 + 4x^6 - 13x^4 + 2x^2 - 5$ | $x^{12} - 60x^{10} - 2640x^8 - 32050x^6 - 140775x^4 - 149250x^2 - 45125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 3 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 6x^{10} - x^8 + 4x^6 - 13x^4 + 10x^2 - 3$ | $x^{12} + 38x^6 - 15x^4 - 18x^2 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 3 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} - 6x^{10} + 19x^8 + 28x^6 - 21x^4 - 30x^2 + 17$ | $x^{12} - 4x^{11} - 34x^{10} + 84x^9 + 353x^8 - 240x^7 - 2268x^6 - 2448x^5 + 12507x^4 + 10228x^3 - 35378x^2 - 1764x + 22939$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 32,27 | $\frac{51}{16}$ |
| $x^{12} - 6x^{10} + x^8 + 4x^6 + 3x^4 + 2x^2 + 3$ | $x^{12} + 24x^{10} + 6x^8 - 774x^6 + 1539x^4 - 486x^2 + 27$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} - 110x^{10} - 95x^8 + 52x^6 - 57x^4 - 110x^2 + 55$ | $x^{12} - 14x^{10} - 49x^8 + 14x^6 - 14x^4 - 28x^2 + 7$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & 3 \\ & & & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 2x^{10} + 7x^8 - 12x^6 - 13x^4 + 18x^2 - 11$ | $x^{12} - 18x^8 - 38x^6 - 33x^4 - 18x^2 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & 3 \\ & & & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 6x^{10} + x^8 - 12x^6 + 3x^4 - 14x^2 + 3$ | $x^{12} - 6x^{10} - 3x^8 + 42x^6 - 36x^4 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} - 30x^{10} + 13x^8 - 28x^6 + 19x^4 - 22x^2 - 25$ | $x^{12} + 12x^{10} - 36x^8 + 78x^6 - 81x^4 + 54x^2 - 9$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} + 10x^{10} + 31x^8 + 12x^6 - 5x^4 - 14x^2 + 5$ | $x^{12} - 66x^{10} + 1353x^8 - 8070x^6 - 45216x^4 + 635616x^2 - 1829883$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 10x^{10} - 7x^8 - 12x^6 - 13x^4 + 2x^2 - 5$ | $x^{12} - 12x^{10} + 42x^8 - 42x^6 - 9x^4 + 18x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} + 26x^{10} + 3x^8 + 20x^6 + 27x^4 - 6x^2 - 15$ | $x^{12} - 6x^{10} + 3x^8 + 28x^6 - 21x^4 - 30x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 32,27 | $\frac{51}{16}$ |
| $x^{12} + 2x^{10} + 7x^8 + 4x^6 + 3x^4 + 2x^2 + 5$ | $x^{12} - 72x^{10} + 1656x^8 - 15786x^6 + 53433x^4 + 23166x^2 - 136107$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 10x^{10} + 21x^8 - 28x^6 + 19x^4 - 30x^2 + 31$ | $x^{12} + 20x^{10} + 2x^8 + 58x^6 + 15x^4 - 6x^2 - 25$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} - 30x^{10} - 21x^8 + 12x^6 - 5x^4 + 10x^2 - 23$ | $x^{12} - 12x^{10} + 18x^8 + 106x^6 + 79x^4 + 18x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 32,27 | $\frac{51}{16}$ |
| $x^{12} + 138x^{10} - 83x^8 + 84x^6 + 175x^4 + 250x^2 + 115$ | $x^{12} - 30x^8 - 54x^6 + 9x^4 + 18x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & 3 & \frac{7}{2} \end{array} \right]_1^3$ | I: 32,46 | $\frac{47}{16}$ |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} - 2x^{10} + 13x^8 + 20x^6 + 3x^4 + 14x^2 - 9$ | $x^{12} + 34x^{10} + 265x^8 - 410x^6 + 84x^4 + 76x^2 - 25$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} + 10x^{10} + 13x^8 + 4x^6 - 13x^4 + 2x^2 + 7$ | $x^{12} + 2x^{10} - 7x^8 + 46x^6 - 86x^4 + 148x^2 - 25$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} - 14x^{10} + 5x^8 - 12x^6 - 13x^4 + 10x^2 + 15$ | $x^{12} + 6x^{10} + 9x^8 + 30x^6 + 54x^4 + 108x^2 - 9$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} - 22x^{10} - 9x^8 - 4x^6 - 5x^4 - 30x^2 + 29$ | $x^{12} - 12x^{10} + 30x^8 - 6x^6 - 9x^4 + 18x^2 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 10x^{10} + x^8 - 12x^6 - 13x^4 + 2x^2 + 3$ | $x^{12} - 30x^{10} + 225x^8 - 1950x^6 - 67950x^4 - 283500x^2 - 325125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 30x^{10} - 7x^8 - 28x^6 + 19x^4 + 26x^2 - 21$ | $x^{12} + 12x^{10} + 36x^8 - 66x^6 - 585x^4 - 1350x^2 - 1125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 30x^{10} + 31x^8 + 12x^6 + 27x^4 - 6x^2 + 5$ | $x^{12} + 72x^{10} + 1110x^8 - 1098x^6 - 8937x^4 + 42102x^2 - 39675$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} + 18x^{10} + 117x^8 + 36x^6 + 95x^4 + 66x^2 - 37$ | $x^{12} + 12x^{10} - 30x^8 + 78x^6 - 63x^4 + 18x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 14x^{10} - 13x^8 - 12x^6 - 13x^4 - 10x^2 - 7$ | $x^{12} + 22x^{10} - 119x^8 + 178x^6 - 76x^4 - 4x^2 + 25$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 32,34 | $\frac{51}{16}$ |
| $x^{12} - 22x^{10} - 27x^8 + 4x^6 + 11x^4 - 14x^2 + 23$ | $x^{12} + 4x^{10} - 80x^8 - 178x^6 + 1809x^4 + 810x^2 - 729$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 2x^{10} - 5x^8 - 4x^6 + 3x^4 - 2x^2 + 1$ | $x^{12} - 2x^{10} - 9x^8 + 14x^6 + 10x^4 - 8x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 32,27 | $\frac{51}{16}$ |
| $x^{12} + 2x^{10} - 15x^8 + 4x^6 - 13x^4 - 6x^2 - 13$ | $x^{12} + 6x^{10} + 9x^8 - 204x^6 - 45x^4 + 1350x^2 - 1125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 14x^{10} - 9x^8 - 12x^6 + 3x^4 + 2x^2 + 5$ | $x^{12} + 24x^{10} + 212x^8 + 818x^6 + 1089x^4 - 1206x^2 - 4563$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 6x^{10} + 15x^8 + 12x^6 + 11x^4 + 2x^2 - 11$ | $x^{12} - 6x^{10} - 33x^8 + 60x^6 - 45x^4 + 18x^2 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} - 6x^{10} + 19x^8 + 28x^6 + 27x^4 + 2x^2 + 1$ | $x^{12} - 10x^{10} - 33x^8 + 22x^6 + 18x^4 - 12x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |
| $x^{12} + 22x^{10} + 19x^8 + 4x^6 + 19x^4 + 30x^2 - 23$ | $x^{12} - 30x^8 - 58x^6 + 135x^4 + 474x^2 + 361$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |
| $x^{12} + 2x^{10} + 5x^8 + 4x^6 + 11x^4 - 6x^2 - 9$ | $x^{12} + 12x^{10} + 30x^8 + 10x^6 - 9x^4 + 18x^2 - 9$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 6x^{10} - 7x^8 + 4x^6 + 3x^4 + 2x^2 + 11$ | $x^{12} + 6x^{10} - 141x^8 + 306x^6 + 288x^4 - 540x^2 + 27$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} - 6x^{10} - 9x^8 - 4x^6 + 11x^4 - 14x^2 - 3$ | $x^{12} + 66x^{10} + 1353x^8 + 8070x^6 - 45216x^4 - 635616x^2 - 1829883$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 22x^{10} - 15x^8 + 20x^6 - 29x^4 + 2x^2 + 3$ | $x^{12} + 6x^{10} - 45x^8 - 474x^6 - 1800x^4 - 2700x^2 - 1125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 2x^{10} + 5x^8 + 4x^6 - 5x^4 - 6x^2 + 7$ | $x^{12} + 6x^{10} + 13x^8 + 12x^6 - 5x^4 - 18x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} + 18x^{10} - 25x^8 - 4x^6 + 27x^4 + 26x^2 + 29$ | $x^{12} - 12x^8 - 10x^6 + 45x^4 + 54x^2 - 27$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 6x^{10} - 3x^8 + 4x^6 - 5x^4 + 6x^2 + 15$ | $x^{12} - 6x^{10} - 3x^8 + 18x^6 + 30x^4 + 12x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 2x^{10} + x^8 + 4x^6 + 3x^4 - 6x^2 - 13$ | $x^{12} - 102x^{10} - 56x^9 + 2979x^8 + 564x^7 - 36142x^6 + 5868x^5 + 196650x^4 - 85384x^3 - 438516x^2 + 263868x + 268831$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 2x^{10} - 15x^8 - 12x^6 + 19x^4 - 2x^2 - 13$ | $x^{12} - 30x^{10} + 189x^8 - 222x^6 - 1530x^4 + 2700x^2 - 1125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 30x^{10} - 15x^8 + 20x^6 - 21x^4 + 26x^2 + 27$ | $x^{12} + 6x^{10} + 9x^8 - 4x^6 - 21x^4 - 18x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} + 26x^{10} + 25x^8 - 44x^6 - 41x^4 + 10x^2 + 47$ | $x^{12} - 4x^{10} - 54x^8 + 282x^6 + 93x^4 - 1278x^2 - 625$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 32,46 | $\frac{47}{16}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-------------|------------------|
| $x^{12} + 2x^{10} - x^8 + 4x^6 - 13x^4 + 2x^2 + 13$ | $x^{12} + 18x^{10} + 75x^8 + 126x^6 + 108x^4 + 36x^2 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 30x^{10} + 11x^8 + 28x^6 + 3x^4 - 2x^2 - 31$ | $x^{12} + 12x^{10} - 36x^8 - 30x^6 + 63x^4 + 54x^2 + 9$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 32,27 | $\frac{51}{16}$ |
| $x^{12} - 134x^{10} + 53x^8 + 212x^6 - 161x^4 - 246x^2 - 165$ | $x^{12} + 12x^{10} + 18x^8 + 22x^6 + 33x^4 + 18x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & 3 & 3 \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 18x^{10} + 15x^8 - 12x^6 - 29x^4 - 30x^2 - 3$ | $x^{12} - 162x^{10} - 1064x^9 + 3207x^8 + 77028x^7 + 484350x^6 + 1688316x^5 + 3526356x^4 + 4165168x^3 + 2191692x^2 + 65940x - 31625$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 90x^{10} + 61x^8 + 52x^6 - 81x^4 - 54x^2 + 35$ | $x^{12} - 18x^{10} + 141x^8 - 612x^6 + 1503x^4 - 1890x^2 + 867$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & 3 & 3 \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 66x^{10} - 19x^8 + 68x^6 + 111x^4 - 14x^2 - 13$ | $x^{12} - 12x^{10} + 18x^8 - 22x^6 + 33x^4 - 18x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & 3 & 3 \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-------------|------------------|
| $x^{12} - 6x^{10} - 9x^8 - 4x^6 - 21x^4 - 14x^2 + 13$ | $x^{12} - 6x^{10} + 3x^8 + 6x^6 + 36x^4 - 3$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 3 & \frac{7}{2} \\ & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 2x^{10} + 3x^8 - 12x^6 + 3x^4 + 6x^2 + 9$ | $x^{12} - 30x^8 + 58x^6 + 135x^4 - 474x^2 + 361$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 3 & \frac{7}{2} \\ & & \frac{7}{2} \end{array} \right]_1^3$ | I: 32,34 | $\frac{51}{16}$ |
| $x^{12} + 14x^{10} - 13x^8 + 4x^6 - 13x^4 - 10x^2 - 7$ | $x^{12} + 4x^{10} - 28x^8 - 22x^6 + 171x^4 - 126x^2 + 25$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 3 & \frac{7}{2} \\ & & \frac{7}{2} \end{array} \right]_1^6$ | I: 32,27 | $\frac{51}{16}$ |
| $x^{12} + 2x^{10} - 15x^8 - 12x^6 - 13x^4 + 10x^2 - 13$ | $x^{12} - 6x^{10} + 9x^8 + 204x^6 - 45x^4 - 1350x^2 - 1125$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 3 & \frac{7}{2} \\ & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 18x^{10} - 5x^8 + 28x^6 + 27x^4 - 22x^2 - 23$ | $x^{12} - 10x^{10} + 7x^8 + 74x^6 - 8x^4 - 64x^2 + 25$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 3 & \frac{7}{2} \\ & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |
| $x^{12} - 6x^{10} - 3x^8 + 4x^6 - 5x^4 + 2x^2 - 1$ | $x^{12} - 26x^8 + 70x^6 - 57x^4 + 14x^2 - 1$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 3 & \frac{7}{2} \\ & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} + 22x^{10} - 29x^8 - 12x^6 - 13x^4 + 14x^2 + 25$ | $x^{12} - 12x^8 + 14x^6 - 27x^4 + 6x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 3 & \frac{7}{2} \\ & & \frac{7}{2} \end{array} \right]_1^6$ | I: 32,34 | $\frac{51}{16}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-------------|------------------|
| $x^{12} - 14x^{10} + x^8 - 12x^6 - 5x^4 + 10x^2 - 5$ | $x^{12} - 12x^{10} + 42x^8 + 2x^6 - 165x^4 - 750x^2 - 125$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} \\ & & & & & & \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} - 10x^{10} + x^8 + 4x^6 + 3x^4 - 10x^2 - 13$ | $x^{12} - 12x^{10} + 122x^6 + 1725x^4 + 450x^2 - 45125$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} \\ & & & & & & \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 14x^{10} - 9x^8 - 28x^6 - 13x^4 + 18x^2 - 27$ | $x^{12} - 6x^{10} + 3x^8 + 2x^6 + 12x^4 - 3$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 3 & 3 & \frac{7}{2} & \frac{7}{2} \\ & & & & & & \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 10x^{10} + 11x^8 + 12x^6 - 13x^4 - 10x^2 - 15$ | $x^{12} + 6x^{10} + 3x^8 - 28x^6 - 21x^4 + 30x^2 + 1$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} \\ & & & & & & \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |
| $x^{12} - 14x^{10} + 9x^8 - 12x^6 + 11x^4 + 10x^2 + 3$ | $x^{12} - 24x^8 - 22x^6 + 33x^4 - 18x^2 + 3$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} \\ & & & & & & \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} + 10x^{10} - x^8 + 4x^6 + 3x^4 - 6x^2 - 3$ | $x^{12} - 12x^{10} + 48x^8 - 42x^6 - 153x^4 + 270x^2 - 3$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} \\ & & & & & & \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 2x^{10} + x^8 - 4x^6 + 3x^4 + 2x^2 + 3$ | $x^{12} - 6x^{10} - 141x^8 - 306x^6 + 288x^4 + 540x^2 + 27$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} \\ & & & & & & \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} - 6x^{10} + 13x^8 + 12x^6 + 11x^4 - 6x^2 - 1$ | $x^{12} - 10x^{10} - 19x^8 + 100x^6 - 21x^4 - 90x^2 - 1$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 2 & 3 \\ & & 2 \end{array} \frac{7}{2} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} + 10x^{10} - 21x^8 - 20x^6 - 21x^4 + 2x^2 - 7$ | $x^{12} + 2x^{10} - 45x^8 + 92x^6 + 51x^4 - 262x^2 + 169$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 2 & 3 \\ & & 2 \end{array} \right]_1^3$ | I: 32,27 | $\frac{51}{16}$ |
| $x^{12} + 2x^{10} - 11x^8 + 20x^6 + 31x^4 - 30x^2 - 5$ | $x^{12} + 12x^{10} + 54x^8 + 58x^6 - 219x^4 - 450x^2 + 867$ | $\left[\begin{array}{ccc} 2 & 3 \\ & 3 \\ & & 2 \end{array} \right]_1^3$ | I: 8,3 | $\frac{11}{4}$ |
| $x^{12} - 2x^{10} - 5x^8 - 4x^6 + 19x^4 - 2x^2 - 15$ | $x^{12} - 6x^{10} - 11x^8 + 14x^6 + 12x^4 - 12x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 3 \\ & & 2 \end{array} \frac{7}{2} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |
| $x^{12} + 18x^{10} - 31x^8 - 12x^6 + 3x^4 + 26x^2 - 13$ | $x^{12} + 90x^{10} + 2475x^8 + 24850x^6 + 91800x^4 + 67500x^2 - 45125$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 3 \\ & & 2 \end{array} \frac{7}{2} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 2x^{10} - x^8 - 2x^6 + 2x^4 - 1$ | $x^{12} - 10x^{10} + 11x^8 + 46x^6 + 6x^4 - 12x^2 - 1$ | $\left[\begin{array}{ccc} 2 & 3 \\ & 3 \\ & & 2 \end{array} \right]_1^3$ | I: 8,3 | $\frac{11}{4}$ |
| $x^{12} - 14x^{10} + 21x^8 + 4x^6 - 13x^4 - 6x^2 - 1$ | $x^{12} - 6x^{10} + 9x^8 - 30x^6 + 54x^4 - 108x^2 - 9$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 3 \\ & & 2 \end{array} \frac{7}{2} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-------------|------------------|
| $x^{12} + 130x^{10} - 243x^8 - 60x^6 + 175x^4 + 50x^2 + 19$ | $x^{12} - 6x^8 - 14x^6 - 39x^4 - 18x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 3 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 26x^{10} - x^8 - 28x^6 + 19x^4 - 22x^2 + 29$ | $x^{12} - 66x^{10} + 597x^8 + 7302x^6 + 50544x^4 - 50328x^2 - 39675$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 3 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 6x^{10} - 7x^8 + 4x^6 - 13x^4 + 6x^2 + 11$ | $x^{12} - 60x^{10} - 900x^8 - 4350x^6 - 9225x^4 - 6750x^2 - 1125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 3 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 22x^{10} - x^8 + 4x^6 + 3x^4 + 26x^2 + 29$ | $x^{12} + 16x^{10} + 88x^8 + 218x^6 + 219x^4 + 18x^2 - 27$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 3 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 10x^{10} + 17x^8 + 20x^6 - 5x^4 + 18x^2 + 11$ | $x^{12} + 98304x^{10} + 4026531840x^8 - 61572651155456x^6 - 3458764513820540928x^4 + 42501298345826806923264x^2 + 58028439341502200385896448$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 3 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} + 10x^{10} + 9x^8 - 12x^6 + 11x^4 - 14x^2 - 29$ | $x^{12} + 6x^{10} - 87x^8 - 1036x^6 - 3765x^4 - 4650x^2 - 125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} + 10x^{10} + 9x^8 - 12x^6 - 5x^4 + 2x^2 - 13$ | $x^{12} - 6x^{10} - 39x^8 - 12x^6 + 27x^4 + 18x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} - 30x^{10} + 25x^8 + 20x^6 + 23x^4 - 30x^2 + 15$ | $x^{12} - 12x^{10} - 126x^8 + 1566x^6 - 567x^4 - 17982x^2 - 729$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & 3 \\ & & & 3 \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} - 6x^{10} - 7x^8 + 4x^6 + 3x^4 + 2x^2 - 5$ | $x^{12} + 60x^{10} - 2640x^8 + 32050x^6 - 140775x^4 + 149250x^2 - 45125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 106x^{10} + 113x^8 - 28x^6 - 121x^4 - 150x^2 - 25$ | $x^{12} - 6x^{10} - 189x^8 + 1566x^6 + 1134x^4 - 22356x^2 - 729$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & 3 \\ & & & 3 \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 10x^{10} - x^8 + 12x^6 - 5x^4 - 14x^2 + 5$ | $x^{12} - 12x^{10} + 54x^8 - 98x^6 + 27x^4 + 54x^2 - 27$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & 3 \\ & & & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 22x^{10} - 13x^8 + 4x^6 + 3x^4 - 2x^2 + 9$ | $x^{12} - 28x^{10} + 136x^8 + 266x^6 + 161x^4 + 34x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-------------|------------------|
| $x^{12} + 2x^{10} + 5x^8 - 12x^6 - x^4 + 2x^2 + 11$ | $x^{12} + 6x^8 + 10x^6 + 81x^4 + 54x^2 + 27$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 32,46 | $\frac{47}{16}$ |
| $x^{12} + 42x^{10} - 79x^8 - 124x^6 + 103x^4 - 54x^2 - 121$ | $x^{12} - 18x^{10} - 189x^8 + 702x^6 + 3402x^4 - 9720x^2 - 729$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 10x^{10} + 13x^8 - 12x^6 - 5x^4 + 2x^2 - 1$ | $x^{12} - 6x^{10} + 13x^8 - 12x^6 - 5x^4 + 18x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 2x^{10} + 9x^8 - 12x^6 - 5x^4 - 6x^2 - 13$ | $x^{12} - 30x^{10} - 129x^8 + 226x^6 + 1020x^4 - 1500x^2 - 125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} + 82x^{10} - 87x^8 - 140x^6 - 201x^4 - 174x^2 + 31$ | $x^{12} - 30x^{10} + 171x^8 + 810x^6 - 5022x^4 - 4860x^2 - 729$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 10x^{10} - 17x^8 + 12x^6 - 5x^4 - 14x^2 + 5$ | $x^{12} + 4x^{10} - 110x^8 - 622x^6 - 969x^4 - 306x^2 - 27$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 14x^{10} - 15x^8 - 12x^6 + 3x^4 + 14x^2 + 3$ | $x^{12} + 60x^{10} + 1080x^8 + 7050x^6 + 19125x^4 + 20250x^2 - 1125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} - 10x^{10} + 11x^8 + 4x^6 - 13x^4 - 2x^2 + 1$ | $x^{12} + 6x^{10} + 11x^8 + 4x^6 - 13x^4 - 18x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |
| $x^{12} - 30x^{10} + 27x^8 - 20x^6 - 21x^4 - 22x^2 + 9$ | $x^{12} + 26x^{10} + 187x^8 - 14x^6 - 2678x^4 + 1728x^2 + 841$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |
| $x^{12} - 14x^{10} - 7x^8 - 12x^6 - 13x^4 - 6x^2 + 11$ | $x^{12} - 12x^{10} + 36x^8 + 66x^6 - 585x^4 + 1350x^2 - 1125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 10x^{10} - 5x^8 - 12x^6 - 5x^4 + 10x^2 + 9$ | $x^{12} + 18x^{10} - 45x^8 - 36x^6 + 99x^4 - 54x^2 + 9$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 32,27 | $\frac{51}{16}$ |
| $x^{12} - 6x^{10} - 3x^8 + 4x^6 + 3x^4 + 2x^2 + 7$ | $x^{12} - 8x^{10} + 12x^8 + 22x^6 - 21x^4 - 14x^2 + 7$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} - 6x^{10} - 9x^8 + 4x^6 - 13x^4 + 10x^2 - 11$ | $x^{12} + 4x^{10} - 54x^8 + 50x^6 + 39x^4 - 54x^2 - 27$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 18x^{10} - 25x^8 - 4x^6 - 5x^4 + 26x^2 + 13$ | $x^{12} + 12x^{10} + 30x^8 + 6x^6 - 9x^4 - 18x^2 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-------------|------------------|
| $x^{12} + 2x^{10} - 11x^8 + 4x^6 + 3x^4 + 10x^2 + 15$ | $x^{12} - 10x^{10} - 19x^8 + 230x^6 - 268x^4 + 560x^2 - 2809$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} + 2x^{10} - 9x^8 + 4x^6 + 3x^4 + 2x^2 + 5$ | $x^{12} + 6x^{10} - 15x^8 - 150x^6 - 288x^4 - 180x^2 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 26x^{10} + 29x^8 - 12x^6 - 5x^4 - 10x^2 - 17$ | $x^{12} - 2x^{10} - 35x^8 + 44x^6 - 21x^4 + 6x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 6x^{10} + 15x^8 - 20x^6 + 11x^4 + 2x^2 - 11$ | $x^{12} + 12x^{10} - 192x^8 + 538x^6 - 285x^4 - 270x^2 - 27$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 78x^{10} - 111x^8 + 84x^6 + 7x^4 - 110x^2 - 121$ | $x^{12} - 14x^8 - 98x^6 - 203x^4 - 70x^2 + 7$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} - 6x^{10} + 27x^8 - 4x^6 - 21x^4 - 30x^2 - 7$ | $x^{12} - 4x^{10} - 28x^8 + 22x^6 + 171x^4 + 126x^2 + 25$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |
| $x^{12} - 6x^{10} + 21x^8 + 20x^6 - 5x^4 + 18x^2 + 7$ | $x^{12} + 2x^{10} - 15x^8 + 6x^6 + 28x^4 - 28x^2 + 7$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-------------|------------------|
| $x^{12} - 14x^{10} + 15x^8 - 12x^6 + 3x^4 + 2x^2 - 3$ | $x^{12} + 6x^{10} + 3x^8 - 2x^6 + 12x^4 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 2 & 3 \\ & & & 2 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 30x^{10} + 31x^8 + 4x^6 + 19x^4 + 2x^2 + 13$ | $x^{12} + 8x^{10} - 20x^8 - 566x^6 - 2925x^4 - 6138x^2 - 4563$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 2 & 3 \\ & & & 2 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 18x^{10} + 81x^8 + 212x^6 + 39x^4 - 142x^2 - 89$ | $x^{12} + 2x^{10} - 57x^8 + 118x^6 - 70x^4 + 7$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 2 \end{array} \right]_1^3$ | I: 32,46 | $\frac{47}{16}$ |
| $x^{12} + 2x^{10} - 7x^8 + 4x^6 + 3x^4 - 6x^2 - 5$ | $x^{12} - 60x^{10} + 750x^8 + 10450x^6 - 178725x^4 - 216750x^2 - 45125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 14x^{10} - 3x^8 + 4x^6 + 11x^4 + 10x^2 - 1$ | $x^{12} + 4x^{10} - 2x^8 + 2x^6 + 15x^4 - 6x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 2x^{10} - x^8 + 12x^6 + 11x^4 - 6x^2 - 11$ | $x^{12} - 12x^8 + 10x^6 + 45x^4 - 54x^2 - 27$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 2 & 3 \\ & & & 2 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 18x^{10} + 5x^8 + 20x^6 + 3x^4 + 10x^2 + 31$ | $x^{12} + 10x^{10} - 19x^8 - 230x^6 - 268x^4 - 560x^2 - 2809$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} - 6x^{10} + 25x^8 + 4x^6 + 27x^4 - 14x^2 - 29$ | $x^{12} + 6144x^{10} + 15728640x^8 + 16374562816x^6 - 1443109011456x^4 - 633318697598976x^2 + 54043195528445952$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} - 14x^{10} - 9x^8 + 4x^6 - 13x^4 - 14x^2 + 5$ | $x^{12} + 78x^{10} + 939x^8 - 13110x^6 - 42552x^4 + 56232x^2 - 39675$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 10x^{10} - 13x^8 + 12x^6 + 3x^4 - 10x^2 - 7$ | $x^{12} + 18x^{10} + 99x^8 + 206x^6 + 108x^4 - 72x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |
| $x^{12} + 6x^{10} - 29x^8 + 20x^6 - 29x^4 + 30x^2 + 25$ | $x^{12} + 6x^{10} - 37x^8 - 214x^6 - 310x^4 - 72x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 32,34 | $\frac{51}{16}$ |
| $x^{12} - 14x^{10} + x^8 + 36x^6 - 57x^4 - 62x^2 - 9$ | $x^{12} - 20x^{10} + 106x^8 - 58x^6 - 427x^4 - 202x^2 - 25$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 32,46 | $\frac{47}{16}$ |
| $x^{12} - 14x^{10} - 15x^8 + 4x^6 - 5x^4 - 6x^2 + 11$ | $x^{12} + 36x^{10} + 378x^8 + 1666x^6 + 3195x^4 + 2250x^2 - 125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-------------|------------------|
| $x^{12} + 6x^{10} + 3x^8 - 12x^6 - 13x^4 - 2x^2 - 7$ | $x^{12} - 22x^{10} + 123x^8 + 732x^6 - 10933x^4 + 34114x^2 + 6889$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 2 & 3 \\ & & 2 \end{array} \right]_1^6$ | I: 32,34 | $\frac{51}{16}$ |
| $x^{12} + 10x^{10} - 99x^8 + 68x^6 + 79x^4 + 74x^2 + 67$ | $x^{12} - 12x^{10} + 54x^8 - 58x^6 - 219x^4 + 450x^2 + 867$ | $\left[\begin{array}{ccc} 2 & 3 & 3 \\ & 2 & 3 \\ & & 2 \end{array} \right]_1^3$ | I: 8,3 | $\frac{11}{4}$ |
| $x^{12} - 14x^{10} + 7x^8 - 4x^6 - 5x^4 - 6x^2 - 3$ | $x^{12} - 72x^{10} + 1782x^8 - 16038x^6 + 34911x^4 + 48114x^2 - 6075$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 2 & 3 \\ & & 2 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 6x^{10} + 9x^8 + 4x^6 - 13x^4 + 2x^2 - 21$ | $x^{12} + 6x^{10} - 39x^8 + 12x^6 + 27x^4 - 18x^2 + 3$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 2 & 3 \\ & & 2 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} - 10x^{10} + 11x^8 - 4x^6 - 13x^4 + 6x^2 - 15$ | $x^{12} - 18x^{10} + 99x^8 - 206x^6 + 108x^4 + 72x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 2 & 3 \\ & & 2 \end{array} \right]_1^3$ | I: 32,27 | $\frac{51}{16}$ |
| $x^{12} + 2x^{10} + 23x^8 - 28x^6 + 3x^4 - 30x^2 + 5$ | $x^{12} + 8x^{10} - 6x^8 - 62x^6 - 69x^4 - 1854x^2 - 27$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 2 & 3 \\ & & 2 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 10x^{10} + 13x^8 - 12x^6 + 3x^4 - 14x^2 - 9$ | $x^{12} + 8x^{10} + 16x^8 + 18x^6 + 19x^4 + 22x^2 - 1$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 2 & 3 \\ & & 2 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-------------|------------------|
| $x^{12} - 6x^{10} - 31x^8 - 28x^6 + 3x^4 - 30x^2 - 13$ | $x^{12} - 6x^{10} - 45x^8 + 474x^6 - 1800x^4 + 2700x^2 - 1125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 6x^{10} - 31x^8 - 28x^6 + 3x^4 - 30x^2 + 3$ | $x^{12} - 6x^{10} - 3x^8 + 42x^6 + 18x^4 - 36x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} + 10x^{10} + x^8 - 12x^6 + 3x^4 + 2x^2 + 3$ | $x^{12} - 18x^{10} + 57x^8 + 396x^6 - 2061x^4 + 1350x^2 + 27$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} - 30x^{10} - 27x^8 - 4x^6 - 5x^4 - 30x^2 - 9$ | $x^{12} - 34x^{10} + 265x^8 + 410x^6 + 84x^4 - 76x^2 - 25$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} - 26x^{10} - 13x^8 - 28x^6 - 13x^4 - 18x^2 + 9$ | $x^{12} + 6x^{10} - 13x^8 + 34x^6 - 48x^4 - 8x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |
| $x^{12} + 14x^{10} - 21x^8 - 12x^6 + 3x^4 + 22x^2 + 17$ | $x^{12} - 10x^{10} + 7x^8 + 74x^6 + 122x^4 + 92x^2 + 25$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 32,34 | $\frac{51}{16}$ |
| $x^{12} - 22x^{10} - 27x^8 - 28x^6 + 27x^4 - 14x^2 + 23$ | $x^{12} + 34x^{10} + 421x^8 + 2346x^6 + 5570x^4 + 3612x^2 - 25$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-------------|------------------|
| $x^{12} + 6x^{10} - 11x^8 - 12x^6 - 5x^4 - 10x^2 - 9$ | $x^{12} + 2x^{10} - 7x^8 - 2x^6 - 14x^4 + 8x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 6x^{10} - 9x^8 - 4x^6 + 11x^4 - 14x^2 + 13$ | $x^{12} + 26x^{10} + 249x^8 + 1042x^6 + 1584x^4 - 144x^2 - 27$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 6x^{10} + 5x^8 + 4x^6 - 5x^4 + 2x^2 + 7$ | $x^{12} - 4x^{10} - 2x^8 - 2x^6 + 15x^4 + 6x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 10x^{10} + 3x^8 + 12x^6 - 5x^4 + 2x^2 + 1$ | $x^{12} - 8x^{10} - 8x^8 + 202x^6 - 449x^4 - 50x^2 + 625$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 32,27 | $\frac{51}{16}$ |
| $x^{12} - 6x^{10} + 15x^8 + 12x^6 + 11x^4 + 2x^2 + 5$ | $x^{12} + 90x^{10} + 2619x^8 + 24786x^6 - 20250x^4 - 46656x^2 - 6075$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 14x^{10} + 7x^8 - 4x^6 + 11x^4 - 6x^2 + 13$ | $x^{12} + 6x^{10} - 9x^8 - 98x^6 - 162x^4 - 108x^2 - 27$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 14x^{10} + 11x^8 + 12x^6 + 3x^4 - 2x^2 + 1$ | $x^{12} - 6x^{10} - 3x^8 + 26x^6 + 12x^4 - 12x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-------------|------------------|
| $x^{12} + 6x^{10} + 5x^8 + 4x^6 - 5x^4 + 6x^2 + 7$ | $x^{12} - 6x^{10} + 3x^8 + 18x^6 - 36x^4 + 12x^2 - 1$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} \\ & & & & & & \end{bmatrix}_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 2x^{10} + 29x^8 + 20x^6 - 21x^4 + 30x^2 + 31$ | $x^{12} - 2x^{10} - 7x^8 + 2x^6 - 14x^4 - 8x^2 - 1$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} & \frac{7}{2} \\ & & & & & & \end{bmatrix}_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 2x^{10} + 3x^8 + 12x^6 + 11x^4 + 10x^2 - 15$ | $x^{12} + 18x^{10} + 83x^8 - 84x^6 - 917x^4 - 102x^2 + 1$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} \\ & & & & & \end{bmatrix}_1^3$ | I: 32,27 | $\frac{51}{16}$ |
| $x^{12} + 6x^{10} + 9x^8 + 4x^6 + 3x^4 + 6x^2 + 11$ | $x^{12} - 42x^{10} + 297x^8 - 588x^6 - 45x^4 + 1350x^2 - 1125$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} \\ & & & & & \end{bmatrix}_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 10x^{10} - 11x^8 - 12x^6 + 11x^4 + 6x^2 + 7$ | $x^{12} + 2x^{10} - 137x^8 + 930x^6 - 2764x^4 + 3944x^2 - 2209$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} \\ & & & & & \end{bmatrix}_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 30x^{10} + 5x^8 + 20x^6 + 27x^4 + 10x^2 + 7$ | $x^{12} - 30x^{10} + 245x^8 - 342x^6 + 210x^4 + 152x^2 - 1$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} \\ & & & & & \end{bmatrix}_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 10x^{10} - 11x^8 - 12x^6 - 13x^4 - 14x^2 - 1$ | $x^{12} - 20x^{10} + 2x^8 - 58x^6 + 15x^4 + 6x^2 - 25$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} \\ & & & & & \end{bmatrix}_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-------------|------------------|
| $x^{12} - 30x^{10} - x^8 - 20x^6 - 21x^4 - 6x^2 - 11$ | $x^{12} + 72x^{10} + 1782x^8 + 16038x^6 + 34911x^4 - 48114x^2 - 6075$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 7 & 7 \\ & & & 2 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 10x^{10} + 213x^8 - 44x^6 - 129x^4 + 122x^2 + 219$ | $x^{12} + 6x^{10} - 9x^8 - 22x^6 + 6x^4 - 36x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 7 \\ & & & & 2 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} - 22x^{10} + 7x^8 - 12x^6 + 19x^4 - 22x^2 + 5$ | $x^{12} - 2x^{10} - 73x^8 - 218x^6 - 264x^4 - 144x^2 - 27$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 7 & 7 \\ & & & 2 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 22x^{10} - 31x^8 + 20x^6 - 13x^4 - 26x^2 - 29$ | $x^{12} - 30x^{10} + 45x^8 + 1650x^6 + 4950x^4 - 13500x^2 - 1125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 7 & 7 \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 62x^{10} + 33x^8 + 948x^6 + 775x^4 + 162x^2 + 951$ | $x^{12} - 16x^{10} + 90x^8 - 230x^6 + 273x^4 - 126x^2 + 7$ | $\left[\begin{array}{ccc} 2 & 3 & 7 \\ & 3 & 2 \end{array} \right]_1^3$ | I: 8,3 | $\frac{11}{4}$ |
| $x^{12} + 10x^{10} + 5x^8 + 4x^6 + 3x^4 + 2x^2 + 31$ | $x^{12} - 4x^{10} - 4x^8 + 50x^6 - 105x^4 + 98x^2 - 49$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 7 & 7 \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} - 10x^{10} - 15x^8 - 12x^6 + 3x^4 + 6x^2 + 3$ | $x^{12} + 12x^{10} - 122x^6 + 1725x^4 - 450x^2 - 45125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 7 & 7 \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-------------|------------------|
| $x^{12} - 6x^{10} - 9x^8 - 12x^6 + 3x^4 - 6x^2 - 11$ | $x^{12} + 66x^{10} + 597x^8 - 7302x^6 + 50544x^4 + 50328x^2 - 39675$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 18x^{10} - 29x^8 + 4x^6 - 29x^4 - 26x^2 - 23$ | $x^{12} - 12x^8 - 14x^6 - 27x^4 - 6x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |
| $x^{12} - 2x^{10} - 19x^8 - 28x^6 - 21x^4 + 14x^2 + 15$ | $x^{12} + 6x^{10} + 3x^8 - 18x^6 - 36x^4 - 12x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} + 10x^{10} - 15x^8 - 12x^6 + 11x^4 - 14x^2 - 5$ | $x^{12} - 42x^{10} - 28x^9 + 567x^8 + 972x^7 - 1710x^6 - 6912x^5 - 11358x^4 - 10468x^3 - 6588x^2 - 2424x - 557$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} - 6x^{10} + 53x^8 - 76x^6 - 65x^4 - 22x^2 - 69$ | $x^{12} - 18x^{10} + 123x^8 - 386x^6 + 522x^4 - 216x^2 + 27$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} - 6x^{10} - 9x^8 - 12x^6 + 3x^4 - 6x^2 + 21$ | $x^{12} - 38x^6 - 15x^4 + 18x^2 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} - 14x^{10} - 3x^8 + 20x^6 - 5x^4 - 6x^2 - 1$ | $x^{12} + 2x^{10} - 13x^8 - 10x^6 + 52x^4 - 24x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} + 26x^{10} - 9x^8 - 28x^6 + 19x^4 - 22x^2 + 21$ | $x^{12} - 24x^8 + 126x^6 - 207x^4 + 90x^2 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 2x^{10} - 3x^8 - 12x^6 + 11x^4 + 10x^2 - 1$ | $x^{12} - 30x^8 + 90x^6 - 69x^4 - 18x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 10x^{10} - 13x^8 + 28x^6 + 19x^4 - 26x^2 - 7$ | $x^{12} - 18x^{10} - 45x^8 + 36x^6 + 99x^4 + 54x^2 + 9$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,202 | $\frac{103}{32}$ |
| $x^{12} + 6x^{10} - 5x^8 - 12x^6 + 19x^4 - 2x^2 - 15$ | $x^{12} + 4x^{10} - 6x^8 - 18x^6 - 17x^4 - 6x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 32,34 | $\frac{51}{16}$ |
| $x^{12} - 6x^{10} - x^8 - 12x^6 - 13x^4 - 6x^2 - 3$ | $x^{12} - 12x^{10} - 24x^8 + 1170x^6 - 11205x^4 + 60750x^2 - 136107$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 2x^{10} - 15x^8 + 4x^6 - 13x^4 + 14x^2 - 13$ | $x^{12} + 30x^{10} + 189x^8 + 222x^6 - 1530x^4 - 2700x^2 - 1125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-------------|------------------|
| $x^{12} + 2x^{10} - x^8 - 12x^6 - 13x^4 - 14x^2 + 13$ | $x^{12} + 10x^{10} - 47x^8 - 190x^6 - 108x^4 - 828x^2 - 27$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 2x^{10} - 3x^8 + 4x^6 - 5x^4 - 6x^2 - 1$ | $x^{12} - 2x^{10} - 13x^8 + 10x^6 + 52x^4 + 24x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} + 202x^{10} + 249x^8 - 188x^6 + 23x^4 - 214x^2 - 145$ | $x^{12} - 10x^{10} + 31x^8 - 50x^6 + 42x^4 - 28x^2 + 7$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 10x^{10} + 7x^8 - 4x^6 - 5x^4 + 2x^2 - 3$ | $x^{12} - 12x^{10} + 48x^8 - 74x^6 + 57x^4 - 54x^2 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 14x^{10} - 9x^8 - 4x^6 + 11x^4 - 6x^2 + 13$ | $x^{12} + 2x^{10} - 17x^8 - 62x^6 - 96x^4 - 108x^2 - 27$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} - 14x^{10} + 77x^8 + 68x^6 + 79x^4 + 66x^2 + 115$ | $x^{12} - 6x^{10} - 9x^8 + 22x^6 + 6x^4 + 36x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 30x^{10} + 29x^8 - 28x^6 - 5x^4 - 18x^2 - 17$ | $x^{12} + 4x^{10} - 2x^8 - 22x^6 - 141x^4 + 30x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-------------|------------------|
| $x^{12} + 6x^{10} + 19x^8 + 20x^6 - 29x^4 + 14x^2 - 7$ | $x^{12} + 26x^{10} + 131x^8 - 1050x^6 - 8922x^4 - 16136x^2 + 169$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 3 \\ 3 \\ 3 \end{array} \begin{array}{c} \frac{7}{2} \\ \frac{7}{2} \\ \frac{7}{2} \end{array} \right]_1^6$ | I: 32,27 | $\frac{51}{16}$ |
| $x^{12} - 14x^{10} - 3x^8 - 28x^6 - 29x^4 + 26x^2 + 7$ | $x^{12} - 14x^{10} + 99x^8 - 438x^6 + 864x^4 + 556x^2 - 2809$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 2 \\ 3 \\ 3 \end{array} \begin{array}{c} \frac{7}{2} \\ \frac{7}{2} \\ \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1599 | $\frac{215}{64}$ |
| $x^{12} + 10x^{10} - 7x^8 - 4x^6 + 3x^4 - 6x^2 + 11$ | $x^{12} - 24x^{10} + 84x^8 + 306x^6 - 1737x^4 + 1890x^2 + 27$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 2 \\ 3 \\ 3 \end{array} \begin{array}{c} \frac{7}{2} \\ \frac{7}{2} \\ \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} + 14x^{10} - 29x^8 - 12x^6 - 29x^4 - 10x^2 - 23$ | $x^{12} + 18x^{10} + 121x^8 + 330x^6 + 228x^4 - 236x^2 + 1$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 3 \\ 3 \\ 3 \end{array} \begin{array}{c} \frac{7}{2} \\ \frac{7}{2} \\ \frac{7}{2} \end{array} \right]_1^3$ | I: 32,34 | $\frac{51}{16}$ |
| $x^{12} - 14x^{10} + 7x^8 - 4x^6 - 5x^4 - 6x^2 + 13$ | $x^{12} - 30x^{10} + 95x^8 + 538x^6 + 576x^4 + 108x^2 - 27$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 3 \\ 3 \\ 3 \end{array} \begin{array}{c} \frac{7}{2} \\ \frac{7}{2} \\ \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 10x^{10} + 15x^8 - 12x^6 + 3x^4 + 10x^2 + 13$ | $x^{12} + 6x^{10} - 13x^8 - 50x^6 + 162x^4 - 36x^2 - 27$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 3 \\ 3 \\ 3 \end{array} \begin{array}{c} \frac{7}{2} \\ \frac{7}{2} \\ \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 6x^{10} - 13x^8 - 28x^6 - 29x^4 - 18x^2 + 9$ | $x^{12} - 4x^{10} - 6x^8 + 18x^6 - 17x^4 + 6x^2 + 1$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 2 \\ 2 \\ 3 \end{array} \begin{array}{c} 3 \\ \frac{7}{2} \\ \frac{7}{2} \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} - 2x^{10} + 3x^8 - 28x^6 + 3x^4 - 10x^2 + 9$ | $x^{12} + 6x^{10} - 101x^8 + 508x^6 - 2141x^4 - 2650x^2 + 5041$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 64,211 | $\frac{103}{32}$ |
| $x^{12} + 82x^{10} + 89x^8 + 84x^6 - 73x^4 - 78x^2 + 111$ | $x^{12} - 4x^{11} - 38x^{10} + 228x^9 - 233x^8 - 928x^7 + 2676x^6 + 1664x^5 - 5957x^4 - 652x^3 - 2230x^2 - 19508x - 13763$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} - 22x^{10} + 15x^8 - 12x^6 + 3x^4 + 10x^2 + 13$ | $x^{12} - 18x^{10} + 75x^8 - 126x^6 + 108x^4 - 36x^2 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 10x^{10} - 9x^8 + 4x^6 + 3x^4 - 6x^2 - 11$ | $x^{12} + 6x^{10} + 15x^8 + 20x^6 + 3x^4 - 18x^2 - 3$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 1858x^{10} + 1509x^8 - 1436x^6 + 2047x^4 + 786x^2 + 203$ | $x^{12} + 18x^{10} + 87x^8 + 162x^6 + 126x^4 + 36x^2 + 3$ | $\left[\begin{array}{ccc} 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} \end{array} \right]_1^3$ | I: 8,3 | $\frac{11}{4}$ |
| $x^{12} + 98x^{10} - 75x^8 - 92x^6 - 65x^4 + 114x^2 - 5$ | $x^{12} + 12x^{10} + 42x^8 + 78x^6 + 81x^4 + 54x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-------------|------------------|
| $x^{12} + 2x^{10} + 15x^8 + 12x^6 + 11x^4 - 6x^2 - 11$ | $x^{12} + 6x^{10} - 33x^8 - 60x^6 - 45x^4 - 18x^2 - 3$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 3 & \frac{7}{2} \\ & & 2 \end{array} \right]_1^6$ | I: 64,77 | $\frac{105}{32}$ |
| $x^{12} + 18x^{10} + 17x^8 - 28x^6 - 57x^4 + 34x^2 + 39$ | $x^{12} - 18x^{10} - 73x^8 + 214x^6 + 526x^4 + 232x^2 - 25$ | $\left[\begin{array}{ccc} & & 3 \\ 2 & 3 & \frac{7}{2} \\ & & 1 \end{array} \right]_1^3$ | I: 8,3 | $\frac{11}{4}$ |
| $x^{12} + 14x^{10} + 5x^8 - 12x^6 + 11x^4 + 14x^2 - 9$ | $x^{12} + 2x^{10} - 35x^8 - 44x^6 - 21x^4 - 6x^2 - 1$ | $\left[\begin{array}{ccc} & & 3 \\ 2 & 2 & 3 \\ & \frac{7}{2} & \frac{7}{2} \\ & & 1 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{215}{64}$ |
| $x^{12} - 30x^{10} + 25x^8 + 28x^6 + 19x^4 - 30x^2 - 5$ | $x^{12} + 18x^{10} + 57x^8 - 396x^6 - 2061x^4 - 1350x^2 + 27$ | $\left[\begin{array}{ccc} & & 3 \\ 2 & 2 & 3 \\ & \frac{7}{2} & \frac{7}{2} \\ & & 1 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} - 6x^{10} - 7x^8 + 4x^6 - 5x^4 + 2x^2 + 3$ | $x^{12} + 12x^{10} + 42x^8 + 42x^6 - 9x^4 - 18x^2 + 3$ | $\left[\begin{array}{ccc} & & 3 \\ 2 & 2 & 3 \\ & \frac{7}{2} & \frac{7}{2} \\ & & 1 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{215}{64}$ |
| $x^{12} - 70x^{10} + 17x^8 + 100x^6 - 89x^4 + 26x^2 - 25$ | $x^{12} - 6x^{10} - 351x^8 + 324x^6 + 3159x^4 - 486x^2 - 729$ | $\left[\begin{array}{ccc} & & 3 \\ 2 & 2 & 3 \\ & 3 & 3 \\ & & 1 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{203}{64}$ |
| $x^{12} + 10x^{10} + 217x^8 - 92x^6 - 169x^4 - 118x^2 - 369$ | $x^{12} - 8x^{10} + 2x^8 + 38x^6 + 33x^4 + 6x^2 - 1$ | $\left[\begin{array}{ccc} & & 3 \\ 2 & 2 & 3 \\ & 3 & \frac{7}{2} \\ & & 1 \end{array} \right]_1^3$ | I: 32,46 | $\frac{47}{16}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|--------------|------------------|
| $x^{12} - 94x^{10} + 229x^8 - 188x^6 + 127x^4 - 46x^2 + 139$ | $x^{12} + 6x^{10} + 15x^8 + 30x^6 + 90x^4 + 144x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128, 1578 | $\frac{203}{64}$ |
| $x^{12} + 10x^{10} - 15x^8 + 4x^6 - 5x^4 + 2x^2 + 11$ | $x^{12} + 6x^{10} - 3x^8 - 14x^6 - 12x^4 + 3$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128, 1599 | $\frac{215}{64}$ |
| $x^{12} - 6x^{10} - 11x^8 - 12x^6 - 5x^4 - 14x^2 - 9$ | $x^{12} - 30x^8 - 90x^6 - 69x^4 + 18x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128, 1407 | $\frac{215}{64}$ |
| $x^{12} + 10x^{10} - 151x^8 + 4x^6 + 55x^4 + 170x^2 + 159$ | $x^{12} + 14x^8 - 182x^6 + 413x^4 - 210x^2 + 7$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128, 1578 | $\frac{203}{64}$ |
| $x^{12} - 26x^{10} + 9x^8 + 4x^6 + 27x^4 + 22x^2 - 13$ | $x^{12} - 24x^{10} + 6x^8 + 774x^6 + 1539x^4 + 486x^2 + 27$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128, 1578 | $\frac{215}{64}$ |
| $x^{12} - 38x^{10} - 87x^8 + 20x^6 - 41x^4 + 74x^2 + 95$ | $x^{12} - 14x^{10} - 57x^8 + 498x^6 + 6x^4 - 1784x^2 - 625$ | $\left[\begin{array}{ccc} 2 & 3 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right]_1^3$ | I: 8, 3 | $\frac{11}{4}$ |
| $x^{12} - 4x^4 - 8$ | $x^{12} + 2x^8 - 8x^4 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 3 \end{array} \right]_1^3$ | I: 128, 1599 | $\frac{219}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-------------|------------------|
| $x^{12} + 64x^{10} - 56x^8 + 56x^6 + 4x^4 - 40$ | $x^{12} - 728x^8 - 12168x^6 - 75036x^4 - 161824x^2 - 104$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} - 40x^{10} + 56x^8 - 24x^6 + 52x^4 - 56$ | $x^{12} - 54x^8 + 504x^6 + 4320x^4 - 27000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^6$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} + 12x^{10} + 4x^8 + 24x^6 + 20x^4 + 16x^2 - 8$ | $x^{12} - 4x^{11} - 18x^{10} + 40x^9 + 181x^8 - 84x^7 - 902x^6 - 588x^5 + 1816x^4 + 3092x^3 + 880x^2 - 1336x - 881$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} + 28x^{10} + 32x^8 + 32x^6 - 12x^4 - 16x^2 - 24$ | $x^{12} - 234x^8 + 2080x^6 - 6656x^4 + 7280x^2 + 104$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 8x^{10} + 8x^8 - 12x^4 - 16x^2 + 8$ | $x^{12} - 1218x^8 + 10192x^6 + 562716x^4 - 4576992x^2 - 72905336$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} - 20x^{10} + 4x^8 + 16x^6 - 4x^4 - 16x^2 + 56$ | $x^{12} + 12x^{10} - 16x^6 + 84x^4 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |

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| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} - 4x^{10} + 4x^8 - 12x^4 + 8$ | $x^{12} + 12x^{10} + 68x^8 + 224x^6 + 388x^4 + 272x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 36x^{10} + 36x^8 - 40x^6 + 20x^4 - 48x^2 - 40$ | $x^{12} - 108x^8 - 576x^6 - 540x^4 + 1296x^2 + 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} + 8x^{10} + 22x^8 + 8x^6 - 16x^4 - 48x^2 + 56$ | $x^{12} + 12x^{10} - 78x^8 + 120x^6 - 112x^2 + 56$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} + 12x^{10} + 2x^8 + 16x^6 - 8x^4 - 8$ | $x^{12} + 8x^{10} + 2x^8 - 80x^6 - 100x^4 + 64x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} - 16x^{10} - 20x^8 - 16x^6 + 4x^4 + 24$ | $x^{12} + 12x^8 + 36x^4 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 4 \end{array} \right]_1^3$ | I: 32,46 | $\frac{51}{16}$ |
| $x^{12} - 12x^{10} + 4x^8 + 4x^4 - 32x^2 - 8$ | $x^{12} - 24x^{10} + 294x^8 - 3072x^6 + 14040x^4 - 82800x^2 + 3000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^6$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 12x^{10} + 12x^8 - 24x^6 + 44x^4 + 32x^2 - 40$ | $x^{12} - 168x^{10} + 2394x^8 + 13720x^6 + 325752x^4 + 543312x^2 - 8232$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} - 16x^{10} - 8x^8 - 16x^6 + 20x^4 + 16x^2 - 24$ | $x^{12} + 12x^{10} + 24x^8 - 184x^6 - 804x^4 - 864x^2 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & 2 & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} + 32x^{10} - 56x^8 + 56x^6 + 36x^4 + 32x^2 - 40$ | $x^{12} - 182x^8 - 1456x^6 - 4472x^4 - 6032x^2 - 2600$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & 2 & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} - 4x^{10} - 12x^8 - 48x^6 + 36x^4 - 64x^2 - 40$ | $x^{12} - 18x^8 - 128x^6 + 264x^4 - 144x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & 2 & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^6$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 12x^{10} - 4x^8 - 8x^6 + 12x^4 + 8$ | $x^{12} - 96x^{10} - 4x^9 + 2700x^8 - 5676x^7 - 32050x^6 + 215100x^5 + 95847x^4 - 2410640x^3 + 2068470x^2 + 8299548x - 11487041$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & 2 & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} + 44x^{10} + 52x^8 + 56x^6 + 36x^4 - 48x^2 - 56$ | $x^{12} + 12x^{10} + 58x^8 + 144x^6 + 184x^4 + 96x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & 2 & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} - 4x^{10} + 12x^8 + 8x^6 + 12x^4 + 8$ | $x^{12} + 84x^{10} + 2142x^8 + 10192x^6 - 326928x^4 - 4544064x^2 - 13832504$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & 2 & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-------------|------------------|
| $x^{12} - 44x^{10} + 10x^8 - 8x^6 + 40x^4 - 64x^2 - 56$ | $x^{12} - 12x^{10} + 18x^8 + 120x^6 - 216x^4 + 72$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 4 \\ & & & 1 \end{array} \right]^3$ | I: 16,10 | $\frac{25}{8}$ |
| $x^{12} + 20x^{10} - 8x^8 - 24x^6 + 28x^4 + 16x^2 + 24$ | $x^{12} - 156x^8 - 208x^6 + 5772x^4 + 5200x^2 - 65000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} & 4 \\ & & & & 1 \end{array} \right]^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} - 12x^{10} + 4x^8 + 16x^6 + 4x^4 + 24$ | $x^{12} - 12x^{10} + 60x^8 - 160x^6 + 228x^4 - 144x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} & 4 \\ & & & & 1 \end{array} \right]^6$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 64x^{10} + 8x^8 + 40x^6 - 4x^4 - 48x^2 + 40$ | $x^{12} - 4x^{10} - 250x^8 + 1680x^6 - 1348x^4 - 400x^2 + 40$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 & 4 \\ & & & & 1 \end{array} \right]^3$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} - 16x^{10} + 24x^8 - 16x^6 - 28x^4 + 16x^2 - 8$ | $x^{12} + 12x^{10} + 12x^8 - 40x^6 + 12x^4 + 48x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} & 4 \\ & & & & 1 \end{array} \right]^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} + 8x^{10} - 16x^8 - 16x^6 - 4x^4 - 8$ | $x^{12} + 18x^8 + 72x^4 - 72$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 & 4 \\ & & & & 1 \end{array} \right]^3$ | I: 128,1599 | $\frac{219}{64}$ |
| $x^{12} + 28x^{10} - 28x^8 - 8x^6 - 12x^4 - 16x^2 - 40$ | $x^{12} - 24x^{10} + 156x^8 - 336x^6 + 324x^4 - 144x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} & 4 \\ & & & & 1 \end{array} \right]^3$ | I: 128,1578 | $\frac{231}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} + 20x^{10} - 12x^8 - 16x^6 - 4x^4 - 16x^2 + 8$ | $x^{12} - 72x^{10} - 124x^9 + 1164x^8 + 2028x^7 - 9570x^6 - 16980x^5 + 45939x^4 + 82688x^3 - 112326x^2 - 287484x + 359533$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^6$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} - 8x^{10} - 4x^8 + 24x^6 - 20x^4 + 32x^2 + 24$ | $x^{12} - 222x^8 + 864x^6 + 1296x^4 - 8784x^2 + 8664$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^6$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} + 4x^8 + 4x^4 + 8$ | $x^{12} + 10x^8 + 24x^4 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & 3 & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 32,46 | $\frac{51}{16}$ |
| $x^{12} + 24x^8 - 8x^6 + 28x^4 - 16x^2 - 8$ | $x^{12} - 12x^{10} + 6x^8 - 8x^6 - 96x^4 - 96x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & 3 & 4 \\ & & & 4 \end{array} \right]_1^6$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} + 36x^{10} + 36x^8 - 64x^6 - 60x^4 + 32x^2 - 40$ | $x^{12} + 12x^{10} + 60x^8 + 160x^6 + 228x^4 + 144x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^6$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 12x^{10} - 30x^8 - 56x^6 - 64x^4 - 48x^2 + 56$ | $x^{12} - 4x^{10} - 46x^8 + 344x^6 - 784x^4 + 560x^2 + 56$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-------------|------------------|
| $x^{12} - 8x^{10} - 28x^8 + 40x^6 - 44x^4 + 48x^2 + 40$ | $x^{12} - 4x^{11} - 62x^{10} + 224x^9 + 1439x^8 - 4452x^7 - 15958x^6 + 38484x^5 + 88410x^4 - 140364x^3 - 227080x^2 + 165912x + 187921$ | $\begin{bmatrix} 3 & 4 \\ 3 & 4 \end{bmatrix}_1^3$ | I: 4,1 | $\frac{11}{4}$ |
| $x^{12} - 2x^8 + 8x^6 - 8x^4 + 8$ | $x^{12} - 4x^{10} - 22x^8 + 112x^6 - 64x^4 - 144x^2 + 8$ | $\begin{bmatrix} 2 & 2 & 3 & \frac{7}{2} & 4 \\ 2 & 2 & 3 & \frac{7}{2} & 4 \end{bmatrix}_1^3$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} + 8x^{10} - 16x^8 - 16x^6 - 4x^4 + 8$ | $x^{12} - 18x^8 + 72x^4 + 72$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & 3 & 4 \\ 2 & 2 & 2 & 3 & 3 & 4 \end{bmatrix}_1^3$ | I: 128,1599 | $\frac{219}{64}$ |
| $x^{12} + 48x^{10} - 24x^8 + 40x^6 - 44x^4 + 40$ | $x^{12} - 4x^{10} - 68x^8 - 176x^6 - 1620x^4 - 6624x^2 - 216$ | $\begin{bmatrix} 2 & 2 & 3 & \frac{7}{2} & 4 \\ 2 & 2 & 3 & \frac{7}{2} & 4 \end{bmatrix}_1^6$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} - 16x^{10} + 20x^8 + 8x^6 - 12x^4 - 16x^2 - 24$ | $x^{12} - 52x^{10} + 26x^8 + 10504x^6 - 5304x^4 + 104$ | $\begin{bmatrix} 2 & 2 & 3 & 4 \\ 2 & 2 & 3 & 4 \end{bmatrix}_1^3$ | I: 16,10 | $\frac{25}{8}$ |
| $x^{12} + 44x^{10} + 44x^8 - 8x^6 + 12x^4 + 40$ | $x^{12} - 12x^{10} - 12x^8 + 40x^6 + 60x^4 - 24$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & \frac{7}{2} & 4 \\ 2 & 2 & 2 & 3 & \frac{7}{2} & 4 \end{bmatrix}_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-------------|------------------|
| $x^{12} + 12x^{10} + 4x^8 - 4x^4 + 16x^2 - 8$ | $x^{12} - 12x^{10} + 16x^6 + 84x^4 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} + 4x^{10} + 6x^8 + 8x^6 + 8x^4 - 8$ | $x^{12} - 60x^8 - 88x^6 + 36x^4 + 48x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 4 \\ & & & 4 \\ & & & 4 \end{array} \right]_1^6$ | I: 16,10 | $\frac{25}{8}$ |
| $x^{12} + 4x^{10} - 4x^8 - 8x^6 - 4x^4 - 8$ | $x^{12} + 12x^{10} - 90x^8 + 184x^6 - 192x^4 + 144x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} + 8x^{10} + 24x^8 - 8x^6 + 4x^4 - 32x^2 + 24$ | $x^{12} + 52x^{10} + 338x^8 + 624x^6 - 832x^4 - 3536x^2 - 2600$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} + 20x^{10} + 2x^8 - 40x^6 - 32x^4 - 16x^2 + 56$ | $x^{12} + 16x^{10} + 6x^8 - 456x^6 + 672x^4 - 336x^2 + 56$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} - 36x^{10} - 14x^8 + 40x^6 - 48x^2 + 56$ | $x^{12} - 12x^{10} + 34x^8 + 48x^6 - 280x^4 + 224x^2 + 56$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} - 52x^{10} - 60x^8 - 48x^6 - 36x^4 + 16x^2 + 56$ | $x^{12} - 12x^{10} + 52x^8 - 96x^6 + 60x^4 + 16x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} - 8x^{10} + 24x^8 - 8x^6 - 12x^4 - 24$ | $x^{12} + 12x^{10} - 10x^8 - 736x^6 - 3792x^4 - 6192x^2 - 216$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 2 & 3 \\ & & 2 \end{array} \right]_1^6$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} + 24x^{10} - 4x^8 - 28x^4 + 32x^2 + 24$ | $x^{12} + 30x^8 + 72x^4 + 24$ | $\left[\begin{array}{ccc} 2 & 3 & 4 \\ & 2 & 3 \\ & & 2 \end{array} \right]_1^3$ | I: 8,3 | 3 |
| $x^{12} + 64x^{10} - 40x^8 + 64x^6 - 28x^4 + 48x^2 - 40$ | $x^{12} - 84x^{10} + 1386x^8 + 33096x^6 - 866376x^4 + 6383664x^2 - 15423912$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 3 \\ & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} - 16x^{10} + 8x^8 + 8x^6 + 4x^4 - 32x^2 - 8$ | $x^{12} - 4x^{10} - 14x^8 + 16x^6 + 112x^4 - 144x^2 - 8$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 2 & 3 \\ & & 2 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} + 8x^{10} - 8x^8 + 8x^6 - 12x^4 + 8$ | $x^{12} - 234x^8 - 2736x^6 - 14040x^4 - 32400x^2 - 27000$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 2 & 3 \\ & & 2 \end{array} \right]_1^6$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} - 32x^{10} + 28x^4 - 32x^2 - 8$ | $x^{12} + 18x^8 - 36x^4 - 72$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 3 \\ & & 2 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{219}{64}$ |
| $x^{12} - 4x^{10} + 20x^8 + 16x^6 - 60x^4 - 32x^2 - 40$ | $x^{12} - 12x^{10} + 12x^8 + 16x^6 - 60x^4 + 24$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 2 & 3 \\ & & 2 \end{array} \right]_1^6$ | I: 64,60 | $\frac{115}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-------------|------------------|
| $x^{12} - 8x^{10} - 48x^8 + 32x^6 - 4x^4 - 32x^2 + 56$ | $x^{12} - 6x^8 - 16x^4 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{219}{64}$ |
| $x^{12} + 8x^{10} + 4x^8 - 48x^6 - 36x^4 + 16x^2 - 40$ | $x^{12} - 234x^8 - 1768x^6 - 4992x^4 - 6032x^2 - 2600$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} - 16x^{10} + 32x^8 - 16x^6 - 4x^4 - 24$ | $x^{12} - 12x^8 - 36x^4 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{219}{64}$ |
| $x^{12} - 28x^{10} + 42x^8 + 32x^6 + 48x^4 - 16x^2 - 56$ | $x^{12} - 12x^{10} + 18x^8 + 192x^6 - 432x^4 - 432x^2 + 72$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & 2 & \frac{7}{2} & 4 \end{array} \right]_1^3$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 4x^{10} - 4x^8 + 8x^6 - 20x^4 + 24$ | $x^{12} - 1974x^8 + 74872x^6 - 878472x^4 + 4000752x^2 - 6001128$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} - 12x^{10} + 6x^8 + 16x^2 - 8$ | $x^{12} + 12x^{10} + 24x^8 - 64x^6 - 132x^4 + 96x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & 2 & \frac{7}{2} & 4 \end{array} \right]_1^6$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 28x^{10} - 12x^8 + 16x^6 + 28x^4 + 16x^2 + 24$ | $x^{12} - 182x^8 + 1560x^6 - 4368x^4 + 2912x^2 - 104$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & 2 & \frac{7}{2} & 4 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} - 16x^{10} + 32x^8 + 16x^6 - 4x^4 + 24$ | $x^{12} - 18x^8 + 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 3 & 3 & 3 \\ & & 4 & 4 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{219}{64}$ |
| $x^{12} - 40x^{10} + 24x^8 - 56x^6 + 36x^4 + 32x^2 - 40$ | $x^{12} - 52x^{10} + 858x^8 - 4992x^6 + 2080x^4 + 44304x^2 - 104$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 7 \\ & 2 & 3 & 2 \\ & & 7 & 4 \\ & & & 2 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} + 20x^{10} - 44x^8 + 16x^6 - 44x^4 + 40$ | $x^{12} - 52x^{10} + 1092x^8 - 12480x^6 + 95940x^4 - 610896x^2 + 2498600$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 7 \\ & 2 & 3 & 2 \\ & & 7 & 4 \\ & & & 2 \end{array} \right]_1^3$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} + 16x^{10} - 26x^8 - 24x^4 - 32x^2 + 56$ | $x^{12} - 4x^{11} - 10x^{10} + 88x^9 - 305x^8 + 412x^7 + 1730x^6 - 7700x^5 + 11966x^4 - 9548x^3 + 4224x^2 - 992x + 97$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 4 & 4 \end{array} \right]_1^3$ | I: 32,46 | $\frac{51}{16}$ |
| $x^{12} + 4x^{10} + 28x^8 + 24x^6 - 52x^4 - 64x^2 + 40$ | $x^{12} - 42x^8 - 32x^6 + 60x^4 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 7 \\ & & 2 & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} + 40x^{10} - 24x^8 + 48x^6 - 28x^4 - 16x^2 + 56$ | $x^{12} - 12x^{10} - 6x^8 + 40x^6 - 24x^4 - 48x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 7 \\ & & 2 & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-------------|------------------|
| $x^{12} + 32x^{10} - 20x^8 + 8x^6 - 20x^4 + 32x^2 + 24$ | $x^{12} + 36x^{10} + 408x^8 + 1296x^6 - 3204x^4 - 12672x^2 + 8664$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & & 4 \end{array} \right]_1^6$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 24x^{10} + 8x^8 - 8x^6 - 4x^4 + 16x^2 + 24$ | $x^{12} + 24x^{10} + 24x^8 - 232x^6 + 300x^4 - 144x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & & 3 \\ & & & & 4 \end{array} \right]_1^6$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} + 16x^{10} + 32x^8 + 48x^6 - 36x^4 + 40$ | $x^{12} + 18x^8 - 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & & 3 \\ & & & & & 4 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{219}{64}$ |
| $x^{12} + 16x^{10} + 8x^8 - 8x^6 - 12x^4 + 8$ | $x^{12} - 144x^8 + 504x^6 + 1620x^4 - 27000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & & 4 \end{array} \right]_1^6$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} - 60x^{10} - 12x^8 - 32x^6 + 28x^4 - 16x^2 - 40$ | $x^{12} - 182x^8 - 1560x^6 - 4368x^4 - 2912x^2 - 104$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & & 4 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} - 56x^{10} - 16x^8 + 48x^6 - 36x^4 - 64x^2 - 40$ | $x^{12} - 6x^8 - 36x^4 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & & 3 \\ & & & & & 4 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{219}{64}$ |
| $x^{12} - 36x^4 - 40$ | $x^{12} - 36x^8 + 108x^4 + 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & & 3 \\ & & & & & 4 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{219}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-------------|------------------|
| $x^{12} + 8x^{10} - 24x^8 - 8x^6 + 28x^4 + 16x^2 - 8$ | $x^{12} - 12x^{10} + 66x^8 - 208x^6 + 348x^4 - 240x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & 4 & 4 \end{array} \right]_1^6$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} - 4x^{10} + 4x^8 + 16x^6 - 12x^4 + 8$ | $x^{12} - 24x^{10} - 126x^8 - 264x^6 - 216x^4 + 72$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & 7 & 7 \\ & & 2 & 2 \\ & & 4 & 4 \end{array} \right]_1^3$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} + 12x^{10} + 28x^8 + 8x^6 + 12x^4 + 32x^2 + 24$ | $x^{12} - 12x^{10} - 340x^9 - 2172x^8 + 3396x^7 + 47246x^6 + 181500x^5 + 549153x^4 + 1012192x^3 + 1708530x^2 + 966348x - 2601717$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & 3 & 7 \\ & & 2 & 2 \\ & & 4 & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} - 8x^8 - 32x^6 - 60x^4 + 16x^2 - 40$ | $x^{12} + 84x^{10} + 1386x^8 - 33096x^6 - 866376x^4 - 6383664x^2 - 15423912$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & 3 & 7 \\ & & 2 & 2 \\ & & 4 & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} - 24x^{10} + 40x^8 + 48x^6 + 36x^4 + 48x^2 - 40$ | $x^{12} + 84x^{10} + 1596x^8 - 24920x^6 - 224532x^4 - 390096x^2 - 13608$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & 3 & 7 \\ & & 2 & 2 \\ & & 4 & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} + 4x^{10} + 20x^8 - 16x^6 - 12x^4 - 24$ | $x^{12} - 52x^{10} + 494x^8 - 2288x^6 + 5356x^4 - 6032x^2 + 2600$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & 7 & 7 \\ & & 2 & 2 \\ & & 4 & 4 \end{array} \right]_1^3$ | I: 64,60 | $\frac{115}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} - 16x^{10} + 8x^8 + 8x^6 - 12x^4 + 8$ | $x^{12} - 144x^8 - 504x^6 + 1620x^4 - 27000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^6$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} + 32x^{10} + 10x^8 - 16x^6 + 16x^4 - 16x^2 - 8$ | $x^{12} - 12x^{10} + 24x^8 + 64x^6 - 132x^4 - 96x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^6$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 12x^{10} + 20x^8 + 24x^6 - 12x^4 + 16x^2 + 24$ | $x^{12} + 12x^{10} + 30x^8 - 120x^6 - 504x^4 - 144x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} - 8x^{10} + 8x^8 + 8x^6 - 4x^4 + 16x^2 - 8$ | $x^{12} - 24x^{10} + 48x^8 - 8x^6 - 12x^4 - 48x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & & 3 \\ & & & 4 \end{array} \right]_1^6$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} + 48x^{10} - 40x^8 + 16x^6 - 12x^4 - 48x^2 + 40$ | $x^{12} - 48x^8 + 208x^6 - 396x^4 + 432x^2 - 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} - 32x^{10} - 24x^8 + 8x^6 - 4x^4 - 16x^2 - 24$ | $x^{12} - 32x^{10} - 392x^8 + 8680x^6 - 44260x^4 + 70000x^2 + 1000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & & 3 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} - 20x^{10} - 28x^8 - 32x^6 - 12x^4 - 24$ | $x^{12} + 52x^{10} + 1066x^8 + 11440x^6 + 68536x^4 + 218608x^2 + 292136$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 64,60 | $\frac{115}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-------------|------------------|
| $x^{12} - 20x^{10} + 20x^8 - 28x^4 + 32x^2 + 24$ | $x^{12} - 18x^8 + 128x^6 + 264x^4 + 144x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \\ & & & \end{array} \right]_1^6$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 44x^{10} - 12x^8 - 64x^6 + 28x^4 - 16x^2 - 56$ | $x^{12} - 60x^{10} + 1308x^8 - 11568x^6 + 17820x^4 + 255600x^2 - 867000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \\ & & & \end{array} \right]_1^6$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} - 52x^{10} + 52x^8 - 24x^6 - 28x^4 + 48x^2 + 40$ | $x^{12} - 52x^{10} + 546x^8 - 2392x^6 + 5304x^4 - 6032x^2 + 2600$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \\ & & & \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} + 4x^{10} + 20x^8 - 16x^6 - 36x^4 + 48x^2 - 56$ | $x^{12} - 36x^{10} - 432x^6 + 10260x^4 - 27000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \\ & & & \end{array} \right]_1^6$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} + 20x^{10} - 28x^8 + 16x^6 - 28x^4 + 32x^2 + 24$ | $x^{12} - 36x^8 - 88x^6 - 60x^4 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \\ & & & \end{array} \right]_1^6$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 20x^{10} - 4x^8 + 24x^6 + 44x^4 + 32x^2 - 40$ | $x^{12} + 168x^{10} + 2394x^8 - 13720x^6 + 325752x^4 - 543312x^2 - 8232$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \\ & & & \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} + 56x^{10} + 16x^8 + 32x^6 + 28x^4 + 64x^2 + 40$ | $x^{12} + 6x^8 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 3 \\ & & & 3 \\ & & & 4 \\ & & & \end{array} \right]_1^3$ | I: 128,1599 | $\frac{219}{64}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} - 28x^{10} + 20x^8 - 32x^6 + 28x^4 + 16x^2 + 8$ | $x^{12} - 72x^8 - 9288x^6 - 46980x^4 - 64800x^2 - 27000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & & 4 \end{array} \right]_1^6$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} - 20x^{10} - 12x^8 + 8x^6 - 28x^4 + 16x^2 - 24$ | $x^{12} - 156x^8 + 416x^6 + 260x^4 - 3536x^2 + 2600$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & & \frac{7}{2} \\ & & & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} - 32x^{10} + 24x^8 + 8x^6 - 4x^4 + 16x^2 + 24$ | $x^{12} + 12x^{10} - 6x^8 - 88x^6 - 96x^4 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & & 3 \\ & & & & 4 \end{array} \right]_1^6$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} + 48x^{10} + 8x^8 + 8x^6 - 4x^4 + 48x^2 - 56$ | $x^{12} + 108x^{10} - 2610x^8 - 28080x^6 + 121500x^4 + 1652400x^2 + 3645000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & & 3 \\ & & & & 4 \end{array} \right]_1^3$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} - 4x^{10} - 28x^8 + 20x^4 - 64x^2 + 40$ | $x^{12} - 78x^8 + 1040x^6 + 6136x^4 + 8944x^2 + 2600$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & & 4 \end{array} \right]_1^3$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} + 32x^{10} + 8x^8 - 40x^6 - 4x^4 - 48x^2 + 40$ | $x^{12} + 104x^{10} - 7228x^8 - 98280x^6 - 165620x^4 + 78000x^2 + 2600$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & & 3 \\ & & & & 4 \end{array} \right]_1^3$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} + 28x^{10} - 52x^8 - 24x^6 - 20x^4 - 64x^2 - 56$ | $x^{12} - 168x^{10} + 9198x^8 - 221088x^6 + 2044476x^4 + 3852576x^2 - 124492536$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & & \frac{7}{2} \\ & & & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-------------|------------------|
| $x^{12} + 52x^{10} + 20x^8 - 32x^6 + 20x^4 + 40$ | $x^{12} - 78x^8 - 1040x^6 + 6136x^4 - 8944x^2 + 2600$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 7 \\ & & 2 & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 16x^{10} - 8x^8 + 8x^6 - 4x^4 - 16x^2 - 8$ | $x^{12} - 36x^8 - 136x^6 - 180x^4 - 144x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 4 \end{array} \right]_1^6$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} - 16x^{10} + 32x^8 - 16x^6 + 28x^4 + 32x^2 + 24$ | $x^{12} - 24x^8 + 36x^4 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & 3 & 3 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{219}{64}$ |
| $x^{12} - 16x^{10} + 8x^8 + 56x^6 - 44x^4 + 40$ | $x^{12} + 32x^{10} + 394x^8 + 2248x^6 + 5520x^4 + 4608x^2 - 216$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 7 \\ & & 2 & 2 \\ & & & 4 \end{array} \right]_1^6$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} + 32x^{10} - 8x^8 - 8x^6 - 4x^4 - 16x^2 + 24$ | $x^{12} - 12x^{10} - 6x^8 + 88x^6 - 96x^4 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 4 \end{array} \right]_1^6$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} - 12x^{10} - 12x^8 - 12x^4 + 8$ | $x^{12} - 12x^{10} + 68x^8 - 224x^6 + 388x^4 - 272x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 7 \\ & & 2 & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} + 60x^{10} - 32x^8 - 48x^6 + 20x^4 - 16x^2 + 40$ | $x^{12} - 676x^8 + 4264x^6 + 988x^4 - 6656x^2 + 2600$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 7 \\ & & 2 & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,60 | $\frac{115}{32}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} - 8x^{10} + 16x^8 + 32x^6 + 28x^4 + 32x^2 + 24$ | $x^{12} - 108x^4 + 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{219}{64}$ |
| $x^{12} - 8x^{10} - 4x^4 - 8$ | $x^{12} + 4x^8 - 4x^4 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{219}{64}$ |
| $x^{12} + 24x^{10} - 14x^8 + 24x^6 - 32x^4 + 16x^2 - 24$ | $x^{12} - 12x^{10} + 24x^8 + 120x^6 - 252x^4 - 288x^2 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 7 \\ & & 2 & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} - 8x^{10} + 24x^8 - 24x^6 + 4x^4 + 56$ | $x^{12} - 12x^{10} + 48x^8 - 64x^6 - 36x^4 + 144x^2 - 72$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 7 \\ & 2 & 2 & 2 \\ & & 2 & 4 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} + 52x^{10} - 44x^8 - 32x^6 - 4x^4 + 16x^2 + 40$ | $x^{12} + 24x^{10} + 240x^8 + 1280x^6 + 2496x^4 - 4608x^2 - 13824$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 7 \\ & 2 & 2 & 2 \\ & & 2 & 4 \end{array} \right]_1^6$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} - 56x^{10} - 40x^8 - 24x^6 + 28x^4 + 16x^2 - 56$ | $x^{12} + 40x^{10} - 660x^8 - 38600x^6 - 286500x^4 + 750000x^2 + 125000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \end{array} \right]_1^3$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} - 12x^{10} + 12x^8 - 8x^6 + 12x^4 - 8$ | $x^{12} - 12x^{10} + 88x^6 - 204x^4 + 144x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 7 \\ & & 2 & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-------------|------------------|
| $x^{12} - 16x^{10} + 24x^8 - 16x^6 - 28x^4 + 16x^2 + 24$ | $x^{12} - 12x^{10} - 340x^9 - 2004x^8 + 3564x^7 + 51866x^6 + 219972x^5 + 680781x^4 + 1219504x^3 + 1337250x^2 + 1187100x - 694875$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} + 24x^{10} - 24x^8 - 12x^4 - 16x^2 - 24$ | $x^{12} - 42x^8 - 112x^6 + 60x^4 + 288x^2 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} - 4x^{10} + 52x^8 + 64x^6 - 28x^4 + 32x^2 + 56$ | $x^{12} - 36x^{10} - 84x^8 - 144x^6 + 900x^4 - 3600x^2 + 3000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^6$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} + 24x^{10} + 24x^8 + 24x^6 - 4x^4 + 16x^2 + 8$ | $x^{12} - 4x^{10} - 446x^8 + 920x^6 + 960x^4 - 1600x^2 + 200$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & & 3 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} - 12x^{10} - 4x^8 + 8x^6 + 12x^4 + 8$ | $x^{12} - 84x^{10} + 840x^8 + 27832x^6 - 659148x^4 + 5120304x^2 - 13832504$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} - 16x^{10} + 20x^8 - 32x^6 + 60x^4 + 48x^2 - 40$ | $x^{12} - 156x^8 + 624x^6 + 988x^4 - 3536x^2 - 2600$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} + 32x^{10} + 24x^8 + 32x^6 - 12x^4 - 16x^2 - 24$ | $x^{12} - 48x^8 - 208x^6 - 396x^4 - 432x^2 - 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 7 \\ & & 2 & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} + 32x^{10} - 24x^8 + 24x^6 - 4x^4 - 16x^2 - 24$ | $x^{12} - 3640x^8 - 96200x^6 - 349700x^4 + 8814000x^2 + 62465000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \end{array} \right]_1^3$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} + 4x^{10} + 2x^8 - 8x^4 - 8$ | $x^{12} - 8x^{10} + 2x^8 + 80x^6 - 100x^4 - 64x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 7 \\ & & 2 & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} + 40x^8 - 40x^6 + 28x^4 + 16x^2 - 56$ | $x^{12} - 108x^{10} - 2610x^8 + 28080x^6 + 121500x^4 - 1652400x^2 + 3645000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \end{array} \right]_1^3$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} - 16x^{10} - 8x^8 - 24x^6 + 28x^4 - 16x^2 + 24$ | $x^{12} - 12x^{10} + 42x^8 - 16x^6 - 132x^4 + 144x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \end{array} \right]_1^6$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} + 16x^{10} + 8x^8 + 8x^6 + 4x^4 - 32x^2 + 24$ | $x^{12} - 728x^8 + 12168x^6 - 75036x^4 + 161824x^2 - 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 7 \\ & & 2 & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} + 12x^{10} + 58x^8 - 16x^6 - 48x^4 + 16x^2 - 56$ | $x^{12} + 24x^{10} + 198x^8 + 624x^6 + 432x^4 - 432x^2 + 72$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 7 \\ & & 2 & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,60 | $\frac{115}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-------------|------------------|
| $x^{12} + 12x^{10} - 4x^8 + 8x^6 + 12x^4 - 8$ | $x^{12} + 12x^{10} - 88x^6 - 204x^4 - 144x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 7 \\ & & & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} - 16x^{10} + 8x^8 - 24x^6 - 28x^4 + 24$ | $x^{12} - 182x^8 + 1456x^6 - 4472x^4 + 6032x^2 - 2600$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 7 \\ & & & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} - 36x^{10} - 28x^8 + 8x^6 - 12x^4 - 48x^2 + 56$ | $x^{12} + 8x^{10} + 12x^8 - 64x^6 - 140x^4 - 112x^2 + 56$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 7 \\ & & & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} - 16x^{10} + 8x^8 + 24x^6 + 28x^4 + 16x^2 - 24$ | $x^{12} + 32x^{10} - 392x^8 - 8680x^6 - 44260x^4 - 70000x^2 + 1000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & & 3 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} - 12x^{10} - 12x^8 - 16x^6 - 4x^4 - 16x^2 - 8$ | $x^{12} + 12x^{10} + 60x^8 + 160x^6 + 204x^4 + 48x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 7 \\ & & & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} + 2x^8 + 8x^6 - 16x^2 - 24$ | $x^{12} + 24x^{10} - 156x^8 + 336x^6 - 324x^4 + 144x^2 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 7 \\ & & & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} - 36x^{10} - 44x^8 - 56x^6 + 4x^4 - 16x^2 - 56$ | $x^{12} + 4x^{10} - 12x^8 - 104x^6 - 220x^4 - 320x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 7 \\ & & & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-------------|------------------|
| $x^{12} + 28x^{10} + 4x^8 - 32x^6 - 4x^4 - 16x^2 + 24$ | $x^{12} + 52x^{10} + 442x^8 + 1456x^6 + 1820x^4 + 208x^2 - 104$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} - 44x^{10} + 52x^8 + 64x^6 + 28x^4 - 48x^2 + 56$ | $x^{12} - 12x^{10} + 60x^8 - 160x^6 + 204x^4 - 48x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} + 8x^{10} - 24x^8 - 24x^6 - 4x^4 - 16x^2 + 24$ | $x^{12} - 24x^{10} + 24x^8 + 232x^6 + 300x^4 + 144x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & 3 & 4 \\ & & & 4 \end{array} \right]_1^6$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} + 4x^{10} + 16x^8 + 16x^6 + 20x^4 + 16x^2 - 24$ | $x^{12} + 52x^{10} + 416x^8 + 1040x^6 + 364x^4 - 832x^2 + 104$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} + 16x^{10} + 12x^8 + 16x^6 + 12x^4 + 16x^2 + 8$ | $x^{12} - 4x^{10} - 40x^8 + 104x^6 - 52x^4 - 16x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} - 4x^{10} + 22x^8 - 32x^6 + 16x^2 - 8$ | $x^{12} - 54x^8 - 208x^6 - 288x^4 - 144x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^6$ | I: 64,60 | $\frac{115}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-------------|------------------|
| $x^{12} + 24x^{10} + 8x^8 - 32x^6 + 20x^4 - 16x^2 - 56$ | $x^{12} - 96x^{10} - 4x^9 + 1944x^8 - 12228x^7 - 12142x^6 + 458532x^5 - 292233x^4 - 6603920x^3 + 7037406x^2 + 34530732x - 52875899$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} + 20x^{10} + 20x^8 - 16x^6 - 4x^4 - 16x^2 - 24$ | $x^{12} + 4x^{10} - 26x^8 - 160x^6 - 360x^4 - 432x^2 - 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^6$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} + 36x^{10} - 32x^8 + 48x^6 - 4x^4 + 64x^2 + 40$ | $x^{12} - 676x^8 - 4264x^6 + 988x^4 + 6656x^2 + 2600$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 28x^{10} - 44x^8 - 16x^6 + 60x^4 + 16x^2 - 56$ | $x^{12} + 60x^{10} + 1308x^8 + 11568x^6 + 17820x^4 - 255600x^2 - 867000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^6$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} + 36x^{10} + 4x^8 - 48x^6 + 36x^4 - 32x^2 + 56$ | $x^{12} + 36x^{10} + 348x^8 + 2016x^6 + 5220x^4 + 7200x^2 + 3000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^6$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} + 28x^{10} - 24x^8 - 16x^6 + 20x^4 - 16x^2 + 24$ | $x^{12} - 36x^{10} + 408x^8 - 1296x^6 - 3204x^4 + 12672x^2 + 8664$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^6$ | I: 64,60 | $\frac{115}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|--------------|------------------|
| $x^{12} - 8x^{10} + 8x^8 + 4x^4 - 16x^2 - 8$ | $x^{12} - 12x^{10} + 54x^8 - 112x^6 + 96x^4 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 7 \\ & & 2 & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 128, 1407 | $\frac{231}{64}$ |
| $x^{12} + 24x^{10} - 28x^8 + 32x^6 - 4x^4 + 16x^2 + 24$ | $x^{12} + 52x^{10} + 858x^8 + 5304x^6 + 8528x^4 - 6448x^2 - 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 7 \\ & & 2 & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 128, 1578 | $\frac{231}{64}$ |
| $x^{12} - 32x^{10} + 8x^8 + 8x^6 - 12x^4 - 24$ | $x^{12} + 24x^{10} + 86x^8 + 160x^6 + 312x^4 - 1584x^2 - 216$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 6 \\ & 2 & 3 & 7 \\ & & 2 & 2 \\ & & & 4 \end{array} \right]_1^6$ | I: 64, 73 | $\frac{115}{32}$ |
| $x^{12} - 4x^{10} + 20x^8 - 40x^6 - 60x^4 + 16x^2 + 40$ | $x^{12} + 52x^{10} + 1066x^8 + 10712x^6 + 53352x^4 + 117936x^2 + 75816$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 7 \\ & & 2 & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 128, 1578 | $\frac{231}{64}$ |
| $x^{12} - 16x^{10} - 8x^8 - 16x^6 + 4x^4 - 16x^2 + 24$ | $x^{12} + 168x^{10} + 10584x^8 + 307328x^6 + 3800832x^4 + 6322176x^2 - 152259072$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 7 \\ & & 2 & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 128, 1407 | $\frac{231}{64}$ |
| $x^{12} + 20x^{10} + 20x^8 + 8x^6 + 20x^4 + 16x^2 - 8$ | $x^{12} - 60x^{10} + 780x^8 + 7800x^6 - 53100x^4 - 2106000x^2 + 1083000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 7 \\ & & 2 & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 128, 1578 | $\frac{231}{64}$ |
| $x^{12} - 20x^{10} - 20x^8 + 40x^6 + 12x^4 - 64x^2 + 40$ | $x^{12} - 42x^8 + 32x^6 + 60x^4 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 7 \\ & & 2 & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 128, 1407 | $\frac{231}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} + 12x^8 + 36x^4 - 40$ | $x^{12} + 36x^8 + 324x^4 + 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 4 \end{array} \right]_1^3$ | I: 32,46 | $\frac{51}{16}$ |
| $x^{12} - 32x^{10} + 8x^8 - 8x^6 - 60x^4 + 56$ | $x^{12} + 4x^{10} - 14x^8 - 16x^6 + 112x^4 + 144x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 7 \\ & & & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} + 16x^{10} + 8x^8 - 24x^6 + 28x^4 + 16x^2 - 24$ | $x^{12} - 4x^{11} - 10x^{10} - 480x^9 - 2279x^8 + 21700x^7 + 130014x^6 + 78620x^5 - 1332744x^4 - 5488300x^3 - 1392720x^2 + 30559896x + 39627251$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & & 3 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} + 8x^{10} - 6x^8 - 16x^6 - 16x^4 + 16x^2 - 8$ | $x^{12} + 12x^{10} + 48x^8 + 64x^6 - 12x^4 - 48x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 7 \\ & & & 2 \\ & & & 4 \end{array} \right]_1^6$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 4x^{10} + 12x^8 - 8x^6 + 12x^4 + 8$ | $x^{12} + 84x^{10} + 840x^8 - 27832x^6 - 659148x^4 - 5120304x^2 - 13832504$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 7 \\ & & & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} - 12x^{10} + 52x^8 - 32x^6 - 4x^4 + 48x^2 + 56$ | $x^{12} + 4x^{10} - 30x^8 - 96x^6 - 104x^4 - 48x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 7 \\ & & & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} + 18x^8 - 56x^4 + 40$ | $x^{12} - 12x^{10} - 4x^9 + 36x^8 + 36x^7 - 246x^6 - 396x^5 - 279x^4 + 176x^3 + 1818x^2 - 636x + 19$ | $\left[\begin{array}{ccc} 2 & 3 & 4 \\ & & 1 \end{array} \right]^3$ | I: 8,3 | 3 |
| $x^{12} + 12x^{10} - 12x^8 + 8x^6 + 4x^4 - 16x^2 - 24$ | $x^{12} - 52x^{10} + 1066x^8 - 10712x^6 + 53352x^4 - 117936x^2 + 75816$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 2 & 3 \\ & & 2 \\ & & & 4 \\ & & & & 1 \end{array} \right]^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} + 32x^{10} + 20x^8 + 24x^6 - 44x^4 - 16x^2 + 40$ | $x^{12} - 572x^8 - 3432x^6 - 988x^4 + 6448x^2 + 2600$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 2 & 3 \\ & & 4 \\ & & & 1 \end{array} \right]^3$ | I: 16,10 | $\frac{25}{8}$ |
| $x^{12} + 24x^{10} + 8x^8 + 8x^6 + 28x^4 + 16x^2 + 24$ | $x^{12} - 12x^{10} + 30x^8 + 88x^6 - 240x^4 - 288x^2 + 24$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 2 & 3 \\ & & 3 \\ & & & 4 \\ & & & & 1 \end{array} \right]^6$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} - 12x^{10} + 32x^8 + 28x^4 - 24$ | $x^{12} - 234x^8 - 2080x^6 - 6656x^4 - 7280x^2 + 104$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 2 & 3 \\ & & 2 \\ & & & 4 \\ & & & & 1 \end{array} \right]^3$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} + 12x^{10} + 4x^8 - 8x^6 - 12x^4 - 16x^2 - 8$ | $x^{12} + 60x^{10} + 780x^8 - 7800x^6 - 53100x^4 + 2106000x^2 + 1083000$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 2 & 3 \\ & & 2 \\ & & & 4 \\ & & & & 1 \end{array} \right]^3$ | I: 128,1578 | $\frac{231}{64}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} - 44x^{10} + 56x^8 - 16x^6 + 20x^4 - 48x^2 - 40$ | $x^{12} - 132x^8 - 216x^6 + 3276x^4 + 10656x^2 + 8664$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & & 4 \end{array} \right]_1^6$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} + 12x^{10} - 60x^8 - 64x^6 - 44x^4 - 64x^2 - 56$ | $x^{12} - 12x^{10} + 36x^8 + 48x^6 - 108x^4 - 864x^2 + 72$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & & 4 \end{array} \right]_1^3$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 8x^{10} + 56x^8 - 56x^6 - 4x^4 + 48x^2 - 56$ | $x^{12} - 12x^{10} - 4014x^8 + 24840x^6 + 77760x^4 - 388800x^2 + 145800$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & & 3 \\ & & & & 4 \end{array} \right]_1^3$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} + 4x^{10} - 12x^8 - 4x^4 - 16x^2 + 8$ | $x^{12} - 48x^{10} + 822x^8 - 3048x^6 - 47520x^4 + 453600x^2 - 1083000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & & 4 \end{array} \right]_1^6$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} - 12x^{10} - 12x^8 + 8x^6 - 12x^4 - 16x^2 - 8$ | $x^{12} - 8x^{10} - 2x^8 + 8x^6 + 56x^4 - 112x^2 + 56$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & & \frac{7}{2} \\ & & & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} - 4x^{10} - 12x^8 + 8x^6 + 16x^2 + 8$ | $x^{12} - 12x^{10} + 58x^8 - 144x^6 + 184x^4 - 96x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & & \frac{7}{2} \\ & & & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} + 32x^{10} - 24x^8 + 24x^6 - 12x^4 - 24$ | $x^{12} + 32x^{10} + 310x^8 + 1072x^6 + 1656x^4 - 432x^2 - 216$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & & 4 \end{array} \right]_1^6$ | I: 64,73 | $\frac{115}{32}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-------------|------------------|
| $x^{12} + 64x^{10} + 24x^8 + 36x^4 - 16x^2 + 56$ | $x^{12} - 48x^8 - 112x^6 - 108x^4 - 48x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & 2 & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} + 12x^{10} - 28x^8 + 16x^6 - 12x^4 - 24$ | $x^{12} + 52x^{10} + 494x^8 + 2288x^6 + 5356x^4 + 6032x^2 + 2600$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & 2 & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 4x^{10} + 8x^8 - 8x^6 + 4x^4 + 32x^2 + 8$ | $x^{12} - 36x^{10} + 414x^8 - 1296x^6 - 3240x^4 + 7776x^2 + 5832$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} - 24x^{10} + 40x^8 + 48x^6 - 12x^4 + 16x^2 + 40$ | $x^{12} - 42x^8 + 112x^6 + 60x^4 - 288x^2 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} - 36x^4 + 40$ | $x^{12} + 36x^8 + 108x^4 - 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \\ & & & & 4 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{219}{64}$ |
| $x^{12} - 28x^{10} - 12x^8 - 32x^6 + 28x^4 + 16x^2 - 24$ | $x^{12} + 48x^{10} + 638x^8 + 1448x^6 - 48x^4 - 2304x^2 - 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & 2 & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^6$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} - 12x^{10} - 52x^8 - 24x^6 + 44x^4 + 56$ | $x^{12} - 12x^{10} + 42x^8 - 16x^6 - 192x^4 + 384x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} - 16x^{10} - 24x^8 - 24x^6 - 4x^4 + 16x^2 + 8$ | $x^{12} + 360x^{10} - 2880x^8 - 977400x^6 - 6342300x^4 - 2430000x^2 + 3645000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} - 16x^{10} - 32x^8 + 48x^6 - 36x^4 - 56$ | $x^{12} - 18x^8 - 36x^4 + 72$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{219}{64}$ |
| $x^{12} - 28x^{10} + 52x^8 + 16x^6 + 20x^4 - 56$ | $x^{12} - 12x^{10} + 76x^8 - 288x^6 + 644x^4 - 784x^2 + 392$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 7 \\ & 2 & 3 & 2 \\ & & 7 & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} + 16x^{10} - 8x^8 - 8x^6 - 4x^4 + 16x^2 - 8$ | $x^{12} - 36x^8 + 136x^6 - 180x^4 + 144x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \\ & & & 4 \end{array} \right]_1^6$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} - 8x^{10} - 8x^8 - 24x^6 + 28x^4 + 16x^2 - 24$ | $x^{12} - 10140x^8 - 309400x^6 + 7086300x^4 + 258102000x^2 + 447785000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,55 | $\frac{109}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} + 8x^{10} + 8x^8 + 16x^6 - 12x^4 + 16x^2 + 8$ | $x^{12} + 72x^{10} - 4x^9 + 936x^8 - 12228x^7 - 74414x^6 - 572652x^5 - 2520753x^4 - 9182832x^3 - 27974970x^2 - 51008148x - 92822547$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & 2 & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} + 4x^{10} + 4x^8 + 4x^4 + 8$ | $x^{12} + 12x^{10} + 36x^8 - 48x^6 - 108x^4 + 864x^2 + 72$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & 2 & 3 & \frac{7}{2} \\ & & 2 & 4 \end{array} \right]_1^3$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} + 24x^{10} - 6x^8 + 56x^6 - 8x^4 + 32x^2 + 56$ | $x^{12} - 12x^{10} + 48x^8 - 64x^6 - 12x^4 + 48x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & 2 & 3 & \frac{7}{2} \\ & & 2 & 4 \end{array} \right]_1^6$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} + 24x^{10} + 16x^8 + 32x^6 - 4x^4 + 24$ | $x^{12} - 6x^8 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 2 & 3 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{219}{64}$ |
| $x^{12} + 28x^{10} + 20x^8 - 8x^6 - 28x^4 + 16x^2 - 24$ | $x^{12} + 52x^{10} + 546x^8 + 2392x^6 + 5304x^4 + 6032x^2 + 2600$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & 2 & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} + 4x^{10} - 14x^8 - 8x^4 - 32x^2 - 8$ | $x^{12} - 8x^{10} - 12x^8 + 80x^6 - 100x^4 + 48x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & 2 & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-------------|------------------|
| $x^{12} + 8x^{10} + 48x^8 + 16x^6 + 28x^4 - 64x^2 - 56$ | $x^{12} + 6x^8 - 16x^4 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{219}{64}$ |
| $x^{12} - 28x^{10} + 12x^8 + 24x^6 - 20x^4 + 24$ | $x^{12} - 1974x^8 - 74872x^6 - 878472x^4 - 4000752x^2 - 6001128$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} + 8x^{10} + 28x^8 + 24x^6 + 20x^4 - 16x^2 + 24$ | $x^{12} - 24x^{10} - 4x^9 + 192x^8 + 36x^7 - 502x^6 + 156x^5 + 501x^4 - 464x^3 + 318x^2 - 108x + 51$ | $\left[\begin{array}{cc} & 6 \\ 3 & 4 \end{array} \right]_1$ | I: 4,1 | $\frac{11}{4}$ |
| $x^{12} + 12x^{10} + 60x^8 + 56x^6 - 20x^4 + 56$ | $x^{12} + 12x^{10} + 42x^8 + 16x^6 - 192x^4 - 384x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} + 16x^{10} + 12x^8 - 8x^6 + 20x^4 + 16x^2 + 24$ | $x^{12} - 12x^8 - 8x^6 + 324x^4 - 432x^2 + 216$ | $\left[\begin{array}{cccc} & & & 6 \\ 2 & 2 & 3 & 4 \\ & 2 & 3 & 4 \end{array} \right]_1^6$ | I: 16,10 | $\frac{25}{8}$ |
| $x^{12} - 56x^{10} - 16x^8 - 48x^6 - 36x^4 - 64x^2 + 40$ | $x^{12} + 6x^8 - 36x^4 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{219}{64}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} + 8x^{10} - 34x^8 + 32x^6 - 32x^4 - 16x^2 - 56$ | $x^{12} - 24x^{10} + 198x^8 - 624x^6 + 432x^4 + 432x^2 + 72$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & & 4 \end{array} \right]_1^3$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} + 8x^{10} + 24x^8 - 56x^6 + 20x^4 + 40$ | $x^{12} + 8x^{10} + 8x^8 + 8x^6 - 1644x^4 - 3744x^2 - 216$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & & 4 \end{array} \right]_1^6$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} + 8x^{10} - 18x^8 + 24x^6 - 8x^4 + 32x^2 + 8$ | $x^{12} - 8x^{10} - 18x^8 + 56x^6 + 152x^4 + 96x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & & 4 \end{array} \right]_1^3$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 36x^{10} - 28x^8 - 16x^6 + 20x^4 + 64x^2 + 40$ | $x^{12} + 52x^{10} + 1092x^8 + 12480x^6 + 95940x^4 + 610896x^2 + 2498600$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & & 4 \end{array} \right]_1^3$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 4x^{10} - 36x^8 + 56x^6 + 12x^4 - 40$ | $x^{12} - 96x^{10} - 4x^9 + 3288x^8 - 2988x^7 - 54394x^6 + 119676x^5 + 391443x^4 - 1547456x^3 - 43458x^2 + 6716988x - 8494149$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & & \frac{7}{2} \\ & & & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} - 20x^{10} + 4x^8 + 8x^6 - 12x^4 + 16x^2 + 24$ | $x^{12} - 36x^{10} + 324x^8 - 1224x^6 + 2052x^4 - 1296x^2 + 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & & \frac{7}{2} \\ & & & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-------------|------------------|
| $x^{12} + 4x^{10} - 4x^8 + 24x^6 - 20x^4 - 24$ | $x^{12} - 12x^{10} + 54x^8 - 112x^6 + 96x^4 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 7 \\ & & & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} + 4x^{10} + 4x^8 + 4x^4 - 8$ | $x^{12} - 36x^{10} + 348x^8 - 2016x^6 + 5220x^4 - 7200x^2 + 3000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 7 \\ & & & 2 \\ & & & 4 \end{array} \right]_1^6$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 4x^{10} + 40x^8 + 32x^6 - 52x^4 + 64x^2 - 40$ | $x^{12} - 222x^8 + 1944x^6 - 5544x^4 + 2016x^2 + 8664$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 7 \\ & & & 2 \\ & & & 4 \end{array} \right]_1^6$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 36x^{10} + 4x^8 + 16x^6 - 4x^4 - 48x^2 - 40$ | $x^{12} - 52x^{10} + 442x^8 - 1456x^6 + 1820x^4 - 208x^2 - 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 7 \\ & & & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} + 36x^{10} + 62x^8 + 40x^6 - 48x^4 - 16x^2 + 40$ | $x^{12} - 126x^8 - 792x^6 - 1728x^4 - 1296x^2 - 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 7 \\ & & & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} + 24x^{10} - 24x^8 - 32x^6 - 28x^4 + 16x^2 - 8$ | $x^{12} + 12x^{10} + 54x^8 + 112x^6 + 96x^4 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 7 \\ & & & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} - 28x^{10} - 12x^8 + 16x^6 - 4x^4 - 16x^2 + 24$ | $x^{12} + 52x^{10} + 962x^8 + 7280x^6 + 14872x^4 - 62608x^2 - 229736$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 7 \\ & & & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} + 56x^8 + 32x^6 + 4x^4 - 48x^2 + 56$ | $x^{12} - 48x^8 + 112x^6 - 108x^4 + 48x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & 2 & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} - 12x^{10} - 44x^8 - 64x^6 - 36x^4 + 48x^2 + 40$ | $x^{12} + 12x^{10} + 60x^8 + 160x^6 + 156x^4 - 144x^2 - 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & 2 & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^6$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} + 8x^{10} - 4x^8 + 40x^6 + 12x^4 - 32x^2 - 40$ | $x^{12} - 222x^8 - 1944x^6 - 5544x^4 - 2016x^2 + 8664$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & 2 & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^6$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 20x^{10} - 24x^8 - 16x^6 - 20x^4 + 24$ | $x^{12} - 132x^8 + 216x^6 + 3276x^4 - 10656x^2 + 8664$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & 2 & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^6$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 4x^{10} - 16x^8 - 24x^6 + 12x^4 + 48x^2 - 56$ | $x^{12} - 4x^{10} - 26x^8 + 104x^6 - 80x^4 - 16x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & 2 & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} + 8x^{10} + 28x^8 - 20x^4 - 16x^2 + 8$ | $x^{12} - 12x^{10} + 46x^8 - 48x^6 - 40x^4 + 32x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & 2 & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} + 20x^{10} - 20x^8 - 8x^6 + 12x^4 + 32x^2 + 24$ | $x^{12} - 1974x^8 - 20384x^6 + 153468x^4 - 6001128$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & 2 & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} + 12x^{10} + 4x^8 - 4x^4 - 16x^2 - 8$ | $x^{12} + 12x^{10} + 52x^8 + 96x^6 + 60x^4 - 16x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & & 4 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} - 52x^{10} + 64x^8 - 8x^6 - 60x^4 + 32x^2 - 40$ | $x^{12} - 156x^8 - 624x^6 + 988x^4 + 3536x^2 - 2600$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & & \frac{7}{2} \\ & & & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} - 8x^8 - 44x^4 - 16x^2 + 40$ | $x^{12} - 12x^{10} + 24x^8 + 184x^6 - 804x^4 + 864x^2 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & & \frac{7}{2} \\ & & & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} - 28x^{10} - 4x^8 + 8x^6 - 20x^4 - 24$ | $x^{12} - 42x^8 + 184x^6 - 264x^4 + 144x^2 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & & \frac{7}{2} \\ & & & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} - 12x^{10} - 8x^8 + 8x^6 + 4x^4 + 32x^2 + 8$ | $x^{12} + 24x^{10} - 180x^8 - 1296x^6 + 7452x^4 - 11664x^2 + 5832$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & & \frac{7}{2} \\ & & & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} + 12x^{10} - 12x^8 - 16x^6 + 4x^4 - 8$ | $x^{12} + 36x^{10} - 84x^8 + 144x^6 + 900x^4 + 3600x^2 + 3000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & & 4 \end{array} \right]_1^6$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} + 20x^{10} - 12x^8 + 16x^6 - 4x^4 + 16x^2 - 8$ | $x^{12} - 4x^{10} - 30x^8 + 96x^6 - 104x^4 + 48x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & & 4 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} + 36x^{10} - 12x^8 + 64x^6 + 60x^4 + 16x^2 - 40$ | $x^{12} - 52x^{10} + 962x^8 - 7280x^6 + 14872x^4 + 62608x^2 - 229736$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} - 56x^{10} - 16x^8 + 16x^6 + 60x^4 - 32x^2 - 40$ | $x^{12} + 18x^8 - 216x^4 + 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & 3 & 3 \\ & & & 3 \\ & & & & 4 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{219}{64}$ |
| $x^{12} - 16x^{10} - 56x^8 + 24x^6 + 60x^4 + 48x^2 - 56$ | $x^{12} + 120x^{10} - 320x^8 - 36200x^6 - 78300x^4 - 10000x^2 + 5000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} + 20x^{10} - 8x^8 + 32x^6 - 12x^4 + 16x^2 + 24$ | $x^{12} - 222x^8 - 864x^6 + 1296x^4 + 8784x^2 + 8664$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^6$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} + 56x^8 + 64x^6 - 44x^4 + 48x^2 - 56$ | $x^{12} + 84x^{10} + 1638x^8 - 24024x^6 - 1001448x^4 - 9782640x^2 - 32260536$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} + 40x^{10} - 56x^8 - 16x^6 - 60x^4 + 16x^2 - 40$ | $x^{12} - 168x^{10} - 1148x^9 + 3780x^8 + 91308x^7 + 590450x^6 + 2149812x^5 + 4824981x^4 + 6436808x^3 + 4053294x^2 - 156996x - 932211$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} - 12x^{10} + 20x^8 - 16x^6 + 28x^4 + 16x^2 - 24$ | $x^{12} + 8x^{10} - 104x^8 - 1280x^6 - 5760x^4 - 13824x^2 - 13824$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^6$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} - 24x^{10} + 26x^8 - 32x^6 - 16x^4 + 16x^2 - 8$ | $x^{12} - 24x^{10} + 66x^8 + 64x^6 - 48x^4 - 48x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^6$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 60x^{10} - 36x^8 + 8x^6 + 12x^4 + 40$ | $x^{12} + 12x^{10} - 12x^8 - 40x^6 + 60x^4 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} - 44x^{10} - 12x^8 + 32x^6 + 60x^4 - 48x^2 - 56$ | $x^{12} + 24x^{10} - 76x^9 - 54x^8 + 1692x^7 - 1650x^6 - 11772x^5 + 34317x^4 + 30200x^3 - 180954x^2 + 191820x + 69103$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^6$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} + 8x^{10} + 24x^8 - 8x^6 - 28x^4 + 24$ | $x^{12} + 52x^{10} + 858x^8 + 4992x^6 + 2080x^4 - 44304x^2 - 104$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} - 8x^{10} - 28x^8 + 4x^4 + 32x^2 + 8$ | $x^{12} - 24x^{10} + 226x^8 - 1056x^6 + 2552x^4 - 3008x^2 + 1352$ | $\left[\begin{array}{ccc} & & \\ & 2 & 3 \\ & & 4 \end{array} \right]_1^3$ | I: 8,3 | 3 |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} + 12x^{10} - 12x^8 - 8x^6 - 28x^4 - 16x^2 + 8$ | $x^{12} - 4x^{10} - 20x^8 + 88x^6 - 108x^4 + 48x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 7 \\ & & 2 & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} - 8x^{10} - 8x^8 + 8x^6 - 4x^4 + 16x^2 + 8$ | $x^{12} - 4x^{11} - 130x^{10} + 1480x^9 - 7259x^8 - 111860x^7 + 1497894x^6 - 915260x^5 - 44241584x^4 + 199424220x^3 - 265850180x^2 - 309736424x + 160633981$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} + 12x^{10} - 6x^8 + 8x^6 + 8x^4 + 8$ | $x^{12} - 4x^{10} - 22x^8 + 56x^6 - 8x^4 - 32x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 4 \\ & 2 & 3 & 4 \\ & & 3 & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 16,10 | $\frac{25}{8}$ |
| $x^{12} + 40x^{10} - 24x^8 + 48x^6 - 12x^4 - 48x^2 - 56$ | $x^{12} - 12x^{10} - 340x^9 - 1416x^8 - 972x^7 + 31118x^6 + 321612x^5 + 1105485x^4 + 2316208x^3 - 161142x^2 - 31327284x - 63650789$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 7 \\ & & 2 & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
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| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-------------|------------------|
| $x^{12} + 16x^{10} + 10x^8 + 16x^4 + 16x^2 - 8$ | $x^{12} - 54x^8 + 208x^6 - 288x^4 + 144x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & & 4 \end{array} \right]_1^6$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} + 32x^{10} + 24x^8 + 32x^6 - 12x^4 - 16x^2 + 8$ | $x^{12} - 84x^{10} + 1092x^8 + 49000x^6 - 514500x^4 - 13253520x^2 - 72905336$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & & \frac{7}{2} \\ & & & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} + 8x^{10} + 24x^8 - 40x^6 - 36x^4 + 16x^2 - 56$ | $x^{12} + 12x^{10} - 4014x^8 - 24840x^6 + 77760x^4 + 388800x^2 + 145800$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & & 3 \\ & & & & 4 \end{array} \right]_1^3$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} + 44x^{10} - 60x^8 - 16x^6 - 44x^4 + 64x^2 - 56$ | $x^{12} + 12x^{10} + 76x^8 + 288x^6 + 644x^4 + 784x^2 + 392$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & & 4 \end{array} \right]_1^3$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 16x^{10} + 8x^8 + 8x^6 + 4x^4 - 8$ | $x^{12} - 66x^8 + 280x^6 - 432x^4 + 288x^2 - 72$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & & 4 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} - 8x^{10} + 8x^8 - 8x^6 - 4x^4 - 16x^2 - 8$ | $x^{12} + 24x^{10} + 48x^8 + 8x^6 - 12x^4 + 48x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & & 3 \\ & & & & 4 \end{array} \right]_1^6$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} - 40x^{10} - 56x^8 + 32x^6 + 20x^4 + 48x^2 + 40$ | $x^{12} + 12x^{10} + 18x^8 - 176x^6 - 624x^4 - 576x^2 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & & \frac{7}{2} \\ & & & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-------------|------------------|
| $x^{12} + 4x^{10} - 12x^8 + 48x^6 + 60x^4 - 48x^2 + 40$ | $x^{12} + 28x^{10} + 350x^8 + 2464x^6 + 8232x^4 + 7056x^2 - 10584$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & 2 & 3 & \frac{7}{2} \\ & & 2 & 4 \end{array} \right]_1^6$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} + 28x^{10} + 20x^8 + 24x^6 + 4x^4 - 16x^2 - 24$ | $x^{12} - 156x^8 - 832x^6 - 6604x^4 + 5200x^2 + 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & 2 & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} - 4x^{11} - 26x^{10} - 80x^9 + 193x^8 + 2324x^7 + 10030x^6 + 28540x^5 + 55484x^4 + 76148x^3 + 74960x^2 + 47384x + 13723$ | | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 2 & 4 \end{array} \right]_1^3$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} + 8x^{10} - 4x^4 + 8$ | $x^{12} + 18x^8 - 144x^4 + 72$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 2 & 4 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{219}{64}$ |
| $x^{12} - 12x^8 - 16x^6 + 28x^4 - 16x^2 + 24$ | $x^{12} - 156x^8 + 208x^6 + 5772x^4 - 5200x^2 - 65000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & \frac{7}{2} \\ & & 2 & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} + 52x^8 + 4x^4 - 56$ | $x^{12} - 8x^{10} - 118x^8 + 496x^6 - 104x^4 - 64x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 4 \end{array} \right]_1^3$ | I: 32,46 | $\frac{51}{16}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} - 28x^{10} - 12x^8 + 8x^6 - 44x^4 + 16x^2 - 40$ | $x^{12} + 24x^{10} + 156x^8 + 336x^6 + 324x^4 + 144x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} + 12x^{10} + 12x^8 - 8x^6 - 20x^4 - 24$ | $x^{12} - 42x^8 - 184x^6 - 264x^4 - 144x^2 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} + 24x^{10} + 8x^8 + 4x^4 - 16x^2 + 24$ | $x^{12} - 1806x^8 + 35672x^6 - 304752x^4 + 1341648x^2 - 2459688$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} - 28x^{10} + 20x^8 - 12x^4 - 24$ | $x^{12} - 52x^{10} + 1066x^8 - 11440x^6 + 68536x^4 - 218608x^2 + 292136$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^3$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} + 4x^{10} + 52x^8 - 56x^6 - 12x^4 + 48x^2 - 40$ | $x^{12} - 108x^8 + 576x^6 - 540x^4 - 1296x^2 + 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} + 16x^{10} + 16x^6 - 4x^4 + 8$ | $x^{12} - 8x^8 + 12x^4 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{219}{64}$ |
| $x^{12} - 28x^{10} - 26x^8 + 16x^6 + 32x^4 - 16x^2 - 8$ | $x^{12} + 24x^{10} + 66x^8 - 64x^6 - 48x^4 + 48x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^6$ | I: 64,60 | $\frac{115}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-------------|------------------|
| $x^{12} + 8x^{10} - 16x^8 + 16x^6 - 4x^4 - 24$ | $x^{12} - 108x^4 - 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 3 & 3 & 3 \\ & & 4 & 4 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{219}{64}$ |
| $x^{12} - 40x^{10} + 24x^8 + 56x^6 + 52x^4 - 56$ | $x^{12} - 54x^8 - 504x^6 + 4320x^4 - 27000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 3 & \frac{7}{2} & \frac{7}{2} \\ & & 4 & 4 \end{array} \right]_1^6$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} + 12x^{10} - 24x^8 - 8x^6 + 28x^4 + 16x^2 + 24$ | $x^{12} - 4x^{11} - 62x^{10} + 352x^9 + 971x^8 - 10020x^7 + 8074x^6 + 99420x^5 - 278756x^4 - 63036x^3 + 1305508x^2 - 2025072x + 1015249$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 3 & \frac{7}{2} & \frac{7}{2} \\ & & 4 & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} - 16x^{10} - 8x^8 - 16x^6 + 4x^4 - 16x^2 - 8$ | $x^{12} - 12x^{10} + 12x^8 + 40x^6 + 12x^4 - 48x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 3 & \frac{7}{2} & \frac{7}{2} \\ & & 4 & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} + 24x^{10} - 30x^8 - 48x^6 + 40x^4 - 32x^2 + 40$ | $x^{12} - 36x^8 + 324x^4 - 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 3 & 3 & 3 \\ & & 4 & 4 \end{array} \right]_1^3$ | I: 32,46 | $\frac{51}{16}$ |
| $x^{12} - 16x^{10} - 32x^8 - 48x^6 + 28x^4 + 56$ | $x^{12} + 8x^8 + 12x^4 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 3 & 3 & 3 \\ & & 4 & 4 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{219}{64}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-------------|------------------|
| $x^{12} + 12x^{10} - 12x^8 + 32x^6 + 4x^4 + 24$ | $x^{12} + 12x^{10} + 12x^8 - 16x^6 - 60x^4 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & 2 & 3 & \frac{7}{2} \\ & & 3 & 4 \\ & & & 4 \end{array} \right]_1^6$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 24x^{10} + 8x^8 - 24x^6 + 28x^4 - 16x^2 - 8$ | $x^{12} + 12x^{10} + 66x^8 + 208x^6 + 348x^4 + 240x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \\ & & & 4 \end{array} \right]_1^6$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} - 44x^{10} - 50x^8 - 16x^6 - 40x^4 + 64x^2 + 40$ | $x^{12} - 138x^8 + 432x^6 + 828x^4 + 288x^2 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} + 32x^{10} + 12x^8 + 8x^6 - 12x^4 + 16x^2 + 24$ | $x^{12} - 12x^8 + 8x^6 + 324x^4 + 432x^2 + 216$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 4 \\ & 2 & 3 & 4 \\ & & 3 & 4 \\ & & & 4 \end{array} \right]_1^6$ | I: 16,10 | $\frac{25}{8}$ |
| $x^{12} + 8x^{10} - 8x^8 + 8x^6 + 28x^4 - 16x^2 + 8$ | $x^{12} + 4x^{10} - 446x^8 - 920x^6 + 960x^4 + 1600x^2 + 200$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} - 8x^{10} - 8x^8 + 24x^6 + 28x^4 - 28x^2 + 16x - 24$ | $x^{12} - 4x^{11} + 10x^{10} + 320x^9 - 2025x^8 - 3540x^7 + 40710x^6 - 39860x^5 - 181260x^4 + 370340x^3 - 9424x^2 - 340264x + 127405$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,55 | $\frac{109}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-------------|------------------|
| $x^{12} + 36x^{10} + 52x^8 - 16x^6 - 36x^4 - 16x^2 + 40$ | $x^{12} + 8x^{10} + 8x^8 + 8x^6 + 204x^4 + 288x^2 - 216$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^6$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} - 4x^{10} + 20x^8 - 24x^6 + 4x^4 + 16x^2 + 8$ | $x^{12} - 8x^{10} - 6x^8 - 8x^6 - 104x^4 - 176x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} - 16x^{10} + 20x^8 + 8x^6 + 28x^4 - 24$ | $x^{12} - 52x^{10} + 416x^8 - 1040x^6 + 364x^4 + 832x^2 + 104$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 16x^{10} - 32x^8 + 48x^6 - 4x^4 + 32x^2 + 56$ | $x^{12} - 36x^4 - 72$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & 3 & 3 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{219}{64}$ |
| $x^{12} - 4x^{10} - 44x^8 + 56x^6 + 36x^4 - 16x^2 + 40$ | $x^{12} - 156x^8 - 416x^6 + 260x^4 + 3536x^2 + 2600$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} - 12x^{10} + 24x^8 - 40x^6 + 60x^4 - 48x^2 - 40$ | $x^{12} - 234x^8 + 1768x^6 - 4992x^4 + 6032x^2 - 2600$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} - 48x^{10} - 24x^8 - 56x^6 - 36x^4 - 16x^2 + 40$ | $x^{12} - 104x^{10} - 7228x^8 + 98280x^6 - 165620x^4 - 78000x^2 + 2600$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & 3 & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,55 | $\frac{109}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} + 44x^{10} - 12x^8 - 40x^6 + 4x^4 + 48x^2 - 56$ | $x^{12} - 16x^{10} + 60x^8 - 64x^6 - 12x^4 - 144x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 7 \\ & & 2 & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} - 28x^{10} + 52x^8 + 24x^6 - 12x^4 + 16x^2 + 56$ | $x^{12} + 120x^{10} - 3090x^8 + 29400x^6 - 95400x^4 - 162000x^2 + 1083000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 7 \\ & & 2 & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} + 24x^{10} + 22x^8 - 16x^6 - 24x^4 + 32x^2 - 8$ | $x^{12} - 10x^8 + 24x^4 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 32,46 | $\frac{51}{16}$ |
| $x^{12} + 8x^8 + 8x^6 - 4x^4 - 16x^2 + 8$ | $x^{12} - 36x^{10} - 290x^8 + 1040x^6 + 1500x^4 - 6800x^2 + 5000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} + 4x^{10} - 48x^8 + 52x^4 - 48x^2 + 40$ | $x^{12} + 52x^{10} + 858x^8 + 4576x^6 + 416x^4 - 8528x^2 + 2600$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 7 \\ & 2 & 3 & 2 \\ & & 2 & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 4x^{10} + 20x^8 + 8x^6 - 28x^4 + 16x^2 - 56$ | $x^{12} + 4x^{10} - 20x^8 - 88x^6 - 108x^4 - 48x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 7 \\ & & 2 & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} + 8x^8 - 8x^6 + 4x^4 - 8$ | $x^{12} - 66x^8 - 280x^6 - 432x^4 - 288x^2 - 72$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 7 \\ & 2 & 3 & 2 \\ & & 2 & 2 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-------------|------------------|
| $x^{12} - 8x^{10} - 8x^8 + 8x^6 + 4x^4 - 8$ | $x^{12} - 12x^{10} + 56x^8 - 128x^6 + 140x^4 - 48x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} - 28x^{10} + 12x^8 - 8x^6 - 20x^4 + 32x^2 - 8$ | $x^{12} - 12x^{10} + 90x^8 - 400x^6 + 816x^4 - 576x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} - 8x^{10} - 24x^8 - 8x^6 + 28x^4 - 16x^2 + 24$ | $x^{12} + 12x^{10} + 30x^8 - 88x^6 - 240x^4 + 288x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & 3 & 4 \\ & & & 4 \end{array} \right]_1^6$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} - 4x^4 + 8$ | $x^{12} - 2x^8 - 8x^4 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & 3 & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{219}{64}$ |
| $x^{12} - 8x^{10} - 8x^8 - 8x^6 + 4x^4 - 8$ | $x^{12} + 12x^{10} + 56x^8 + 128x^6 + 140x^4 + 48x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} + 28x^{10} + 4x^8 + 28x^4 + 16x^2 + 24$ | $x^{12} - 4x^{11} - 62x^{10} + 352x^9 + 1023x^8 - 10748x^7 + 7814x^6 + 127708x^5 - 346850x^4 - 268540x^3 + 2276140x^2 - 3220552x + 1456885$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-------------|------------------|
| $x^{12} - 32x^{10} + 40x^8 - 24x^6 + 28x^4 + 16x^2 - 56$ | $x^{12} - 120x^{10} - 320x^8 + 36200x^6 - 78300x^4 + 10000x^2 + 5000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 4 & 4 \end{array} \right]_1^3$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} + 40x^8 + 24x^6 - 12x^4 - 56$ | $x^{12} - 36x^{10} + 468x^8 - 2736x^6 + 7020x^4 - 27000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 4 & 4 \end{array} \right]_1^6$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} - 16x^{10} + 24x^8 - 8x^6 + 28x^4 + 16x^2 + 24$ | $x^{12} + 12x^{10} + 42x^8 + 16x^6 - 132x^4 - 144x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 4 & 4 \end{array} \right]_1^6$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} + 24x^{10} - 60x^8 - 56x^6 - 36x^4 + 32x^2 + 40$ | $x^{12} - 52x^{10} + 858x^8 - 4576x^6 + 416x^4 + 8528x^2 + 2600$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 4 & 4 \end{array} \right]_1^3$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} + 8x^{10} - 8x^8 - 8x^6 - 12x^4 + 8$ | $x^{12} - 234x^8 + 2736x^6 - 14040x^4 + 32400x^2 - 27000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 4 & 4 \end{array} \right]_1^6$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} - 4x^4 - 24$ | $x^{12} + 24x^8 + 36x^4 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 3 & 3 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{219}{64}$ |
| $x^{12} - 16x^{10} - 28x^8 + 24x^6 + 20x^4 - 16x^2 - 24$ | $x^{12} + 52x^{10} + 26x^8 - 10504x^6 - 5304x^4 + 104$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 4 & 4 \end{array} \right]_1^3$ | I: 16,10 | $\frac{25}{8}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-------------|------------------|
| $x^{12} + 24x^{10} - 12x^8 + 64x^6 + 4x^4 + 32x^2 - 56$ | $x^{12} - 4x^{11} - 2x^{10} + 24x^9 - 5x^8 - 68x^7 + 98x^6 - 68x^5 + 158x^4 - 188x^3 + 112x^2 - 32x + 113$ | $\left[\begin{array}{ccc} 2 & 3 & 4 \\ & & 1 \end{array} \right]^3$ | I: 8,3 | 3 |
| $x^{12} + 60x^{10} + 14x^8 - 8x^6 - 16x^4 + 16x^2 + 40$ | $x^{12} - 48x^{10} - 76x^9 + 594x^8 + 1836x^7 + 114x^6 - 4860x^5 - 3933x^4 + 3560x^3 + 4590x^2 - 204x - 1061$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & & 2 \end{array} \right]^3 \left[\begin{array}{ccc} 7 & 7 & 4 \\ & & 2 \end{array} \right]^3 \left[\begin{array}{ccc} 2 & 2 & 4 \\ & & 1 \end{array} \right]^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} - 24x^{10} + 24x^8 - 8x^6 + 4x^4 - 32x^2 - 8$ | $x^{12} + 12x^{10} + 48x^8 + 64x^6 - 36x^4 - 144x^2 - 72$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & & 2 \end{array} \right]^3 \left[\begin{array}{ccc} 7 & 7 & 4 \\ & & 2 \end{array} \right]^3 \left[\begin{array}{ccc} 2 & 2 & 4 \\ & & 1 \end{array} \right]^3$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} + 48x^{10} + 14x^8 - 32x^4 + 48x^2 - 56$ | $x^{12} + 12x^{10} + 18x^8 - 192x^6 - 432x^4 + 432x^2 + 72$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & & 2 \end{array} \right]^3 \left[\begin{array}{ccc} 7 & 7 & 4 \\ & & 2 \end{array} \right]^3 \left[\begin{array}{ccc} 2 & 2 & 4 \\ & & 1 \end{array} \right]^3$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 28x^{10} + 24x^8 - 8x^6 + 36x^4 + 32x^2 - 56$ | $x^{12} - 4x^{11} - 26x^{10} + 216x^9 - 437x^8 - 1612x^7 + 9738x^6 - 10780x^5 - 22526x^4 + 60956x^3 - 58912x^2 + 29344x - 5789$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & & 2 \end{array} \right]^3 \left[\begin{array}{ccc} 7 & 7 & 4 \\ & & 2 \end{array} \right]^3 \left[\begin{array}{ccc} 2 & 2 & 4 \\ & & 1 \end{array} \right]^3$ | I: 128,1578 | $\frac{231}{64}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-------------|------------------|
| $x^{12} + 8x^8 + 24x^6 + 28x^4 - 16x^2 + 8$ | $x^{12} - 360x^{10} - 2880x^8 + 977400x^6 - 6342300x^4 + 2430000x^2 + 3645000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \end{array} \right]_1^3$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} - 12x^{10} - 4x^8 + 24x^6 + 44x^4 - 64x^2 - 56$ | $x^{12} + 168x^{10} + 9198x^8 + 221088x^6 + 2044476x^4 - 3852576x^2 - 124492536$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} + 24x^{10} + 16x^8 + 32x^6 - 4x^4 - 24$ | $x^{12} - 18x^8 - 216x^4 - 216$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{219}{64}$ |
| $x^{12} + 16x^{10} + 2x^8 - 8x^6 + 32x^4 + 16x^2 - 24$ | $x^{12} - 24x^{10} - 156x^8 - 336x^6 - 324x^4 - 144x^2 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} - 24x^{10} + 56x^8 + 40x^6 - 4x^4 - 48x^2 + 40$ | $x^{12} + 40x^{10} - 820x^8 - 18600x^6 + 189500x^4 + 1390000x^2 + 25000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \end{array} \right]_1^3$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} - 28x^8 + 8x^6 - 12x^4 - 16x^2 + 40$ | $x^{12} - 572x^8 + 3432x^6 - 988x^4 - 6448x^2 + 2600$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 2 & 3 \\ & & 4 \end{array} \right]_1^3$ | I: 16,10 | $\frac{25}{8}$ |
| $x^{12} + 4x^{10} - 28x^8 - 48x^6 + 4x^4 + 64x^2 + 56$ | $x^{12} + 6x^8 - 1224x^6 + 6120x^4 - 14400x^2 + 3000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \end{array} \right]_1^6$ | I: 64,60 | $\frac{115}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-------------|------------------|
| $x^{12} + 28x^{10} + 12x^8 - 8x^6 - 20x^4 - 56$ | $x^{12} + 84x^{10} + 1386x^8 - 58408x^6 - 2368464x^4 - 27708912x^2 - 89896184$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ 2 & 3 & 7 \\ 2 & 2 & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|------------------|
| $x^{12} - 24x^{10} - 10x^8 - 16x^6 + 8x^4 - 64x^2 + 56$ | $x^{12} - 24x^{10} + 206x^8 - 736x^6 + 952x^4 - 448x^2 + 56$ | $\left[\begin{array}{ccc} 2 & 3 & 4 \\ 2 & 3 & 4 \end{array} \right]_1^3$ | I: 8,3 | 3 |
| $x^{12} + 8x^{10} - 12x^8 - 24x^6 + 20x^4 - 16x^2 - 24$ | $x^{12} - 4x^{11} - 62x^{10} + 224x^9 + 1199x^8 - 3812x^7 - 8598x^6 + 23764x^5 + 21370x^4 - 50444x^3 - 8360x^2 + 20312x + 5041$ | $\left[\begin{array}{ccc} 3 & 4 \\ 2 & 3 & 4 \end{array} \right]_1^3$ | I: 4,1 | $\frac{11}{4}$ |
| $x^{12} + 12x^{10} - 38x^8 + 8x^6 - 56x^4 - 64x^2 - 56$ | $x^{12} + 12x^{10} + 18x^8 - 120x^6 - 216x^4 + 72$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ 2 & 3 & 4 \end{array} \right]_1^3$ | I: 16,10 | $\frac{25}{8}$ |
| $x^{12} - 64x^{10} - 56x^8 - 56x^6 + 52x^4 - 56$ | $x^{12} + 36x^{10} + 468x^8 + 2736x^6 + 7020x^4 - 27000$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ 2 & 3 & 7 \\ 2 & 2 & 4 \end{array} \right]_1^6$ | I: 64,73 | $\frac{115}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} - 36x^{10} - 44x^8 + 32x^6 + 4x^4 + 56$ | $x^{12} + 60x^{10} + 1482x^8 + 19344x^6 + 140940x^4 + 543600x^2 + 867000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & & 4 \end{array} \right]_1^6$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} + 24x^{10} - 24x^8 - 32x^6 - 28x^4 + 16x^2 + 24$ | $x^{12} - 168x^{10} - 1316x^9 + 2394x^8 + 108948x^7 + 921214x^6 + 4448052x^5 + 13942467x^4 + 28980336x^3 + 38784942x^2 + 30420180x + 10674125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & & \frac{7}{2} \\ & & & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} - 56x^{10} + 56x^8 - 40x^6 - 44x^4 + 40$ | $x^{12} - 8x^{10} - 90x^8 + 608x^6 + 5832x^4 + 10800x^2 - 216$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & & \frac{7}{2} \\ & & & & 4 \end{array} \right]_1^6$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} + 24x^{10} + 18x^8 - 24x^6 - 16x^2 - 24$ | $x^{12} + 12x^{10} + 24x^8 - 120x^6 - 252x^4 + 288x^2 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & & \frac{7}{2} \\ & & & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} + 16x^{10} + 8x^8 - 8x^6 - 4x^4 + 16x^2 + 8$ | $x^{12} + 36x^{10} - 290x^8 - 1040x^6 + 1500x^4 + 6800x^2 + 5000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & & 3 \\ & & & & 4 \end{array} \right]_1^3$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} + 48x^{10} + 24x^8 + 16x^6 - 12x^4 + 16x^2 - 56$ | $x^{12} + 84x^{10} + 1092x^8 - 49000x^6 - 514500x^4 + 13253520x^2 - 72905336$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \frac{7}{2} \\ & & & & \frac{7}{2} \\ & & & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-------------|------------------|
| $x^{12} - 4x^{10} - 60x^8 - 48x^6 + 28x^4 + 48x^2 - 40$ | $x^{12} + 52x^{10} + 858x^8 + 3120x^6 - 36452x^4 - 247728x^2 - 229736$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} - 12x^{10} + 60x^8 - 56x^6 - 20x^4 - 56$ | $x^{12} - 84x^{10} + 1386x^8 + 58408x^6 - 2368464x^4 + 27708912x^2 - 89896184$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} - 14x^8 - 24x^4 - 24$ | $x^{12} - 30x^8 + 72x^4 - 24$ | $\left[\begin{array}{ccc} & & 3 \\ 2 & 3 & 4 \\ & & 1 \end{array} \right]_1^3$ | I: 8,3 | 3 |
| $x^{12} + 24x^{10} - 40x^8 - 24x^6 - 60x^4 - 40$ | $x^{12} - 4x^{11} - 62x^{10} + 40x^9 + 1335x^8 + 2980x^7 - 1078x^6 - 9572x^5 - 5054x^4 + 11012x^3 + 9772x^2 - 4768x - 5459$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \end{array} \right]_1^3$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} - 28x^{10} - 12x^8 - 4x^4 - 16x^2 - 24$ | $x^{12} - 8x^{10} - 34x^8 - 8x^6 - 48x^4 - 288x^2 - 216$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \end{array} \right]_1^6$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} + 24x^{10} + 56x^8 - 40x^6 - 4x^4 + 48x^2 - 56$ | $x^{12} - 4x^{11} - 110x^{10} + 200x^9 + 3451x^8 + 9980x^7 - 29406x^6 - 306460x^5 - 898334x^4 - 1014020x^3 + 776700x^2 + 3418096x + 2662031$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & & 3 & 3 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,55 | $\frac{109}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-------------|------------------|
| $x^{12} - 4x^{10} + 6x^8 - 8x^6 - 8x^4 - 8$ | $x^{12} - 60x^8 + 88x^6 + 36x^4 - 48x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 4 \\ & & & \end{array} \right]_1^6$ | I: 16,10 | $\frac{25}{8}$ |
| $x^{12} - 44x^{10} - 2x^8 - 40x^6 + 48x^4 + 16x^2 + 40$ | $x^{12} - 138x^8 - 432x^6 + 828x^4 - 288x^2 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \end{array} \right]_1^3 \left[\begin{array}{ccc} 7 & 7 & 4 \\ & 2 & 4 \\ & & \end{array} \right]_1$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} + 8x^{10} + 8x^8 + 16x^6 + 20x^4 + 16x^2 - 24$ | $x^{12} - 12x^{10} + 18x^8 + 176x^6 - 624x^4 + 576x^2 - 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \end{array} \right]_1^3 \left[\begin{array}{ccc} 7 & 7 & 4 \\ & 2 & 4 \\ & & \end{array} \right]_1$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} - 12x^{10} - 12x^8 + 16x^6 - 4x^4 + 16x^2 + 8$ | $x^{12} + 48x^{10} + 822x^8 + 3048x^6 - 47520x^4 - 453600x^2 - 1083000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \end{array} \right]_1^6 \left[\begin{array}{ccc} 7 & 7 & 4 \\ & 2 & 4 \\ & & \end{array} \right]_1$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} - 8x^{10} - 28x^8 - 8x^6 + 20x^4 + 16x^2 - 24$ | $x^{12} + 100x^{10} + 2530x^8 + 13400x^6 + 22600x^4 + 12000x^2 + 1000$ | $\left[\begin{array}{cc} 3 & 4 \\ & \end{array} \right]_1^3$ | I: 4,1 | $\frac{11}{4}$ |
| $x^{12} + 36x^{10} - 60x^8 - 32x^6 - 28x^4 - 40$ | $x^{12} - 36x^8 + 88x^6 - 60x^4 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \end{array} \right]_1^6 \left[\begin{array}{ccc} 7 & 7 & 4 \\ & 2 & 4 \\ & & \end{array} \right]_1$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} - 12x^{10} - 12x^8 - 16x^6 - 12x^4 + 8$ | $x^{12} + 24x^{10} - 126x^8 + 264x^6 - 216x^4 + 72$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & \end{array} \right]_1^3 \left[\begin{array}{ccc} 7 & 7 & 4 \\ & 2 & 4 \\ & & \end{array} \right]_1$ | I: 64,60 | $\frac{115}{32}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-------------|------------------|
| $x^{12} - 4x^{10} - 6x^8 - 16x^6 - 16x^4 + 8x^2 + 8$ | $x^{12} + 8x^{10} - 18x^8 - 56x^6 + 152x^4 - 96x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & \frac{7}{2} \\ & & \frac{7}{2} & 4 \\ & & & 4 \end{array} \right]_1^3$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} + 4x^{10} + 10x^8 - 8x^6 + 8x^4 + 32x^2 + 8$ | $x^{12} + 20x^{10} + 122x^8 + 280x^6 + 264x^4 + 96x^2 + 8$ | $\left[\begin{array}{cc} 3 & 4 \\ & 4 \end{array} \right]_1^3$ | I: 4,1 | $\frac{11}{4}$ |
| $x^{12} + 24x^{10} - 48x^8 - 32x^6 + 28x^4 + 64x^2 - 56$ | $x^{12} - 4x^8 - 4x^4 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & 3 & 3 \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1599 | $\frac{219}{64}$ |
| $x^{12} - 4x^{10} + 4x^8 + 8x^6 + 4x^4 + 8$ | $x^{12} - 12x^{10} + 74x^8 - 272x^6 + 520x^4 - 416x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} - 12x^{10} + 10x^8 - 8x^6 + 8x^4 + 8$ | $x^{12} + 4x^{10} - 22x^8 - 56x^6 - 8x^4 + 32x^2 + 8$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 2 & 4 \end{array} \right]_1^3$ | I: 16,10 | $\frac{25}{8}$ |
| $x^{12} - 24x^{10} + 8x^8 - 16x^6 + 4x^4 - 48x^2 + 56$ | $x^{12} + 12x^{10} - 6x^8 - 40x^6 - 24x^4 + 48x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} - 4x^{10} + 16x^8 - 8x^6 - 20x^4 + 16x^2 + 8$ | $x^{12} + 8x^{10} - 20x^8 - 48x^6 + 92x^4 - 48x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & \frac{7}{2} & \frac{7}{2} \\ & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-------------|------------------|
| $x^{12} + 6x^8 + 8x^4 - 8$ | $x^{12} - 26x^8 + 104x^4 - 8$ | $\begin{bmatrix} 2 & 3 & 4 \\ & & 3 \end{bmatrix}_1$ | I: 8,3 | 3 |
| $x^{12} + 12x^{10} - 12x^8 + 16x^6 + 4x^4 - 32x^2 - 8$ | $x^{12} - 60x^{10} + 1482x^8 - 19344x^6 + 140940x^4 - 543600x^2 + 867000$ | $\begin{bmatrix} 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} & 4 \\ & & & & & 6 \\ & & & & & & 4 \\ & & & & & & & 1 \end{bmatrix}_1$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} + 24x^{10} - 48x^8 + 32x^6 - 36x^4 + 64x^2 + 56$ | $x^{12} - 18x^8 - 144x^4 - 72$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & 3 & 4 \\ & & & & & 3 \\ & & & & & & 4 \\ & & & & & & & 1 \end{bmatrix}_1$ | I: 128,1599 | $\frac{219}{64}$ |
| $x^{12} - 16x^{10} - 8x^8 - 16x^6 + 20x^4 + 16x^2 + 8$ | $x^{12} - 84x^{10} + 1638x^8 + 24024x^6 - 1001448x^4 + 9782640x^2 - 32260536$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} & 4 \\ & & & & & & 3 \\ & & & & & & & 1 \end{bmatrix}_1$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} + 60x^{10} + 36x^8 + 8x^6 + 20x^4 - 16x^2 + 56$ | $x^{12} - 120x^{10} - 3090x^8 - 29400x^6 - 95400x^4 + 162000x^2 + 1083000$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} & 4 \\ & & & & & & 3 \\ & & & & & & & 1 \end{bmatrix}_1$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} + 36x^{10} - 20x^8 + 40x^6 - 52x^4 - 40$ | $x^{12} + 84x^{10} + 2730x^8 + 43120x^6 + 296352x^4 - 6001128$ | $\begin{bmatrix} 2 & 2 & 2 & 3 & \frac{7}{2} & \frac{7}{2} & 4 \\ & & & & & & 3 \\ & & & & & & & 1 \end{bmatrix}_1$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} + 8x^{10} - 4x^8 + 48x^6 - 28x^4 - 40$ | $x^{12} - 12x^{10} - 4x^9 + 72x^8 + 36x^7 + 42x^6 + 180x^5 + 585x^4 + 32x^3 + 882x^2 - 204x + 1279$ | $\begin{bmatrix} 2 & 3 & 4 \\ & & 3 \end{bmatrix}_1$ | I: 8,3 | 3 |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-------------|------------------|
| $x^{12} - 40x^{10} + 24x^8 + 8x^6 - 36x^4 - 16x^2 + 40$ | $x^{12} - 4368x^8 - 152360x^6 - 1491620x^4 - 442000x^2 + 2600$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \end{array} \right]_1^3$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} - 8x^{10} - 8x^8 - 24x^6 - 12x^4 - 24$ | $x^{12} + 16x^{10} + 18x^8 - 328x^6 + 576x^4 - 2880x^2 - 216$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \end{array} \right]_1^6$ | I: 64,73 | $\frac{115}{32}$ |
| $x^{12} - 52x^{10} + 40x^8 - 56x^6 - 28x^4 - 32x^2 - 56$ | $x^{12} + 12x^{10} - 360x^8 - 2808x^6 - 4212x^4 + 3888x^2 + 5832$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \\ & & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} + 28x^{10} + 22x^8 + 24x^6 - 24x^4 + 32x^2 - 8$ | $x^{12} - 24x^{10} + 108x^8 + 344x^6 + 84x^4 - 144x^2 - 8$ | $\left[\begin{array}{cc} 3 & 4 \\ & 4 \end{array} \right]_1^6$ | I: 4,1 | $\frac{11}{4}$ |
| $x^{12} + 8x^{10} - 8x^8 - 8x^6 - 4x^4 - 16x^2 + 8$ | $x^{12} + 120x^{10} - 5940x^8 - 1042200x^6 - 23206500x^4 + 182250000x^2 + 91125000$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \end{array} \right]_1^3$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} + 36x^{10} - 12x^8 - 8x^6 - 44x^4 + 48x^2 + 56$ | $x^{12} - 12x^{10} + 62x^8 - 176x^6 + 280x^4 - 224x^2 + 56$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \\ & & & & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-------------|------------------|
| $x^{12} - 24x^{10} - 8x^8 - 40x^6 + 60x^4 - 48x^2 + 40$ | $x^{12} - 4368x^8 + 152360x^6 - 1491620x^4 + 442000x^2 + 2600$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \end{array} \right]_1^3$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} - 12x^{10} + 10x^8 + 16x^4 + 16x^2 + 8$ | $x^{12} + 4x^{10} - 22x^8 - 112x^6 - 64x^4 + 144x^2 + 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \end{array} \right]_1^3$ | I: 64,60 | $\frac{115}{32}$ |
| $x^{12} + 8x^{10} + 28x^8 - 24x^6 + 20x^4 + 16x^2 + 24$ | $x^{12} + 24x^{10} + 252x^8 + 1288x^6 + 3060x^4 + 1296x^2 + 216$ | $\left[\begin{array}{ccc} 3 & 4 & \\ & 6 & \\ & & 1 \end{array} \right]_1^6$ | I: 4,1 | $\frac{11}{4}$ |
| $x^{12} - 8x^8 + 8x^6 + 28x^4 + 16x^2 - 8$ | $x^{12} + 12x^{10} + 6x^8 + 8x^6 - 96x^4 + 96x^2 - 8$ | $\left[\begin{array}{cccc} 2 & 2 & 3 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \end{array} \right]_1^6$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} + 44x^{10} - 12x^8 - 24x^6 - 60x^4 - 48x^2 + 40$ | $x^{12} - 156x^8 + 832x^6 - 6604x^4 - 5200x^2 + 104$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |
| $x^{12} + 12x^{10} + 4x^8 + 8x^6 + 20x^4 - 16x^2 + 24$ | $x^{12} - 12x^{10} + 30x^8 + 120x^6 - 504x^4 + 144x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & 2 & 3 & 3 \\ & & 3 & 4 \end{array} \right]_1^3$ | I: 128,1578 | $\frac{231}{64}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-------------|------------------|
| $x^{12} - 24x^{10} + 52x^8 - 8x^6 + 20x^4 + 16x^2 + 40$ | $x^{12} - 4x^{11} + 58x^{10} - 176x^9 + 1479x^8 - 3492x^7 + 21082x^6 - 37276x^5 + 176930x^4 - 216364x^3 + 871400x^2 - 583128x + 1921361$ | $\left[\begin{array}{c} 3 \\ 4 \end{array} \right]_1^3$ | I: 4,1 | $\frac{11}{4}$ |
| $x^{12} + 60x^{10} - 36x^8 + 24x^6 + 12x^4 + 32x^2 + 56$ | $x^{12} - 12x^{10} - 90x^8 - 184x^6 - 192x^4 - 144x^2 - 8$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 3 \\ 3 \\ 2 \\ 7 \\ 2 \\ 4 \end{array} \right]_1^3$ | I: 128,1407 | $\frac{231}{64}$ |
| $x^{12} + 56x^{10} + 24x^8 - 40x^6 - 36x^4 - 16x^2 + 40$ | $x^{12} - 4x^{11} - 50x^{10} - 699x^8 + 2340x^7 + 20254x^6 - 35300x^5 + 102676x^4 - 415500x^3 - 1988200x^2 + 7377336x - 4875649$ | $\left[\begin{array}{c} 2 \\ 2 \\ 3 \\ 3 \\ 3 \\ 4 \end{array} \right]_1^3$ | I: 64,55 | $\frac{109}{32}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|------------------|
| $x^{12} + 8x^{10} + 24x^8 + 24x^6 - 4x^4 - 16x^2 - 24$ | $x^{12} - 4x^{11} - 270x^{10} + 40x^9 + 20731x^8 + 79420x^7 - 165606x^6 - 4528060x^5 - 24599494x^4 - 11399140x^3 + 216067380x^2 + 495407136x + 341040311$ | $\begin{bmatrix} 2 & 2 & 3 & 3 & 3 & 4 \\ & & & & & 1 \end{bmatrix}^3$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} - 24x^{10} + 24x^8 + 8x^6 - 4x^4 - 16x^2 - 24$ | $x^{12} - 20x^{10} - 1406x^8 - 17000x^6 - 57520x^4 - 23200x^2 + 1000$ | $\begin{bmatrix} 2 & 2 & 3 & 3 & 3 & 4 \\ & & & & & 1 \end{bmatrix}^3$ | I: 64,55 | $\frac{109}{32}$ |
| $x^{12} + 28x^{10} - 6x^8 + 40x^6 - 56x^4 - 32x^2 - 56$ | $x^{12} + 24x^{10} + 180x^8 + 552x^6 + 756x^4 + 432x^2 + 72$ | $\begin{bmatrix} 3 & 4 \\ & 1 \end{bmatrix}^3$ | I: 4,1 | $\frac{11}{4}$ |
| $x^{12} - 4x^{10} + 26x^8 + 8x^6 - 24x^4 + 32x^2 + 8$ | $x^{12} - 20x^{10} + 122x^8 - 280x^6 + 264x^4 - 96x^2 + 8$ | $\begin{bmatrix} 3 & 4 \\ & 1 \end{bmatrix}^3$ | I: 4,1 | $\frac{11}{4}$ |
| $x^{12} + 36x^{10} + 42x^8 - 40x^6 + 40x^4 + 32x^2 - 56$ | $x^{12} - 24x^{10} + 180x^8 - 552x^6 + 756x^4 - 432x^2 + 72$ | $\begin{bmatrix} 3 & 4 \\ & 1 \end{bmatrix}^3$ | I: 4,1 | $\frac{11}{4}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{12} + 2x^{11} + 2x^9 + 2x^7 + 2x^5 + 2x^3 + 2x + 2$ | $x^{12} - 18x^{10} - 186x^9 + 1179x^8 - 1818x^7 + 2874x^6 - 36360x^5 + 192951x^4 - 519944x^3 + 835722x^2 - 786834x + 359163$ | $\left[\begin{array}{c} \frac{10}{9} \\ \frac{10}{9} \\ \frac{10}{9} \\ \frac{10}{9} \\ \frac{10}{9} \\ \frac{10}{9} \end{array} \right]_9^6$ | t: 12,166 | $\frac{319}{288}$ |
| $x^{12} - 4x^{11} + 6x^{10} + 8x^9 + 6x^8 + 2x^6 + 4x^5 - 4x^4 - 4x^3 - 2x^2 - 4x + 6$ | $x^{12} - 4x^{10} + 29x^8 - 364x^6 + 1575x^4 - 3150x^2 + 3375$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ 2 \\ \frac{7}{3} \\ \frac{7}{3} \\ \frac{3}{3} \end{array} \right]_3^2$ | t: 12,88 | $\frac{247}{96}$ |
| $x^{12} - 4x^{11} + 8x^{10} + 4x^8 + 8x^7 + 8x^5 - 6x^2 + 4x + 6$ | $x^{12} - 70x^{10} - 1676x^8 + 9900x^6 + 336144x^4 + 1892520x^2 + 2903220$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ \frac{5}{3} \\ \frac{5}{3} \\ \frac{3}{3} \end{array} \right]_3^2$ | t: 12,55 | $\frac{109}{48}$ |
| $x^{12} + 4x^{11} + 8x^9 + 8x^8 + 2x^6 + 8x^5 + 2x^4 - 4x^3 + 2x^2 + 4x + 6$ | $x^{12} - 8x^{10} + 27x^8 - 44x^6 + 33x^4 - 22x^2 + 11$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ 2 \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{3}{3} \end{array} \right]_3^2$ | t: 12,92 | $\frac{259}{96}$ |
| $x^{12} + 4x^{11} + 4x^9 + 2x^8 - 2x^6 + 4x^3 + 4x^2 + 4x - 2$ | $x^{12} - 4x^{11} + 18x^{10} - 40x^9 + 84x^8 - 112x^7 + 154x^6 - 152x^5 + 176x^4 - 128x^3 + 112x^2 - 44x + 38$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ 2 \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{3}{3} \end{array} \right]_3^2$ | t: 12,60 | $\frac{115}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{12} - 4x^{11} + 8x^9 - 4x^8 + 4x^7 - 6x^6 - 4x^5 - 4x^4 + 6x^2 - 4x - 6$ | $x^{12} - 22x^{10} + 187x^8 - 770x^6 + 1749x^4 - 2178x^2 + 1331$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \frac{8}{3} \frac{3}{3} \right]_3^2$ | t: 12,92 | $\frac{259}{96}$ |
| $x^{12} + 4x^{10} + 4x^9 + 4x^8 + 4x^7 + 4x^6 + 2x^4 + 4x^3 + 2x^2 + 4x - 2$ | $x^{12} - 12x^{10} - 33x^8 + 414x^6 + 4311x^4 + 20520x^2 + 29241$ | $\left[\begin{array}{ccc} 4 & 4 & 5 \\ 3 & 3 & 3 \end{array} \frac{5}{3} \frac{3}{3} \right]_3^2$ | T: 12,55 | $\frac{109}{48}$ |
| $x^{12} + 4x^{11} - 2x^{10} + 4x^9 + 4x^7 + 4x^6 + 4x^5 + 2x^4 + 4x^3 + 4x - 2$ | $x^{12} - 36x^{10} - 52x^9 + 1243x^8 - 2952x^7 - 2996x^6 - 2096x^5 + 231539x^4 - 1164104x^3 + 2672336x^2 - 3059208x + 1415219$ | $\left[\begin{array}{ccc} 22 & 22 & 22 \\ 9 & 9 & 9 \end{array} \frac{22}{9} \frac{22}{9} \frac{22}{9} \right]_9^6$ | T: 12,166 | $\frac{697}{288}$ |
| $x^{12} - 2x^{10} + 4x^8 + 4x^7 - 2x^6 - 2x^4 - 2x^2 + 4x + 2$ | $x^{12} - 6x^{10} + 19x^8 - 30x^6 + 3x^4 + 22x^2 - 11$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,6 | $\frac{25}{12}$ |
| $x^{12} + 2x^{10} + 4x^9 + 2x^8 + 4x^7 + 2x^6 - 2x^4 + 2x^2 + 4x - 2$ | $x^{12} - 4x^{10} - 7x^8 + 22x^6 + 55x^4 + 44x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \frac{7}{3} \frac{3}{3} \right]_3^2$ | T: 12,92 | $\frac{247}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{12} + 4x^{10} + 4x^9 + 4x^8 + 4x^7 + 4x^6 + 4x^5 + 4x + 2$ | $x^{12} - 4x^{11} - 24x^{10} + 260x^9 + 1474x^8 + 1212x^7 - 5684x^6 - 11824x^5 + 228x^4 + 15648x^3 + 6264x^2 - 9720x - 8100$ | $\left[\begin{array}{c} 22 \\ 9 \end{array} \quad \begin{array}{c} 22 \\ 9 \end{array} \quad \begin{array}{c} 22 \\ 9 \end{array} \quad \begin{array}{c} 22 \\ 9 \end{array} \quad \begin{array}{c} 22 \\ 9 \end{array} \quad \begin{array}{c} 22 \\ 9 \end{array} \right]_9^6$ | T: 12,166 | $\frac{697}{288}$ |
| $x^{12} - 2x^{10} + 4x^9 - 2x^8 + 4x^7 - 2x^6 - 2x^4 + 4x^3 + 4x^2 + 4x - 2$ | $x^{12} - 12x^{10} + 68x^8 - 224x^6 + 420x^4 - 400x^2 + 148$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \quad \begin{array}{c} 4 \\ 3 \end{array} \quad 2 \quad 2 \quad \begin{array}{c} 8 \\ 3 \end{array} \quad \begin{array}{c} 8 \\ 3 \end{array} \right]_3^2$ | T: 12,90 | $\frac{235}{96}$ |
| $x^{12} - 2x^{10} + 8x^9 + 4x^8 + 4x^7 + 2x^6 - 4x^5 + 6x^4 - 4x^3 - 2x^2 + 4x - 6$ | $x^{12} - 12x^8 + 12x^4 - 4$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \quad \begin{array}{c} 4 \\ 3 \end{array} \quad 2 \quad \begin{array}{c} 8 \\ 3 \end{array} \quad \begin{array}{c} 8 \\ 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{259}{96}$ |
| $x^{12} + 4x + 2$ | $x^{12} - 18x^{10} - 60x^9 - 819x^8 - 2628x^7 - 888x^6 - 72x^5 + 46989x^4 + 266584x^3 + 492066x^2 + 1002564x + 2355687$ | $\left[\begin{array}{c} 22 \\ 9 \end{array} \quad \begin{array}{c} 22 \\ 9 \end{array} \quad \begin{array}{c} 22 \\ 9 \end{array} \quad \begin{array}{c} 22 \\ 9 \end{array} \quad \begin{array}{c} 22 \\ 9 \end{array} \quad \begin{array}{c} 22 \\ 9 \end{array} \right]_9^6$ | T: 12,166 | $\frac{697}{288}$ |
| $x^{12} + 4x^{11} + 2x^{10} + 4x^9 + 2x^8 + 4x^6 + 4x^5 + 4x^3 - 2x^2 + 4x - 2$ | $x^{12} - 6x^{10} + 57x^8 + 46x^6 - 39x^4 - 30x^2 + 5$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \quad \begin{array}{c} 4 \\ 3 \end{array} \quad \begin{array}{c} 8 \\ 3 \end{array} \quad \begin{array}{c} 8 \\ 3 \end{array} \quad \begin{array}{c} 8 \\ 3 \end{array} \quad \begin{array}{c} 8 \\ 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-------------------|
| $x^{12} + 4x^{11} + 2x^{10} + 2x^8 + 4x^6 + 2x^4 + 2x^2 + 4x + 2$ | $x^{12} + 8x^{10} - 5x^8 - 56x^6 + 117x^4 - 90x^2 + 27$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{259}{96}$ |
| $x^{12} + 4x^{11} - 2x^{10} + 4x^6 + 4x^5 + 4x^4 - 2x^2 + 4x - 2$ | $x^{12} - 2x^{10} - x^8 + 4x^6 + 7x^4 + 4x^2 + 1$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,7 | $\frac{25}{12}$ |
| $x^{12} + 4x^{11} + 4x^{10} + 4x^9 - 2x^6 + 4x^5 + 4x - 2$ | $x^{12} - 2x^{10} - 41x^8 - 92x^6 - 41x^4 - 2x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,7 | $\frac{7}{3}$ |
| $x^{12} - 4x^{11} - 2x^{10} + 2x^8 + 8x^6 + 8x^5 + 8x^4 - 2x^2 - 4x + 6$ | $x^{12} - 8x^{10} + 35x^8 - 76x^6 + 115x^4 - 22x^2 + 121$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,7 | $\frac{25}{12}$ |
| $x^{12} + 4x^8 + 4x^6 - 2x^4 + 4x^3 + 4x - 2$ | $x^{12} - 36x^{10} - 684x^9 - 1314x^8 - 180x^7 + 1764x^6 + 2304x^5 + 828x^4 - 1240x^3 - 1728x^2 - 1080x - 324$ | $\left[\begin{array}{ccc} 22 & 22 & 22 \\ 9 & 9 & 9 \end{array} \right]_9^6$ | T: 12,166 | $\frac{697}{288}$ |
| $x^{12} + 4x^{11} + 2x^8 + 4x^7 - 2x^6 - 2x^4 + 4x^3 + 4x + 2$ | $x^{12} - 4x^{11} - 4x^{10} + 32x^9 + 26x^8 - 272x^7 + 314x^6 + 224x^5 - 406x^4 - 676x^3 + 1796x^2 - 1532x + 514$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,58 | $\frac{115}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{12} + 4x^{10} + 4x^9 + 2x^8 + 4x^7 - 2x^6 + 2x^4 + 4x^3 - 2x^2 + 4x - 2$ | $x^{12} - 12x^{10} + 61x^8 - 148x^6 + 169x^4 - 74x^2 + 1$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |
| $x^{12} + 4x^{11} + 2x^{10} + 4x^9 + 4x^5 - 2x^4 + 4x^3 - 2x^2 + 4x - 2$ | $x^{12} - 16x^{10} + 59x^8 - 90x^6 + 59x^4 - 16x^2 + 1$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,7 | $\frac{25}{12}$ |
| $x^{12} + 2x^{10} + 4x^9 + 4x^8 - 2x^6 - 2x^4 + 4x^3 - 2x^2 + 4x - 2$ | $x^{12} - 2x^{10} - 15x^8 + 60x^6 - 79x^4 + 44x^2 - 11$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |
| $x^{12} - 2x^{10} + 4x^9 + 2x^8 + 4x^6 + 4x^4 + 4x^3 + 4x + 2$ | $x^{12} - 4x^{11} - 20x^{10} + 88x^9 + 405x^8 - 3044x^7 + 6128x^6 - 1152x^5 - 9155x^4 + 5768x^3 + 3312x^2 - 2732x - 201$ | $\left[\begin{array}{ccc} 22 & 22 & 22 \\ 9 & 9 & 9 \end{array} \right]_9^6 \left[\begin{array}{ccc} 22 & 22 \\ 9 & 9 \end{array} \right]_9$ | T: 12,166 | $\frac{697}{288}$ |
| $x^{12} + 8x^{11} - 2x^{10} - 6x^8 + 8x^7 - 6x^6 + 8x^5 - 6x^4 - 4x^3 + 2x^2 + 4x + 6$ | $x^{12} + 132x^4 - 484$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 8 & 8 \\ 3 & 3 \end{array} \right]_3$ | T: 12,92 | $\frac{259}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{12} + 4x^{11} + 4x^8 + 4x^7 + 2x^6 + 4x^3 + 4x^2 + 4x - 2$ | $x^{12} - 18x^{10} - 36x^9 + 72x^8 + 324x^7 + 150x^6 - 792x^5 - 1242x^4 + 456x^3 + 1332x^2 - 36x - 786$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{235}{96}$ |
| $x^{12} + 4x^{10} + 4x^9 + 2x^8 + 4x^7 - 2x^6 + 2x^4 + 2x^2 + 4x + 2$ | $x^{12} + 6x^{10} + 39x^8 + 162x^6 + 315x^4 + 270x^2 + 81$ | $\left[\begin{array}{ccc} 4 & 4 & 5 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{109}{48}$ |
| $x^{12} + 4x^{11} - 2x^{10} + 4x^7 + 4x^5 + 4x^3 + 4x - 2$ | $x^{12} - 8x^{11} + 36x^{10} + 232x^9 - 463x^8 - 2532x^7 + 1548x^6 + 17024x^5 + 20715x^4 - 5928x^3 - 27772x^2 - 19032x - 4223$ | $\left[\begin{array}{ccc} 22 & 22 & 22 \\ 9 & 9 & 9 \end{array} \right]_9^6$ | T: 12,166 | $\frac{697}{288}$ |
| $x^{12} + 4x^{11} + 4x^{10} + 4x^8 + 4x^7 - 2x^6 - 2x^4 + 4x^3 + 2x^2 + 4x + 2$ | $x^{12} - 8x^{10} + 47x^8 - 184x^6 + 49x^4 + 686x^2 + 343$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{259}{96}$ |
| $x^{12} - 4x^{11} + 4x^{10} + 4x^9 - 4x^8 - 4x^7 + 8x^6 + 4x^5 + 6x^4 - 6x^2 - 4x + 6$ | $x^{12} + 12x^{10} + 61x^8 + 148x^6 + 169x^4 + 74x^2 + 1$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{12} - 2x^{10} + 4x^9 - 2x^8 + 4x^7 + 4x^6 - 2x^4 - 2x^2 + 4x + 2$ | $x^{12} + 2x^{10} - 12x^9 - 82x^8 - 432x^7 - 514x^6 - 1296x^5 - 746x^4 + 6156x^3 + 16982x^2 + 15732x + 4798$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \frac{8}{3} \frac{7}{3} \frac{3}{3} \right]_3^2$ | T: 12,88 | $\frac{259}{96}$ |
| $x^{12} - 4x^{11} + 2x^{10} + 8x^5 - 2x^4 - 4x^3 + 6x^2 + 4x + 6$ | $x^{12} + 6x^{10} + 21x^8 + 50x^6 + 63x^4 + 54x^2 + 27$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \frac{7}{3} \frac{7}{3} \frac{3}{3} \right]_3^2$ | T: 12,88 | $\frac{247}{96}$ |
| $x^{12} + 4x^{11} + 2x^{10} + 4x^9 - 2x^8 + 4x^7 + 4x^6 + 4x^5 - 2x^4 + 4x^2 + 4x - 2$ | $x^{12} - 108x^{10} - 1296x^9 - 11691x^8 - 80028x^7 - 443016x^6 - 2084940x^5 - 7967079x^4 - 24127344x^3 - 55033668x^2 - 80585604x - 55722897$ | $\left[\begin{array}{ccc} 22 & 22 & 22 \\ 9 & 9 & 9 \end{array} \frac{22}{9} \frac{22}{9} \frac{22}{9} \right]_9^6$ | T: 12,166 | $\frac{697}{288}$ |
| $x^{12} + 4x^{11} + 4x^{10} - 2x^8 + 2x^4 + 4x^3 + 2x^2 + 4x - 2$ | $x^{12} + 4x^{10} - 7x^8 - 22x^6 + 55x^4 - 44x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \frac{7}{3} \frac{7}{3} \frac{3}{3} \right]_3^2$ | T: 12,92 | $\frac{247}{96}$ |
| $x^{12} + 8x^{11} + 6x^{10} - 4x^9 + 2x^8 + 6x^6 + 4x^5 + 6x^4 - 4x^3 - 2x^2 - 4x + 6$ | $x^{12} + 6x^{10} + 21x^8 + 56x^6 + 81x^4 + 108x^2 + 9$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \frac{8}{3} \frac{3}{3} \frac{3}{3} \right]_3^2$ | T: 12,55 | $\frac{127}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{12} + 4x^{10} + 4x^9 + 8x^8 + 8x^7 - 4x^6 - 4x^5 + 2x^4 + 2x^2 - 4x + 6$ | $x^{12} + x^8 + 20x^6 + 25x^4 + 10x^2 + 1$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |
| $x^{12} + 4x^{11} + 8x^9 - 4x^7 + 2x^6 - 4x^5 + 2x^4 - 4x^3 + 2x^2 - 4x + 6$ | $x^{12} - 6x^{10} + 21x^8 - 56x^6 + 81x^4 - 108x^2 + 9$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{127}{48}$ |
| $x^{12} + 4x^{10} - 2x^2 + 4x + 2$ | $x^{12} - 6x^{10} + 35x^8 - 72x^6 + 75x^4 - 36x^2 + 9$ | $\left[\begin{array}{ccc} 4 & 4 & 5 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{109}{48}$ |
| $x^{12} - 2x^{10} + 4x^9 + 4x^8 - 2x^6 + 4x^5 + 2x^4 + 2x^2 + 4x - 2$ | $x^{12} - 18x^{10} + 108x^8 - 504x^6 - 432x^4 - 216x^2 - 36$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 7 & 7 & 3 \\ 3 & 3 & 3 \end{array} \right]_3$ | T: 12,88 | $\frac{247}{96}$ |
| $x^{12} + 4x^{10} + 4x^9 + 2x^8 + 4x^6 + 4x^4 + 4x^3 - 2x^2 + 4x - 2$ | $x^{12} - 2x^{10} + 5x^8 - 6x^6 + 5x^4 - 2x^2 + 1$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |
| $x^{12} + 4x^{11} + 4x^7 + 4x^6 + 4x^4 + 4x^2 + 4x - 2$ | $x^{12} - 14x^{10} - 40x^9 - 65x^8 + 208x^7 + 1632x^6 + 3512x^5 + 1651x^4 - 8160x^3 - 23722x^2 - 30240x - 15967$ | $\left[\begin{array}{ccc} 22 & 22 & 22 \\ 9 & 9 & 9 \end{array} \right]_9^6 \left[\begin{array}{ccc} 22 & 22 & 22 \\ 9 & 9 & 9 \end{array} \right]_9$ | T: 12,166 | $\frac{697}{288}$ |

Continued on next page

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|------------------|
| $x^{12} + 4x^{10} + 4x^9 - 2x^8 - 2x^6 + 4x^5 + 4x^4 + 4x^3 - 2x^2 + 4x + 2$ | $x^{12} + 75x^8 - 1400x^6 + 4875x^4 + 2250x^2 + 125$ | $\left[\begin{array}{ccc} 4 & 4 & \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,6 | $\frac{25}{12}$ |
| $x^{12} + 4x^{10} + 4x^9 + 4x^7 - 2x^6 + 4x^2 + 4x + 2$ | $x^{12} - 4x^{11} + 18x^{10} - 48x^9 + 120x^8 - 212x^7 + 318x^6 - 340x^5 + 298x^4 - 172x^3 + 80x^2 - 12x + 2$ | $\left[\begin{array}{ccc} 2 & 8 & \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,7 | $\frac{7}{3}$ |
| $x^{12} + 8x^{11} - 4x^9 - 4x^7 + 2x^6 - 4x^5 - 4x^4 + 8x^3 + 2x^2 + 4x - 6$ | $x^{12} - 8x^{10} - 13x^8 + 198x^6 - 55x^4 - 1100x^2 + 1375$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,9,2 | $\frac{259}{96}$ |
| $x^{12} + 4x^{11} + 2x^8 + 4x^7 - 2x^6 - 2x^4 + 4x^2 + 4x - 2$ | $x^{12} + 32x^6 + 48x^4 + 24x^2 + 4$ | $\left[\begin{array}{ccc} 2 & 8 & \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,7 | $\frac{7}{3}$ |
| $x^{12} + 4x^{11} + 4x^{10} + 4x^9 + 2x^8 + 2x^6 - 2x^4 + 4x^3 + 4x^2 + 4x - 2$ | $x^{12} + 6x^{10} - 44x^9 - 66x^8 + 336x^7 + 286x^6 - 1680x^5 + 1056x^4 + 1560x^3 - 2580x^2 + 1476x - 354$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,5,8 | $\frac{115}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|------------------|
| $x^{12} + 4x^{11} + 2x^{10} + 4x^7 - 2x^6 - 2x^4 + 4x^3 + 4x - 2$ | $x^{12} - 4x^{11} + 6x^{10} - 32x^9 + 118x^8 - 260x^7 + 476x^6 - 984x^5 + 1240x^4 - 1328x^3 + 1504x^2 - 968x + 212$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{29}{12}$ |
| $x^{12} - 2x^{10} + 4x^9 - 2x^8 + 4x^7 + 4x^6 + 2x^4 + 4x^3 + 2x^2 + 4x - 2$ | $x^{12} + 12x^{10} - 33x^8 - 414x^6 + 4311x^4 - 20520x^2 + 29241$ | $\left[\begin{array}{ccc} 4 & 4 & 5 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{109}{48}$ |
| $x^{12} + 8x^{10} - 4x^9 + 4x^8 + 8x^7 - 6x^6 - 4x^5 - 4x^3 - 6x^2 + 4x - 6$ | $x^{12} - 4x^{10} + 5x^8 + 11x^4 - 22x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{247}{96}$ |
| $x^{12} - 2x^{10} + 4x^8 + 4x^7 + 2x^6 + 4x^5 + 4x - 2$ | $x^{12} - 4x^{11} + 4x^{10} + 32x^9 - 129x^8 + 332x^7 - 380x^6 + 524x^5 - 241x^4 + 624x^3 - 112x^2 + 20x - 19$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{235}{96}$ |
| $x^{12} - 2x^{10} + 4x^9 + 4x^8 - 2x^6 + 4x^5 + 4x^4 + 4x^2 + 4x + 2$ | $x^{12} + 132x^4 + 484$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,60 | $\frac{115}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{12} + 4x^{11} + 4x^{10} + 4x^9 + 4x^7 + 4x^6 + 4x^5 + 4x^3 + 4x^2 + 4x + 2$ | $x^{12} - 8x^{11} + 16x^{10} + 64x^9 - 950x^8 + 6072x^7 - 16800x^6 + 1296x^5 + 83788x^4 - 82896x^3 - 293280x^2 + 700128x - 442152$ | $\left[\begin{array}{c} \frac{22}{9} \\ \frac{22}{9} \\ \frac{22}{9} \\ \frac{22}{9} \\ \frac{22}{9} \\ \frac{22}{9} \end{array} \right]_9^6$ | T: 12,166 | $\frac{697}{288}$ |
| $x^{12} + 4x^{11} + 4x^9 + 4x^8 + 4x^7 + 4x^3 + 2x^2 + 4x - 2$ | $x^{12} + 8x^{10} - 13x^8 - 198x^6 - 55x^4 + 1100x^2 + 1375$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ 2 \\ \frac{8}{3} \\ \frac{8}{3} \\ 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{259}{96}$ |
| $x^{12} + 2x^{10} - 2x^8 + 4x^7 - 2x^6 + 4x^5 - 2x^4 + 4x^3 + 4x^2 + 4x + 2$ | $x^{12} - 4x^{11} + 20x^{10} - 48x^9 + 112x^8 - 176x^7 + 230x^6 - 232x^5 + 190x^4 - 112x^3 + 48x^2 - 12x + 2$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ 2 \\ \frac{8}{3} \\ \frac{8}{3} \\ 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{115}{48}$ |
| $x^{12} + 4x^{10} + 4x^6 + 4x^5 + 4x^4 + 4x^3 + 4x + 2$ | $x^{12} - 72x^{10} - 1032x^9 - 6246x^8 - 27684x^7 - 78324x^6 - 183240x^5 - 250524x^4 - 210872x^3 + 243288x^2 + 481032x + 417348$ | $\left[\begin{array}{c} \frac{22}{9} \\ \frac{22}{9} \\ \frac{22}{9} \\ \frac{22}{9} \\ \frac{22}{9} \\ \frac{22}{9} \end{array} \right]_9^6$ | T: 12,166 | $\frac{697}{288}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-------------------|
| $x^{12} + 4x^8 + 4x^7 + 4x^6 + 2x^4 + 4x^2 + 4x + 2$ | $x^{12} - 4x^{11} + 22x^{10} - 84x^9 + 79x^8 - 244x^7 - 220x^6 + 2292x^5 + 1359x^4 - 3272x^3 - 4174x^2 - 1628x - 209$ | $\left[\begin{array}{ccc} 22 & 22 & 22 \\ 9 & 9 & 9 \end{array} \right]_9^6$ | T: 12,166 | $\frac{697}{288}$ |
| $x^{12} - 4x^{11} + 2x^8 - 4x^6 + 8x^3 - 2x^2 - 4x + 6$ | $x^{12} - 18x^{10} + 72x^8 + 192x^6 + 72x^4 - 72x^2 + 12$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{247}{96}$ |
| $x^{12} + 2x^{10} + 4x^9 + 2x^8 + 4x^7 - 2x^6 + 4x^5 + 2x^4 + 4x^3 + 4x + 2$ | $x^{12} - 4x^{11} + 12x^{10} - 20x^9 + 28x^8 - 32x^7 + 26x^6 - 8x^5 - 22x^4 + 24x^3 + 4x^2 - 12x + 2$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,90 | $\frac{235}{96}$ |
| $x^{12} + 4x^{11} + 8x^{10} + 4x^9 - 2x^8 - 4x^7 + 8x^6 + 4x^5 - 4x^4 - 4x^3 + 6x^2 + 4x + 6$ | $x^{12} - 20x^{10} + 179x^8 - 902x^6 + 2685x^4 - 4500x^2 + 3375$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{259}{96}$ |
| $x^{12} + 8x^{11} + 8x^{10} + 6x^8 + 8x^7 + 4x^6 - 4x^5 - 4x^4 - 2x^2 - 4x + 6$ | $x^{12} + 56x^{10} - 4800x^8 + 70368x^6 - 326016x^4 + 247680x^2 + 933120$ | $\left[\begin{array}{ccc} 4 & 4 & 5 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{109}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|------------------|
| $x^{12} + 2x^{10} + 4x^9 - 2x^6 + 4x^3 + 4x + 2$ | $x^{12} - 4x^{11} + 20x^{10} - 56x^9 + 144x^8 - 296x^7 + 542x^6 - 784x^5 + 946x^4 - 944x^3 + 688x^2 - 404x + 158$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{115}{48}$ |
| $x^{12} + 4x^{11} + 4x^7 - 2x^6 + 4x^3 - 2x^2 + 4x + 2$ | $x^{12} + 6x^{10} + 35x^8 + 72x^6 + 75x^4 + 36x^2 + 9$ | $\left[\begin{array}{ccc} 4 & 4 & 5 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{109}{48}$ |
| $x^{12} - 2x^{10} + 4x^9 + 2x^8 + 4x^7 - 4x^6 - 4x^5 + 8x^4 - 4x^3 + 6x^2 + 4x - 6$ | $x^{12} - 80x^{10} + 961x^8 - 3270x^6 + 3369x^4 - 900x^2 + 45$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{127}{48}$ |
| $x^{12} - 4x^{11} + 4x^{10} - 4x^9 - 2x^8 - 2x^6 - 4x^5 - 4x^4 + 4x^3 - 2x^2 + 4x - 6$ | $x^{12} + 8x^{10} + 35x^8 + 76x^6 + 115x^4 + 22x^2 + 121$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,7 | $\frac{25}{12}$ |
| $x^{12} + 2x^{10} + 4x^8 + 4x^6 + 4x^3 - 2x^2 + 4x + 2$ | $x^{12} + 6x^{10} + 24x^8 + 56x^6 + 60x^4 + 24x^2 + 4$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{127}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{12} + 4x^{11} - 2x^{10} + 4x^9 + 4x^8 + 4x^7 + 2x^6 + 2x^2 + 4x - 2$ | $x^{12} + 2x^{10} - x^8 - 10x^6 - 3x^4 + 18x^2 + 27$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{8}{3} \right]_3^2$ | T: 12,88 | $\frac{259}{96}$ |
| $x^{12} + 4x^{11} + 4x^{10} + 4x^9 + 4x^8 + 4x^7 - 2x^6 + 4x^5 - 2x^4 - 2x^2 + 4x - 2$ | $x^{12} + 8x^{10} + 19x^8 - 18x^6 - 165x^4 - 288x^2 - 171$ | $\left[\begin{array}{ccc} 4 & 4 & 5 \\ 3 & 3 & 3 \end{array} \frac{5}{3} \frac{5}{3} \frac{5}{3} \right]_3^2$ | T: 12,55 | $\frac{109}{48}$ |
| $x^{12} + 2x^{10} + 4x^9 - 2x^8 + 2x^6 + 4x^5 + 4x^4 + 4x^3 - 2x^2 + 4x - 2$ | $x^{12} - 6x^{10} + 25x^8 - 132x^6 + 495x^4 - 1100x^2 + 1375$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \frac{7}{3} \frac{7}{3} \frac{7}{3} \right]_3^2$ | T: 12,92 | $\frac{247}{96}$ |
| $x^{12} + 2x^{10} + 4x^9 + 4x^7 - 2x^6 + 2x^4 + 4x^2 + 4x - 2$ | $x^{12} + 18x^{10} + 27x^8 + 84x^6 + 207x^4 + 90x^2 - 75$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{8}{3} \right]_3^2$ | T: 12,87 | $\frac{235}{96}$ |
| $x^{12} + 4x^{11} - 2x^{10} + 4x^8 + 4x^6 + 2x^4 + 4x^3 + 4x^2 + 4x - 2$ | $x^{12} - 4x^{11} + 2x^{10} + 56x^9 + 31x^8 + 120x^7 + 688x^6 + 1736x^5 + 1995x^4 + 372x^3 - 90x^2 + 184x + 97$ | $\left[\begin{array}{ccc} 22 & 22 & 22 \\ 9 & 9 & 9 \end{array} \frac{22}{9} \frac{22}{9} \frac{22}{9} \right]_9^6$ | T: 12,166 | $\frac{697}{288}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-------------------|
| $x^{12} + 4x^{11} - 2x^8 + 4x^7 - 2x^6 + 4x^4 + 4x^3 + 4x^2 + 4x - 2$ | $x^{12} - 4x^{11} - 2x^{10} + 40x^9 - 75x^8 - 80x^7 + 414x^6 - 256x^5 - 515x^4 + 744x^3 - 288x^2 + 72x - 53$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,60 | $\frac{115}{48}$ |
| $x^{12} + 2x^{10} + 4x^9 + 4x^8 + 4x^7 - 2x^6 + 4x^5 + 2x^4 + 4x^3 + 4x + 2$ | $x^{12} - 8x^9 - 12x^8 + 18x^6 + 48x^5 + 72x^4 + 64x^3 + 36x^2 + 12x + 2$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,7 | $\frac{7}{3}$ |
| $x^{12} + 6x^{10} + 8x^9 - 2x^8 - 4x^7 + 4x^5 + 8x^4 + 2x^2 + 4x - 6$ | $x^{12} + 22x^{10} + 253x^8 + 1320x^6 + 3179x^4 + 3388x^2 + 1331$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{247}{96}$ |
| $x^{12} + 4x^{11} - 2x^{10} + 4x^9 + 4x^7 + 4x^6 + 2x^4 + 4x^2 + 4x + 2$ | $x^{12} + 60x^{10} - 376x^9 + 2466x^8 - 10764x^7 + 16968x^6 + 30312x^5 - 285948x^4 + 1023744x^3 - 1980864x^2 + 1937304x - 748500$ | $\left[\begin{array}{ccc} 22 & 22 & 22 \\ 9 & 9 & 9 \end{array} \right]_9^6$ | T: 12,166 | $\frac{697}{288}$ |
| $x^{12} + 4x^8 + 4x^7 + 2x^6 - 2x^4 + 4x^3 + 4x^2 + 4x - 2$ | $x^{12} - 4x^{11} + 32x^{10} - 84x^9 + 297x^8 - 568x^7 + 1154x^6 - 1536x^5 + 1713x^4 - 1284x^3 + 374x^2 - 88x + 19$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{235}{96}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-------------------|
| $x^{12} + 4x^{11} - 2x^{10} + 2x^8 + 4x^7 + 4x^5 + 4x^3 + 2x^2 + 4x - 2$ | $x^{12} + 94x^{10} + 2305x^8 + 17802x^6 + 17409x^4 + 4050x^2 + 45$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{127}{48}$ |
| $x^{12} + 4x^{11} + 2x^{10} + 4x^9 - 2x^8 + 2x^6 + 4x^5 + 4x^4 + 4x + 2$ | $x^{12} - 4x^{11} + 38x^{10} - 184x^9 + 758x^8 - 2408x^7 + 5854x^6 - 9652x^5 + 11708x^4 - 12312x^3 + 18000x^2 - 21452x + 16066$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,58 | $\frac{115}{48}$ |
| $x^{12} + 2x^{10} + 4x^9 + 4x^6 - 2x^4 + 4x + 2$ | $x^{12} - 16x^{10} - 88x^9 - 9x^8 + 2408x^7 - 60x^6 - 19104x^5 + 14587x^4 - 2580x^3 + 9656x^2 - 7392x + 1571$ | $\left[\begin{array}{ccc} 22 & 22 & 22 \\ 9 & 9 & 9 \end{array} \right]_9^6$ | T: 12,166 | $\frac{697}{288}$ |
| $x^{12} + 2x^{10} + 4x^9 - 2x^8 + 4x^7 - 2x^6 + 4x^5 - 2x^4 + 4x^3 + 2x^2 + 4x + 2$ | $x^{12} + 2x^{10} - 15x^8 - 60x^6 - 79x^4 - 44x^2 - 11$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |
| $x^{12} + 4x^{11} + 4x^{10} + 4x^9 + 4x^8 + 2x^6 + 4x^5 - 2x^4 + 4x + 2$ | $x^{12} - 4x^{11} + 8x^{10} - 16x^9 + 30x^8 - 48x^7 + 46x^6 + 4x^5 - 40x^4 + 16x^3 + 8x^2 - 4x - 2$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,90 | $\frac{235}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{12} + 4x^{11} + 2x^{10} + 2x^8 + 4x^7 + 4x^6 + 4x^5 + 4x^4 + 4x^3 - 2x^2 + 4x + 2$ | $x^{12} + 6x^{10} + 57x^8 - 46x^6 - 39x^4 + 30x^2 + 5$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |
| $x^{12} - 4x^{11} - 4x^{10} - 2x^8 - 4x^7 + 4x^6 + 4x^5 - 6x^4 - 4x^3 + 2x^2 + 4x - 6$ | $x^{12} - 8x^{10} + 15x^8 + 6x^6 - 5x^4 - 12x^2 + 1$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,7 | $\frac{25}{12}$ |
| $x^{12} - 2x^{10} + 2x^6 + 4x^3 + 4x + 2$ | $x^{12} - 4x^{11} + 20x^9 - 10x^8 - 88x^7 + 126x^6 + 148x^5 - 272x^4 - 264x^3 + 220x^2 + 396x + 154$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{115}{48}$ |
| $x^{12} - 2x^{10} - 2x^8 - 2x^4 + 4x^3 + 4x - 2$ | $x^{12} - 4x^{11} + 94x^{10} + 92x^9 + 1190x^8 + 9968x^7 + 4676x^6 - 41328x^5 - 28630x^4 + 47684x^3 + 61880x^2 + 14756x - 65590$ | $\left[\begin{array}{ccc} 22 & 22 & 22 \\ 9 & 9 & 9 \end{array} \right]_9^6$ | T: 12,166 | $\frac{697}{288}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-------------------|
| $x^{12} + 8x^{11} + 6x^{10} + 8x^9 + 6x^8 - 6x^4 - 6x^2 - 4x - 6$ | $x^{12} + 8x^{10} + 27x^8 + 44x^6 + 33x^4 + 22x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{259}{96}$ |
| $x^{12} + 4x^7 + 2x^6 + 4x^4 + 4x - 2$ | $x^{12} - 8x^9 - 18x^8 - 24x^7 - 30x^6 - 36x^5 - 54x^4 - 56x^3 - 36x^2 - 12x - 2$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 2 & 3 & 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{29}{12}$ |
| $x^{12} + 4x^{10} + 4x^8 + 4x^7 - 2x^6 + 2x^4 + 2x^2 + 4x + 2$ | $x^{12} - 3x^8 - 6x^6 + 3x^4 - 1$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{247}{96}$ |
| $x^{12} + 4x^{11} - 2x^{10} + 4x^8 - 2x^6 + 2x^4 + 4x^3 + 4x + 2$ | $x^{12} - 4x^{11} - 2x^{10} + 28x^9 - 11x^8 - 200x^7 + 650x^6 - 1032x^5 + 1035x^4 - 692x^3 + 312x^2 - 88x + 13$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 2 & 3 & 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{29}{12}$ |
| $x^{12} + 4x^{10} - 2x^8 + 4x^6 - 2x^4 + 4x^2 + 4x + 2$ | $x^{12} + 12x^{10} - 48x^9 - 22x^8 - 352x^7 + 556x^6 + 1012x^5 + 2882x^4 - 336x^3 - 10212x^2 - 7452x - 1782$ | $\left[\begin{array}{ccc} 22 & 22 & 22 \\ 9 & 9 & 9 \end{array} \right]_9^6$ | T: 12,166 | $\frac{697}{288}$ |
| $x^{12} + 4x^{11} + 8x^9 - 2x^8 - 4x^6 + 8x^5 - 2x^4 + 6x^2 - 4x + 6$ | $x^{12} + 22x^{10} + 121x^8 + 198x^6 - 77x^4 - 242x^2 - 121$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{247}{96}$ |

Continued on next page

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|------------------|
| $x^{12} + 4x^{11} - 2x^{10} + 2x^6 + 2x^4 + 4x^3 + 4x + 2$ | $x^{12} - 4x^{11} + 4x^{10} + 8x^9 - 24x^8 + 8x^7 + 86x^6 - 244x^5 + 388x^4 - 416x^3 + 316x^2 - 156x + 50$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{29}{12}$ |
| $x^{12} - 6x^{10} - 4x^9 + 6x^8 + 4x^7 + 8x^6 + 4x^5 + 8x^3 - 6x^2 + 4x - 6$ | $x^{12} + 18x^{10} + 72x^8 - 192x^6 + 72x^4 + 72x^2 + 12$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{247}{96}$ |
| $x^{12} - 4x^{10} - 4x^9 + 8x^8 - 6x^6 + 8x^4 + 4x^3 - 6x^2 + 4x + 6$ | $x^{12} + 2x^{10} - x^8 - 4x^6 + 7x^4 - 4x^2 + 1$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,7 | $\frac{25}{12}$ |
| $x^{12} + 4x^{11} + 6x^{10} + 4x^9 - 4x^7 + 4x^6 - 4x^4 - 4x^3 - 6x^2 + 4x + 6$ | $x^{12} + 80x^{10} + 961x^8 + 3270x^6 + 3369x^4 + 900x^2 + 45$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{127}{48}$ |
| $x^{12} + 4x^{11} + 4x^{10} + 4x^9 + 2x^8 - 2x^6 + 4x^5 + 4x^4 - 2x^2 + 4x - 2$ | $x^{12} - 6x^{10} + 24x^8 - 56x^6 + 60x^4 - 24x^2 + 4$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{127}{48}$ |
| $x^{12} + 8x^{10} - 4x^9 + 6x^8 - 4x^7 + 4x^6 + 4x^5 + 8x^4 + 8x^3 - 2x^2 + 4x + 6$ | $x^{12} + 4x^{10} - 1085x^8 + 1272x^6 + 6999x^4 + 4590x^2 + 45$ | $\left[\begin{array}{ccc} 4 & 4 & 5 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{109}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|------------------|
| $x^{12} + 8x^{11} + 4x^{10} - 4x^9 + 6x^8 + 8x^7 + 6x^6 + 8x^5 - 6x^4 + 2x^2 + 4x + 6$ | $x^{12} + 16x^{10} + 59x^8 + 90x^6 + 59x^4 + 16x^2 + 1$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,7 | $\frac{25}{12}$ |
| $x^{12} + 4x^{11} + 4x^{10} + 4x^9 + 2x^8 + 4x^7 + 2x^6 + 4x^5 + 4x^3 + 4x^2 + 4x + 2$ | $x^{12} - 44x^{10} - 268x^9 + 343x^8 - 1292x^7 + 2664x^6 - 3260x^5 + 2959x^4 - 1420x^3 + 1668x^2 - 1304x + 749$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{235}{96}$ |
| $x^{12} + 4x^8 + 4x^7 - 2x^6 + 4x^5 + 4x + 2$ | $x^{12} - 4x^{11} + 12x^{10} - 32x^9 + 49x^8 - 52x^7 + 38x^6 + 8x^5 + 15x^4 + 12x^3 + 26x^2 + 8x + 1$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,7 | $\frac{7}{3}$ |
| $x^{12} + 4x^{10} + 4x^9 + 4x^8 + 2x^6 - 2x^4 + 4x^3 + 4x^2 + 4x + 2$ | $x^{12} - 12x^8 + 44x^4 - 44$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{235}{96}$ |
| $x^{12} + 4x^6 - 2x^4 + 4x^3 - 2x^2 + 4x + 2$ | $x^{12} - 8x^{10} + 19x^8 + 18x^6 - 165x^4 + 288x^2 - 171$ | $\left[\begin{array}{ccc} 4 & 4 & 5 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{109}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|------------------|
| $x^{12} + 4x^{11} - 2x^6 + 4x^5 + 4x^3 + 4x + 2$ | $x^{12} - 4x^{11} + 10x^{10} - 72x^9 + 109x^8 - 60x^7 - 50x^6 + 200x^5 - 325x^4 + 380x^3 - 312x^2 + 144x - 27$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \right]_3^2$ | T: 12,87 | $\frac{235}{96}$ |
| $x^{12} - 4x^{11} + 6x^{10} - 4x^9 + 2x^8 - 2x^6 - 4x^5 + 8x^4 - 4x^3 - 2x^2 + 4x + 6$ | $x^{12} + 8x^{10} + 9x^8 + 28x^6 + 195x^4 - 2250x^2 + 3375$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{7}{3} \quad \frac{7}{3} \quad 3 \right]_3^2$ | T: 12,88 | $\frac{247}{96}$ |
| $x^{12} + 2x^{10} + 4x^7 - 2x^6 + 4x^4 + 4x^3 - 2x^2 + 4x + 2$ | $x^{12} + 6x^{10} + 25x^8 + 132x^6 + 495x^4 + 1100x^2 + 1375$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{7}{3} \quad \frac{7}{3} \quad 3 \right]_3^2$ | T: 12,92 | $\frac{247}{96}$ |
| $x^{12} + 2x^{10} + 4x^3 + 2x^2 + 4x - 2$ | $x^{12} - 2x^{10} - 15x^8 - 6x^6 + 97x^4 + 198x^2 + 121$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |
| $x^{12} + 4x^{11} + 4x^{10} + 4x^7 + 2x^6 + 4x^3 + 2x^2 + 4x + 2$ | $x^{12} + 75x^8 + 1400x^6 + 4875x^4 - 2250x^2 + 125$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad \frac{4}{3} \quad 3 \right]_3^2$ | T: 12,6 | $\frac{25}{12}$ |
| $x^{12} + 2x^{10} + 2x^6 + 4x^5 - 2x^4 + 4x + 2$ | $x^{12} + 22x^{10} + 127x^8 + 288x^6 + 183x^4 + 162x^2 - 27$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \right]_3^2$ | T: 12,87 | $\frac{235}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|------------------|
| $x^{12} + 4x^{11} + 2x^{10} + 4x^9 + 2x^6 + 4x^4 + 4x^3 + 4x^2 + 4x + 2$ | $x^{12} + 10x^{10} - 12x^9 + 43x^8 - 68x^7 + 146x^6 - 160x^5 + 199x^4 - 204x^3 + 268x^2 - 192x + 103$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,90 | $\frac{235}{96}$ |
| $x^{12} + 4x^{11} - 4x^{10} + 8x^9 - 4x^8 - 4x^7 - 4x^6 + 4x^4 + 2x^2 - 4x + 6$ | $x^{12} - 4x^{10} - 1085x^8 - 1272x^6 + 6999x^4 - 4590x^2 + 45$ | $\left[\begin{array}{ccc} 4 & 4 & 5 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{109}{48}$ |
| $x^{12} + 2x^{10} - 2x^8 + 4x^6 - 2x^4 + 2x^2 + 4x - 2$ | $x^{12} - 8x^{10} - 5x^8 + 56x^6 + 117x^4 + 90x^2 + 27$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{259}{96}$ |
| $x^{12} + 4x^{10} + 4x^8 + 4x^7 + 2x^6 + 2x^4 + 4x - 2$ | $x^{12} - 4x^{11} + 16x^{10} - 32x^9 + 52x^8 - 72x^7 + 98x^6 - 80x^5 + 102x^4 - 48x^3 + 56x^2 - 12x + 14$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{115}{48}$ |
| $x^{12} - 2x^{10} + 4x^8 - 2x^6 + 2x^4 + 4x^3 + 4x^2 + 4x + 2$ | $x^{12} - 4x^{11} + 12x^{10} - 28x^9 + 57x^8 - 92x^7 + 114x^6 - 104x^5 + 71x^4 - 36x^3 + 14x^2 - 4x + 1$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,7 | $\frac{7}{3}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|------------------|
| $x^{12} + 2x^{10} + 4x^9 + 4x^8 + 4x^7 + 4x^6 - 2x^4 + 2x^2 + 4x - 2$ | $x^{12} + 6x^{10} + 12x^8 + 8x^6 + 36x^4 + 72x^2 - 12$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{127}{48}$ |
| $x^{12} + 4x^{11} + 2x^{10} + 4x^8 + 4x^7 - 2x^6 - 2x^4 + 4x^3 - 2x^2 + 4x + 2$ | $x^{12} + 9x^8 - 48x^6 + 81x^4 - 54x^2 + 9$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{127}{48}$ |
| $x^{12} + 4x^{11} + 2x^{10} + 4x^9 + 4x^7 + 2x^6 + 2x^4 - 2x^2 + 4x - 2$ | $x^{12} - 6x^{10} + 39x^8 - 162x^6 + 315x^4 - 270x^2 + 81$ | $\left[\begin{array}{ccc} 4 & 4 & 5 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{109}{48}$ |
| $x^{12} - 2x^6 + 2x^4 + 4x^3 + 4x - 2$ | $x^{12} + 12x^8 + 12x^4 + 4$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,60 | $\frac{115}{48}$ |
| $x^{12} + 4x^{11} + 2x^{10} - 6x^8 - 4x^7 - 2x^6 + 4x^5 + 8x^4 + 8x^3 + 2x^2 + 4x - 6$ | $x^{12} - 2x^{10} - x^8 + 10x^6 - 3x^4 - 18x^2 + 27$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{259}{96}$ |
| $x^{12} + 4x^{11} - 2x^{10} + 4x^9 + 4x^8 + 4x^6 - 2x^4 + 4x^3 - 2x^2 + 4x - 2$ | $x^{12} - 6x^{10} + 21x^8 - 50x^6 + 63x^4 - 54x^2 + 27$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{247}{96}$ |
| $x^{12} + 4x^{10} + 2x^8 + 4x^5 - 2x^4 + 4x^3 + 2x^2 + 4x + 2$ | $x^{12} + 6x^{10} + 19x^8 + 30x^6 + 3x^4 - 22x^2 - 11$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,6 | $\frac{25}{12}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|------------------|
| $x^{12} + 4x^{11} + 4x^8 + 4x^5 + 4x^3 - 2x^2 + 4x - 2$ | $x^{12} - 94x^{10} + 2305x^8 - 17802x^6 + 17409x^4 - 4050x^2 + 45$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{127}{48}$ |
| $x^{12} + 4x^{11} + 4x^{10} - 2x^6 + 4x^5 - 2x^4 + 4x^3 - 2x^2 + 4x - 2$ | $x^{12} - 6x^{10} + 12x^8 - 8x^6 + 36x^4 - 72x^2 - 12$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{127}{48}$ |
| $x^{12} + 4x^{11} - 2x^{10} + 4x^9 + 4x^8 + 4x^7 + 4x^6 + 4x^5 + 4x^3 - 2x^2 + 4x + 2$ | $x^{12} - 4x^{10} + 31x^8 - 26x^6 + 465x^4 - 900x^2 + 3375$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{259}{96}$ |
| $x^{12} + 4x^{11} + 2x^{10} + 4x^9 + 4x^7 - 2x^6 + 4x^5 - 2x^4 + 4x^2 + 4x - 2$ | $x^{12} - 6x^{10} - 12x^9 + 42x^8 + 204x^7 + 518x^6 + 936x^5 + 1572x^4 + 2112x^3 + 2100x^2 + 1212x + 334$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,58 | $\frac{115}{48}$ |
| $x^{12} + 2x^{10} - 2x^6 + 4x^4 + 4x^3 + 4x - 2$ | $x^{12} - 4x^{11} + 4x^{10} + 8x^9 - 9x^8 + 4x^7 - 38x^6 + 64x^5 + 87x^4 - 20x^3 + 18x^2 - 184x + 103$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{115}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|------------------|
| $x^{12} + 8x^{11} - 4x^{10} + 8x^9 + 4x^8 + 8x^7 + 4x^6 + 4x^5 - 2x^4 - 6x^2 + 4x + 6$ | $x^{12} + 9x^8 + 48x^6 + 81x^4 + 54x^2 + 9$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{127}{48}$ |
| $x^{12} + 2x^{10} + 4x^9 + 2x^8 + 2x^6 + 4x^5 - 2x^4 + 4x^3 + 4x^2 + 4x - 2$ | $x^{12} - 4x^{11} + 4x^{10} - 4x^9 + 30x^8 - 88x^7 + 154x^6 - 212x^5 + 220x^4 - 168x^3 + 132x^2 - 44x + 26$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{115}{48}$ |
| $x^{12} + 4x^9 + 4x^8 + 4x^7 + 4x^5 - 2x^4 + 2x^2 + 4x - 2$ | $x^{12} + x^8 - 20x^6 + 25x^4 - 10x^2 + 1$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |
| $x^{12} - 2x^{10} + 8x^9 + 6x^8 + 4x^7 + 8x^6 + 2x^4 + 4x^3 + 2x^2 + 4x - 6$ | $x^{12} + 8x^{10} + 15x^8 - 6x^6 - 5x^4 + 12x^2 + 1$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,7 | $\frac{25}{12}$ |
| $x^{12} + 4x^{10} + 2x^8 + 4x^7 + 4x^5 + 4x^3 - 2x^2 + 4x - 2$ | $x^{12} - 8x^{10} + 31x^8 - 66x^6 + 77x^4 - 44x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{259}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|------------------|
| $x^{12} - 4x^{11} + 4x^{10} + 8x^9 + 8x^8 + 8x^7 + 4x^6 + 4x^5 - 4x^4 + 4x^3 + 2x^2 + 4x - 6$ | $x^{12} + 2x^{10} - 15x^8 + 6x^6 + 97x^4 - 198x^2 + 121$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |
| $x^{12} + 4x^{11} + 4x^9 - 2x^8 + 2x^6 + 2x^4 + 4x^2 + 4x - 2$ | $x^{12} - 4x^{11} + 16x^{10} - 36x^9 + 63x^8 - 104x^7 + 130x^6 - 112x^5 + 85x^4 - 40x^3 + 18x^2 - 4x + 1$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,7 | $\frac{7}{3}$ |
| $x^{12} + 8x^{11} - 6x^{10} - 4x^9 - 6x^8 + 8x^7 - 4x^6 + 4x^5 - 6x^4 + 4x^3 - 2x^2 - 4x - 6$ | $x^{12} - 88x^4 - 484$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{247}{96}$ |
| $x^{12} + 4x^{11} + 2x^8 + 4x^7 - 2x^6 + 4x^5 + 4x^2 + 4x - 2$ | $x^{12} - 4x^{11} + 8x^{10} - 16x^9 - 7x^8 + 8x^7 - 30x^6 + 108x^5 - 107x^4 + 96x^3 - 118x^2 + 76x - 17$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{115}{48}$ |
| $x^{12} - 4x^{11} + 4x^{10} + 8x^9 + 6x^8 + 8x^7 - 6x^6 + 4x^5 + 2x^2 + 4x + 6$ | $x^{12} + 2x^{10} + 5x^8 + 6x^6 + 5x^4 + 2x^2 + 1$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|------------------|
| $x^{12} + 4x^9 + 2x^6 + 4x^4 + 4x^2 + 4x - 2$ | $x^{12} - 32x^6 + 48x^4 - 24x^2 + 4$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{8}{3} \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,7 | $\frac{7}{3}$ |
| $x^{12} + 2x^{10} + 4x^9 + 2x^6 + 4x^5 + 4x^4 + 4x^3 + 4x^2 + 4x - 2$ | $x^{12} - 4x^{11} - 4x^{10} + 24x^9 + 7x^8 - 56x^7 + 10x^6 + 64x^5 - 37x^4 - 16x^3 + 14x^2 - 1$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & 3 & \frac{8}{3} \\ & & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{115}{48}$ |
| $x^{12} + 2x^6 + 2x^4 + 2x^2 + 2$ | $x^{12} + 22x^{10} + 198x^8 + 880x^6 + 1914x^4 + 1694x^2 + 242$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & 3 & 3 \\ & & \frac{19}{6} \end{array} \right]_3^2$ | T: 12,92 | $\frac{283}{96}$ |
| $x^{12} - 4x^{10} - 6x^8 + 2x^4 + 6x^2 + 2$ | $x^{12} - 18x^8 - 12x^6 + 54x^4 + 162x^2 + 162$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 3 \\ & 3 & \frac{19}{6} \\ & & \frac{19}{6} \end{array} \right]_3^2$ | T: 12,59 | $\frac{139}{48}$ |
| $x^{12} + 2x^{10} + 2x^8 + 2x^6 + 2x^4 + 2x^2 + 2$ | $x^{12} + 6x^{10} + 14x^8 + 18x^6 + 14x^4 + 6x^2 + 2$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 3 \\ & 3 & \frac{19}{6} \\ & & \frac{19}{6} \end{array} \right]_3^2$ | T: 12,59 | $\frac{139}{48}$ |
| $x^{12} - 4x^8 + 2x^6 - 6x^4 + 6x^2 + 2$ | $x^{12} + 22x^{10} + 176x^8 + 594x^6 + 638x^4 - 242x^2 + 242$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 3 \\ & 3 & \frac{19}{6} \\ & & \frac{19}{6} \end{array} \right]_3^2$ | T: 12,61 | $\frac{139}{48}$ |
| $x^{12} + 4x^{10} - 4x^8 - 2x^6 + 6x^4 + 6x^2 - 2$ | $x^{12} + 10x^{10} + 28x^8 + 10x^6 + 2x^4 - 2x^2 - 2$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & 3 & 3 \\ & & \frac{19}{6} \end{array} \right]_3^2$ | T: 12,88 | $\frac{283}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 4x^{10} + 4x^8 - 2x^4 - 2x^2 - 2$ | $x^{12} + 6x^{10} + 16x^8 + 4x^6 - 14x^4 - 10x^2 - 2$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 6 \end{bmatrix} \begin{matrix} 19 \\ 6 \\ 6 \end{matrix} \begin{matrix} 2 \\ 3 \\ 3 \end{matrix}$ | T: 12,59 | $\frac{139}{48}$ |
| $x^{12} - 6x^{10} - 2x^8 - 2x^6 - 6x^4 - 6x^2 + 2$ | $x^{12} + 22x^{10} + 204x^8 + 1024x^6 + 2934x^4 + 4514x^2 + 2738$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 6 \end{bmatrix} \begin{matrix} 19 \\ 6 \\ 6 \end{matrix} \begin{matrix} 2 \\ 3 \\ 3 \end{matrix}$ | T: 12,59 | $\frac{139}{48}$ |
| $x^{12} - 4x^{10} - 4x^8 - 2x^6 + 4x^4 - 6x^2 - 2$ | $x^{12} + 4x^{10} + 4x^8 + 6x^6 + 16x^4 - 2x^2 + 14$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 6 \end{bmatrix} \begin{matrix} 8 & 8 & 3 \\ 3 & 3 & 6 \end{matrix} \begin{matrix} 2 \\ 3 \\ 3 \end{matrix}$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 8x^{10} + 4x^6 - 4x^4 + 6x^2 - 2$ | $x^{12} - 22x^{10} + 166x^8 - 278x^6 - 1500x^4 + 3150x^2 + 6750$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 6 \end{bmatrix} \begin{matrix} 8 & 8 & 3 \\ 3 & 3 & 6 \end{matrix} \begin{matrix} 2 \\ 3 \\ 3 \end{matrix}$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} - 2x^{10} - 2x^8 - 2x^6 + 4x^4 - 2x^2 - 2$ | $x^{12} - 4x^{10} + 4x^8 + 8x^4 - 22x^2 + 14$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 6 \end{bmatrix} \begin{matrix} 8 & 8 & 3 \\ 3 & 3 & 6 \end{matrix} \begin{matrix} 2 \\ 3 \\ 3 \end{matrix}$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 6x^{10} + 2x^8 + 6x^6 - 6x^4 - 6x^2 + 6$ | $x^{12} + 2x^{10} - 4x^8 - 16x^6 - 2x^4 - 22x^2 + 22$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 6 \end{bmatrix} \begin{matrix} 19 \\ 6 \\ 6 \end{matrix} \begin{matrix} 2 \\ 3 \\ 3 \end{matrix}$ | T: 12,59 | $\frac{139}{48}$ |
| $x^{12} + 4x^{10} + 2x^8 + 2x^4 - 2x^2 + 2$ | $x^{12} - 18x^{10} + 78x^8 - 156x^6 + 156x^4 - 72x^2 + 8$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 6 \end{bmatrix} \begin{matrix} 19 \\ 6 \\ 6 \end{matrix} \begin{matrix} 2 \\ 3 \\ 3 \end{matrix}$ | T: 12,59 | $\frac{139}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 4x^{10} - 4x^8 - 2x^6 - 2x^4 + 6x^2 + 6$ | $x^{12} - 4x^{10} + 6x^8 - 4x^6 - 76x^4 + 88$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 19 & 19 \\ & 6 & 6 \end{array} \right]_3^2$ | T: 12,88 | $\frac{283}{96}$ |
| $x^{12} + 2x^2 + 2$ | $x^{12} - 2x^{10} + 18x^8 - 94x^6 + 240x^4 - 286x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ & 19 & 19 \\ & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 6x^8 + 4x^6 + 8x^4 - 2x^2 - 6$ | $x^{12} - 2x^8 - 12x^6 - 50x^2 + 250$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ & 19 & 19 \\ & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} - 2x^6 + 4x^4 + 2x^2 + 2$ | $x^{12} - 2x^{10} + 2x^8 - 4x^6 + 4x^4 - 2x^2 + 2$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ & 19 & 19 \\ & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 4x^{10} + 4x^8 - 2x^2 - 2$ | $x^{12} + 6x^{10} + 20x^8 + 36x^6 + 44x^4 + 30x^2 + 14$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ & 19 & 19 \\ & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} - 4x^{10} + 8x^8 + 6x^6 + 8x^4 - 6x^2 - 2$ | $x^{12} - 4x^{10} + 4x^8 - 6x^6 + 16x^4 + 2x^2 + 14$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ & 19 & 19 \\ & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} - 4x^{10} - 6x^6 - 2x^4 - 2x^2 - 6$ | $x^{12} - 6x^{10} + 12x^8 - 2x^6 - 18x^4 + 18x^2 - 6$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 19 & 19 \\ & 6 & 6 \end{array} \right]_3^2$ | T: 12,88 | $\frac{283}{96}$ |
| $x^{12} + 4x^{10} + 2x^8 + 2x^2 - 2$ | $x^{12} - 10x^{10} + 42x^8 - 92x^6 + 108x^4 - 62x^2 + 14$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ & 19 & 19 \\ & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 8x^{10} + 8x^8 - 2x^6 + 4x^4 + 2x^2 - 6$ | $x^{12} - 14x^{10} + 76x^8 - 206x^6 + 320x^4 - 350x^2 + 250$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 8x^4 - 2x^2 + 6$ | $x^{12} + 10x^{10} + 40x^8 + 80x^6 + 96x^4 + 90x^2 + 54$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} - 2x^{10} + 6x^8 + 6x^6 + 6x^4 - 6x^2 + 6$ | $x^{12} - 18x^{10} + 126x^8 - 426x^6 + 702x^4 - 486x^2 + 54$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,92 | $\frac{283}{96}$ |
| $x^{12} - 2x^{10} - 2x^8 + 2x^6 + 4x^4 - 2x^2 + 2$ | $x^{12} - 20x^{10} + 202x^8 - 1594x^6 + 9480x^4 - 32850x^2 + 47250$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} - 2x^8 - 4x^6 + 6x^4 + 6x^2 - 6$ | $x^{12} + 6x^{10} + 30x^8 + 92x^6 + 18x^4 - 18x^2 - 6$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,88 | $\frac{283}{96}$ |
| $x^{12} - 4x^{10} - 4x^8 - 2x^6 - 6x^2 - 2$ | $x^{12} + 4x^{10} + 24x^8 + 2x^6 + 420x^4 + 1350x^2 + 6750$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 8x^{10} + 4x^6 + 4x^4 - 6x^2 - 6$ | $x^{12} + 10x^{10} + 54x^8 + 178x^6 + 380x^4 + 450x^2 + 250$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 4x^{10} + 4x^8 + 4x^6 + 4x^4 - 2x^2 - 2$ | $x^{12} - 6x^{10} + 20x^8 - 36x^6 + 44x^4 - 30x^2 + 14$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 4x^{10} + 2x^8 - 4x^6 + 8x^4 + 6x^2 + 2$ | $x^{12} + 44x^{10} + 776x^8 + 6842x^6 + 30540x^4 + 61650x^2 + 47250$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} - 4x^{10} + 4x^6 + 2x^4 + 6x^2 - 2$ | $x^{12} + 2x^{10} - 10x^8 - 6x^6 + 38x^4 - 22x^2 - 2$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,88 | $\frac{283}{96}$ |
| $x^{12} + 8x^{10} + 8x^4 + 2x^2 - 6$ | $x^{12} - 10x^{10} + 54x^8 - 178x^6 + 380x^4 - 450x^2 + 250$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 4x^8 + 4x^6 - 2x^4 + 2x^2 + 2$ | $x^{12} - 22x^{10} + 132x^8 - 44x^6 - 66x^4 - 242x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,92 | $\frac{283}{96}$ |
| $x^{12} + 2x^8 + 2x^4 + 2x^2 - 2$ | $x^{12} + 30x^{10} - 450x^8 - 13500x^6 + 101250x^4 + 1518750x^2 - 22781250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,92 | $\frac{283}{96}$ |
| $x^{12} - 2x^2 - 2$ | $x^{12} - 10x^{10} + 64x^8 + 148x^6 - 1380x^4 - 450x^2 + 6750$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 6x^{10} - 6x^8 - 6x^6 + 6x^2 - 6$ | $x^{12} - 18x^{10} + 144x^8 - 616x^6 + 1380x^4 - 1242x^2 + 378$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} - 4x^{10} + 2x^8 + 4x^6 - 2x^4 + 6x^2 - 6$ | $x^{12} + 4x^{10} + 4x^8 - 22x^6 - 66x^4 - 66x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,92 | $\frac{283}{96}$ |
| $x^{12} - 4x^{10} - 2x^8 - 4x^4 - 2x^2 - 6$ | $x^{12} - 2x^8 + 12x^6 + 50x^2 + 250$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} - 2x^{10} - 2x^8 - 2x^6 + 2x^4 + 2x^2 - 2$ | $x^{12} - 36x^8 + 132x^6 - 162x^4 + 54x^2 - 18$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,61 | $\frac{139}{48}$ |
| $x^{12} + 6x^{10} - 2x^8 - 2x^6 + 2x^4 - 6x^2 - 2$ | $x^{12} - 6x^{10} + 6x^8 + 10x^6 + 6x^4 - 42x^2 - 2$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,61 | $\frac{139}{48}$ |
| $x^{12} + 6x^{10} + 2x^8 + 2x^6 + 4x^4 - 2x^2 - 6$ | $x^{12} + 14x^{10} + 74x^8 + 194x^6 + 340x^4 + 350x^2 + 250$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 8x^6 - 6x^2 + 2$ | $x^{12} - 4x^{10} + 10x^8 - 14x^6 + 12x^4 - 6x^2 + 2$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 2x^{10} + 6x^8 - 2x^6 - 2x^4 - 6x^2 + 2$ | $x^{12} - 4x^{10} - 20x^9 - 41x^8 - 44x^7 + 38x^6 + 184x^5 + 239x^4 + 160x^3 + 60x^2 + 12x + 1$ | $\begin{bmatrix} 4 & 4 & 2 & 3 & 19 \\ 3 & 3 & 3 & 3 & 6 \end{bmatrix}_3^2$ | T: 12,88 | $\frac{283}{96}$ |
| $x^{12} - 6x^{10} - 6x^8 - 2x^6 + 6x^4 - 6x^2 - 6$ | $x^{12} - 8x^{10} + 16x^8 - 22x^4 + 22x^2 - 22$ | $\begin{bmatrix} 4 & 4 & 2 & 3 & 19 \\ 3 & 3 & 3 & 3 & 6 \end{bmatrix}_3^2$ | T: 12,92 | $\frac{283}{96}$ |
| $x^{12} + 8x^{10} - 4x^6 + 4x^4 - 2x^2 + 6$ | $x^{12} - 10x^{10} + 40x^8 - 80x^6 + 96x^4 - 90x^2 + 54$ | $\begin{bmatrix} 4 & 4 & 8 & 3 & 3 & 19 \\ 3 & 3 & 3 & 3 & 6 & 6 \end{bmatrix}_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 4x^{10} + 2x^8 + 2x^2 + 6$ | $x^{12} + 22x^{10} + 198x^8 + 924x^6 + 2464x^4 + 3630x^2 + 2662$ | $\begin{bmatrix} 4 & 4 & 8 & 3 & 3 & 19 \\ 3 & 3 & 3 & 3 & 6 & 6 \end{bmatrix}_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} - 4x^{10} + 2x^8 - 6x^4 - 2x^2 - 6$ | $x^{12} - 6x^{10} + 30x^8 - 92x^6 + 18x^4 + 18x^2 - 6$ | $\begin{bmatrix} 4 & 4 & 3 & 3 & 19 \\ 3 & 3 & 3 & 3 & 6 \end{bmatrix}_3^2$ | T: 12,59 | $\frac{139}{48}$ |
| $x^{12} - 2x^{10} - 2x^8 + 6x^6 + 4x^4 - 2x^2 + 6$ | $x^{12} - 8x^{10} + 30x^8 - 66x^6 + 88x^4 - 66x^2 + 22$ | $\begin{bmatrix} 4 & 4 & 8 & 3 & 3 & 19 \\ 3 & 3 & 3 & 3 & 6 & 6 \end{bmatrix}_3^2$ | T: 12,188 | $\frac{1183}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 4x^{10} + 6x^8 + 4x^6 + 6x^4 - 6x^2 - 2$ | $x^{12} + 190x^{10} + 11562x^8 + 206240x^6 - 475650x^4 + 35169750x^2 - 428321250$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 3 \end{bmatrix} \begin{matrix} 19 \\ 6 \\ 6 \end{matrix} \begin{matrix} 19 \\ 6 \\ 6 \end{matrix} \begin{matrix} 2 \\ 3 \end{matrix}$ | T: 12,61 | $\frac{139}{48}$ |
| $x^{12} - 2x^{10} - 2x^8 + 2x^6 + 4x^4 - 2x^2 - 6$ | $x^{12} + 20x^{10} + 178x^8 + 856x^6 + 2244x^4 + 2952x^2 + 1512$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 3 \end{bmatrix} \begin{matrix} 8 \\ 3 \\ 3 \end{matrix} \begin{matrix} 3 \\ 3 \\ 3 \end{matrix} \begin{matrix} 19 \\ 6 \\ 6 \end{matrix} \begin{matrix} 19 \\ 6 \\ 6 \end{matrix} \begin{matrix} 2 \\ 3 \end{matrix}$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} - 2x^6 - 4x^4 - 6x^2 + 2$ | $x^{12} + 16x^{10} + 96x^8 + 278x^6 + 432x^4 + 374x^2 + 242$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 3 \end{bmatrix} \begin{matrix} 8 \\ 3 \\ 3 \end{matrix} \begin{matrix} 3 \\ 3 \\ 3 \end{matrix} \begin{matrix} 19 \\ 6 \\ 6 \end{matrix} \begin{matrix} 19 \\ 6 \\ 6 \end{matrix} \begin{matrix} 2 \\ 3 \end{matrix}$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 4x^{10} + 8x^8 + 6x^6 + 4x^4 + 2x^2 + 6$ | $x^{12} + 4x^{10} + 10x^8 + 8x^6 + 12x^4 + 18x^2 + 54$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 3 \end{bmatrix} \begin{matrix} 8 \\ 3 \\ 3 \end{matrix} \begin{matrix} 3 \\ 3 \\ 3 \end{matrix} \begin{matrix} 19 \\ 6 \\ 6 \end{matrix} \begin{matrix} 19 \\ 6 \\ 6 \end{matrix} \begin{matrix} 2 \\ 3 \end{matrix}$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 6x^{10} - 6x^8 + 6x^6 + 6x^4 - 6x^2 + 6$ | $x^{12} - 2x^{10} - 4x^8 + 16x^6 - 2x^4 + 22x^2 + 22$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 3 \end{bmatrix} \begin{matrix} 4 \\ 2 \\ 3 \end{matrix} \begin{matrix} 3 \\ 3 \\ 3 \end{matrix} \begin{matrix} 19 \\ 6 \\ 6 \end{matrix} \begin{matrix} 19 \\ 6 \\ 6 \end{matrix} \begin{matrix} 2 \\ 3 \end{matrix}$ | T: 12,88 | $\frac{283}{96}$ |
| $x^{12} + 4x^{10} + 4x^8 + 6x^4 + 6x^2 - 2$ | $x^{12} - 2x^{10} - 10x^8 + 6x^6 + 38x^4 + 22x^2 - 2$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 3 \end{bmatrix} \begin{matrix} 4 \\ 3 \\ 3 \end{matrix} \begin{matrix} 3 \\ 3 \\ 3 \end{matrix} \begin{matrix} 19 \\ 6 \\ 6 \end{matrix} \begin{matrix} 19 \\ 6 \\ 6 \end{matrix} \begin{matrix} 2 \\ 3 \end{matrix}$ | T: 12,59 | $\frac{139}{48}$ |
| $x^{12} + 8x^{10} - 6x^8 + 8x^6 - 6x^4 + 2x^2 + 6$ | $x^{12} + 30x^{10} - 2200x^8 - 160250x^6 - 4121250x^4 - 52368750x^2 - 289406250$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 3 \end{bmatrix} \begin{matrix} 4 \\ 2 \\ 3 \end{matrix} \begin{matrix} 3 \\ 3 \\ 3 \end{matrix} \begin{matrix} 19 \\ 6 \\ 6 \end{matrix} \begin{matrix} 19 \\ 6 \\ 6 \end{matrix} \begin{matrix} 2 \\ 3 \end{matrix}$ | T: 12,92 | $\frac{283}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 8x^{10} - 2x^6 - 6x^4 - 2x^2 + 6$ | $x^{12} - 44x^{10} - 974x^8 + 85580x^6 - 1757700x^4 + 14994000x^2 - 46305000$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,61 | $\frac{139}{48}$ |
| $x^{12} + 6x^{10} - 2x^8 + 6x^6 + 4x^4 + 6x^2 + 6$ | $x^{12} - 22x^8 - 22x^6 + 176x^4 + 726x^2 + 2662$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} - 4x^{10} + 2x^8 - 4x^6 - 2x^2 - 6$ | $x^{12} - 10x^{10} + 64x^8 - 254x^6 + 612x^4 - 738x^2 + 378$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 4x^6 + 4x^4 - 2x^2 - 2$ | $x^{12} + 30x^{10} + 356x^8 + 2084x^6 + 6480x^4 + 10350x^2 + 6750$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 8x^{10} + 4x^8 + 6x^6 - 6x^4 + 6x^2 - 2$ | $x^{12} - 10x^{10} + 28x^8 - 10x^6 + 2x^4 + 2x^2 - 2$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,59 | $\frac{139}{48}$ |
| $x^{12} - 6x^{10} + 2x^8 - 2x^6 + 2x^4 + 2x^2 - 6$ | $x^{12} + 8x^{10} + 16x^8 - 22x^4 - 22x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,61 | $\frac{139}{48}$ |
| $x^{12} + 2x^{10} - 2x^8 + 6x^6 + 2x^4 + 2x^2 - 6$ | $x^{12} - 8x^{10} + 46x^8 - 204x^6 + 500x^4 - 608x^2 + 296$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,59 | $\frac{139}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 2x^{10} - 2x^8 - 2x^6 - 2x^4 + 2x^2 + 2$ | $x^{12} + 8x^{10} + 40x^8 + 148x^6 + 306x^4 + 270x^2 + 50$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{c} 19 \\ 6 \end{array} \left. \vphantom{\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,88 | $\frac{283}{96}$ |
| $x^{12} - 4x^{10} + 4x^8 - 2x^6 + 8x^4 + 2x^2 + 6$ | $x^{12} - 4x^{10} + 10x^8 - 8x^6 + 12x^4 - 18x^2 + 54$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{c} 3 \\ 3 \\ 3 \end{array} \begin{array}{c} 19 \\ 6 \\ 6 \end{array} \left. \vphantom{\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 2x^{10} + 2x^8 + 2x^6 - 2x^2 + 2$ | $x^{12} - 4x^{11} - 2x^{10} + 92x^9 - 192x^8 - 316x^7 + 2874x^6 - 2796x^5 - 8544x^4 + 35308x^3 - 10078x^2 - 65576x + 157526$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{c} 3 \\ 3 \\ 3 \end{array} \begin{array}{c} 19 \\ 6 \\ 6 \end{array} \left. \vphantom{\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} - 4x^{10} + 4x^6 + 6x^4 + 2x^2 - 6$ | $x^{12} - 34x^{10} + 436x^8 - 2768x^6 + 9534x^4 - 18522x^2 + 18522$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{c} 19 \\ 6 \\ 6 \end{array} \left. \vphantom{\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,88 | $\frac{283}{96}$ |
| $x^{12} + 4x^8 - 2x^6 + 2x^4 - 2x^2 - 2$ | $x^{12} + 4x^{10} - 10x^8 + 6x^4 + 2x^2 - 2$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{c} 19 \\ 6 \\ 6 \end{array} \left. \vphantom{\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,59 | $\frac{139}{48}$ |
| $x^{12} + 8x^{10} + 4x^8 + 6x^6 + 8x^4 - 6x^2 - 6$ | $x^{12} + 14x^{10} + 76x^8 + 206x^6 + 320x^4 + 350x^2 + 250$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{c} 3 \\ 3 \\ 3 \end{array} \begin{array}{c} 19 \\ 6 \\ 6 \end{array} \left. \vphantom{\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 4x^6 + 4x^4 + 2x^2 + 2$ | $x^{12} + 4x^{10} + 10x^8 + 14x^6 + 12x^4 + 6x^2 + 2$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{c} 3 \\ 3 \\ 3 \end{array} \begin{array}{c} 19 \\ 6 \\ 6 \end{array} \left. \vphantom{\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,188 | $\frac{1183}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 4x^{10} + 8x^8 + 6x^6 + 6x^4 - 2x^2 + 6$ | $x^{12} + 100x^{10} + 2750x^8 - 27500x^6 - 2651250x^4 - 46856250x^2 - 289406250$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & \frac{19}{6} \end{array} \right]_3^2$ | T: 12,92 | $\frac{283}{96}$ |
| $x^{12} + 8x^{10} + 4x^8 - 4x^6 - 6x^4 + 6x^2 + 6$ | $x^{12} + 12x^{10} + 66x^8 + 202x^6 + 342x^4 + 270x^2 + 54$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & \frac{19}{6} \end{array} \right]_3^2$ | T: 12,92 | $\frac{283}{96}$ |
| $x^{12} + 2x^{10} - 2x^8 - 6x^6 - 2x^2 - 6$ | $x^{12} - 14x^{10} + 74x^8 - 194x^6 + 340x^4 - 350x^2 + 250$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 8 & 3 \\ & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 19 & 19 & 3 \\ 6 & 6 & 3 \end{array} \right]_3$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 2x^6 + 2x^2 + 2$ | $x^{12} + 2x^{10} + 2x^8 + 4x^6 + 4x^4 + 2x^2 + 2$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 8 & 3 \\ & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 19 & 19 & 3 \\ 6 & 6 & 3 \end{array} \right]_3$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 2x^4 + 2x^2 + 2$ | $x^{12} - 18x^{10} + 96x^8 - 120x^6 + 66x^4 - 18x^2 + 2$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \\ & 3 & \frac{19}{6} \end{array} \right]_3^2$ | T: 12,61 | $\frac{139}{48}$ |
| $x^{12} + 4x^6 - 4x^4 - 6x^2 + 2$ | $x^{12} + 2x^{10} + 18x^8 + 94x^6 + 240x^4 + 286x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 8 & 3 \\ & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 19 & 19 & 3 \\ 6 & 6 & 3 \end{array} \right]_3$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 2x^{10} - 6x^8 - 6x^6 - 2x^2 - 6$ | $x^{12} - 14x^{10} + 86x^8 - 266x^6 + 456x^4 - 522x^2 + 378$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 8 & 3 \\ & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 19 & 19 & 3 \\ 6 & 6 & 3 \end{array} \right]_3$ | T: 12,188 | $\frac{1183}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 4x^8 + 2x^6 + 2x^4 - 2x^2 + 2$ | $x^{12} - 4x^{11} - 20x^{10} + 92x^9 + 161x^8 - 1020x^7 - 12x^6 + 5096x^5 - 5119x^4 - 9184x^3 + 21658x^2 - 15000x + 3257$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 19 \\ 6 \end{array} \left. \right]^2_3$ | T: 12,61 | $\frac{139}{48}$ |
| $x^{12} + 4x^{10} + 4x^8 + 2x^6 - 2x^4 - 2x^2 + 2$ | $x^{12} - 22x^{10} + 176x^8 - 594x^6 + 638x^4 + 242x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 19 \\ 6 \end{array} \left. \right]^2_3$ | T: 12,92 | $\frac{283}{96}$ |
| $x^{12} + 8x^{10} + 8x^8 + 8x^6 - 2x^4 + 6x^2 + 6$ | $x^{12} - 12x^{10} + 66x^8 - 202x^6 + 342x^4 - 270x^2 + 54$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 19 \\ 6 \end{array} \left. \right]^2_3$ | T: 12,61 | $\frac{139}{48}$ |
| $x^{12} + 4x^8 + 6x^6 + 2x^4 + 6x^2 + 6$ | $x^{12} + 4x^{10} + 6x^8 + 4x^6 - 76x^4 + 88$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 19 \\ 6 \end{array} \left. \right]^2_3$ | T: 12,59 | $\frac{139}{48}$ |
| $x^{12} + 2x^8 + 8x^6 + 2x^4 - 6x^2 - 2$ | $x^{12} - 50x^{10} - 92x^9 + 1067x^8 + 3356x^7 - 8938x^6 - 48664x^5 - 5953x^4 + 306352x^3 + 439498x^2 - 581244x - 1488983$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 19 \\ 6 \end{array} \left. \right]^2_3$ | T: 12,92 | $\frac{283}{96}$ |
| $x^{12} - 2x^6 + 2x^2 + 2$ | $x^{12} - 2x^{10} - 44x^8 - 574x^6 + 5880x^4 - 16650x^2 + 47250$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 19 \\ 6 \end{array} \left. \right]^2_3$ | T: 12,188 | $\frac{1183}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 6x^{10} + 6x^8 + 6x^6 + 6x^2 + 6$ | $x^{12} - 20x^{10} + 154x^8 - 568x^6 + 1020x^4 - 792x^2 + 216$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix} \begin{matrix} 19 \\ 6 \\ 6 \end{matrix} \begin{matrix} 2 \\ 3 \end{matrix}$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 4x^{10} + 6x^6 - 4x^4 - 6x^2 - 2$ | $x^{12} - 14x^{10} + 98x^8 - 476x^6 + 2160x^4 - 4950x^2 + 6750$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix} \begin{matrix} 19 \\ 6 \\ 6 \end{matrix} \begin{matrix} 2 \\ 3 \end{matrix}$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 4x^{10} + 4x^8 + 8x^6 - 6x^4 - 6x^2 - 6$ | $x^{12} + 34x^{10} + 436x^8 + 2768x^6 + 9534x^4 + 18522x^2 + 18522$ | $\begin{bmatrix} 4 & 4 & 3 & 19 \\ 3 & 3 & 3 & 6 \end{bmatrix} \begin{matrix} 19 \\ 6 \\ 6 \end{matrix} \begin{matrix} 2 \\ 3 \end{matrix}$ | T: 12,59 | $\frac{139}{48}$ |
| $x^{12} + 2x^{10} - 6x^8 - 2x^6 + 6x^2 + 6$ | $x^{12} + 8x^{10} + 30x^8 + 66x^6 + 88x^4 + 66x^2 + 22$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix} \begin{matrix} 19 \\ 6 \\ 6 \end{matrix} \begin{matrix} 2 \\ 3 \end{matrix}$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} - 4x^{10} + 6x^8 - 4x^6 - 4x^4 + 2x^2 + 6$ | $x^{12} + 12x^{10} + 62x^8 + 164x^6 + 228x^4 + 162x^2 + 54$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix} \begin{matrix} 19 \\ 6 \\ 6 \end{matrix} \begin{matrix} 2 \\ 3 \end{matrix}$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 4x^{10} + 2x^8 + 8x^6 - 6x^2 + 6$ | $x^{12} + 4x^{10} + 2x^8 - 22x^2 + 22$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix} \begin{matrix} 19 \\ 6 \\ 6 \end{matrix} \begin{matrix} 2 \\ 3 \end{matrix}$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 4x^{10} + 4x^8 + 2x^2 + 2$ | $x^{12} - 14x^{10} + 170x^8 - 1298x^6 + 7080x^4 - 24750x^2 + 47250$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix} \begin{matrix} 19 \\ 6 \\ 6 \end{matrix} \begin{matrix} 2 \\ 3 \end{matrix}$ | T: 12,188 | $\frac{1183}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 4x^8 - 2x^6 + 4x^4 - 6x^2 + 2$ | $x^{12} + 36x^{10} + 566x^8 + 4924x^6 + 22740x^4 + 45450x^2 + 47250$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} - 6x^8 + 4x^4 + 6x^2 - 6$ | $x^{12} - 14x^{10} + 90x^8 - 316x^6 + 648x^4 - 666x^2 + 378$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 8x^{10} + 8x^8 - 6x^4 + 2x^2 - 6$ | $x^{12} - 2x^{10} - 10x^8 + 44x^6 - 44x^4 + 88x^2 - 88$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,61 | $\frac{139}{48}$ |
| $x^{12} + 4x^{10} + 4x^8 - 6x^6 + 6x^4 + 6x^2 - 6$ | $x^{12} + 18x^{10} + 114x^8 + 308x^6 + 242x^4 + 22x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,92 | $\frac{283}{96}$ |
| $x^{12} + 8x^{10} + 6x^8 + 4x^6 - 2x^4 + 6x^2 + 2$ | $x^{12} + 18x^{10} + 78x^8 + 156x^6 + 156x^4 + 72x^2 + 8$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,88 | $\frac{283}{96}$ |
| $x^{12} + 8x^6 + 6x^2 - 2$ | $x^{12} - 16x^{10} + 74x^8 + 74x^6 - 1200x^4 + 450x^2 + 6750$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} - 6x^{10} - 6x^8 - 2x^6 - 2x^2 + 6$ | $x^{12} - 22x^8 + 22x^6 + 176x^4 - 726x^2 + 2662$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 6x^8 - 4x^6 - 4x^4 - 6x^2 - 2$ | $x^{12} + 10x^{10} + 42x^8 + 92x^6 + 108x^4 + 62x^2 + 14$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} - 4x^{10} - 2x^8 + 4x^6 - 2x^4 + 2x^2 + 6$ | $x^{12} - 456x^{10} - 220x^9 + 88251x^8 + 30320x^7 - 9327826x^6 + 1823304x^5 + 534056063x^4 - 469054404x^3 - 12872673556x^2 + 17316944580x - 20923063675$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,61 | $\frac{139}{48}$ |
| $x^{12} - 4x^{10} + 2x^8 + 4x^6 + 6x^2 - 6$ | $x^{12} - 16x^{10} + 104x^8 - 358x^6 + 708x^4 - 774x^2 + 378$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} - 6x^{10} + 6x^8 + 6x^6 + 6x^4 - 6x^2 - 6$ | $x^{12} + 24x^{10} + 218x^8 + 1138x^6 + 3822x^4 + 6174x^2 + 18522$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,88 | $\frac{283}{96}$ |
| $x^{12} - 2x^{10} - 2x^8 - 2x^6 - 2x^4 + 2x^2 - 2$ | $x^{12} - 36x^8 - 132x^6 - 162x^4 - 54x^2 - 18$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,92 | $\frac{283}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 4x^{10} - 2x^8 + 4x^6 - 2x^4 + 2x^2 - 2$ | $x^{12} - 16x^{10} + 106x^8 - 320x^6 + 250x^4 + 750x^2 - 1250$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 6 \end{bmatrix} \begin{bmatrix} 19 & 19 \\ 6 & 6 \end{bmatrix}^2_3$ | T: 12,61 | $\frac{139}{48}$ |
| $x^{12} + 8x^{10} - 4x^8 + 2x^6 + 2x^4 - 2x^2 - 6$ | $x^{12} - 18x^{10} + 114x^8 - 308x^6 + 242x^4 - 22x^2 - 22$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 6 \end{bmatrix} \begin{bmatrix} 19 & 19 \\ 6 & 6 \end{bmatrix}^2_3$ | T: 12,61 | $\frac{139}{48}$ |
| $x^{12} + 4x^{10} + 4x^8 - 2x^6 + 2x^2 - 2$ | $x^{12} - 22x^{10} + 214x^8 - 1184x^6 + 3960x^4 - 7650x^2 + 6750$ | $\begin{bmatrix} 4 & 4 & 8 \\ 3 & 3 & 3 \end{bmatrix} \begin{bmatrix} 8 & 19 \\ 3 & 6 \end{bmatrix}^2_3$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} - 4x^{10} - 4x^8 + 8x^6 - 2x^4 - 2x^2 + 6$ | $x^{12} + 10x^{10} + 54x^8 + 156x^6 + 268x^4 + 264x^2 + 88$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 6 \end{bmatrix} \begin{bmatrix} 19 & 19 \\ 6 & 6 \end{bmatrix}^2_3$ | T: 12,59 | $\frac{139}{48}$ |
| $x^{12} - 6x^8 + 8x^6 + 4x^4 - 2x^2 - 6$ | $x^{12} - 4x^{10} + 6x^8 + 4x^6 + 156x^4 + 198x^2 + 378$ | $\begin{bmatrix} 4 & 4 & 8 \\ 3 & 3 & 3 \end{bmatrix} \begin{bmatrix} 8 & 19 \\ 3 & 6 \end{bmatrix}^2_3$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 4x^{10} + 4x^8 - 2x^6 - 2x^4 - 2x^2 - 2$ | $x^{12} - 4x^{10} - 10x^8 + 6x^4 - 2x^2 - 2$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 6 \end{bmatrix} \begin{bmatrix} 19 & 19 \\ 6 & 6 \end{bmatrix}^2_3$ | T: 12,88 | $\frac{283}{96}$ |
| $x^{12} + 8x^{10} + 8x^6 + 2x^4 - 6x^2 + 2$ | $x^{12} + 22x^{10} + 132x^8 + 44x^6 - 66x^4 + 242x^2 + 242$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 6 \end{bmatrix} \begin{bmatrix} 19 & 19 \\ 6 & 6 \end{bmatrix}^2_3$ | T: 12,61 | $\frac{139}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 4x^{10} + 8x^8 - 4x^6 - 6x^4 - 2x^2 + 6$ | $x^{12} - 10x^{10} + 54x^8 - 156x^6 + 268x^4 - 264x^2 + 88$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 19 & 19 \\ & 6 & 6 \end{array} \right]_3^2$ | T: 12,88 | $\frac{283}{96}$ |
| $x^{12} - 6x^8 + 4x^6 + 4x^4 - 6x^2 + 6$ | $x^{12} - 22x^{10} + 198x^8 - 924x^6 + 2464x^4 - 3630x^2 + 2662$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ & 19 & 19 \\ & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 2x^8 + 2x^4 + 2x^2 + 2$ | $x^{12} - 18x^8 + 12x^6 + 54x^4 - 162x^2 + 162$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 19 & 19 \\ & 6 & 6 \end{array} \right]_3^2$ | T: 12,88 | $\frac{283}{96}$ |
| $x^{12} - 6x^{10} + 2x^8 + 6x^6 + 8x^4 + 6x^2 - 2$ | $x^{12} + 4x^{10} + 4x^8 + 8x^4 + 22x^2 + 14$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ & 19 & 19 \\ & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 6x^8 + 8x^6 + 2x^4 - 2x^2 - 6$ | $x^{12} - 4x^{10} + 4x^8 + 22x^6 - 66x^4 + 66x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 19 & 19 \\ & 6 & 6 \end{array} \right]_3^2$ | T: 12,61 | $\frac{139}{48}$ |
| $x^{12} - 4x^8 - 4x^6 - 2x^4 - 6x^2 + 2$ | $x^{12} + 18x^{10} + 96x^8 + 120x^6 + 66x^4 + 18x^2 + 2$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 19 & 19 \\ & 6 & 6 \end{array} \right]_3^2$ | T: 12,92 | $\frac{283}{96}$ |
| $x^{12} - 2x^{10} - 6x^8 - 2x^6 + 4x^4 - 2x^2 + 6$ | $x^{12} + 20x^{10} + 154x^8 + 568x^6 + 1020x^4 + 792x^2 + 216$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ & 19 & 19 \\ & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 4x^{10} + 4x^8 - 4x^6 - 4x^4 - 6x^2 + 2$ | $x^{12} - 22x^{10} + 200x^8 - 1108x^6 + 5040x^4 - 19350x^2 + 47250$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 8x^{10} + 8x^8 + 2x^6 - 6x^4 + 6x^2 - 6$ | $x^{12} + 6x^{10} + 12x^8 + 2x^6 - 18x^4 - 18x^2 - 6$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,59 | $\frac{139}{48}$ |
| $x^{12} + 8x^{10} - 6x^8 + 8x^6 - 4x^4 + 6x^2 + 2$ | $x^{12} + 38x^{10} + 624x^8 + 5398x^6 + 25020x^4 + 54450x^2 + 47250$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 4x^8 - 2x^6 + 2x^2 + 2$ | $x^{12} - 16x^{10} + 96x^8 - 278x^6 + 432x^4 - 374x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 8x^{10} + 4x^8 - 4x^6 + 6x^4 - 6x^2 - 6$ | $x^{12} + 2x^{10} - 10x^8 - 44x^6 - 44x^4 - 88x^2 - 88$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,92 | $\frac{283}{96}$ |
| $x^{12} + 8x^{10} - 2x^8 + 8x^6 + 8x^4 - 6x^2 + 6$ | $x^{12} - 12x^{10} + 62x^8 - 164x^6 + 228x^4 - 162x^2 + 54$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 4x^{10} - 2x^6 + 4x^4 + 2x^2 - 2$ | $x^{12} + 4x^{10} + 52x^8 + 362x^6 + 2220x^4 + 5850x^2 + 6750$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1183}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 4x^{10} + 4x^6 + 2x^4 - 2x^2 - 2$ | $x^{12} - 6x^{10} + 16x^8 - 4x^6 - 14x^4 + 10x^2 - 2$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{c} 19 \\ 6 \end{array} \left. \right]^2_3$ | T: 12,88 | $\frac{283}{96}$ |
| $x^{12} + 6x^{10} - 2x^8 + 2x^6 + 4x^4 + 6x^2 - 6$ | $x^{12} - 2x^{10} + 12x^8 - 88x^6 + 336x^4 - 594x^2 + 378$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{c} 3 \\ 3 \\ 19 \\ 6 \end{array} \left. \right]^2_3$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} - 2x^{10} + 6x^8 - 2x^6 - 2x^4 - 6x^2 - 2$ | $x^{12} + 6x^{10} + 6x^8 - 10x^6 + 6x^4 + 42x^2 - 2$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{c} 19 \\ 6 \end{array} \left. \right]^2_3$ | T: 12,92 | $\frac{283}{96}$ |
| $x^{12} + 4x^{10} - 2x^8 + 8x^6 + 2x^4 + 2x^2 + 6$ | $x^{12} + 8x^{10} + 24x^8 + 54x^6 + 82x^4 + 66x^2 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{c} 19 \\ 6 \end{array} \left. \right]^2_3$ | T: 12,88 | $\frac{283}{96}$ |
| $x^{12} - 6x^8 - 4x^6 + 4x^4 + 2x^2 + 6$ | $x^{12} - 4x^{10} + 2x^8 + 22x^2 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{c} 3 \\ 3 \\ 19 \\ 6 \end{array} \left. \right]^2_3$ | T: 12,188 | $\frac{1183}{384}$ |
| $x^{12} + 6x^{10} - 2x^8 + 6x^6 - 6x^4 - 6x^2 + 6$ | $x^{12} + 18x^{10} + 126x^8 + 426x^6 + 702x^4 + 486x^2 + 54$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{c} 19 \\ 6 \end{array} \left. \right]^2_3$ | T: 12,61 | $\frac{139}{48}$ |
| $x^{12} + 2x^8 + 4x^6 + 6x^4 + 2x^2 + 6$ | $x^{12} - 8x^{10} + 24x^8 - 54x^6 + 82x^4 - 66x^2 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{c} 19 \\ 6 \end{array} \left. \right]^2_3$ | T: 12,59 | $\frac{139}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|------------------|
| $x^{12} + 2x^3 + 2$ | $x^{12} - 2x^{11} + 6x^9 - 9x^8 + 6x^7 + 2x^6 - 12x^5 + 15x^4 - 14x^3 + 8x^2 - 4x + 1$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3^2$ | T: 12,4 | $\frac{7}{6}$ |
| $x^{12} + 2x^4 + 2x^3 + 2$ | $x^{12} - 2x^{11} + 2x^{10} + 37x^8 + 32x^7 - 124x^6 + 14x^5 + 311x^4 - 488x^3 + 360x^2 - 144x + 27$ | $\left[\begin{array}{c} 4 \\ 4 \\ 3 \\ 3 \end{array} \right]_3^4$ | T: 12,4 | $\frac{7}{6}$ |
| $x^{12} + 2x^3 + 2x^2 + 2$ | $x^{12} - 4x^{11} - 6x^{10} + 48x^9 - 26x^8 - 192x^7 + 216x^6 + 400x^5 - 416x^4 - 394x^3 + 314x^2 + 120x - 106$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3^6 \left[\begin{array}{c} 4 \\ 4 \\ 3 \\ 3 \end{array} \right]_3^6$ | T: 12,32 | $\frac{31}{24}$ |
| $x^{12} + 4x^{11} + 6x^{10} + 4x^9 + 6x^6 + 4x^5 + 2x^4 + 4x^3 + 4x^2 + 14$ | $x^{12} + 8x^{10} + 19x^8 + 32x^6 + 87x^4 + 144x^2 + 81$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3^4 \left[\begin{array}{c} 4 \\ 2 \\ 3 \end{array} \right]_3^2 \left[\begin{array}{c} 8 \\ 3 \\ 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{259}{96}$ |
| $x^{12} + 4x^5 + 2x^4 + 4x^3 + 2$ | $x^{12} - 4x^{11} - 8x^{10} + 20x^9 + 50x^8 + 24x^7 - 28x^6 - 52x^5 - 40x^4 - 20x^3 - 12x^2 - 8x - 2$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3^4 \left[\begin{array}{c} 4 \\ 2 \\ 3 \end{array} \right]_3^2 \left[\begin{array}{c} 8 \\ 3 \\ 3 \end{array} \right]_3^2$ | T: 12,90 | $\frac{235}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|------------------|
| $x^{12} + 6x^{10} + 4x^9 + 4x^7 + 6x^6 + 4x^5 + 4x^4 + 4x^3 + 4x^2 + 10$ | $x^{12} + 8x^{10} + 43x^8 + 72x^6 + 107x^4 + 64x^2 + 49$ | $\left[\begin{array}{c} \frac{4}{3} \\ 2 \\ \frac{4}{3} \end{array} \right]_3 \left[\begin{array}{c} \frac{4}{3} \\ 2 \\ 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{55}{24}$ |
| $x^{12} + 4x^{11} + 6x^{10} + 4x^9 + 6x^8 + 4x^7 + 6x^6 + 4x^3 + 14$ | $x^{12} + 3x^8 - 16x^6 + 3x^4 + 1$ | $\left[\begin{array}{c} 2 \\ \frac{8}{3} \\ \frac{8}{3} \end{array} \right]_3^2$ | T: 12,25 | $\frac{8}{3}$ |
| $x^{12} + 2x^8 + 2x^6 + 4x^3 + 2$ | $x^{12} + 11x^8 - 77x^4 + 121$ | $\left[\begin{array}{c} \frac{4}{3} \\ 2 \\ \frac{4}{3} \end{array} \right]_3 \left[\begin{array}{c} \frac{4}{3} \\ 2 \\ \frac{7}{3} \\ 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{247}{96}$ |
| $x^{12} + 2x^8 + 4x^7 + 4x^6 + 6x^4 + 4x^3 + 2$ | $x^{12} - 24x^9 + 24x^8 + 52x^6 - 48x^5 + 4x^4 - 12x^3 - 12x^2 - 2$ | $\left[\begin{array}{c} 2 \\ 2 \\ \frac{8}{3} \\ \frac{8}{3} \end{array} \right]_3^2$ | T: 12,26 | $\frac{29}{12}$ |
| $x^{12} + 2x^{10} + 4x^7 + 4x^6 + 4x^4 + 4x^3 + 4x^2 + 2$ | $x^{12} - 18x^{10} - 32x^9 + 246x^8 - 156x^7 - 276x^6 + 120x^5 + 114x^4 - 12x^3 - 14$ | $\left[\begin{array}{c} 2 \\ 2 \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \end{array} \right]_3^6$ | T: 12,90 | $\frac{125}{48}$ |
| $x^{12} + 4x^7 + 4x^6 + 2x^4 + 4x^3 + 2$ | $x^{12} - 8x^9 + 12x^7 + 20x^6 - 54x^4 + 12x^3 + 24x^2 - 6$ | $\left[\begin{array}{c} 2 \\ \frac{8}{3} \\ \frac{8}{3} \end{array} \right]_3^2$ | T: 12,6 | $\frac{7}{3}$ |
| $x^{12} + 2x^8 + 4x^6 + 2x^4 + 4x^3 + 6$ | $x^{12} - 14x^{10} - 8x^9 + 49x^8 + 16x^7 - 96x^6 - 48x^5 + 95x^4 + 88x^3 - 26x^2 - 48x - 13$ | $\left[\begin{array}{c} \frac{4}{3} \\ 2 \\ \frac{4}{3} \end{array} \right]_3 \left[\begin{array}{c} 2 \\ 2 \\ \frac{8}{3} \\ \frac{8}{3} \end{array} \right]_3^2$ | T: 12,90 | $\frac{235}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|------------------|
| $x^{12} + 2x^{10} + 4x^9 + 2x^8 + 6x^6 + 4x^5 + 4x^3 + 2$ | $x^{12} - 24x^9 + 45x^8 + 36x^7 - 390x^6 + 1080x^5 - 729x^4 - 2664x^3 + 6534x^2 - 5724x + 1845$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{247}{96}$ |
| $x^{12} + 6x^8 + 4x^7 + 4x^6 + 4x^5 + 4x^3 + 4x^2 + 2$ | $x^{12} - 4x^{11} + 2x^{10} + 4x^9 + 3x^8 + 16x^7 - 36x^6 - 164x^5 + 493x^4 - 456x^3 + 82x^2 + 116x - 59$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 2 & 3 & 3 \end{array} \right]_3^2$ | T: 12,26 | $\frac{29}{12}$ |
| $x^{12} + 6x^{10} + 4x^9 + 4x^7 + 6x^6 + 4x^5 + 6x^4 + 4x^3 + 10$ | $x^{12} - 4x^{11} + 38x^{10} - 88x^9 + 512x^8 - 724x^7 + 3290x^6 - 3020x^5 + 10850x^4 - 8092x^3 + 16848x^2 - 13296x + 6274$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{259}{96}$ |
| $x^{12} + 4x^{11} + 4x^{10} + 6x^8 + 4x^7 + 6x^6 + 4x^5 + 4x^3 + 4x^2 + 6$ | $x^{12} + 8x^{10} + 23x^8 + 16x^6 - 21x^4 - 24x^2 - 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} + 4x^8 + 4x^7 + 4x^5 + 4x^4 + 4x^3 + 6$ | $x^{12} + 6x^{10} - 16x^9 + 57x^8 - 96x^7 + 132x^6 - 144x^5 + 111x^4 - 76x^3 + 42x^2 - 12x + 1$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 2 & 3 & 3 \end{array} \right]_3^2$ | T: 12,26 | $\frac{29}{12}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|------------------|
| $x^{12} + 6x^8 + 4x^7 + 4x^4 + 4x^3 + 4x^2 + 6$ | $x^{12} - 4x^{11} + 4x^{10} + 16x^9 - 50x^8 + 48x^7 + 8x^6 - 48x^5 + 24x^4 + 12x^3 - 12x^2 + 2$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,6 | $\frac{7}{3}$ |
| $x^{12} + 4x^{11} + 4x^9 + 4x^8 + 2x^6 + 4x^5 + 2x^4 + 4x^3 + 4x^2 + 2$ | $x^{12} - 4x^{10} - 5x^8 + 52x^6 - 93x^4 + 56x^2 - 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,26 | $\frac{55}{24}$ |
| $x^{12} + 2x^{10} + 2x^8 + 6x^6 + 4x^5 + 4x^4 + 4x^3 + 14$ | $x^{12} - 12x^{10} + 60x^8 - 160x^6 + 240x^4 - 192x^2 + 16$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{247}{96}$ |
| $x^{12} + 6x^8 + 2x^6 + 6x^4 + 4x^3 + 10$ | $x^{12} + 8x^{10} + 15x^8 - 104x^6 - 13x^4 + 288x^2 - 27$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{259}{96}$ |
| $x^{12} + 2x^8 + 4x^7 + 6x^6 + 4x^5 + 6x^4 + 4x^3 + 10$ | $x^{12} + 4x^{10} - 68x^8 + 204x^6 - 276x^4 + 576x^2 - 972$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{247}{96}$ |
| $x^{12} + 6x^{10} + 4x^8 + 6x^6 + 4x^4 + 4x^3 + 2$ | $x^{12} + 16x^{10} + 51x^8 - 112x^6 + 3x^4 + 96x^2 + 49$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} + 2x^{10} + 6x^8 + 4x^7 + 2x^6 + 4x^5 + 6x^4 + 4x^3 + 4x^2 + 6$ | $x^{12} + 20x^{10} + 183x^8 + 264x^6 + 11x^4 - 44x^2 - 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{259}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|------------------|
| $x^{12} + 4x^{11} + 2x^{10} + 4x^9 + 2x^8 + 2x^6 + 4x^3 + 2$ | $x^{12} + 8x^{10} + 211x^8 - 216x^6 - 573x^4 - 216x^2 - 27$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{259}{96}$ |
| $x^{12} + 6x^{10} + 4x^9 + 4x^7 + 6x^6 + 4x^4 + 4x^3 + 4x^2 + 2$ | $x^{12} - 16x^{10} + 51x^8 + 112x^6 + 3x^4 - 96x^2 + 49$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} + 2x^{10} + 4x^9 + 2x^6 + 4x^3 + 4x^2 + 10$ | $x^{12} + 12x^8 + 48x^4 + 16$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{259}{96}$ |
| $x^{12} + 2x^{10} + 4x^7 + 4x^3 + 2$ | $x^{12} + 60x^{10} - 488x^9 - 1269x^8 - 19800x^7 + 79892x^6 + 682416x^5 - 552879x^4 - 7064588x^3 - 3211172x^2 + 90262260x + 169376633$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | T: 12,90 | $\frac{125}{48}$ |
| $x^{12} + 4x^{11} + 2x^{10} + 4x^9 + 2x^8 + 2x^6 + 2x^4 + 4x^3 + 6$ | $x^{12} + 99x^8 + 2211x^4 + 14641$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{247}{96}$ |
| $x^{12} + 6x^{10} + 4x^9 + 4x^8 + 6x^6 + 4x^5 + 4x^3 + 2$ | $x^{12} + 12x^{10} + 87x^8 + 292x^6 + 459x^4 + 248x^2 + 49$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{55}{24}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|------------------|
| $x^{12} + 6x^{10} + 4x^9 + 6x^8 + 6x^6 + 4x^5 + 4x^3 + 14$ | $x^{12} - 12x^6 - 108x^4 - 144x^2 - 12$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 7 \\ 3 \end{array} \begin{array}{c} 7 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{247}{96}$ |
| $x^{12} + 2x^{10} + 2x^8 + 4x^7 + 4x^6 + 4x^5 + 6x^4 + 4x^3 + 4x^2 + 2$ | $x^{12} + 12x^{10} - 24x^9 + 48x^8 - 192x^7 + 420x^6 - 768x^5 + 2208x^4 - 4256x^3 + 6960x^2 - 5760x + 3396$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \right]_3^6$ | T: 12,32 | $\frac{61}{24}$ |
| $x^{12} + 4x^{11} + 4x^{10} + 4x^9 + 2x^8 + 4x^7 + 6x^6 + 4x^5 + 4x^3 + 14$ | $x^{12} - 5x^8 + 11x^4 - 11$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{259}{96}$ |
| $x^{12} + 4x^{10} + 4x^9 + 4x^7 + 6x^6 + 4x^5 + 4x^3 + 2$ | $x^{12} + 16x^{10} + 71x^8 + 320x^6 + 763x^4 + 704x^2 - 11$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{8}{3}$ |
| $x^{12} + 4x^9 + 4x^7 + 2x^6 + 4x^5 + 6x^4 + 4x^3 + 4x^2 + 6$ | $x^{12} + 4x^{10} + 83x^8 + 132x^6 - 253x^4 + 88x^2 - 11$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 7 \\ 3 \end{array} \begin{array}{c} 7 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{247}{96}$ |
| $x^{12} + 2x^{10} + 6x^6 + 4x^3 + 4x^2 + 14$ | $x^{12} + 11x^8 - 77x^4 - 1331$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{259}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|------------------|
| $x^{12} + 4x^8 + 6x^4 + 4x^3 + 4x^2 + 6$ | $x^{12} - 4x^{11} + 8x^{10} - 28x^9 + 132x^8 - 392x^7 + 688x^6 - 736x^5 + 494x^4 - 204x^3 + 44x^2 - 2$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \right]_3^2$ | T: 12,90 | $\frac{235}{96}$ |
| $x^{12} + 2x^8 + 4x^5 + 2x^4 + 4x^3 + 6$ | $x^{12} - 4x^{11} - 20x^{10} + 80x^9 + 122x^8 - 488x^7 - 204x^6 + 904x^5 - 8x^4 - 392x^3 - 32x^2 + 32x + 4$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \right]_3^2$ | T: 12,6 | $\frac{7}{3}$ |
| $x^{12} + 2x^{10} + 6x^4 + 4x^3 + 4x^2 + 2$ | $x^{12} + 18x^{10} - 136x^9 - 366x^8 + 516x^7 + 2756x^6 - 1284x^5 - 7422x^4 + 1380x^3 + 12384x^2 - 8232x + 322$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad \frac{8}{3} \quad \frac{8}{3} \right]_3^6$ | T: 12,90 | $\frac{125}{48}$ |
| $x^{12} + 4x^{11} + 4x^{10} + 4x^9 + 4x^7 + 6x^6 + 4x^5 + 4x^3 + 6$ | $x^{12} + 3x^8 + 16x^6 + 3x^4 + 1$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \quad \frac{8}{3} \quad \frac{8}{3} \quad \frac{8}{3} \right]_3^2$ | T: 12,25 | $\frac{8}{3}$ |
| $x^{12} + 2x^8 + 4x^5 + 6x^4 + 4x^3 + 4x^2 + 6$ | $x^{12} - 8x^{11} + 34x^{10} - 124x^9 + 379x^8 - 832x^7 + 1280x^6 - 1380x^5 + 907x^4 - 188x^3 - 86x^2 + 4x - 1$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \quad \frac{4}{3} \quad 2 \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \right]_3^2$ | T: 12,90 | $\frac{235}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|------------------|
| $x^{12} + 2x^8 + 4x^7 + 4x^3 + 4x^2 + 2$ | $x^{12} + 12x^{10} - 12x^8 + 52x^6 - 204x^4 + 360x^2 + 20$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{115}{48}$ |
| $x^{12} + 2x^{10} + 4x^9 + 4x^7 + 6x^6 + 4x^5 + 6x^4 + 4x^3 + 10$ | $x^{12} - 8x^{11} + 30x^{10} - 60x^9 + 27x^8 + 108x^7 - 98x^6 - 76x^5 + 77x^4 + 40x^3 - 12x^2 - 4x + 1$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{259}{96}$ |
| $x^{12} + 2x^{10} + 4x^6 + 4x^3 + 4x^2 + 2$ | $x^{12} + 6x^{10} - 12x^9 + 21x^8 - 48x^7 + 92x^6 - 120x^5 + 159x^4 - 208x^3 + 198x^2 - 108x + 55$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | T: 12,90 | $\frac{125}{48}$ |
| $x^{12} + 4x^6 + 4x^5 + 4x^3 + 6$ | $x^{12} - 4x^{11} - 10x^{10} + 36x^9 + 95x^8 - 16x^7 - 320x^6 - 564x^5 - 617x^4 - 472x^3 - 266x^2 - 92x - 17$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,26 | $\frac{29}{12}$ |
| $x^{12} + 2x^{10} + 2x^8 + 6x^4 + 4x^3 + 4x^2 + 2$ | $x^{12} - 12x^{10} - 28x^9 - 57x^8 - 216x^7 - 408x^6 + 144x^5 + 1629x^4 + 2236x^3 + 768x^2 - 624x - 507$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | T: 12,90 | $\frac{125}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|------------------|
| $x^{12} + 2x^{10} + 4x^7 + 4x^5 + 4x^4 + 4x^3 + 6$ | $x^{12} - 16x^9 + 3x^8 + 48x^7 - 24x^6 - 48x^5 + 51x^4 + 4x^3 - 24x^2 + 12x - 1$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3^6$ | T: 12,32 | $\frac{61}{24}$ |
| $x^{12} + 4x^{11} + 6x^8 + 2x^6 + 4x^5 + 6x^4 + 4x^3 + 14$ | $x^{12} - 4x^{10} + 7x^8 - 4x^6 - 21x^4 - 8x^2 + 1$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \right]_3^2$ | T: 12,2 | $\frac{13}{6}$ |
| $x^{12} + 4x^{10} + 4x^9 + 4x^7 + 2x^6 + 4x^5 + 6x^4 + 4x^3 + 14$ | $x^{12} - 8x^{10} + 43x^8 - 72x^6 + 107x^4 - 64x^2 + 49$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 2 \\ 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{55}{24}$ |
| $x^{12} + 6x^{10} + 4x^7 + 6x^6 + 4x^4 + 4x^3 + 4x^2 + 6$ | $x^{12} - 13x^8 + 16x^6 + 31x^4 + 8x^2 + 1$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 2 \\ 3 \end{array} \right]_3^2 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} + 2x^{10} + 2x^8 + 2x^4 + 4x^3 + 4x^2 + 2$ | $x^{12} - 18x^{10} - 40x^9 - 60x^8 - 72x^7 + 112x^6 + 324x^5 + 630x^4 + 860x^3 + 480x^2 + 384x + 122$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 2 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3^2 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3^6$ | T: 12,90 | $\frac{125}{48}$ |
| $x^{12} + 2x^{10} + 2x^8 + 4x^7 + 4x^5 + 4x^3 + 2$ | $x^{12} - 18x^{10} - 8x^9 + 108x^8 + 96x^7 - 120x^6 + 888x^5 + 7572x^4 + 25404x^3 + 43932x^2 + 37632x + 12586$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 2 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3^2 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3^6$ | T: 12,90 | $\frac{125}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|------------------|
| $x^{12} + 4x^9 + 6x^8 + 2x^6 + 2x^4 + 4x^3 + 4x^2 + 10$ | $x^{12} + 3x^8 + 15x^4 + 1$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{8}{3}$ |
| $x^{12} + 4x^9 + 4x^7 + 2x^6 + 2x^4 + 4x^3 + 4x^2 + 6$ | $x^{12} - 12x^{10} + 39x^8 + 152x^6 - 309x^4 - 60x^2 + 5$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} + 4x^{11} + 4x^{10} + 4x^9 + 4x^8 + 4x^7 + 6x^6 + 4x^3 + 4x^2 + 6$ | $x^{12} - x^8 + 3x^4 - 11$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & 2 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{55}{24}$ |
| $x^{12} + 4x^{11} + 4x^{10} + 2x^8 + 4x^7 + 2x^6 + 4x^5 + 2x^4 + 4x^3 + 4x^2 + 2$ | $x^{12} + 16x^{10} + 39x^8 - 372x^6 - 1561x^4 - 1660x^2 - 539$ | $\left[\begin{array}{cc} 2 & 3 \\ & 3 \end{array} \right]_3^2$ | T: 12,2 | $\frac{13}{6}$ |
| $x^{12} + 4x^8 + 4x^7 + 4x^5 + 4x^4 + 4x^3 + 4x^2 + 2$ | $x^{12} - 4x^{11} + 10x^{10} - 32x^9 + 109x^8 - 308x^7 + 644x^6 - 1020x^5 + 1227x^4 - 1100x^3 + 714x^2 - 304x + 61$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{115}{48}$ |
| $x^{12} + 4x^{11} + 2x^{10} + 2x^6 + 4x^5 + 2x^4 + 4x^3 + 4x^2 + 6$ | $x^{12} - 8x^{10} + 19x^8 - 32x^6 + 87x^4 - 144x^2 + 81$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{259}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|------------------|
| $x^{12} + 2x^{10} + 4x^6 + 4x^3 + 4x^2 + 6$ | $x^{12} - 222x^{10} - 2788x^9 - 27549x^8 - 129792x^7 - 491504x^6 - 335496x^5 + 227235x^4 + 5008520x^3 - 5710338x^2 + 5535444x - 1006699$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \right]_3^6$ | T: 12,90 | $\frac{125}{48}$ |
| $x^{12} + 4x^{11} + 4x^9 + 6x^8 + 6x^6 + 4x^3 + 6$ | $x^{12} + 7x^8 + 11x^4 - 11$ | $\left[\begin{array}{c} 4 \\ 3 \\ 4 \\ 4 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \right]_3^2$ | T: 12,89 | $\frac{247}{96}$ |
| $x^{12} + 2x^{10} + 4x^7 + 4x^5 + 4x^3 + 6$ | $x^{12} - 18x^{10} - 24x^9 + 27x^8 + 288x^7 + 312x^6 - 144x^5 - 1305x^4 - 1664x^3 - 918x^2 - 216x - 15$ | $\left[\begin{array}{c} 8 \\ 3 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \end{array} \right]_3^6$ | T: 12,32 | $\frac{61}{24}$ |
| $x^{12} + 4x^9 + 4x^7 + 2x^6 + 4x^5 + 2x^4 + 4x^3 + 4x^2 + 2$ | $x^{12} - 16x^{10} + 99x^8 - 308x^6 + 495x^4 - 396x^2 + 121$ | $\left[\begin{array}{c} 4 \\ 3 \\ 4 \\ 4 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \right]_3^2$ | T: 12,89 | $\frac{247}{96}$ |
| $x^{12} + 2x^{10} + 2x^8 + 4x^7 + 6x^4 + 4x^3 + 4x^2 + 2$ | $x^{12} - 4x^{11} - 8x^{10} + 40x^9 + 77x^8 + 4x^6 + 40x^5 + 15x^4 - 16x^3 + 16x^2 - 4x + 1$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \right]_3^6$ | T: 12,90 | $\frac{125}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|------------------|
| $x^{12} + 4x^{10} + 4x^9 + 4x^7 + 2x^6 + 2x^4 + 4x^3 + 4x^2 + 6$ | $x^{12} - 24x^{10} + 171x^8 - 424x^6 + 531x^4 - 360x^2 + 5$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 \\ 3 & 3 & 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} + 4x^7 + 2x^6 + 4x^5 + 2x^4 + 4x^3 + 4x^2 + 10$ | $x^{12} - 88x^8 + 2464x^4 - 21296$ | $\begin{bmatrix} 4 & 4 & 2 & 7 & 7 \\ 3 & 3 & 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 12,89 | $\frac{247}{96}$ |
| $x^{12} + 4x^{11} + 6x^{10} + 4x^7 + 6x^6 + 4x^3 + 4x^2 + 14$ | $x^{12} - 4x^{11} + 14x^{10} - 24x^9 + 35x^8 - 60x^7 + 154x^6 - 408x^5 + 743x^4 - 964x^3 + 964x^2 - 652x + 419$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 \\ 3 & 3 & 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} + 4x^{11} + 6x^{10} + 2x^6 + 6x^4 + 4x^3 + 2$ | $x^{12} - 5x^8 + 11x^4 + 1$ | $\begin{bmatrix} 2 & 3 \\ 2 & 3 \end{bmatrix}_3^2$ | T: 12,2 | $\frac{13}{6}$ |
| $x^{12} + 4x^3 + 2$ | $x^{12} - 6x^{10} - 8x^9 + 9x^8 + 36x^7 + 24x^6 - 12x^5 - 39x^4 - 16x^3 - 6x^2 - 1$ | $\begin{bmatrix} 8 & 8 \\ 3 & 3 \end{bmatrix}_3^2$ | T: 12,4 | $\frac{13}{6}$ |
| $x^{12} + 2x^{10} + 4x^9 + 6x^6 + 4x^3 + 4x^2 + 14$ | $x^{12} - 4x^{11} + 48x^9 - 155x^8 + 156x^7 + 378x^6 - 1744x^5 + 3469x^4 - 4420x^3 + 3882x^2 - 2316x + 799$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 \\ 3 & 3 & 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 12,89 | $\frac{259}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|------------------|
| $x^{12} + 2x^8 + 4x^7 + 4x^5 + 2x^4 + 4x^3 + 6$ | $x^{12} - 4x^{11} + 8x^{10} - 8x^9 - 58x^8 + 48x^7 - 164x^6 + 144x^5 - 292x^4 + 200x^3 - 216x^2 + 80x - 68$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3$ | T: 12,56 | $\frac{115}{48}$ |
| $x^{12} + 4x^9 + 2x^8 + 6x^6 + 4x^5 + 2x^4 + 4x^3 + 4x^2 + 6$ | $x^{12} + 12x^6 - 108x^4 + 144x^2 - 12$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 7 & 7 & 3 \\ 3 & 3 & 3 \end{array} \right]_3$ | T: 12,87 | $\frac{247}{96}$ |
| $x^{12} + 4x^{11} + 6x^{10} + 4x^9 + 2x^8 + 6x^6 + 2x^4 + 4x^3 + 2$ | $x^{12} + 16x^{10} + 99x^8 + 308x^6 + 495x^4 + 396x^2 + 121$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 7 & 7 & 3 \\ 3 & 3 & 3 \end{array} \right]_3$ | T: 12,89 | $\frac{247}{96}$ |
| $x^{12} + 6x^8 + 4x^7 + 4x^6 + 4x^5 + 2x^4 + 4x^3 + 4x^2 + 2$ | $x^{12} - 12x^{10} - 12x^9 + 54x^8 + 96x^7 - 124x^6 - 304x^5 + 120x^4 + 560x^3 - 88x^2 - 608x + 316$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,26 | $\frac{29}{12}$ |
| $x^{12} + 2x^{10} + 2x^8 + 4x^7 + 4x^5 + 2x^4 + 4x^3 + 2$ | $x^{12} - 4x^{11} + 20x^{10} - 60x^9 + 157x^8 - 300x^7 + 452x^6 - 464x^5 + 311x^4 - 116x^3 + 32x^2 - 8x + 1$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | T: 12,90 | $\frac{125}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|------------------|
| $x^{12} + 4x^{10} + 4x^9 + 4x^8 + 6x^6 + 4x^3 + 10$ | $x^{12} - 4x^{11} + 16x^9 - 6x^8 - 80x^7 + 198x^6 - 140x^5 - 38x^4 - 148x^3 + 528x^2 - 448x + 122$ | $\begin{bmatrix} 2 & 3 \\ 3 \end{bmatrix}^2$ | T: 12,2 | $\frac{13}{6}$ |
| $x^{12} + 6x^8 + 4x^7 + 4x^6 + 2x^4 + 4x^3 + 4x^2 + 6$ | $x^{12} - 4x^{11} + 8x^{10} - 4x^9 - 10x^8 + 32x^7 - 36x^6 + 28x^5 - 4x^3 + 8x^2 + 8x + 2$ | $\begin{bmatrix} 8 & 8 \\ 3 & 3 \end{bmatrix}^2$ | T: 12,4 | $\frac{13}{6}$ |
| $x^{12} + 4x^{11} + 4x^{10} + 4x^9 + 4x^8 + 4x^7 + 6x^6 + 2x^4 + 4x^3 + 4x^2 + 6$ | $x^{12} - 12x^{10} + 19x^8 + 88x^6 + 159x^4 + 108x^2 + 49$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 \\ 3 & 3 & 3 & 3 & 3 \end{bmatrix}^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} + 2x^{10} + 4x^8 + 6x^6 + 4x^3 + 4x^2 + 10$ | $x^{12} + 11x^8 + 55x^4 + 121$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 \\ 3 & 3 & 3 & 3 & 3 \end{bmatrix}^2$ | T: 12,89 | $\frac{259}{96}$ |
| $x^{12} + 2x^{10} + 4x^9 + 6x^8 + 4x^7 + 6x^6 + 4x^5 + 2x^4 + 4x^3 + 4x^2 + 6$ | $x^{12} + 143x^8 - 2024x^6 - 9669x^4 - 6776x^2 - 1331$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 \\ 3 & 3 & 3 & 3 & 3 \end{bmatrix}^2$ | T: 12,89 | $\frac{259}{96}$ |
| $x^{12} + 6x^{10} + 4x^9 + 2x^8 + 4x^7 + 6x^6 + 4x^5 + 2x^4 + 4x^3 + 6$ | $x^{12} + 12x^{10} + 19x^8 - 88x^6 + 159x^4 - 108x^2 + 49$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 \\ 3 & 3 & 3 & 3 & 3 \end{bmatrix}^2$ | T: 12,90 | $\frac{259}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|------------------|
| $x^{12} + 4x^5 + 4x^4 + 4x^3 + 4x^2 + 2$ | $x^{12} + 240x^8 + 3500x^6 + 18300x^4 + 33000x^2 + 500$ | $\left[\begin{array}{ccc} 2 & 8 & \\ & 3 & \\ & & 3 \end{array} \right]_3^2$ | T: 12,6 | $\frac{7}{3}$ |
| $x^{12} + 2x^{10} + 6x^8 + 4x^7 + 6x^6 + 4x^5 + 4x^3 + 6$ | $x^{12} - 9x^8 + 3x^4 - 3$ | $\left[\begin{array}{cc} 2 & \\ & 3 \end{array} \right]_3^2$ | T: 12,2 | $\frac{13}{6}$ |
| $x^{12} + 2x^{10} + 4x^9 + 2x^8 + 2x^6 + 4x^5 + 4x^3 + 14$ | $x^{12} + 12x^{10} + 60x^8 + 160x^6 + 240x^4 + 192x^2 + 16$ | $\left[\begin{array}{ccc} 4 & 4 & \\ 3 & 3 & \\ & 2 & 7 & \\ & & 3 & 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{247}{96}$ |
| $x^{12} + 2x^{10} + 4x^5 + 4x^4 + 4x^3 + 6$ | $x^{12} + 24x^{10} - 12x^9 + 150x^8 - 192x^7 + 216x^6 - 1200x^5 + 1428x^4 - 928x^3 + 3552x^2 - 4752x + 1896$ | $\left[\begin{array}{ccc} 8 & 8 & \\ 3 & 3 & \\ & 8 & 8 & \\ & & 3 & 3 \end{array} \right]_3^6$ | T: 12,32 | $\frac{61}{24}$ |
| $x^{12} + 4x^{10} + 4x^9 + 2x^8 + 2x^6 + 2x^4 + 4x^3 + 4x^2 + 6$ | $x^{12} + 11x^8 + 363x^4 - 1331$ | $\left[\begin{array}{ccc} 2 & 8 & \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{8}{3}$ |
| $x^{12} + 4x^7 + 4x^4 + 4x^3 + 2$ | $x^{12} + 240x^8 - 3500x^6 + 18300x^4 - 33000x^2 + 500$ | $\left[\begin{array}{ccc} 8 & & \\ & 8 & \\ & & 3 \end{array} \right]_3^4$ | T: 12,4 | $\frac{13}{6}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|------------------|
| $x^{12} + 4x^6 + 4x^5 + 2x^4 + 4x^3 + 4x^2 + 2$ | $x^{12} + 18x^{10} - 69x^8 + 140x^6 - 345x^4 + 450x^2 + 125$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^4$ | T: 12,32 | $\frac{55}{24}$ |
| $x^{12} + 4x^8 + 4x^7 + 4x^5 + 2x^4 + 4x^3 + 4x^2 + 6$ | $x^{12} - 12x^{10} - 12x^8 - 52x^6 - 204x^4 - 360x^2 + 20$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^4$ | T: 12,32 | $\frac{55}{24}$ |
| $x^{12} + 2x^{10} + 4x^6 + 4x^5 + 4x^3 + 4x^2 + 2$ | $x^{12} - 72x^{10} - 88x^9 + 3012x^8 - 480x^7 - 59584x^6 + 56832x^5 + 932400x^4 - 3833632x^3 + 6462432x^2 - 5111808x + 1524576$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^6$ | T: 12,90 | $\frac{125}{48}$ |
| $x^{12} + 4x^{11} + 2x^{10} + 2x^8 + 2x^6 + 2x^4 + 4x^3 + 4x^2 + 2$ | $x^{12} + 12x^{10} + 27x^8 - 64x^6 + 43x^4 - 12x^2 + 1$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{55}{24}$ |
| $x^{12} + 4x^{10} + 2x^8 + 4x^7 + 6x^6 + 4x^3 + 4x^2 + 2$ | $x^{12} - 44x^{10} + 627x^8 - 1980x^6 - 2981x^4 + 2904x^2 - 1331$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{247}{96}$ |

Continued on next page

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|------------------|
| $x^{12} + 2x^{10} + 2x^8 + 4x^7 + 4x^6 + 4x^3 + 2$ | $x^{12} + 18x^{10} - 36x^9 + 57x^8 - 144x^7 - 412x^6 + 2856x^5 - 7377x^4 + 11504x^3 - 10710x^2 + 5292x - 1053$ | $\begin{bmatrix} 2 & 2 & \frac{8}{3} & \frac{8}{3} & \frac{8}{3} & \frac{8}{3} \\ & & & & & \frac{8}{3} \end{bmatrix}_3^6$ | T: 12,90 | $\frac{125}{48}$ |
| $x^{12} + 4x^{11} + 4x^8 + 2x^6 + 2x^4 + 4x^3 + 2$ | $x^{12} - 4x^{11} - 6x^{10} + 44x^9 - 9x^8 - 124x^7 - 10x^6 + 208x^5 + 55x^4 - 44x^3 - 108x^2 - 80x - 17$ | $\begin{bmatrix} \frac{4}{3} & \frac{4}{3} & 2 & \frac{8}{3} & \frac{8}{3} & \frac{8}{3} \\ & & & & & \frac{8}{3} \end{bmatrix}_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} + 4x^{10} + 4x^7 + 2x^6 + 4x^3 + 4x^2 + 2$ | $x^{12} - 4x^{11} + 8x^{10} + 12x^9 - 122x^8 + 232x^7 + 186x^6 - 1108x^5 + 1490x^4 + 1108x^3 - 3056x^2 + 1968x + 3754$ | $\begin{bmatrix} \frac{4}{3} & \frac{4}{3} & 2 & 2 & \frac{8}{3} \\ & & & & \frac{8}{3} \end{bmatrix}_3^2$ | T: 12,25 | $\frac{55}{24}$ |
| $x^{12} + 6x^8 + 4x^6 + 4x^3 + 2$ | $x^{12} - 4x^{11} - 2x^{10} + 16x^9 - 15x^8 + 4x^7 + 60x^6 - 76x^5 - 41x^4 + 84x^3 - 30x^2 + 1$ | $\begin{bmatrix} \frac{4}{3} & \frac{4}{3} & 2 & 2 & \frac{8}{3} & \frac{8}{3} \\ & & & & & \frac{8}{3} \end{bmatrix}_3^2$ | T: 12,90 | $\frac{235}{96}$ |
| $x^{12} + 4x^7 + 4x^6 + 4x^5 + 4x^4 + 4x^3 + 6$ | $x^{12} - 6x^{10} - 8x^9 + 57x^8 - 28x^7 - 96x^6 + 104x^5 + 9x^4 - 64x^3 + 34x^2 - 4x - 1$ | $\begin{bmatrix} 2 & 2 & \frac{8}{3} & \frac{8}{3} & \frac{8}{3} \\ & & & & \frac{8}{3} \end{bmatrix}_3^2$ | T: 12,26 | $\frac{29}{12}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|------------------|
| $x^{12} + 2x^{10} + 4x^9 + 4x^8 + 6x^6 + 4x^5 + 2x^4 + 4x^3 + 6$ | $x^{12} + 3x^8 + 3x^4 - 3$ | $\begin{bmatrix} 2 & \frac{8}{3} & \frac{8}{3} & 3 \\ & 2 & \frac{8}{3} & 3 \\ & & 2 & \frac{8}{3} \\ & & & 3 \end{bmatrix}_3^2$ | T: 12,25 | $\frac{8}{3}$ |
| $x^{12} + 4x^9 + 4x^7 + 2x^6 + 6x^4 + 4x^3 + 2$ | $x^{12} - 4x^{11} - 12x^{10} + 40x^9 + 76x^8 - 248x^7 - 118x^6 + 472x^5 - 154x^4 - 132x^3 + 100x^2 - 24x + 2$ | $\begin{bmatrix} \frac{4}{3} & \frac{4}{3} & 2 & \frac{8}{3} & \frac{8}{3} & 3 \\ & \frac{4}{3} & 2 & \frac{8}{3} & \frac{8}{3} & 3 \\ & & \frac{4}{3} & 2 & \frac{8}{3} & 3 \\ & & & \frac{4}{3} & 2 & \frac{8}{3} \\ & & & & \frac{4}{3} & 2 \\ & & & & & 3 \end{bmatrix}_3^2$ | T: 12,89 | $\frac{259}{96}$ |
| $x^{12} + 6x^{10} + 4x^9 + 2x^8 + 6x^6 + 4x^3 + 14$ | $x^{12} - 36x^{10} + 396x^8 - 2460x^6 + 7200x^4 - 9000x^2 - 7500$ | $\begin{bmatrix} \frac{4}{3} & \frac{4}{3} & 2 & \frac{8}{3} & \frac{8}{3} & 3 \\ & \frac{4}{3} & 2 & \frac{8}{3} & \frac{8}{3} & 3 \\ & & \frac{4}{3} & 2 & \frac{8}{3} & 3 \\ & & & \frac{4}{3} & 2 & \frac{8}{3} \\ & & & & \frac{4}{3} & 2 \\ & & & & & 3 \end{bmatrix}_3^2$ | T: 12,87 | $\frac{259}{96}$ |
| $x^{12} + 4x^{11} + 6x^{10} + 4x^8 + 4x^7 + 6x^6 + 4x^5 + 4x^3 + 4x^2 + 2$ | $x^{12} - 4x^{10} - 81x^8 - 256x^6 - 13x^4 - 60x^2 - 11$ | $\begin{bmatrix} \frac{4}{3} & \frac{4}{3} & 2 & \frac{8}{3} & \frac{8}{3} & 3 \\ & \frac{4}{3} & 2 & \frac{8}{3} & \frac{8}{3} & 3 \\ & & \frac{4}{3} & 2 & \frac{8}{3} & 3 \\ & & & \frac{4}{3} & 2 & \frac{8}{3} \\ & & & & \frac{4}{3} & 2 \\ & & & & & 3 \end{bmatrix}_3^2$ | T: 12,26 | $\frac{55}{24}$ |
| $x^{12} + 4x^{11} + 4x^9 + 2x^6 + 4x^5 + 4x^3 + 6$ | $x^{12} - 18x^{10} - 120x^9 + 612x^8 + 972x^7 - 6078x^6 - 1620x^5 + 28062x^4 - 16164x^3 - 47880x^2 + 65448x - 23034$ | $\begin{bmatrix} \frac{4}{3} & \frac{4}{3} & 2 & \frac{8}{3} & \frac{8}{3} & 3 \\ & \frac{4}{3} & 2 & \frac{8}{3} & \frac{8}{3} & 3 \\ & & \frac{4}{3} & 2 & \frac{8}{3} & 3 \\ & & & \frac{4}{3} & 2 & \frac{8}{3} \\ & & & & \frac{4}{3} & 2 \\ & & & & & 3 \end{bmatrix}_3^2$ | T: 12,87 | $\frac{259}{96}$ |
| $x^{12} + 4x^{11} + 6x^{10} + 6x^8 + 2x^6 + 4x^5 + 4x^4 + 4x^3 + 4x^2 + 6$ | $x^{12} + 4x^{10} + 7x^8 + 4x^6 - 21x^4 + 8x^2 + 1$ | $\begin{bmatrix} 2 & 3 \\ & 2 & 3 \\ & & 2 & 3 \\ & & & 2 & 3 \\ & & & & 2 & 3 \\ & & & & & 3 \end{bmatrix}_3^2$ | T: 12,2 | $\frac{13}{6}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|------------------|
| $x^{12} + 4x^{11} + 2x^{10} + 4x^9 + 4x^8 + 4x^7 + 6x^6 + 4x^3 + 4x^2 + 6$ | $x^{12} - 8x^{10} + 23x^8 - 16x^6 - 21x^4 + 24x^2 - 11$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \right]_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} + 2x^{10} + 2x^8 + 2x^6 + 4x^3 + 4x^2 + 10$ | $x^{12} - x^8 + 3x^4 + 1$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{8}{3}$ |
| $x^{12} + 4x^6 + 4x^5 + 6x^4 + 4x^3 + 2$ | $x^{12} + 16x^{10} - 24x^9 - 124x^8 - 24x^7 - 100x^6 - 624x^5 - 436x^4 - 244x^3 - 108x^2 - 24x - 2$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \right]_3^2$ | T: 12,26 | $\frac{29}{12}$ |
| $x^{12} + 6x^{10} + 6x^8 + 4x^7 + 6x^6 + 2x^4 + 4x^3 + 6$ | $x^{12} - 12x^{10} + 87x^8 - 292x^6 + 459x^4 - 248x^2 + 49$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{55}{24}$ |
| $x^{12} + 4x^{10} + 4x^9 + 6x^8 + 4x^7 + 6x^6 + 2x^4 + 4x^3 + 2$ | $x^{12} - 4x^{11} - 2x^{10} + 28x^9 - 19x^8 - 64x^7 + 74x^6 + 44x^5 - 45x^4 - 56x^3 + 28x^2 + 108x + 53$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{8}{3}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|------------------|
| $x^{12} + 2x^8 + 4x^7 + 4x^6 + 4x^5 + 4x^4 + 4x^3 + 6$ | $x^{12} - 18x^{10} - 64x^9 + 309x^8 + 384x^7 - 1496x^6 - 1668x^5 + 8307x^4 - 9372x^3 - 1866x^2 + 8688x - 6539$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3^4$ | T: 12,4 | $\frac{13}{6}$ |
| $x^{12} + 4x^8 + 4x^6 + 4x^5 + 2x^4 + 4x^3 + 4x^2 + 2$ | $x^{12} - 4x^{11} + 8x^9 - 14x^8 + 88x^6 - 168x^5 + 166x^4 - 172x^3 + 148x^2 - 56x + 2$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3^2 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3^2$ | T: 12,32 | $\frac{55}{24}$ |
| $x^{12} + 2x^8 + 4x^7 + 6x^4 + 4x^3 + 2$ | $x^{12} - 6x^{10} - 4x^9 + 33x^8 + 24x^7 - 72x^6 - 60x^5 + 87x^4 + 116x^3 + 54x^2 + 12x + 1$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \right]_3^2 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3^2$ | T: 12,26 | $\frac{29}{12}$ |
| $x^{12} + 4x^{11} + 4x^9 + 6x^8 + 4x^7 + 6x^6 + 4x^5 + 2x^4 + 4x^3 + 2$ | $x^{12} + 12x^8 - 12x^6 + 48x^4 + 144x^2 + 100$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3^2 \left[\begin{array}{c} 2 \\ 3 \end{array} \right]_3^2 \left[\begin{array}{c} 7 \\ 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{247}{96}$ |
| $x^{12} + 4x^{11} + 2x^{10} + 4x^9 + 4x^7 + 6x^6 + 4x^5 + 2x^4 + 4x^3 + 4x^2 + 2$ | $x^{12} - 16x^{10} + 167x^8 - 336x^6 - 213x^4 + 592x^2 - 539$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \right]_3^2 \left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{8}{3}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|------------------|
| $x^{12} + 2x^{10} + 2x^6 + 4x^5 + 2x^4 + 4x^3 + 2$ | $x^{12} - 8x^{11} + 30x^{10} - 60x^9 + 49x^8 - 28x^7 + 254x^6 - 648x^5 + 471x^4 + 104x^3 + 36x^2 - 456x + 257$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{8}{3} \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{8}{3}$ |
| $x^{12} + 2x^8 + 4x^7 + 4x^6 + 4x^5 + 4x^4 + 4x^3 + 4x^2 + 2$ | $x^{12} - 4x^{11} - 14x^{10} + 100x^9 - 165x^8 - 16x^7 + 300x^6 - 244x^5 - 67x^4 + 184x^3 - 54x^2 - 36x + 17$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & 2 & \frac{8}{3} \\ & & 3 \end{array} \right]_3^2$ | T: 12,90 | $\frac{235}{96}$ |
| $x^{12} + 4x^9 + 6x^6 + 4x^5 + 2x^4 + 4x^3 + 4x^2 + 2$ | $x^{12} - 12x^{10} + 27x^8 + 64x^6 + 43x^4 + 12x^2 + 1$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & 2 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{55}{24}$ |
| $x^{12} + 6x^8 + 6x^6 + 4x^5 + 6x^4 + 4x^3 + 2$ | $x^{12} - 4x^{11} + 20x^{10} - 52x^9 + 140x^8 - 252x^7 + 422x^6 - 512x^5 + 560x^4 - 524x^3 + 436x^2 - 312x + 106$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & 2 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{55}{24}$ |
| $x^{12} + 6x^8 + 4x^7 + 6x^6 + 4x^3 + 2$ | $x^{12} + 8x^{10} - 21x^8 - 84x^6 + 187x^4 + 36x^2 - 1331$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & 2 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,26 | $\frac{55}{24}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|------------------|
| $x^{12} + 4x^8 + 4x^7 + 4x^5 + 4x^3 + 6$ | $x^{12} - 4x^{11} + 14x^{10} - 28x^9 + 85x^8 - 192x^7 + 408x^6 - 636x^5 + 813x^4 - 744x^3 + 526x^2 - 236x + 67$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 8 \\ 3 \end{array} \right]_3^2$ | T: 12,90 | $\frac{235}{96}$ |
| $x^{12} + 2x^{10} + 2x^8 + 2x^6 + 6x^4 + 4x^3 + 4x^2 + 10$ | $x^{12} - 4x^{11} + 8x^{10} - 8x^9 + 42x^8 - 112x^7 + 222x^6 - 264x^5 + 300x^4 - 508x^3 + 564x^2 - 232x + 38$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \\ 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{55}{24}$ |
| $x^{12} + 4x^{11} + 4x^{10} + 4x^8 + 2x^6 + 4x^5 + 6x^4 + 4x^3 + 4x^2 + 10$ | $x^{12} - 4x^{11} + 28x^9 - 90x^8 + 144x^7 - 70x^6 - 88x^5 + 124x^4 + 76x^3 - 148x^2 - 168x - 2$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \\ 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{55}{24}$ |
| $x^{12} + 4x^8 + 4x^6 + 4x^5 + 6x^4 + 4x^3 + 6$ | $x^{12} - 4x^{11} + 8x^{10} - 8x^9 + 32x^8 - 104x^7 + 172x^6 - 180x^5 + 210x^4 - 244x^3 + 176x^2 - 64x + 10$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 8 \\ 3 \end{array} \right]_3^2$ | T: 12,90 | $\frac{235}{96}$ |
| $x^{12} + 4x^6 + 2x^4 + 4x^3 + 2$ | $x^{12} - 18x^{10} - 69x^8 - 140x^6 - 345x^4 - 450x^2 + 125$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 8 \\ 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{115}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|------------------|
| $x^{12} + 4x^{11} + 2x^8 + 4x^7 + 2x^6 + 4x^5 + 6x^4 + 4x^3 + 4x^2 + 6$ | $x^{12} - 4x^{11} - 6x^{10} + 32x^9 + 35x^8 - 196x^7 + 42x^6 + 464x^5 - 363x^4 - 476x^3 + 428x^2 + 180x - 139$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ 2 \\ 2 \\ 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{55}{24}$ |
| $x^{12} + 2x^{10} + 4x^8 + 6x^6 + 6x^4 + 4x^3 + 2$ | $x^{12} - 4x^{11} - 2x^{10} + 52x^9 - 78x^8 - 344x^7 + 1148x^6 - 368x^5 - 3452x^4 + 6128x^3 + 880x^2 - 12544x + 9604$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ 2 \\ 2 \\ 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{55}{24}$ |
| $x^{12} + 4x^{11} + 4x^7 + 6x^6 + 2x^4 + 4x^3 + 4x^2 + 10$ | $x^{12} - 8x^{10} - 21x^8 - 32x^6 - 21x^4 - 8x^2 + 1$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ 2 \\ 2 \\ \frac{8}{3} \\ \frac{8}{3} \\ 3 \end{array} \right]_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} + 6x^{10} + 2x^8 + 4x^7 + 6x^6 + 4x^5 + 4x^3 + 4x^2 + 2$ | $x^{12} - 8x^{10} - 13x^8 + 188x^6 - 237x^4 + 132x^2 - 27$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ 2 \\ 2 \\ \frac{7}{3} \\ \frac{7}{3} \\ 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{247}{96}$ |
| $x^{12} + 4x^{11} + 4x^8 + 4x^7 + 2x^6 + 4x^5 + 4x^4 + 4x^3 + 6$ | $x^{12} + 8x^{10} + 19x^8 + 32x^6 + 19x^4 + 8x^2 + 1$ | $\left[\begin{array}{c} 2 \\ \frac{8}{3} \\ \frac{8}{3} \\ 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{8}{3}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{12} + 4x^7 + 4x^6 + 4x^3 + 2$ | $x^{12} - 8x^{11} + 16x^{10} - 24x^9 + 118x^8 - 52x^7 - 548x^6 - 96x^5 + 866x^4 + 1164x^3 + 764x^2 + 256x + 34$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ \frac{8}{3} \\ \frac{8}{3} \end{array} \right]_3^2$ | T: 12,32 | $\frac{55}{24}$ |
| $x^{12} + 4x^{10} + 6x^8 + 2x^6 + 4x^4 + 4x^3 + 4x^2 + 6$ | $x^{12} + 4x^{10} - 5x^8 - 52x^6 - 93x^4 - 56x^2 - 11$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ 2 \\ 3 \end{array} \right]_3^2$ | T: 12,26 | $\frac{55}{24}$ |
| $x^{12} + 4x^9 + 4x^8 + 4x^7 + 2x^6 + 4x^3 + 4x^2 + 6$ | $x^{12} + 16x^{10} + 75x^8 + 44x^6 - 209x^4 + 484x^2 + 121$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ 2 \\ 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{55}{24}$ |
| $x^{12} + 2x^{10} + 4x^9 + 2x^8 + 4x^7 + 6x^6 + 4x^3 + 6$ | $x^{12} - 8x^{10} + 19x^8 - 32x^6 + 19x^4 - 8x^2 + 1$ | $\left[\begin{array}{c} 2 \\ \frac{8}{3} \\ \frac{8}{3} \\ 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{8}{3}$ |
| $x^{12} + 2x^5 + 2$ | $x^{12} + 12x^{10} - 24x^9 + 44x^8 - 178x^7 + 126x^6 - 306x^5 - 98x^4 - 88x^3 + 232x^2 + 228x - 510$ | $\left[\begin{array}{c} \frac{14}{9} \\ \frac{14}{9} \\ \frac{14}{9} \\ \frac{14}{9} \\ \frac{14}{9} \end{array} \right]_9^6$ | T: 12,166 | $\frac{445}{288}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{12} + 2x^6 + 2x^5 + 2x^2 + 2$ | $x^{12} - 8x^{11} - 30x^{10} + 276x^9 - 515x^8 - 596x^7 + 3424x^6 - 3988x^5 + 1435x^4 + 572x^3 - 530x^2 + 32x + 31$ | $\begin{bmatrix} 4 & 4 & 5 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 12,31 | $\frac{37}{24}$ |
| $x^{12} + 2x^5 + 2x^2 + 2$ | $x^{12} - 2x^{11} + 8x^{10} + 14x^9 + 3x^8 + 36x^7 + 96x^6 + 36x^5 + 3x^4 + 14x^3 + 8x^2 - 2x + 1$ | $\begin{bmatrix} 4 & 4 & 5 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 12,31 | $\frac{37}{24}$ |
| $x^{12} + 2x^5 + 2x^4 + 2$ | $x^{12} - 6x^{11} + 12x^{10} - 2x^9 - 27x^8 + 36x^7 - 9756x^5 + 24327x^4 + 184682x^3 - 311052x^2 + 165246x + 145799$ | $\begin{bmatrix} 14 & 14 & 14 \\ 9 & 9 & 9 \end{bmatrix}_9^6$ | T: 12,166 | $\frac{445}{288}$ |
| $x^{12} + 2x^{11} + 2x^8 + 2x^6 + 2x^5 + 2x^2 + 2$ | $x^{12} - 6x^{11} - 10x^{10} + 110x^9 - 298x^8 - 420x^7 + 766x^6 - 650x^5 - 2292x^4 - 320x^3 + 506x^2 + 68x + 2$ | $\begin{bmatrix} 4 & 4 & 5 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 12,31 | $\frac{37}{24}$ |
| $x^{12} + 2x^{11} + 2x^9 + 2x^7 + 2x^5 + 2x^4 + 2x^2 + 2$ | $x^{12} - 4x^{11} + 20x^{10} - 56x^9 + 134x^8 - 244x^7 + 338x^6 - 370x^5 + 290x^4 - 188x^3 + 114x^2 - 84x + 58$ | $\begin{bmatrix} 4 & 4 & 5 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 12,31 | $\frac{37}{24}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-----------------|
| $x^{12} + 2x^7 + 2x^6 + 2x^5 + 2x^4 + 2x^2 + 2$ | $x^{12} - 4x^{11} + 22x^{10} - 62x^9 + 160x^8 - 298x^7 + 458x^6 - 538x^5 + 478x^4 - 308x^3 + 118x^2 - 16x - 2$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right] \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 5 \\ 3 \end{array} \begin{array}{c} 5 \\ 3 \end{array} \right]_3^2$ | T: 12,31 | $\frac{37}{24}$ |
| $x^{12} + 2x^6 + 2x^5 + 2x^4 + 2x^2 + 2$ | $x^{12} - 6x^{10} - 2x^9 + 7x^8 + 2x^7 - 2x^6 - 4x^5 + x^4 + 6x^3 + 2x^2 - 2x - 1$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right] \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 5 \\ 3 \end{array} \begin{array}{c} 5 \\ 3 \end{array} \right]_3^2$ | T: 12,31 | $\frac{37}{24}$ |
| $x^{12} - 2x^{10} + 4x^9 + 4x^5 - 2x^4 + 4x^2 + 2$ | $x^{12} - 4x^{11} + 12x^{10} - 40x^9 - 89x^8 + 212x^7 - 1676x^6 + 2632x^5 - 6499x^4 + 6840x^3 - 7988x^2 + 4736x - 911$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \right]_3^2$ | T: 12,26 | $\frac{8}{3}$ |
| $x^{12} + 4x^{11} + 8x^{10} + 6x^8 - 4x^7 - 6x^6 - 4x^5 + 6x^4 - 4x^2 + 6$ | $x^{12} + 18x^{10} + 147x^8 + 506x^6 + 737x^4 + 484x^2 + 121$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 10 \\ 3 \end{array} \begin{array}{c} 10 \\ 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{19}{6}$ |
| $x^{12} + 8x^{11} + 8x^{10} + 4x^9 + 8x^8 + 8x^7 + 6x^6 - 4x^5 - 6$ | $x^{12} + 16x^{10} + 60x^8 - 48x^6 - 432x^4 - 2880x^2 - 1728$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 10 \\ 3 \end{array} \begin{array}{c} 10 \\ 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{19}{6}$ |
| $x^{12} + 8x^{10} - 4x^8 - 4x^7 - 6x^6 - 4x^5 + 4x^4 + 8x + 6$ | $x^{12} - 5x^8 - 2x^6 + 9x^4 - 6x^2 + 1$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 10 \\ 3 \end{array} \begin{array}{c} 10 \\ 3 \end{array} \right]_3^2$ | T: 12,58 | $\frac{37}{12}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} + 4x^{11} - 2x^8 + 4x^7 + 4x^5 + 4x^2 + 2$ | $x^{12} + 198x^{10} - 2232x^9 + 25479x^8 - 128664x^7 + 426396x^6 - 1248660x^5 + 1857501x^4 - 2153672x^3 + 3456018x^2 - 10039788x + 9854133$ | $\left[\begin{array}{ccc} \frac{26}{9} & \frac{26}{9} & \frac{26}{9} \\ \frac{4}{3} & 2 & \frac{26}{9} \\ & \frac{8}{3} & \frac{26}{9} \end{array} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |
| $x^{12} - 4x^{11} + 6x^{10} + 4x^9 - 2x^8 + 4x^7 + 2x^6 - 4x^5 + 2x^4 + 8x^3 + 8x^2 + 8x - 6$ | $x^{12} - 22x^{10} + 187x^8 - 770x^6 + 1727x^4 - 2420x^2 + 1331$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & \frac{10}{3} \\ \frac{4}{3} & 2 & \frac{10}{3} \\ & \frac{8}{3} & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} + 4x^{11} - 2x^{10} - 2x^8 + 4x^7 - 2x^6 + 4x^5 + 4x^2 - 2$ | $x^{12} - 3x^8 - 2x^6 + 3x^4 + 6x^2 + 1$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{10}{3} \\ \frac{8}{3} & 3 & \frac{10}{3} \\ & \frac{8}{3} & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,87 | $\frac{19}{6}$ |
| $x^{12} + 4x^{11} - 6x^{10} - 4x^9 + 8x^8 + 4x^7 + 4x^6 - 4x^5 - 4x^4 + 8x^3 + 4x^2 + 8x - 6$ | $x^{12} + 6x^{10} - 8x^9 + 45x^8 - 48x^7 + 68x^6 + 39x^4 - 16x^3 + 78x^2 - 24x + 43$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{8}{3} \\ \frac{8}{3} & 3 & 3 \\ & \frac{8}{3} & 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{8}{3}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} + 4x^{11} + 2x^{10} - 4x^9 - 2x^8 + 8x^7 + 2x^6 - 4x^5 + 6x^4 + 8x^3 + 4x^2 + 8x - 6$ | $x^{12} - 4x^{10} + 55x^8 - 130x^6 + 131x^4 - 62x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 4x^{11} + 2x^{10} - 2x^8 + 4x^5 + 4x^4 + 4x^2 + 2$ | $x^{12} - 6x^{10} - 8x^9 + 6x^8 + 32x^7 + 48x^6 + 12x^5 - 74x^4 - 120x^3 - 76x^2 - 16x + 2$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,6 | $\frac{31}{12}$ |
| $x^{12} + 4x^9 + 4x^8 + 4x^7 + 4x^6 + 4x^5 - 2$ | $x^{12} + 36x^{10} + 396x^8 - 672x^6 - 3168x^5 - 22752x^4 - 62336x^3 - 20736x^2 - 84672x - 95904$ | $\left[\begin{array}{ccc} 26 & 26 & 26 \\ 9 & 9 & 9 \end{array} \begin{array}{ccc} 26 & 26 & 26 \\ 9 & 9 & 9 \end{array} \right]^6_9$ | T: 12,166 | $\frac{823}{288}$ |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|------------------|
| $x^{12} - 2x^{10} + 4x^9 + 2x^8 + 4x^6 + 4x^5 + 4x^4 + 4x^2 - 2$ | $x^{12} - 12x^{10} - 12x^9 + 21x^8 + 20x^7 + 12x^6 + 72x^5 - 45x^4 - 268x^3 + 112x^2 + 236x - 139$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,56 | $\frac{127}{48}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} + 4x^{11} + 8x^{10} + 8x^9 + 4x^8 + 8x^7 + 6x^6 + 4x^5 + 6x^4 + 8x^3 - 4x^2 + 6$ | $x^{12} - 30x^{10} - 765x^8 + 5550x^6 - 69525x^4 + 189000x^2 - 140625$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 11 \\ 3 & 3 & 4 \end{array} \left[\begin{array}{ccc} 10 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} - 4x^{11} + 4x^9 + 4x^8 + 8x^7 - 2x^6 - 4x^5 - 6x^4 + 8x^3 - 4x^2 + 6$ | $x^{12} + 30x^{10} - 765x^8 - 5550x^6 - 69525x^4 - 189000x^2 - 140625$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 11 \\ 3 & 3 & 4 \end{array} \left[\begin{array}{ccc} 10 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} + 4x^{11} + 6x^{10} - 4x^7 - 4x^5 + 8x^4 + 8x^3 + 4x^2 + 8x + 6$ | $x^{12} - 18x^{10} - 4x^9 + 108x^8 + 20x^7 - 208x^6 + 68x^5 + 70x^4 - 168x^3 + 180x^2 - 72x + 34$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} + 4x^{10} + 4x^9 - 2x^8 + 4x^6 + 4x^5 + 4x^4 + 2$ | $x^{12} - 4x^{11} + 26x^{10} - 288x^9 + 193x^8 + 1088x^7 + 432x^6 - 6816x^5 + 5383x^4 + 4796x^3 - 5314x^2 - 792x + 1331$ | $\left[\begin{array}{ccc} 26 & 26 & 26 \\ 9 & 9 & 9 \end{array} \right] \begin{array}{ccc} 26 & 26 & 26 \\ 9 & 9 & 9 \end{array} \left[\begin{array}{ccc} 6 & 6 & 6 \\ 9 & 9 & 9 \end{array} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |
| $x^{12} + 4x^{11} + 6x^{10} + 4x^9 - 2x^8 - 4x^7 - 4x^6 + 8x^5 - 2x^4 + 8x^3 - 4x^2 + 8x + 6$ | $x^{12} - 3x^8 - 24x^7 + 76x^6 - 156x^5 + 285x^4 - 360x^3 + 288x^2 - 132x + 31$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,7 | $\frac{31}{12}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} + 4x^5 + 2$ | $x^{12} + 252x^{10} - 264x^9 + 25074x^8 - 33552x^7 + 1059744x^6 - 759600x^5 + 11107836x^4 + 22827584x^3 - 180101808x^2 + 360664704x + 1519008408$ | $\left[\begin{array}{c} \frac{26}{9} \\ \frac{26}{9} \\ \frac{26}{9} \\ \frac{26}{9} \\ \frac{26}{9} \\ \frac{26}{9} \end{array} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |
| $x^{12} - 4x^{10} - 4x^9 + 4x^8 - 4x^7 + 2x^6 - 4x^5 + 2x^4 + 8x^2 - 2$ | $x^{12} + 30x^{10} + 45x^8 - 5550x^6 - 51975x^4 - 148500x^2 - 140625$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ \frac{2}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{10}{3} \\ \frac{10}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} - 4x^{11} - 6x^{10} + 8x^9 + 2x^8 - 4x^7 + 2x^6 + 4x^5 - 4x^4 + 8x^3 - 4x^2 + 8x - 6$ | $x^{12} - 14x^{10} + 75x^8 - 154x^6 + 77x^4 + 121$ | $\left[\begin{array}{c} 2 \\ \frac{8}{3} \\ \frac{8}{3} \\ 3 \\ \frac{10}{9} \\ \frac{10}{3} \end{array} \right]_3^2$ | T: 12,87 | $\frac{19}{6}$ |
| $x^{12} + 4x^8 + 4x^7 + 4x^6 + 4x^5 + 2x^4 + 2$ | $x^{12} + 64x^{10} - 48x^9 + 1466x^8 - 1464x^7 + 14392x^6 - 7524x^5 + 29204x^4 + 67152x^3 - 276380x^2 + 132072x - 100262$ | $\left[\begin{array}{c} \frac{26}{9} \\ \frac{26}{9} \\ \frac{26}{9} \\ \frac{26}{9} \\ \frac{26}{9} \\ \frac{26}{9} \end{array} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{12} - 2x^{10} + 4x^9 + 4x^8 + 4x^6 + 4x^5 + 4x^2 - 2$ | $x^{12} - 4x^{11} + 12x^{10} - 16x^9 + 15x^8 + 4x^7 - 8x^6 + 8x^5 - 47x^4 + 56x^3 + 16x^2 - 48x + 13$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{8}{3} \right]_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} + 4x^{11} - 2x^{10} + 4x^9 - 2x^8 - 2x^6 + 4x^5 + 4x^2 - 2$ | $x^{12} - 6x^{10} + 9x^8 - 6x^6 + 3x^4 - 3$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 3 & 3 & 3 \end{array} \frac{8}{3} \frac{10}{3} \frac{10}{3} \right]_3^2$ | T: 12,87 | $\frac{149}{48}$ |
| $x^{12} + 4x^9 + 4x^5 - 2x^4 + 2$ | $x^{12} - 180x^{10} - 2100x^9 + 450x^8 + 206100x^7 + 1601400x^6 + 9130500x^5 + 32490000x^4 + 86813000x^3 + 157522500x^2 + 224910000x + 93363750$ | $\left[\begin{array}{ccc} 26 & 26 & 26 \\ 9 & 9 & 9 \end{array} \frac{26}{9} \frac{26}{9} \frac{26}{9} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |
| $x^{12} + 4x^{10} + 4x^9 - 2x^8 + 4x^7 + 4x^5 + 2x^4 + 4x^2 - 2$ | $x^{12} - 72x^{10} - 672x^9 - 10296x^8 - 7704x^7 - 137544x^6 + 357300x^5 - 728154x^4 + 3346528x^3 - 8364852x^2 - 812808x - 3450222$ | $\left[\begin{array}{ccc} 26 & 26 & 26 \\ 9 & 9 & 9 \end{array} \frac{26}{9} \frac{26}{9} \frac{26}{9} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 4x^{11} - 2x^{10} + 4x^8 + 4x^6 + 4x^5 + 2$ | $x^{12} - 8x^9 + 3x^8 - 12x^7 + 16x^6 + 24x^5 - 21x^4 - 12x^3 + 12x^2 - 1$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,7 | $\frac{31}{12}$ |
| $x^{12} + 8x^{11} + 8x^{10} + 4x^9 + 8x^8 + 6x^6 + 4x^5 + 6x^4 + 8x - 2$ | $x^{12} - 30x^{10} + 270x^8 + 100x^6 - 12600x^4 + 54000x^2 - 62500$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 11 & 10 & 10 \\ 4 & 3 & 3 \end{array} \right]^2_3$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} + 8x^{11} + 2x^{10} + 8x^9 + 2x^8 + 4x^7 - 2x^6 + 4x^5 - 4x^4 - 4x^2 + 8x - 2$ | $x^{12} - 3x^8 + 2x^6 + 3x^4 - 6x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 10 & 10 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,87 | $\frac{19}{6}$ |
| $x^{12} - 2x^{10} + 4x^9 + 4x^8 - 4x^7 + 6x^6 - 4x^5 + 8x^4 + 8x^3 + 2$ | $x^{12} + 30x^{10} + 225x^8 - 1590x^6 - 26595x^4 - 67500x^2 - 38025$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 8x^{11} - 4x^{10} + 8x^9 + 2x^8 - 4x^7 + 6x^6 - 4x^5 - 4x^4 + 8x^3 + 4x^2 - 6$ | $x^{12} + 10x^{10} + 51x^8 + 130x^6 + 213x^4 + 220x^2 + 121$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,87 | $\frac{19}{6}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} + 4x^{11} - 2x^{10} + 4x^9 + 4x^7 + 4x^5 + 2x^4 + 2$ | $x^{12} - 4x^{11} + 6x^{10} + 4x^9 - 32x^8 + 36x^7 + 96x^6 - 244x^5 + 306x^4 - 24x^3 - 240x^2 - 152x - 22$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |
| $x^{12} + 4x^{11} + 2x^{10} + 4x^9 - 2x^8 + 4x^7 - 2x^6 + 4x^5 + 2x^4 + 4x^2 - 2$ | $x^{12} - 4x^{10} + 17x^8 - 26x^6 + 89x^4 + 66x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 11 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} - 2x^{10} + 8x^9 + 8x^8 + 8x^7 + 6x^6 + 4x^5 + 8x^4 + 8x^3 + 4x^2 + 8x + 2$ | $x^{12} - 4x^{10} - 7x^8 + 22x^6 + 165x^4 - 594x^2 + 539$ | $\left[\begin{array}{ccc} 4 & 4 & 11 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} + 4x^{11} - 2x^{10} + 4x^9 + 4x^7 - 2x^6 + 4x^5 + 2$ | $x^{12} + 10x^{10} + 65x^8 + 266x^6 + 609x^4 + 792x^2 + 539$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} - 2x^8 + 4x^6 + 4x^5 + 4x^2 + 2$ | $x^{12} + 12x^{10} - 296x^9 + 404x^8 + 2532x^7 - 8008x^6 + 12428x^5 + 3822x^4 + 19160x^3 - 21888x^2 + 10368x - 4374$ | $\left[\begin{array}{ccc} 26 & 26 & 26 \\ 9 & 9 & 9 \end{array} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-------------------|
| $x^{12} + 2x^{10} + 4x^9 + 4x^8 + 4x^7 + 4x^5 + 4x^4 + 2$ | $x^{12} - 24x^{10} - 116x^9 - 147x^8 + 876x^7 + 6856x^6 + 24240x^5 + 54327x^4 + 83868x^3 + 86304x^2 + 60660x + 29005$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |
| $x^{12} + 4x^{10} + 4x^9 + 4x^8 + 4x^6 + 4x^5 - 2x^4 - 2$ | $x^{12} + 20x^{10} - 112x^9 + 170x^8 + 504x^7 - 1456x^6 + 2112x^5 - 4844x^4 + 14128x^3 - 10192x^2 + 2880x - 3528$ | $\left[\begin{array}{ccc} 26 & 26 & 26 \\ 9 & 9 & 9 \end{array} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |
| $x^{12} - 2x^{10} - 4x^9 + 4x^8 - 4x^7 - 2x^6 + 4x^5 - 6x^4 + 8x^3 - 4x^2 + 8x - 2$ | $x^{12} + 10x^{10} + 29x^8 - 2x^6 - 73x^4 + 44x^2 - 11$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{149}{48}$ |
| $x^{12} + 4x^{10} + 2x^8 + 4x^7 + 4x^5 + 2x^4 + 4x^2 - 2$ | $x^{12} - 46x^{10} - 136x^9 + 495x^8 + 3528x^7 + 5312x^6 - 6324x^5 - 16357x^4 + 30760x^3 + 124334x^2 + 159396x + 84663$ | $\left[\begin{array}{ccc} 26 & 26 & 26 \\ 9 & 9 & 9 \end{array} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} - 4x^{11} + 8x^{10} - 4x^9 + 8x^8 - 6x^6 + 4x^5 - 6x^4 + 4x^2 + 8x + 2$ | $x^{12} + 6x^{10} - 14x^8 - 212x^6 + 696x^4 - 352x^2 - 484$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 11 & 10 & 10 \\ 4 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} - 6x^{10} + 8x^9 - 6x^8 + 4x^7 + 4x^6 + 4x^5 - 4x^2 + 6$ | $x^{12} - 4x^{11} + 16x^{10} - 48x^9 + 119x^8 - 220x^7 + 332x^6 - 392x^5 + 379x^4 - 280x^3 + 168x^2 - 64x + 19$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |
| $x^{12} + 4x^{11} + 2x^{10} - 2x^8 + 4x^5 + 4x^2 + 2$ | $x^{12} - 12x^{10} - 32x^9 + 69x^8 + 588x^7 - 464x^6 - 4344x^5 + 4197x^4 + 12996x^3 - 15624x^2 - 13296x + 20071$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,6 | $\frac{31}{12}$ |
| $x^{12} + 4x^{10} + 4x^5 - 2x^4 - 2$ | $x^{12} - 66x^{10} - 140x^9 + 1413x^8 + 5220x^7 - 816x^6 - 9504x^5 + 29475x^4 + 38596x^3 - 8298x^2 + 112164x + 119821$ | $\left[\begin{array}{ccc} 26 & 26 & 26 \\ 9 & 9 & 9 \end{array} \right] \begin{array}{ccc} 26 & 26 & 26 \\ 9 & 9 & 9 \end{array} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |
| $x^{12} + 8x^{11} - 6x^{10} - 2x^8 - 4x^7 - 6x^6 - 4x^5 - 6x^4 + 8x^3 - 4x^2 + 6$ | $x^{12} + 30x^{10} + 495x^8 + 7050x^6 + 35775x^4 + 54000x^2 - 5625$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 11 & 10 & 10 \\ 4 & 4 & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} - 6x^{10} + 6x^8 + 6x^6 + 4x^5 - 6x^4 - 4x^2 - 2$ | $x^{12} - 12x^{10} + 47x^8 - 66x^6 + 55x^4 - 22x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ 10 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 8x^{11} + 4x^{10} + 8x^9 - 2x^8 - 6x^6 + 4x^5 - 4x^4 + 8x^3 + 8x + 6$ | $x^{12} + 10x^{10} + 21x^8 - 42x^6 - 51x^4 + 220x^2 - 121$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ 10 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 2x^{10} + 8x^9 + 4x^8 + 6x^6 + 4x^5 - 2x^4 + 8x^3 + 4x^2 - 6$ | $x^{12} - 8x^{10} + x^8 + 118x^6 - 125x^4 - 134x^2 - 27$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 3 & 3 \\ 10 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]^2$ | T: 12,87 | $\frac{19}{6}$ |
| $x^{12} + 4x^{11} + 8x^{10} + 6x^8 + 4x^7 + 2x^6 - 4x^5 + 8x^2 + 2$ | $x^{12} - 30x^{10} - 60x^9 + 291x^8 + 3720x^7 - 15022x^6 + 360x^5 + 69819x^4 - 108480x^3 + 57324x^2 - 5460x - 3569$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 11 & 11 & 11 \\ 4 & 4 & 4 \\ 3 & 3 & 3 \end{array} \right]^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} - 4x^{11} - 4x^{10} + 8x^9 + 2x^8 + 4x^7 - 2x^6 + 4x^5 + 8x^3 + 8x - 2$ | $x^{12} - 7x^8 - 6x^6 + 13x^4 + 26x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 11 & 11 & 11 \\ 4 & 4 & 4 \\ 3 & 3 & 3 \end{array} \right]^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} - 4x^{11} + 6x^{10} + 4x^9 + 4x^8 + 4x^7 + 2x^6 - 4x^5 - 4x^4 - 4x^2 - 2$ | $x^{12} + 6x^{10} + 2x^8 - 16x^6 + 16x^4 + 72x^2 + 44$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ 10 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]^2$ | T: 12,189 | $\frac{1219}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 2x^{10} + 2x^8 + 4x^6 + 4x^5 + 4x^4 + 4x^2 + 2$ | $x^{12} - 72x^{10} - 460x^9 - 1179x^8 - 540x^7 + 4464x^6 + 11400x^5 + 8301x^4 - 10260x^3 - 26340x^2 - 21420x - 6481$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |
| $x^{12} - 4x^{11} + 6x^{10} + 8x^9 + 2x^8 - 6x^6 + 4x^5 - 2x^4 + 8x^3 + 8x^2 + 8x + 2$ | $x^{12} + 14x^{10} + 45x^8 + 22x^6 - 55x^4 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} - 4x^{11} + 4x^9 + 6x^8 + 8x^7 + 6x^6 + 4x^5 + 2x^4 + 4x^2 + 8x + 2$ | $x^{12} - 6x^{10} - 6x^8 + 288x^6 - 972x^4 + 1296x^2 - 972$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{149}{48}$ |
| $x^{12} + 4x^{11} + 4x^{10} + 4x^6 + 4x^5 - 2$ | $x^{12} - 30x^{10} - 48x^9 + 1215x^8 - 2856x^7 - 8664x^6 + 49716x^5 - 61131x^4 - 59248x^3 + 178758x^2 - 104004x + 38205$ | $\left[\begin{array}{ccc} 26 & 26 & 26 \\ 9 & 9 & 9 \end{array} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |
| $x^{12} + 4x^{11} + 8x^8 + 8x^7 - 6x^6 - 4x^5 + 8x^4 + 8x^3 + 4x^2 + 6$ | $x^{12} - 6x^{10} + 6x^8 + 16x^6 - 16x^4 - 16x^2 + 4$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{19}{6}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{12} - 72x^{10} - 192x^9 + 2664x^8 + 9216x^7 - 70764x^6 + 359280x^5 - 5943744x^4 + 43768448x^3 - 160314912x^2 + 316455552x - 274977612$ | | $\left[\begin{array}{c} \frac{26}{9} \\ \frac{26}{9} \\ \frac{26}{9} \\ \frac{26}{9} \\ \frac{26}{9} \\ \frac{26}{9} \end{array} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |
| $x^{12} + 4x^{11} + 4x^5 + 4x^4 + 2$ | | | | |
| $x^{12} + 2x^{10} - 2x^8 + 4x^5 - 2x^4 - 2$ | $x^{12} - 12x^9 + 7x^8 + 32x^6 - 12x^5 - 13x^4 - 32x^3 + 16x^2 + 8x + 7$ | $\left[\begin{array}{c} 2 \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \end{array} \right]_3^2$ | T: 12,25 | $\frac{8}{3}$ |
| $x^{12} + 4x^7 + 4x^5 + 4x^2 - 2$ | $x^{12} + 26x^{10} - 396x^9 + 2949x^8 - 10896x^7 + 24136x^6 - 12476x^5 - 120547x^4 + 347400x^3 - 516158x^2 + 652648x - 740389$ | $\left[\begin{array}{c} \frac{26}{9} \\ \frac{26}{9} \\ \frac{26}{9} \\ \frac{26}{9} \\ \frac{26}{9} \\ \frac{26}{9} \end{array} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |
| $x^{12} + 4x^{11} + 2x^{10} - 4x^9 - 6x^8 - 4x^7 + 2x^6 + 4x^5 + 8x^4 + 8x^3 + 4x^2 - 2$ | $x^{12} + 10x^{10} + 39x^8 + 70x^6 + 49x^4 - 11$ | $\left[\begin{array}{c} 2 \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ 3 \\ \frac{10}{3} \end{array} \right]_3^2$ | T: 12,87 | $\frac{19}{6}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 2x^{10} + 4x^5 + 4x^2 - 2$ | $x^{12} - 24x^{10} - 48x^9 + 45x^8 + 168x^7 + 60x^6 + 84x^5 + 783x^4 + 1432x^3 + 1032x^2 + 252x + 5$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \right]_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} + 4x^{11} + 4x^{10} + 4x^9 + 2x^8 + 4x^6 + 4x^5 + 2x^4 + 4x^2 + 2$ | $x^{12} + 18x^{10} + 81x^8 + 1092x^6 - 2988x^5 + 8307x^4 - 17960x^3 + 8586x^2 + 9828x - 6615$ | $\left[\begin{array}{c} 26 \\ 9 \end{array} \frac{26}{9} \quad \frac{26}{9} \quad \frac{26}{9} \quad \frac{26}{9} \quad \frac{26}{9} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |
| $x^{12} - 4x^{11} + 2x^{10} + 4x^9 + 6x^8 + 8x^7 - 6x^6 - 4x^5 + 6x^4 + 8x^2 + 8x - 2$ | $x^{12} - 30x^{10} - 135x^8 + 1050x^6 + 4725x^4 - 5625$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{10}{3} \quad \frac{10}{3} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} - 2x^{10} - 4x^5 - 6x^4 + 6$ | $x^{12} - 4x^{11} - 14x^{10} + 72x^9 + 61x^8 - 584x^7 + 156x^6 + 2496x^5 - 1793x^4 - 6252x^3 + 2274x^2 + 6656x + 1367$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad 3 \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |
| $x^{12} - 4x^{11} + 8x^{10} - 4x^9 + 8x^8 - 4x^7 + 6x^6 - 4x^5 + 6x^4 + 4x^2 + 2$ | $x^{12} + 2x^{10} - 11x^8 - 66x^6 - 143x^4 - 176x^2 - 121$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{10}{3} \quad \frac{10}{3} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{12} + 2x^{10} + 4x^9 - 2x^8 + 4x^6 + 4x^5 + 2$ | $x^{12} - 4x^{11} + 4x^{10} - 8x^9 + 37x^8 - 68x^7 + 108x^6 - 160x^5 + 75x^4 + 88x^3 - 116x^2 + 48x - 7$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{26}{9} & \frac{8}{3} & 3 \\ \frac{26}{9} & \frac{26}{9} & 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{8}{3}$ |
| $x^{12} + 4x^{11} + 4x^9 - 2x^8 + 4x^5 - 2x^4 + 4x^2 + 2$ | $x^{12} - 288x^{10} - 1596x^9 + 34884x^8 + 253692x^7 - 749376x^6 - 12505860x^5 - 50310774x^4 - 99795504x^3 - 107991468x^2 - 63503784x - 21280122$ | $\left[\begin{array}{ccc} \frac{26}{9} & \frac{26}{9} & \frac{26}{9} \\ \frac{26}{9} & \frac{26}{9} & \frac{26}{9} \\ \frac{26}{9} & \frac{26}{9} & \frac{26}{9} \end{array} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |
| $x^{12} - 4x^{11} - 6x^{10} + 8x^9 + 2x^8 - 4x^7 - 2x^6 - 4x^5 - 4x^4 + 8x + 6$ | $x^{12} + 9x^8 + 6x^6 - 33x^4 + 18x^2 - 3$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{10}{3} & \frac{10}{3} & 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{19}{6}$ |
| $x^{12} + 8x^{11} + 2x^{10} + 4x^9 - 4x^8 + 8x^7 - 2x^6 + 4x^5 + 6x^4 + 8x^2 + 2$ | $x^{12} + 6x^{10} - 13x^8 + 6x^6 - 111x^4 - 36x^2 - 27$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{10}{3} & \frac{10}{3} & 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{19}{6}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 4x^{11} - 2x^{10} + 4x^9 + 2x^8 + 4x^7 + 4x^5 - 2x^4 + 2$ | $x^{12} - 4x^{11} + 12x^{10} - 8x^9 - 323x^8 + 2008x^7 - 6128x^6 + 11756x^5 - 15313x^4 + 13828x^3 - 8472x^2 + 3252x - 611$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,26 | $\frac{8}{3}$ |
| $x^{12} - 6x^{10} + 2x^8 + 4x^7 - 6x^6 + 4x^5 - 6x^4 + 8x - 6$ | $x^{12} + 6x^{10} + 15x^8 + 26x^6 + 27x^4 + 20x^2 + 11$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ 2 & \frac{8}{3} & \frac{11}{4} \\ \frac{4}{3} & \frac{8}{3} & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} + 4x^{11} + 2x^{10} + 4x^9 - 4x^8 + 8x^6 - 4x^5 + 2x^4 + 8x^3 + 6$ | $x^{12} - 8x^{10} - 8x^9 + 23x^8 + 44x^7 + 32x^6 + 56x^5 + 55x^4 + 20x^3 + 36x^2 + 11$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,7 | $\frac{31}{12}$ |
| $x^{12} + 2x^{10} + 4x^9 + 2x^8 + 4x^6 + 4x^5 + 2x^4 + 2$ | $x^{12} - 4x^{11} + 24x^{10} - 64x^9 + 177x^8 - 292x^7 + 504x^6 - 496x^5 + 587x^4 - 248x^3 + 252x^2 + 48x + 53$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{4}{3} & 2 & \frac{8}{3} \\ \frac{4}{3} & \frac{8}{3} & 3 \end{array} \right]_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} + 4x^{10} + 4x^9 - 2x^8 + 4x^7 - 2x^6 + 4x^5 + 4x^4 - 2$ | $x^{12} - 14x^{10} + 59x^8 - 110x^6 + 99x^4 - 44x^2 + 11$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ 2 & \frac{8}{3} & \frac{11}{4} \\ \frac{4}{3} & \frac{8}{3} & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 4x^{11} + 2x^{10} + 8x^9 - 6x^8 - 4x^7 + 2x^6 - 4x^5 + 2x^4 + 8x^2 - 2$ | $x^{12} + 4x^{10} - 7x^8 - 22x^6 + 165x^4 + 594x^2 + 539$ | $\left[\begin{array}{ccc} 4 & 4 & \\ 3 & 3 & 2 \\ & 8 & 3 \\ & 3 & 3 \\ & 11 & 10 \\ & 3 & 3 \\ & 4 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} + 8x^{11} - 4x^{10} + 4x^9 - 4x^8 - 4x^7 + 2x^6 + 4x^5 - 4x^4 + 8x^2 + 8x - 2$ | $x^{12} - 18x^{10} + 78x^8 - 260x^6 + 1200x^4 - 3000x^2 + 2500$ | $\left[\begin{array}{ccc} 2 & 8 & \\ 3 & 3 & 2 \\ & 8 & 3 \\ & 3 & 3 \\ & 10 & 10 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,58 | $\frac{37}{12}$ |
| $x^{12} + 4x^{10} + 2x^8 - 4x^7 - 2x^6 + 4x^5 + 6x^4 + 8x^3 + 4x^2 + 2$ | $x^{12} - 3x^8 - 2x^6 + 3x^4 + 2x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 8 & \\ 3 & 3 & 2 \\ & 8 & 3 \\ & 3 & 3 \\ & 10 & 10 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{19}{6}$ |
| $x^{12} + 2x^{10} + 4x^9 + 4x^7 + 4x^6 + 4x^5 + 4x^2 - 2$ | $x^{12} - 4x^{11} + 36x^{10} - 124x^9 + 522x^8 - 1280x^7 + 3216x^6 - 5336x^5 + 8396x^4 - 8696x^3 + 7584x^2 - 3424x + 652$ | $\left[\begin{array}{ccc} 4 & 4 & \\ 3 & 3 & 2 \\ & 8 & 3 \\ & 2 & 3 \\ & 8 & 3 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} + 2x^{10} + 4x^9 + 2x^8 + 4x^7 + 4x^5 + 2x^4 + 2$ | $x^{12} - 40x^{10} - 32x^9 + 571x^8 + 892x^7 - 3056x^6 - 7536x^5 + 2637x^4 + 20988x^3 + 17180x^2 - 1672x - 4759$ | $\left[\begin{array}{ccc} 2 & 8 & \\ 3 & 3 & 2 \\ & 8 & 3 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,26 | $\frac{8}{3}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 4x^{11} + 4x^{10} - 2x^8 + 4x^7 + 4x^5 - 2x^4 + 4x^2 + 2$ | $x^{12} + 34x^{10} - 24x^9 - 389x^8 - 1968x^7 + 496x^6 + 19344x^5 + 67511x^4 + 96048x^3 + 18414x^2 - 132744x - 182279$ | $\left[\begin{array}{c} \frac{26}{9} \\ \frac{26}{9} \\ \frac{26}{9} \end{array} \right]_9$ $\left[\begin{array}{c} \frac{26}{9} \\ \frac{26}{9} \\ \frac{26}{9} \end{array} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |
| $x^{12} - 4x^{11} + 2x^{10} + 4x^9 + 6x^8 - 6x^6 + 4x^5 - 2x^4 + 8x - 6$ | $x^{12} - 22x^{10} + 242x^8 - 1584x^6 + 5368x^4 - 8712x^2 + 5324$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ \frac{2}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \end{array} \right]_3$ $\left[\begin{array}{c} \frac{10}{3} \\ \frac{10}{3} \\ \frac{10}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} - 4x^{11} + 2x^{10} + 4x^9 - 2x^8 + 2x^6 - 4x^5 - 4x^4 + 4x^2 - 2$ | $x^{12} + 6x^{10} + 18x^8 + 32x^6 + 36x^4 + 24x^2 + 4$ | $\left[\begin{array}{c} \frac{2}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{10}{3} \\ \frac{10}{3} \end{array} \right]_3^2$ | T: 12,58 | $\frac{37}{12}$ |
| $x^{12} + 8x^{11} - 2x^{10} - 6x^6 + 4x^5 + 8x^4 + 8x^2 + 8x - 6$ | $x^{12} - 10x^{10} + 43x^8 - 90x^6 + 103x^4 - 44x^2 + 11$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ \frac{2}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{11}{4} \\ \frac{10}{3} \\ \frac{10}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 4x^9 + 2x^8 + 4x^6 + 4x^5 + 4x^4 + 2$ | $x^{12} - 72x^{10} - 372x^9 - 1386x^8 + 55656x^7 - 87144x^6 + 653580x^5 - 5774454x^4 - 9732112x^3 - 111955212x^2 + 727015392x + 975591918$ | $\left[\begin{array}{c} \frac{26}{9} \\ \frac{26}{9} \\ \frac{26}{9} \\ \frac{26}{9} \\ \frac{26}{9} \end{array} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |
| $x^{12} + 4x^{11} + 6x^{10} + 2x^8 - 4x^7 - 6x^6 + 4x^5 - 6x^4 + 8x^3 - 4x^2 + 8x - 6$ | $x^{12} - 2x^{10} - 110x^8 - 572x^6 - 1232x^4 - 1232x^2 - 484$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ \frac{2}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{11}{4} \\ \frac{10}{3} \\ \frac{10}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} + 4x^{11} + 8x^9 + 4x^8 + 4x^7 + 2x^6 - 4x^5 + 8x^3 + 8x - 6$ | $x^{12} + 38x^{10} + 818x^8 + 12236x^6 + 114464x^4 + 573496x^2 + 1162084$ | $\left[\begin{array}{c} 2 \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{10}{3} \\ \frac{10}{3} \end{array} \right]_3^2$ | T: 12,58 | $\frac{37}{12}$ |
| $x^{12} + 2x^{10} + 4x^9 + 8x^8 + 4x^7 + 6x^6 + 4x^5 + 2x^4 + 8x^3 - 4x^2 + 8x + 6$ | $x^{12} - 22x^{10} + 110x^8 + 484x^6 - 4840x^4 + 10648x^2 - 5324$ | $\left[\begin{array}{c} 2 \\ 2 \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{10}{3} \\ \frac{10}{3} \end{array} \right]_3^2$ | T: 12,87 | $\frac{149}{48}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{12} + 8x^{11} + 8x^{10} + 8x^9 + 2x^8 + 8x^7 + 6x^6 + 4x^5 - 6x^4 + 8x - 6$ | $x^{12} - 10x^{10} + 45x^8 - 122x^6 + 199x^4 - 176x^2 + 121$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} \frac{8}{3} \\ \frac{8}{3} \end{array} \begin{array}{c} \frac{10}{3} \\ \frac{10}{3} \end{array} \right]_3^2$ | T: 12,58 | $\frac{37}{12}$ |
| $x^{12} + 8x^{11} - 4x^{10} + 8x^8 + 4x^7 + 6x^6 - 4x^5 + 8x^4 + 6$ | $x^{12} + 14x^{10} + 49x^8 + 22x^6 - 121x^4 + 121$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} \frac{8}{3} \\ \frac{8}{3} \end{array} \begin{array}{c} \frac{10}{3} \\ \frac{10}{3} \end{array} \right]_3^2$ | T: 12,58 | $\frac{37}{12}$ |
| $x^{12} - 4x^9 - 4x^8 - 4x^7 - 2x^6 + 4x^5 + 8x^4 + 8x^3 + 8x - 2$ | $x^{12} + 18x^{10} + 78x^8 + 260x^6 + 1200x^4 + 3000x^2 + 2500$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} \frac{8}{3} \\ \frac{8}{3} \end{array} \begin{array}{c} \frac{10}{3} \\ \frac{10}{3} \end{array} \right]_3^2$ | T: 12,58 | $\frac{37}{12}$ |
| $x^{12} + 4x^{10} + 4x^8 + 4x^5 - 2x^4 + 4x^2 + 2$ | $x^{12} - 86x^{10} - 32x^9 + 4181x^8 - 1488x^7 - 177884x^6 + 1012464x^5 - 2552529x^4 + 3090672x^3 - 977878x^2 - 1453680x + 1152075$ | $\left[\begin{array}{c} \frac{26}{9} \\ \frac{26}{9} \end{array} \begin{array}{c} \frac{26}{9} \\ \frac{26}{9} \end{array} \begin{array}{c} \frac{26}{9} \\ \frac{26}{9} \end{array} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |
| $x^{12} + 2x^{10} + 4x^9 + 4x^8 + 4x^7 + 4x^5 - 2x^4 + 4x^2 - 2$ | $x^{12} - 4x^{11} + 22x^{10} - 48x^9 + 129x^8 - 184x^7 + 308x^6 - 352x^5 + 367x^4 - 380x^3 + 262x^2 - 88x + 11$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} \frac{8}{3} \\ \frac{8}{3} \end{array} \begin{array}{c} \frac{8}{3} \\ \frac{8}{3} \end{array} \right]_3^2$ | T: 12,25 | $\frac{8}{3}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 4x^{11} + 8x^{10} + 4x^9 + 6x^8 + 8x^7 + 6x^6 + 4x^5 - 4x^4 + 4x^2 + 8x + 6$ | $x^{12} + 22x^{10} + 242x^8 + 1584x^6 + 5368x^4 + 8712x^2 + 5324$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{4}{3} & \frac{8}{3} & \frac{8}{3} \\ \frac{4}{3} & \frac{10}{3} & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 4x^{11} + 2x^6 + 4x^5 - 2x^4 - 2$ | $x^{12} - 30x^{10} + 270x^8 + 60x^6 - 15120x^4 + 86400x^2 - 152100$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{4}{3} & \frac{8}{3} & \frac{8}{3} \\ \frac{4}{3} & \frac{11}{4} & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} + 4x^{11} + 2x^{10} + 4x^9 + 2x^8 + 4x^6 + 4x^5 - 2x^4 + 4x^2 + 2$ | $x^{12} + 6x^{10} + 3x^8 - 28x^6 - 33x^4 + 6x^2 - 3$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{8}{3} & \frac{8}{3} & 3 \end{array} \right]_3^2$ | T: 12,6 | $\frac{31}{12}$ |
| $x^{12} + 4x^9 + 2x^8 + 4x^7 + 4x^6 + 4x^5 + 4x^4 + 4x^2 + 2$ | $x^{12} + 162x^{10} - 1824x^9 + 31689x^8 - 128052x^7 - 2523516x^6 - 8985960x^5 - 14993739x^4 - 27164956x^3 - 68198418x^2 - 97522776x - 51324117$ | $\left[\begin{array}{ccc} \frac{26}{9} & \frac{26}{9} & \frac{26}{9} \\ \frac{26}{9} & \frac{26}{9} & \frac{26}{9} \\ \frac{26}{9} & \frac{26}{9} & \frac{26}{9} \end{array} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} + 4x^{10} + 4x^8 + 4x^7 + 4x^5 + 2$ | $x^{12} - 4x^{10} - 512x^9 + 5332x^8 - 24704x^7 + 61408x^6 - 76032x^5 + 22000x^4 + 10752x^3 + 60864x^2 - 46080x - 35136$ | $\left[\begin{array}{c} \frac{26}{9} \\ \frac{26}{9} \\ \frac{26}{9} \end{array} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |
| $x^{12} - 2x^8 + 4x^7 - 2x^6 + 4x^5 + 4x^2 - 2$ | $x^{12} - 6x^{10} + 15x^8 - 26x^6 + 27x^4 - 20x^2 + 11$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ \frac{2}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{11}{4} \\ \frac{10}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} - 4x^{11} + 6x^{10} - 2x^8 - 4x^7 - 4x^5 + 2x^4 + 8x^3 - 4x^2 + 8x - 6$ | $x^{12} - 20x^9 - 27x^8 + 16x^7 + 116x^6 + 204x^5 + 47x^4 - 288x^3 - 460x^2 - 312x - 79$ | $\left[\begin{array}{c} \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \end{array} \right]_3^2$ | T: 12,7 | $\frac{31}{12}$ |
| $x^{12} + 2x^{10} + 4x^9 + 4x^8 + 4x^6 + 4x^5 + 2x^4 - 2$ | $x^{12} - 4x^{11} + 12x^{10} - 36x^9 + 103x^8 - 244x^7 + 412x^6 - 432x^5 + 245x^4 + 24x^2 - 100x + 53$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ \frac{4}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \end{array} \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |
| $x^{12} - 2x^{10} + 6x^8 - 6x^6 + 4x^5 - 2x^4 + 8x - 6$ | $x^{12} - 6x^{10} + 2x^8 + 16x^6 + 16x^4 - 72x^2 + 44$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ \frac{4}{3} \\ \frac{2}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{10}{3} \\ \frac{10}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{12} + 4x^{10} - 4x^9 + 2x^8 + 8x^7 + 2x^6 + 4x^5 - 6x^4 + 8x + 6$ | $x^{12} - 14x^{10} + 49x^8 - 22x^6 - 121x^4 + 121$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{10}{3} \\ & \frac{8}{3} & \frac{10}{3} \\ & & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,58 | $\frac{37}{12}$ |
| $x^{12} + 4x^{11} + 4x^8 + 4x^5 + 4x^2 - 2$ | $x^{12} + 26x^{10} - 200x^9 - 285x^8 + 3104x^7 - 700x^6 - 17936x^5 + 14735x^4 + 43040x^3 - 48222x^2 - 21480x + 6973$ | $\left[\begin{array}{ccc} \frac{26}{9} & \frac{26}{9} & \frac{26}{9} \\ & \frac{26}{9} & \frac{26}{9} \\ & & \frac{26}{9} \end{array} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |
| $x^{12} + 8x^{11} - 2x^{10} - 4x^9 - 6x^8 + 4x^7 - 4x^6 - 4x^5 - 4x^2 + 8x + 6$ | $x^{12} - 4x^{11} + 10x^{10} - 28x^9 + 66x^8 - 92x^7 + 84x^6 - 100x^5 + 160x^4 - 160x^3 + 100x^2 - 64x + 38$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & \frac{8}{3} \\ & \frac{8}{3} & \frac{8}{3} \\ & & \frac{8}{3} \end{array} \right]_3^2$ | T: 12,7 | $\frac{31}{12}$ |
| $x^{12} - 2x^{10} + 2x^8 + 4x^5 + 4x^4 - 2$ | $x^{12} - 4x^{11} + 16x^{10} - 36x^9 + 49x^8 - 76x^7 + 32x^6 - 8x^5 + x^4 + 64x^3 - 48x^2 + 12x - 1$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & \frac{4}{3} \\ & \frac{4}{3} & \frac{4}{3} \\ & & \frac{4}{3} \end{array} \right]_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} + 4x^{11} - 4x^{10} + 4x^9 + 4x^8 + 8x^7 + 2x^6 + 4x^5 + 4x^2 + 8x - 2$ | $x^{12} - 20x^{10} - 12x^9 + 143x^8 + 96x^7 - 672x^6 - 168x^5 + 6915x^4 + 23232x^3 + 38252x^2 + 32916x + 11641$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{10}{3} \\ & \frac{8}{3} & \frac{10}{3} \\ & & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,87 | $\frac{19}{6}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 4x^{11} - 2x^{10} + 4x^9 + 6x^8 + 4x^7 - 2x^6 + 4x^5 + 6x^4 + 4x^2 + 8x - 2$ | $x^{12} + 30x^{10} + 270x^8 - 60x^6 - 15120x^4 - 86400x^2 - 152100$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{4}{3} & \frac{8}{3} & \frac{8}{3} \\ \frac{11}{4} & \frac{10}{3} & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} + 8x^{11} + 8x^{10} + 4x^9 - 2x^8 + 8x^7 - 2x^6 + 4x^5 + 8x^4 + 8x^3 + 2$ | $x^{12} - 24x^{10} + 207x^8 - 726x^6 + 351x^4 + 3510x^2 - 5625$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{4}{3} & \frac{8}{3} & \frac{8}{3} \\ 3 & 3 & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 8x^{11} - 2x^{10} + 8x^9 - 4x^7 + 4x^6 + 4x^5 - 4x^4 + 4x^2 + 8x + 6$ | $x^{12} - 4x^{11} + 16x^{10} - 28x^9 + 45x^8 - 36x^7 + 44x^6 - 40x^5 + 53x^4 - 24x^3 + 4x^2 - 20x + 11$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & \frac{8}{3} & 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{8}{3}$ |
| $x^{12} + 4x^8 + 4x^7 + 4x^6 + 4x^5 - 2x^4 + 4x^2 + 2$ | $x^{12} - 342x^{10} - 1272x^9 + 40059x^8 + 281376x^7 - 1394304x^6 - 18700560x^5 - 43368309x^4 + 62883968x^3 - 129021642x^2 - 2747388888x - 5246159427$ | $\left[\begin{array}{ccc} \frac{26}{9} & \frac{26}{9} & \frac{26}{9} \\ \frac{26}{9} & \frac{26}{9} & \frac{26}{9} \\ \frac{26}{9} & \frac{26}{9} & \frac{26}{9} \end{array} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} - 2x^{10} + 8x^7 + 4x^5 + 2x^4 + 8x^3 + 8x - 6$ | $x^{12} - 2x^{10} - 24x^9 - 11x^8 + 160x^7 + 780x^6 + 1856x^5 + 2719x^4 + 2432x^3 + 990x^2 - 72x + 27$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{10}{3} \frac{10}{3} \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |
| $x^{12} - 2x^{10} + 4x^9 + 4x^8 - 2x^6 + 4x^5 + 2x^4 + 4x^2 - 2$ | $x^{12} + 18x^{10} + 126x^8 + 432x^6 + 648x^4 + 2916$ | $\left[2 \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{10}{3} \frac{10}{3} \right]_3^2$ | T: 12,87 | $\frac{19}{6}$ |
| $x^{12} - 2x^{10} + 4x^9 + 4x^8 + 4x^6 + 4x^5 - 2x^4 + 2$ | $x^{12} - 20x^{10} - 24x^9 + 75x^8 + 116x^7 - 76x^6 - 176x^5 + 11x^4 + 172x^3 + 28x^2 - 32x - 17$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |
| $x^{12} + 4x^{11} + 4x^{10} + 8x^9 - 4x^8 - 4x^7 + 2x^6 - 4x^5 + 2x^4 + 8x^3 + 8x^2 + 8x - 6$ | $x^{12} - 10x^{10} + 21x^8 + 42x^6 - 51x^4 - 220x^2 - 121$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{10}{3} \frac{10}{3} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} - 4x^{11} - 6x^{10} + 4x^9 + 8x^7 - 2x^6 - 4x^5 + 4x^4 + 8x^3 + 8x^2 + 8x - 2$ | $x^{12} - 7x^8 + 6x^6 + 13x^4 - 26x^2 + 11$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{11}{4} \frac{10}{3} \frac{10}{3} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 4x^{11} - 4x^{10} - 6x^8 + 8x^7 - 6x^6 + 4x^5 - 2x^4 + 8x^3 - 4x^2 + 8x + 2$ | $x^{12} - 6x^{10} + x^8 - 6x^6 - 41x^4 - 48x^2 - 27$ | $\left[\begin{array}{ccc} 2 & 2 & \frac{8}{3} \\ \frac{4}{3} & \frac{4}{3} & \frac{10}{3} \\ \frac{8}{3} & \frac{10}{3} & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,87 | $\frac{149}{48}$ |
| $x^{12} - 4x^{10} + 4x^9 + 8x^8 + 8x^7 - 6x^6 + 4x^5 - 2x^4 + 8x^3 + 4x^2 + 8x + 2$ | $x^{12} - 6x^{10} - 14x^8 + 212x^6 + 696x^4 + 352x^2 - 484$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & \frac{11}{4} \\ 2 & \frac{8}{3} & \frac{10}{3} \\ \frac{4}{3} & \frac{8}{3} & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} + 2x^8 + 2x^6 + 4x^5 + 4x^2 - 2$ | $x^{12} - 12x^{10} + 55x^8 - 110x^6 + 55x^4 + 110x^2 - 121$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 3 \\ 2 & \frac{8}{3} & \frac{10}{3} \\ \frac{4}{3} & \frac{8}{3} & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} - 2x^{10} + 4x^8 + 4x^5 - 2x^4 + 4x^2 - 2$ | $x^{12} - 12x^{10} - 20x^9 + 39x^8 + 228x^7 + 156x^6 - 864x^5 - 1335x^4 + 844x^3 + 2508x^2 + 972x - 227$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & 3 \end{array} \right]_3^2$ | T: 12,26 | $\frac{8}{3}$ |
| $x^{12} - 6x^{10} - 6x^8 + 4x^7 + 6x^6 - 4x^5 - 6x^4 + 4x^2 + 2$ | $x^{12} + 22x^{10} + 187x^8 + 770x^6 + 1727x^4 + 2420x^2 + 1331$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & \frac{11}{4} \\ 2 & \frac{8}{3} & \frac{10}{3} \\ \frac{4}{3} & \frac{8}{3} & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 8x^{11} + 2x^{10} - 4x^9 + 4x^8 - 4x^7 - 6x^6 + 4x^5 + 8x^4 + 4x^2 + 8x + 2$ | $x^{12} + 30x^{10} - 135x^8 - 1050x^6 + 4725x^4 - 5625$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 10 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 6x^{10} - 4x^9 - 2x^8 - 6x^6 + 4x^5 - 2x^4 + 8x^3 + 8x^2 + 6$ | $x^{12} - 18x^{10} + 94x^8 - 128x^6 + 144x^4 - 88x^2 + 44$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 10 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} - 6x^{10} + 2x^8 + 2x^6 - 4x^5 + 8x^3 + 8x + 2$ | $x^{12} - 10x^{10} + 9x^8 - 6x^6 - 45x^4 + 72x^2 - 27$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 10 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 10 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{149}{48}$ |
| $x^{12} + 2x^{10} + 4x^5 + 4x^4 + 4x^2 + 2$ | $x^{12} - 14x^{10} - 28x^9 + 54x^8 + 44x^7 - 268x^6 + 4x^5 + 476x^4 + 56x^3 - 224x^2 - 136x - 86$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,26 | $\frac{8}{3}$ |
| $x^{12} + 2x^{10} + 8x^9 + 8x^8 + 4x^7 - 2x^6 + 4x^5 + 4x^4 + 8x^2 + 8x + 2$ | $x^{12} + 18x^{10} + 94x^8 + 128x^6 + 144x^4 + 88x^2 + 44$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 10 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{12} + 4x^{11} + 4x^9 + 4x^7 + 4x^5 - 2x^4 - 2$ | $x^{12} - 162x^{10} - 1368x^9 + 459x^8 + 26784x^7 + 79416x^6 - 34560x^5 - 639549x^4 - 1493088x^3 - 1433862x^2 - 433512x - 41067$ | $\left[\begin{array}{c} \frac{26}{9} \\ \frac{26}{9} \\ \frac{26}{9} \\ \frac{26}{9} \\ \frac{26}{9} \end{array} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |
| $x^{12} - 2x^{10} - 2x^8 + 2x^6 + 4x^5 + 2$ | $x^{12} - 2x^{10} + 5x^8 - 6x^6 + 7x^4 - 4x^2 + 1$ | $\left[\begin{array}{c} 2 \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{10}{3} \\ \frac{10}{3} \end{array} \right]_3^2$ | T: 12,58 | $\frac{37}{12}$ |
| $x^{12} - 2x^{10} + 4x^7 + 4x^5 + 2x^4 - 2$ | $x^{12} + 30x^{10} - 128x^9 + 24x^8 + 156x^7 - 40x^6 + 804x^5 - 750x^4 - 424x^3 + 312x^2 - 5928x + 7694$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |
| $x^{12} + 8x^{10} + 4x^9 + 8x^8 + 8x^7 + 2x^6 - 4x^5 + 8x^4 + 4x^2 + 8x - 2$ | $x^{12} - 10x^{10} + 39x^8 - 70x^6 + 49x^4 - 11$ | $\left[\begin{array}{c} 2 \\ \frac{8}{3} \\ \frac{8}{3} \\ 3 \\ \frac{10}{3} \\ \frac{10}{3} \end{array} \right]_3^2$ | T: 12,87 | $\frac{19}{6}$ |
| $x^{12} + 4x^{11} + 4x^{10} + 4x^9 - 2x^8 + 4x^7 + 4x^5 + 2x^4 - 2$ | $x^{12} - 4x^{11} - 2x^{10} + 96x^9 - 483x^8 + 1116x^7 - 636x^6 - 2720x^5 + 5811x^4 - 2904x^3 - 1622x^2 + 1008x + 441$ | $\left[\begin{array}{c} \frac{26}{9} \\ \frac{26}{9} \\ \frac{26}{9} \\ \frac{26}{9} \\ \frac{26}{9} \end{array} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|------------------|
| $x^{12} + 4x^{11} - 2x^{10} + 4x^9 - 2x^8 + 4x^7 + 4x^5 - 2x^4 - 2$ | $x^{12} - 14x^{10} - 4x^9 + 76x^8 + 64x^7 - 124x^6 - 76x^5 + 346x^4 + 584x^3 + 388x^2 + 120x + 14$ | $\left[\begin{array}{ccc} 4 & 4 & \\ 3 & 3 & 2 \\ & 8 & 8 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} + 4x^{11} + 4x^{10} - 4x^9 + 6x^8 + 2x^6 - 4x^5 - 6x^4 + 8x^3 - 4x^2 + 8x - 6$ | $x^{12} - 12x^{10} + 67x^8 - 174x^6 + 205x^4 - 66x^2 - 27$ | $\left[\begin{array}{ccc} 2 & 2 & \\ & 8 & 8 \\ & 3 & 3 \\ & 10 & 10 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{149}{48}$ |
| $x^{12} + 4x^{11} - 2x^{10} + 4x^9 + 6x^8 - 4x^7 - 2x^6 - 4x^5 + 8x + 2$ | $x^{12} + 9x^8 + 18x^6 + 15x^4 + 6x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 8 & \\ & 3 & 3 \\ & 3 & 10 \\ & & 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{19}{6}$ |
| $x^{12} + 8x^{11} - 6x^{10} + 4x^9 + 2x^8 + 8x^7 - 4x^6 + 4x^5 + 6x^4 + 8x - 6$ | $x^{12} - 4x^{11} + 4x^{10} - 8x^9 + 45x^8 - 108x^7 + 140x^6 - 32x^5 - 137x^4 + 48x^3 + 60x^2 + 16x + 1$ | $\left[\begin{array}{ccc} 2 & 8 & \\ & 3 & 3 \\ & 8 & 8 \\ & & 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{8}{3}$ |
| $x^{12} - 4x^{11} + 2x^{10} + 4x^7 - 6x^6 + 4x^5 - 2x^4 + 8x^3 + 4x^2 + 8x + 2$ | $x^{12} + 3x^8 - 2x^6 + 9x^4 + 6x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 8 & \\ & 3 & 3 \\ & 8 & 10 \\ & & 3 \end{array} \right]_3^2$ | T: 12,58 | $\frac{37}{12}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{12} - 2x^{10} - 2x^8 + 4x^7 + 4x^5 - 2x^4 + 2$ | $x^{12} + 24x^{10} + 132x^8 + 308x^6 + 516x^4 + 504x^2 + 20$ | $\left[\begin{array}{ccc} 4 & 4 & \\ 3 & 3 & 2 \\ & 2 & 8 \\ & & 3 & 3 \end{array} \right]_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} + 8x^{11} - 4x^{10} - 2x^8 - 2x^6 + 4x^5 + 2x^4 + 8x^2 + 8x - 2$ | $x^{12} - 10x^{10} + 29x^8 + 2x^6 - 73x^4 - 44x^2 - 11$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ & 2 & 3 \\ & & 3 & 10 \\ & & & 3 & 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{149}{48}$ |
| $x^{12} + 4x^{11} + 4x^9 + 4x^8 + 4x^5 - 2$ | $x^{12} - 72x^{10} - 792x^9 + 10494x^8 - 54504x^7 + 223176x^6 - 1329840x^5 + 4174236x^4 - 6882832x^3 + 6521328x^2 - 3237408x + 715128$ | $\left[\begin{array}{ccc} 26 & 26 & 26 \\ 9 & 9 & 9 \\ & 26 & 26 \\ & & 9 & 9 \\ & & & 9 & 6 \end{array} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |
| $x^{12} + 8x^{11} - 6x^{10} + 8x^9 - 4x^8 + 8x^7 - 6x^6 + 4x^5 - 2x^4 + 8x^3 + 4x^2 + 8x + 2$ | $x^{12} - 12x^{10} + 53x^8 - 90x^6 + 51x^4 + 18x^2 - 27$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ & 3 & 3 \\ & & 3 & 10 \\ & & & 3 & 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{19}{6}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} + 4x^9 + 4x^6 + 4x^5 + 4x^4 + 4x^2 - 2$ | $x^{12} + 52x^{10} - 96x^9 + 1392x^8 - 1776x^7 + 27428x^6 - 17664x^5 + 227028x^4 - 182976x^3 + 614488x^2 - 571248x + 57772$ | $\left[\begin{array}{ccc} \frac{26}{9} & \frac{26}{9} & \frac{26}{9} \\ \frac{26}{9} & \frac{26}{9} & \frac{26}{9} \\ \frac{26}{9} & \frac{26}{9} & \frac{26}{9} \end{array} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |
| $x^{12} + 4x^{11} + 2x^{10} + 8x^9 + 4x^8 - 4x^7 + 6x^6 + 4x^5 + 8x^4 - 4x^2 + 2$ | $x^{12} + 2x^{10} + x^8 - 22x^6 + 77x^4 - 44x^2 + 11$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{4}{3} & 2 & \frac{8}{3} \\ \frac{4}{3} & \frac{8}{3} & \frac{8}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 4x^{11} + 4x^9 + 2x^8 + 4x^5 + 4x^4 + 4x^2 - 2$ | $x^{12} - 288x^{10} - 1524x^9 + 19674x^8 + 205128x^7 + 869304x^6 + 2159100x^5 + 3628836x^4 + 2576144x^3 - 5668308x^2 - 16173216x - 11606922$ | $\left[\begin{array}{ccc} \frac{26}{9} & \frac{26}{9} & \frac{26}{9} \\ \frac{26}{9} & \frac{26}{9} & \frac{26}{9} \\ \frac{26}{9} & \frac{26}{9} & \frac{26}{9} \end{array} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |
| $x^{12} - 2x^{10} + 8x^9 - 4x^8 - 4x^7 - 6x^6 + 4x^5 + 2x^4 + 8x + 6$ | $x^{12} - 36x^{10} + 504x^8 - 2640x^6 - 5400x^4 + 18000x^2 - 30000$ | $\left[\begin{array}{ccc} 2 & 2 & \frac{8}{3} \\ 2 & \frac{8}{3} & \frac{10}{3} \\ 2 & \frac{10}{3} & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,87 | $\frac{149}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{12} + 4x^{11} + 4x^8 + 4x^7 + 4x^6 + 4x^5 - 2x^4 - 2$ | $x^{12} + 20x^{10} - 80x^9 - 1228x^8 - 5332x^7 - 13048x^6 - 21388x^5 - 25438x^4 - 23048x^3 - 15664x^2 - 7152x - 1574$ | $\left[\begin{array}{ccc} \frac{26}{9} & \frac{26}{9} & \frac{26}{9} \\ 2 & \frac{26}{9} & \frac{26}{9} \\ \frac{26}{9} & \frac{26}{9} & \frac{26}{9} \end{array} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |
| $x^{12} - 2x^{10} + 8x^9 - 6x^8 + 2x^6 - 4x^5 + 8x^4 - 4x^2 - 2$ | $x^{12} + 36x^{10} + 504x^8 + 2640x^6 - 5400x^4 - 18000x^2 - 30000$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{10}{3} \\ 2 & \frac{8}{3} & \frac{10}{3} \\ 2 & \frac{8}{3} & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,87 | $\frac{149}{48}$ |
| $x^{12} + 2x^{10} + 4x^9 + 2x^8 + 4x^7 + 4x^5 + 2x^4 - 2$ | $x^{12} - 26x^{10} - 24x^9 + 138x^8 + 28x^7 - 448x^6 + 148x^5 + 702x^4 - 48x^3 - 312x^2 - 368x - 398$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ 2 & \frac{8}{3} & 3 \\ 2 & \frac{8}{3} & 3 \end{array} \right]_3^2$ | T: 12,26 | $\frac{8}{3}$ |
| $x^{12} + 4x^{11} + 4x^9 + 2x^8 + 4x^6 + 4x^5 + 2x^4 - 2$ | $x^{12} - 18x^{10} - 264x^9 + 639x^8 - 1152x^7 + 115644x^6 - 1370880x^5 + 11540511x^4 - 70146016x^3 + 257033862x^2 - 496273176x + 385759233$ | $\left[\begin{array}{ccc} \frac{26}{9} & \frac{26}{9} & \frac{26}{9} \\ 2 & \frac{26}{9} & \frac{26}{9} \\ \frac{26}{9} & \frac{26}{9} & \frac{26}{9} \end{array} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} + 4x^{11} - 2x^{10} + 4x^9 + 6x^8 + 4x^7 + 8x^6 - 4x^5 - 4x^2 - 6$ | $x^{12} - 14x^{10} - 8x^9 + 74x^8 + 92x^7 - 100x^6 - 220x^5 - 68x^4 + 104x^3 + 132x^2 + 72x + 26$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{8}{3} & \frac{8}{3} & 3 \end{array} \right]_3^2$ | T: 12,7 | $\frac{31}{12}$ |
| $x^{12} + 4x^{11} - 2x^{10} + 4x^9 + 4x^8 + 4x^5 + 4x^2 + 2$ | $x^{12} - 4x^{11} + 8x^{10} - 13x^8 - 156x^7 + 144x^6 + 384x^5 - 3x^4 - 680x^3 + 268x^2 + 1416x - 2579$ | $\left[\begin{array}{ccc} \frac{2}{3} & \frac{8}{3} & 3 \\ \frac{8}{3} & \frac{8}{3} & 3 \end{array} \right]_3^2$ | T: 12,26 | $\frac{8}{3}$ |
| $x^{12} + 4x^{11} + 2x^{10} + 4x^9 - 2x^8 + 4x^7 - 2x^6 + 4x^5 + 2x^4 - 2$ | $x^{12} + 10x^{10} + 43x^8 + 90x^6 + 103x^4 + 44x^2 + 11$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{2}{3} & \frac{8}{3} & 3 \\ \frac{8}{3} & \frac{11}{4} & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} + 8x^{11} - 4x^{10} + 4x^9 - 4x^8 - 4x^7 - 2x^6 - 4x^5 - 6x^4 + 4x^2 + 8x - 6$ | $x^{12} - 2x^{10} - 11x^8 + 66x^6 - 143x^4 + 176x^2 - 121$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{2}{3} & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} - 4x^{11} + 8x^{10} + 4x^9 - 6x^8 - 4x^7 + 6x^6 + 4x^5 + 8x^4 + 8x^3 + 8x^2 + 8x - 2$ | $x^{12} - 14x^{10} + 66x^8 - 88x^6 - 220x^4 + 792x^2 - 484$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{2}{3} & \frac{8}{3} & 3 \\ \frac{8}{3} & \frac{11}{4} & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} + 4x^{11} - 2x^{10} + 2x^8 + 8x^6 - 4x^5 + 8x^3 + 8x^2 + 8x + 6$ | $x^{12} - 4x^{11} - 8x^{10} + 52x^9 + 38x^8 - 488x^7 + 48x^6 + 2672x^5 - 184x^4 - 8696x^3 - 2536x^2 + 12416x + 9716$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \frac{8}{3} \quad 3 \frac{8}{3} \quad 3 \right]_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} + 8x^{11} - 4x^{10} + 4x^9 - 2x^8 + 8x^7 - 6x^6 - 4x^5 + 6x^4 + 8x^3 + 8x^2 + 8x - 2$ | $x^{12} - 6x^{10} + 18x^8 - 32x^6 + 36x^4 - 24x^2 + 4$ | $\left[2 \frac{8}{3} \quad 3 \frac{8}{3} \quad 3 \frac{10}{3} \quad 3 \right]_3^2$ | T: 12,58 | $\frac{37}{12}$ |
| $x^{12} - 4x^{11} + 6x^{10} - 4x^9 - 2x^8 + 8x^7 + 2x^6 - 4x^5 + 8x^3 + 4x^2 - 6$ | $x^{12} - 20x^{10} + 15x^8 + 50x^6 - 55x^4 - 90x^2 - 27$ | $\left[2 \quad 2 \frac{8}{3} \quad 3 \frac{8}{3} \quad 3 \frac{10}{3} \quad 3 \right]_3^2$ | T: 12,87 | $\frac{149}{48}$ |
| $x^{12} + 6x^{10} + 8x^9 + 4x^8 + 4x^7 + 4x^5 - 4x^4 + 8x^3 - 4x^2 + 6$ | $x^{12} + 6x^{10} - 20x^9 + 54x^8 - 120x^7 + 260x^6 - 476x^5 + 634x^4 - 632x^3 + 456x^2 - 200x + 38$ | $\left[2 \frac{8}{3} \quad 3 \frac{8}{3} \quad 3 \right]_3^2$ | T: 12,25 | $\frac{8}{3}$ |
| $x^{12} + 8x^{11} + 2x^{10} + 8x^9 - 4x^8 + 8x^7 - 6x^6 - 4x^5 + 8x^4 + 8x^2 + 8x - 6$ | $x^{12} + 4x^{10} + 17x^8 + 26x^6 + 89x^4 - 66x^2 + 11$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \frac{8}{3} \quad 3 \frac{8}{3} \quad 3 \frac{11}{4} \quad 3 \frac{10}{3} \quad 3 \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} + 8x^{11} + 8x^9 + 8x^8 + 8x^7 - 6x^6 - 4x^5 + 8x^3 - 4x^2 + 2$ | $x^{12} - 22x^{10} + 143x^8 - 242x^6 + 605x^4 - 5324x^2 + 14641$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{8}{3} \\ & 3 & 3 \\ & & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,87 | $\frac{19}{6}$ |
| $x^{12} + 6x^{10} + 6x^8 + 4x^7 + 4x^6 - 4x^5 + 8x^3 + 4x^2 + 8x - 6$ | $x^{12} - 10x^{10} - 4x^9 + 46x^8 + 4x^7 - 52x^6 - 4x^5 + 34x^4 + 16x^3 + 12x^2 + 8x + 2$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & \frac{8}{3} \\ & \frac{8}{3} & \frac{8}{3} \\ & & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |
| $x^{12} - 4x^{10} - 4x^9 + 2x^8 - 4x^7 - 2x^6 - 4x^5 - 2x^4 + 8x^3 + 8x^2 - 6$ | $x^{12} - 6x^{10} + 3x^8 + 18x^6 + 9x^4 + 9$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{8}{3} \\ & 3 & 3 \\ & & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,87 | $\frac{19}{6}$ |
| $x^{12} + 4x^{11} + 8x^{10} - 4x^9 + 8x^8 + 4x^7 + 6x^6 - 4x^5 + 6x^4 + 8x^3 + 8x^2 + 8x - 6$ | $x^{12} + 12x^{10} + 55x^8 + 110x^6 + 55x^4 - 110x^2 - 121$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & \frac{8}{3} \\ & 2 & 3 \\ & & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 4x^{11} + 4x^7 - 2x^6 + 4x^5 + 2x^4 + 2$ | $x^{12} - 14x^{10} + 45x^8 - 22x^6 - 55x^4 + 11$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & \frac{8}{3} \\ & 2 & 3 \\ & & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 4x^{11} + 2x^{10} + 2x^8 + 8x^7 - 2x^6 + 4x^5 + 8x^4 + 8x^3 + 8x^2 + 8x - 6$ | $x^{12} - 30x^{10} + 354x^8 - 1548x^6 + 2592x^4 - 648x^2 - 972$ | $\left[\begin{array}{ccc} 2 & 2 & \frac{8}{3} \\ & \frac{8}{3} & \frac{10}{3} \\ & & 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{149}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|------------------|
| $x^{12} + 4x^{11} - 2x^{10} + 8x^8 + 8x^6 + 4x^5 + 2x^4 + 8x^3 + 8x^2 + 6$ | $x^{12} - 6x^{10} - 16x^9 - 16x^8 + 16x^7 + 140x^6 + 428x^5 + 852x^4 + 1096x^3 + 832x^2 + 336x + 58$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \frac{3}{3} \right]_3^2$ | T: 12,7 | $\frac{31}{12}$ |
| $x^{12} - 2x^{10} + 4x^9 - 2x^8 + 4x^5 - 2x^4 + 2$ | $x^{12} - 4x^{11} + 22x^{10} - 60x^9 + 160x^8 - 324x^7 + 528x^6 - 700x^5 + 768x^4 - 648x^3 + 388x^2 - 144x + 26$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \right]_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} - 2x^{10} - 2x^8 + 4x^7 + 4x^6 + 4x^5 + 4x^4 + 4x^2 - 2$ | $x^{12} - 4x^{11} + 22x^{10} - 68x^9 + 194x^8 - 388x^7 + 676x^6 - 884x^5 + 1004x^4 - 848x^3 + 604x^2 - 272x + 82$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \frac{3}{3} \right]_3^2$ | T: 12,7 | $\frac{31}{12}$ |
| $x^{12} + 4x^{11} + 2x^{10} + 2x^8 + 4x^5 - 2x^4 + 4x^2 + 2$ | $x^{12} + 30x^{10} + 435x^8 + 3700x^6 + 16575x^4 + 30750x^2 + 6125$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \frac{3}{3} \right]_3^2$ | T: 12,6 | $\frac{31}{12}$ |
| $x^{12} + 4x^{11} + 8x^{10} + 4x^9 + 4x^8 - 2x^6 - 4x^5 + 8x^3 + 8x + 6$ | $x^{12} - 99x^8 - 726x^6 - 2057x^4 - 2662x^2 - 1331$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{10}{3} \frac{10}{3} \right]_3^2$ | T: 12,87 | $\frac{19}{6}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} + 2x^{10} + 4x^9 + 2x^8 + 4x^6 + 4x^5 + 4x^2 - 2$ | $x^{12} - 30x^{10} + 435x^8 - 3700x^6 + 16575x^4 - 30750x^2 + 6125$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,6 | $\frac{31}{12}$ |
| $x^{12} + 6x^8 + 4x^7 + 6x^6 - 4x^5 + 4x^4 + 8x^3 + 8x^2 - 2$ | $x^{12} - 6x^{10} + 10x^8 - 4x^4 - 8x^2 - 4$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 11 & 10 & 10 \\ 4 & 3 & 3 \end{array} \right]^2_3$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} - 4x^{11} - 2x^{10} + 4x^9 + 2x^8 + 4x^7 - 2x^6 - 4x^5 + 8x^3 + 8x^2 - 2$ | $x^{12} + 6x^{10} + 6x^8 - 16x^6 - 16x^4 + 16x^2 + 4$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 10 & 10 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,87 | $\frac{19}{6}$ |
| $x^{12} - 2x^{10} - 2x^8 + 4x^5 + 2x^4 + 2$ | $x^{12} - 4x^9 + 43x^8 - 72x^7 + 28x^6 + 108x^5 - 159x^4 + 104x^3 + 56x^2 - 136x + 53$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} - 4x^{11} + 6x^{10} + 4x^9 + 8x^7 - 2x^6 + 4x^5 + 2x^4 + 8x^3 + 8x + 6$ | $x^{12} - 18x^{10} + 234x^8 - 2340x^6 - 29700x^4 - 81000x^2 - 67500$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 10 & 10 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,87 | $\frac{19}{6}$ |
| $x^{12} + 2x^{10} + 4x^9 + 4x^8 + 4x^6 + 4x^5 + 2$ | $x^{12} - 4x^{11} + 20x^{10} - 32x^9 + 91x^8 - 44x^7 + 184x^6 - 72x^5 + 507x^4 - 536x^3 + 776x^2 - 280x + 47$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,56 | $\frac{127}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} + 8x^{11} + 6x^{10} + 4x^9 - 6x^8 - 2x^6 + 4x^5 + 8x^4 - 4x^2 - 6$ | $x^{12} - 2x^{10} - 3x^8 + 62x^6 + 23x^4 + 108x^2 - 27$ | $\begin{bmatrix} 2 & 2 & 8 & 8 & 10 \\ 3 & 3 & 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 12,87 | $\frac{149}{48}$ |
| $x^{12} + 4x^{11} + 6x^{10} + 8x^9 + 6x^8 + 8x^7 - 2x^6 - 4x^5 - 6x^4 - 4x^2 + 6$ | $x^{12} - 10x^{10} + 65x^8 - 266x^6 + 609x^4 - 792x^2 + 539$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 & 10 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} - 2x^{10} + 2x^6 + 4x^5 + 2x^4 - 2$ | $x^{12} + 18x^{10} + 234x^8 + 2340x^6 - 29700x^4 + 81000x^2 - 67500$ | $\begin{bmatrix} 2 & 8 & 8 & 3 & 10 \\ 3 & 3 & 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 12,87 | $\frac{19}{6}$ |
| $x^{12} + 4x^{11} - 2x^{10} + 4x^8 + 4x^6 + 4x^5 + 4x^4 + 2$ | $x^{12} - 4x^{11} + 6x^{10} - 8x^9 + x^8 - 96x^7 + 508x^6 - 992x^5 + 1595x^4 - 1700x^3 + 1006x^2 - 320x + 47$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 12,56 | $\frac{127}{48}$ |
| $x^{12} + 8x^{11} + 8x^{10} + 8x^9 + 4x^8 + 8x^7 + 6x^6 + 4x^5 - 6x^4 + 8x^2 - 6$ | $x^{12} + 6x^{10} + 10x^8 - 4x^4 + 8x^2 - 4$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 & 10 \\ 3 & 3 & 3 & 3 & 4 & 3 \end{bmatrix}_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} + 2x^{10} - 2x^8 + 4x^6 + 4x^5 + 2x^4 + 4x^2 - 2$ | $x^{12} - 4x^{11} + 18x^{10} - 8x^9 + 68x^8 - 28x^7 - 40x^6 + 244x^5 - 194x^4 - 56x^3 + 160x^2 - 120x + 34$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 12,56 | $\frac{127}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} + 4x^{11} - 2x^{10} - 2x^8 + 4x^5 + 2$ | $x^{12} - 14x^{10} - 8x^9 + 56x^8 + 44x^7 - 72x^6 - 76x^5 + 28x^4 + 48x^3 + 4x^2 - 8x - 2$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{8}{3} \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{8}{3}$ |
| $x^{12} + 4x^{10} + 4x^9 + 4x^8 + 4x^7 + 2x^6 + 4x^5 + 4x^4 + 4x^2 + 2$ | $x^{12} - 8x^{10} + 55x^8 - 238x^6 + 833x^4 - 2058x^2 + 2401$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{10}{3} \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,58 | $\frac{37}{12}$ |
| $x^{12} + 4x^9 + 2x^8 + 4x^5 + 4x^2 + 2$ | $x^{12} + 108x^{10} - 1008x^9 + 4914x^8 - 41256x^7 + 20736x^6 - 1052460x^5 - 1257444x^4 - 6073248x^3 - 499932x^2 - 2153952x + 7106778$ | $\left[\begin{array}{ccc} \frac{26}{9} & \frac{26}{9} & \frac{26}{9} \\ & 9 & 9 \end{array} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |
| $x^{12} - 6x^{10} + 4x^9 + 8x^8 - 4x^7 + 2x^6 - 4x^5 + 4x^4 + 8x^3 + 8x - 2$ | $x^{12} - 5x^8 - 10x^6 - 5x^4 - 2x^2 - 1$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} - 4x^{11} + 4x^{10} + 6x^8 - 4x^7 - 2x^6 - 4x^5 - 4x^4 + 4x^2 + 8x + 2$ | $x^{12} + 6x^{10} + 42x^8 + 44x^6 - 88x^2 + 44$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & \frac{10}{3} \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} + 4x^{11} + 2x^{10} + 2x^8 + 4x^7 + 4x^6 + 4x^5 - 2x^4 + 2$ | $x^{12} - 18x^{10} - 60x^9 - 96x^8 - 32x^6 - 540x^5 - 594x^4 + 520x^3 + 1380x^2 - 360x - 1370$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \right]_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} + 2x^{10} + 4x^9 - 2x^8 + 4x^7 + 4x^5 - 2x^4 + 4x^2 - 2$ | $x^{12} - 20x^{10} - 8x^9 + 162x^8 + 256x^7 - 224x^6 - 1040x^5 - 628x^4 + 768x^3 + 1264x^2 + 704x + 152$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |
| $x^{12} + 2x^{10} - 4x^9 + 4x^8 + 8x^7 + 4x^6 + 4x^5 - 2x^4 + 8x^3 + 8x^2 + 8x + 6$ | $x^{12} - 4x^{11} + 20x^{10} - 60x^9 + 143x^8 - 244x^7 + 308x^6 - 272x^5 + 161x^4 - 48x^3 + 16x^2 + 4x + 1$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \quad 3 \right]_3^2$ | T: 12,7 | $\frac{31}{12}$ |
| $x^{12} - 6x^{10} + 8x^9 - 2x^8 + 4x^7 - 2x^6 + 4x^5 + 2x^4 - 4x^2 + 8x + 6$ | $x^{12} - 6x^{10} + 42x^8 - 44x^6 + 88x^2 + 44$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad \frac{11}{4} \quad \frac{10}{3} \quad \frac{10}{3} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} + 4x^{11} - 4x^{10} + 6x^8 + 4x^7 + 6x^6 + 4x^5 + 4x^4 + 8x^3 + 8x^2 - 6$ | $x^{12} + 30x^{10} + 270x^8 - 100x^6 - 12600x^4 - 54000x^2 - 62500$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad \frac{11}{4} \quad \frac{10}{3} \quad \frac{10}{3} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 4x^{11} + 4x^{10} + 8x^9 + 6x^8 + 8x^7 + 2x^6 + 4x^5 + 4x^2 + 8x - 6$ | $x^{12} + 12x^{10} + 47x^8 + 66x^6 + 55x^4 + 22x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ 10 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} - 2x^{10} + 2x^8 + 4x^5 + 4x^4 + 4x^2 - 2$ | $x^{12} - 10x^{10} - 8x^9 + 34x^8 + 56x^7 - 52x^6 - 268x^5 - 464x^4 - 648x^3 - 756x^2 - 536x - 158$ | $\left[\begin{array}{ccc} 4 & 4 & 4 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |
| $x^{12} + 4x^{11} - 2x^{10} + 2x^8 + 4x^7 + 4x^6 + 4x^5 + 2x^4 + 4x^2 - 2$ | $x^{12} - 4x^{11} + 30x^{10} - 104x^9 + 413x^8 - 1024x^7 + 2620x^6 - 4368x^5 + 7491x^4 - 7748x^3 + 9094x^2 - 3376x + 2731$ | $\left[\begin{array}{ccc} 4 & 4 & 4 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |
| $x^{12} - 4x^{11} + 6x^{10} - 4x^9 + 2x^8 - 4x^7 + 8x^6 - 4x^5 + 6x^4 - 4x^2 + 8x + 6$ | $x^{12} - 2x^{10} - 4x^9 + 16x^8 - 16x^7 + 20x^6 - 60x^5 + 108x^4 - 104x^3 + 56x^2 - 16x + 2$ | $\left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,7 | $\frac{31}{12}$ |
| $x^{12} - 2x^{10} + 4x^8 + 4x^5 - 2x^4 + 2$ | $x^{12} - 18x^{10} - 20x^9 + 101x^8 + 192x^7 - 44x^6 - 176x^5 - 245x^4 - 152x^3 + 726x^2 - 180x + 27$ | $\left[\begin{array}{ccc} 4 & 4 & 4 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|------------------|
| $x^{12} + 2x^{10} + 2x^8 + 4x^5 + 2x^4 - 2$ | $x^{12} + 6x^{10} + 27x^8 + 48x^6 + 87x^4 + 18x^2 + 1$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{8}{3}$ |
| $x^{12} + 8x^{11} + 6x^8 + 4x^7 + 2x^6 - 4x^5 - 6x^4 + 4x^2 + 6$ | $x^{12} - 99x^8 + 726x^6 - 2057x^4 + 2662x^2 - 1331$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,87 | $\frac{19}{6}$ |
| $x^{12} + 4x^{11} - 2x^{10} + 4x^9 + 2x^8 + 4x^6 + 4x^5 + 2x^4 + 4x^2 + 2$ | $x^{12} - 112x^9 - 3x^8 + 492x^7 + 3212x^6 + 1608x^5 - 28371x^4 + 1156x^3 + 11592x^2 + 8616x + 14579$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |
| $x^{12} + 8x^{11} - 4x^8 + 4x^7 - 2x^6 + 4x^5 + 4x^4 + 8x^2 - 2$ | $x^{12} + 6x^{10} + 9x^8 + 6x^6 + 3x^4 - 3$ | $\left[\begin{array}{ccc} 2 & 2 & \frac{8}{3} \\ & \frac{8}{3} & 3 \\ & & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,87 | $\frac{149}{48}$ |
| $x^{12} + 4x^{11} + 4x^{10} + 8x^9 - 2x^8 + 8x^7 + 2x^6 + 4x^5 - 6x^4 + 8x^2 + 6$ | $x^{12} + 22x^{10} + 110x^8 - 484x^6 - 4840x^4 - 10648x^2 - 5324$ | $\left[\begin{array}{ccc} 2 & 2 & \frac{8}{3} \\ & \frac{8}{3} & 3 \\ & & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,87 | $\frac{149}{48}$ |
| $x^{12} - 2x^{10} - 2x^8 + 4x^5 + 4x^2 - 2$ | $x^{12} - 6x^{10} + 3x^8 + 28x^6 - 33x^4 - 6x^2 - 3$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,6 | $\frac{31}{12}$ |
| $x^{12} + 4x^{11} + 2x^{10} - 2x^8 + 4x^7 + 4x^6 + 4x^5 + 2$ | $x^{12} - 10x^{10} - 4x^9 + 46x^8 - 12x^7 - 84x^6 + 52x^5 + 48x^4 - 40x^3 - 8x - 2$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{4}{3} & 2 \\ & & \frac{8}{3} \end{array} \right]_3^2$ | T: 12,90 | $\frac{259}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|------------------|
| $x^{12} + 2x^{10} + 2x^8 + 4x^5 + 4x^4 + 4x^2 - 2$ | $x^{12} + 6x^{10} + 11x^8 + 4x^6 - x^4 + 6x^2 - 11$ | $\left[\begin{array}{ccc} 8 & 8 & \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,6 | $\frac{31}{12}$ |
| $x^{12} + 4x^{11} + 2x^8 + 2x^6 + 4x^5 + 2x^4 + 2$ | $x^{12} - 22x^{10} + 253x^8 - 1694x^6 + 7139x^4 - 15972x^2 + 14641$ | $\left[\begin{array}{ccc} 2 & 8 & 10 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,58 | $\frac{37}{12}$ |
| $x^{12} + 4x^9 + 4x^7 + 2x^6 + 4x^5 + 4x^4 + 2$ | $x^{12} + 8x^{10} + 15x^8 - 6x^6 - 27x^4 - 90x^2 - 27$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,87 | $\frac{149}{48}$ |
| $x^{12} - 6x^{10} - 4x^5 + 8x^3 + 8x + 6$ | $x^{12} - 4x^{11} + 12x^{10} - 8x^9 - 38x^8 + 184x^7 - 136x^6 + 112x^5 + 404x^4 - 1056x^3 + 976x^2 - 384x + 56$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,56 | $\frac{127}{48}$ |
| $x^{12} + 8x^{11} - 4x^{10} + 8x^9 + 8x^7 - 2x^6 - 4x^5 + 4x^2 - 6$ | $x^{12} - 24x^{10} + 297x^8 - 2322x^6 + 11259x^4 - 30618x^2 + 35721$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,87 | $\frac{19}{6}$ |
| $x^{12} - 2x^{10} - 4x^9 - 6x^8 + 8x^7 - 2x^6 - 4x^5 - 4x^2 + 8x + 2$ | $x^{12} + 15x^8 - 6x^6 + 9x^4 - 18x^2 + 9$ | $\left[\begin{array}{ccc} 2 & 8 & 10 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,58 | $\frac{37}{12}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 8x^{11} - 6x^{10} + 8x^8 - 4x^7 + 4x^6 + 4x^5 + 4x^4 + 8x^3 + 4x^2 + 8x + 6$ | $x^{12} - 4x^{11} + 18x^{10} - 36x^9 + 68x^8 + 60x^7 - 260x^6 + 948x^5 - 612x^4 - 232x^3 + 2316x^2 - 2232x + 1442$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \right]_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} + 4x^{11} - 2x^{10} + 2x^8 + 4x^7 + 4x^5 - 2x^4 + 4x^2 + 2$ | $x^{12} - 4x^9 + 3x^8 + 12x^7 + 8x^6 - 24x^5 - 39x^4 + 4x^3 + 48x^2 + 36x + 9$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \quad 3 \right]_3^2$ | T: 12,7 | $\frac{31}{12}$ |
| $x^{12} + 4x^{11} + 2x^{10} + 8x^9 - 4x^8 - 2x^6 + 4x^5 - 6x^4 - 4x^2 - 6$ | $x^{12} + 18x^{10} + 114x^8 + 288x^6 + 144x^4 - 432x^2 - 972$ | $\left[2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{10}{3} \quad \frac{10}{3} \right]_3^2$ | T: 12,87 | $\frac{19}{6}$ |
| $x^{12} + 6x^{10} - 2x^8 + 8x^7 + 6x^6 - 4x^5 - 2x^4 + 8x^3 + 4x^2 + 8x + 2$ | $x^{12} + 4x^{10} + 55x^8 + 130x^6 + 131x^4 + 62x^2 + 11$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{10}{3} \quad \frac{10}{3} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} - 4x^{11} + 8x^{10} + 8x^9 - 4x^8 + 8x^7 + 6x^6 + 4x^5 + 4x^4 + 8x^2 + 8x - 2$ | $x^{12} - 18x^{10} + 147x^8 - 506x^6 + 737x^4 - 484x^2 + 121$ | $\left[2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{10}{3} \quad \frac{10}{3} \right]_3^2$ | T: 12,87 | $\frac{19}{6}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 4x^{11} - 2x^{10} + 2x^8 + 4x^7 + 4x^5 + 2x^4 + 2$ | $x^{12} - 12x^{10} - 176x^9 + 879x^8 - 636x^7 - 2020x^6 - 24x^5 + 14511x^4 - 27076x^3 + 19848x^2 - 5112x - 185$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \right]_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} + 4x^{11} + 2x^{10} + 8x^9 - 6x^8 + 4x^7 + 6x^6 + 4x^5 + 8x^3 + 2$ | $x^{12} - 4x^{10} + 37x^8 + 6x^6 + 39x^4 + 54x^2 - 27$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{10}{3} \quad \frac{10}{3} \right]_3^2$ | T: 12,87 | $\frac{19}{6}$ |
| $x^{12} - 2x^{10} + 4x^9 + 2x^8 + 2x^6 + 4x^5 - 2x^4 + 4x^2 - 2$ | $x^{12} - 30x^{10} + 225x^8 + 1590x^6 - 26595x^4 + 67500x^2 - 38025$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \quad \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{10}{3} \quad \frac{10}{3} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 4x^{11} - 2x^{10} + 4x^8 + 4x^7 + 4x^6 + 4x^5 + 4x^2 - 2$ | $x^{12} - 4x^{11} + 8x^{10} - 28x^9 + 6x^8 + 120x^7 - 392x^6 + 472x^5 - 304x^4 + 136x^3 - 256x^2 + 320x - 68$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \quad \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \right]_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} + 8x^{11} + 2x^{10} - 2x^8 - 6x^6 + 4x^5 + 8x^4 - 4x^2 + 2$ | $x^{12} + 12x^{10} + 59x^8 + 154x^6 + 253x^4 + 242x^2 + 121$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{10}{3} \quad \frac{10}{3} \right]_3^2$ | T: 12,58 | $\frac{37}{12}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 4x^{11} - 2x^{10} + 4x^9 - 6x^8 - 4x^6 - 4x^5 + 4x^4 + 8x^3 + 8x^2 + 8x + 6$ | $x^{12} - 4x^{11} + 20x^{10} - 52x^9 + 129x^8 - 220x^7 + 320x^6 - 352x^5 + 325x^4 - 224x^3 + 124x^2 - 44x + 11$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{8}{3} \\ & 3 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{8}{3}$ |
| $x^{12} + 4x^{11} - 2x^{10} - 2x^8 + 4x^7 + 2x^6 + 4x^5 + 4x^4 + 4x^2 - 2$ | $x^{12} + 12x^{10} - 12x^9 + 51x^8 - 96x^7 - 120x^6 + 552x^5 - 717x^4 + 480x^3 - 180x^2 + 36x - 3$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{8}{3} \\ & 3 & \frac{10}{3} \\ & & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,87 | $\frac{19}{6}$ |
| $x^{12} + 8x^{11} - 6x^{10} - 6x^8 + 8x^7 + 8x^6 - 4x^5 + 8x^3 + 8x^2 + 8x - 6$ | $x^{12} - 4x^{11} + 24x^{10} - 64x^9 + 182x^8 - 360x^7 + 640x^6 - 928x^5 + 1052x^4 - 1024x^3 + 752x^2 - 320x + 56$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & \frac{2}{3} & \frac{8}{3} \\ & & \frac{8}{3} \end{array} \right]_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} + 8x^{11} - 2x^{10} + 2x^8 + 8x^7 + 4x^6 + 4x^5 + 6x^4 + 8x^3 + 8x - 6$ | $x^{12} - 4x^{11} + 12x^{10} - 16x^9 + 9x^8 + 28x^7 - 36x^6 + 16x^5 + 95x^4 - 104x^3 + 12x^2 + 8x + 1$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{8}{3} \\ & 3 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{8}{3}$ |
| $x^{12} + 2x^{10} + 8x^9 - 4x^8 + 8x^7 - 2x^6 - 4x^5 - 4x^4 + 8x^3 + 4x^2 - 2$ | $x^{12} + 2x^{10} - 110x^8 + 572x^6 - 1232x^4 + 1232x^2 - 484$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & \frac{2}{3} & \frac{8}{3} \\ & & \frac{11}{4} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 4x^{10} + 4x^8 + 4x^7 + 4x^5 - 2x^4 + 4x^2 + 2$ | $x^{12} - 4x^{11} - 6x^{10} - 280x^9 + 841x^8 + 64x^7 + 9608x^6 - 20992x^5 - 43129x^4 + 41340x^3 + 35574x^2 - 33408x - 4581$ | $\left[\begin{array}{c} \frac{26}{9} \\ \frac{26}{9} \\ \frac{26}{9} \end{array} \right]_9^6$ | T: 12,166 | $\frac{823}{288}$ |
| $x^{12} + 2x^{10} + 2x^8 + 4x^7 + 4x^5 - 2x^4 + 2$ | $x^{12} - 4x^{11} + 14x^{10} + 4x^9 - 212x^8 + 768x^7 - 1456x^6 + 1732x^5 - 1360x^4 + 704x^3 - 228x^2 + 40x - 2$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ \frac{2}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{3}{3} \end{array} \right]_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} + 4x^{11} + 2x^{10} + 2x^8 + 4x^7 + 4x^6 + 4x^5 + 4x^2 - 2$ | $x^{12} - 4x^{11} + 10x^{10} - 8x^9 - 2x^8 + 36x^7 - 52x^6 + 20x^5 + 50x^4 - 16x^3 + 52x^2 - 16x + 2$ | $\left[\begin{array}{c} \frac{8}{3} \\ \frac{8}{3} \\ \frac{3}{3} \end{array} \right]_3^2$ | T: 12,7 | $\frac{31}{12}$ |
| $x^{12} + 4x^{11} + 4x^{10} - 4x^9 + 4x^8 - 2x^6 - 4x^5 + 8x^4 + 8x^3 + 4x^2 - 6$ | $x^{12} + 2x^{10} - 17x^8 - 90x^6 - 159x^4 - 108x^2 - 27$ | $\left[\begin{array}{c} 2 \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{3}{3} \\ \frac{10}{3} \\ \frac{10}{3} \end{array} \right]_3^2$ | T: 12,87 | $\frac{19}{6}$ |
| $x^{12} + 4x^{11} - 2x^{10} - 2x^8 + 8x^7 - 2x^6 + 4x^5 - 6x^4 + 8x^3 - 4x^2 + 8x + 6$ | $x^{12} + 24x^{10} + 207x^8 + 726x^6 + 351x^4 - 3510x^2 - 5625$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ \frac{2}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ \frac{3}{3} \\ \frac{10}{3} \\ \frac{10}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 8x^{11} + 4x^9 + 8x^8 - 4x^7 + 2x^6 - 4x^5 - 6x^4 - 4x^2 + 8x + 2$ | $x^{12} - 5x^8 + 10x^6 - 5x^4 + 2x^2 - 1$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 10 & 10 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 2x^{10} + 4x^9 + 4x^8 + 4x^5 + 4x^4 + 4x^2 + 2$ | $x^{12} + 6x^{10} - 8x^9 + 6x^8 - 12x^7 + 36x^6 - 60x^5 + 78x^4 - 104x^3 + 96x^2 - 48x + 10$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,26 | $\frac{8}{3}$ |
| $x^{12} - 6x^{10} + 4x^9 + 6x^8 + 4x^7 - 4x^5 + 6x^4 + 8x^3 - 4x^2 - 6$ | $x^{12} - 6x^{10} - 8x^9 + 18x^8 + 36x^7 - 16x^6 - 36x^5 + 60x^4 + 32x^3 - 12x^2 - 24x + 10$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,7 | $\frac{31}{12}$ |
| $x^{12} + 4x^{11} + 2x^{10} + 4x^9 + 4x^5 - 2x^4 - 2$ | $x^{12} + 6x^{10} - 4x^9 + 18x^8 - 36x^7 + 40x^6 - 108x^5 + 114x^4 - 120x^3 + 156x^2 - 72x + 30$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,7 | $\frac{31}{12}$ |
| $x^{12} - 4x^{11} - 2x^8 + 8x^7 - 6x^6 + 4x^5 + 8x^4 + 8x^2 - 6$ | $x^{12} - 2x^{10} + x^8 + 22x^6 + 77x^4 + 44x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 10 & 10 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} - 2x^{10} + 4x^9 + 2x^8 + 4x^5 - 2x^4 - 2$ | $x^{12} + 12x^{10} - 4x^9 + 106x^8 - 232x^7 + 888x^6 - 1872x^5 + 3292x^4 - 4248x^3 + 3296x^2 - 1264x + 188$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,90 | $\frac{259}{96}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} - 2x^{10} + 4x^9 - 4x^8 + 4x^7 + 4x^6 - 4x^5 + 8x^4 + 4x^2 + 6$ | $x^{12} + 10x^{10} - 24x^9 + x^8 - 104x^7 + 156x^6 + 632x^5 + 1151x^4 + 1304x^3 + 1010x^2 + 528x + 143$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \right]_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} + 4x^{11} - 6x^{10} - 6x^8 + 4x^5 - 2x^4 + 8x^2 - 6$ | $x^{12} - 4x^{11} + 22x^{10} - 48x^9 + 120x^8 - 108x^7 + 180x^6 + 108x^5 + 38x^4 + 504x^3 + 220x^2 + 408x + 478$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \right]_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} - 2x^{10} + 4x^9 + 4x^8 + 4x^7 + 4x^5 + 4x^2 - 2$ | $x^{12} - 8x^9 - 27x^8 - 36x^7 - 4x^6 + 72x^5 + 147x^4 + 164x^3 + 96x^2 + 24x + 1$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \right]_3^2$ | T: 12,25 | $\frac{8}{3}$ |
| $x^{12} + 8x^{11} - 2x^8 + 4x^7 + 6x^6 - 4x^5 + 8x^2 - 2$ | $x^{12} + 14x^{10} + 59x^8 + 110x^6 + 99x^4 + 44x^2 + 11$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad \frac{11}{4} \quad \frac{10}{3} \quad \frac{10}{3} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} + 2x^{10} + 4x^5 - 2x^4 + 2$ | $x^{12} - 12x^{10} - 24x^9 + 33x^8 + 192x^7 + 232x^6 - 180x^5 - 881x^4 - 1168x^3 - 780x^2 - 252x - 27$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad \frac{4}{3} \quad \frac{8}{3} \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 4x^{11} + 2x^{10} + 4x^9 - 2x^8 + 4x^6 + 4x^5 + 2$ | $x^{12} - 22x^{10} + 153x^8 - 32x^7 - 452x^6 + 575x^4 + 192x^3 - 222x^2 - 160x - 41$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \right]_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} + 4x^{11} + 2x^{10} + 4x^7 + 4x^5 + 4x^4 + 4x^2 - 2$ | $x^{12} - 32x^9 - 54x^8 - 64x^7 - 40x^6 + 336x^5 + 444x^4 - 224x^3 - 400x^2 - 32x - 8$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \right]_3^2$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} - 2x^{10} + 4x^9 + 2x^8 + 4x^6 + 4x^5 + 2x^4 + 4x^2 - 2$ | $x^{12} - 12x^{10} - 28x^9 - 111x^8 - 228x^7 - 124x^6 + 24x^5 + 2787x^4 + 7324x^3 + 336x^2 - 12564x - 9199$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \quad 3 \right]_3^2$ | T: 12,6 | $\frac{31}{12}$ |
| $x^{12} + 4x^{11} - 6x^{10} - 4x^9 + 6x^8 + 8x^7 + 2x^6 + 4x^5 - 2x^4 + 4x^2 + 8x + 6$ | $x^{12} - 30x^{10} + 45x^8 + 5550x^6 - 51975x^4 + 148500x^2 - 140625$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{10}{3} \quad \frac{10}{3} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} - 2x^{10} + 4x^9 - 2x^8 + 4x^6 + 4x^5 - 2x^4 + 2$ | $x^{12} + 4x^{10} - 12x^9 + 15x^8 - 24x^7 + 56x^6 - 92x^5 + 101x^4 - 72x^3 + 32x^2 - 8x + 1$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \right]_3^2$ | T: 12,25 | $\frac{8}{3}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} + 8x^{10} - 4x^9 - 4x^8 - 4x^7 - 2x^6 - 4x^5 - 4x^4 - 2$ | $x^{12} - 5x^8 + 2x^6 + 9x^4 + 6x^2 + 1$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{10}{3} \\ & \frac{8}{3} & \frac{10}{3} \\ & & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,58 | $\frac{37}{12}$ |
| $x^{12} + 4x^{11} + 2x^{10} - 4x^9 + 8x^8 + 4x^7 + 8x^6 + 4x^5 - 2x^4 - 4x^2 - 6$ | $x^{12} + 6x^{10} + 39x^8 + 16x^6 - 21x^4 + 18x^2 + 1$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{8}{3} \\ & \frac{8}{3} & \frac{8}{3} \\ & & \frac{8}{3} \end{array} \right]_3^2$ | T: 12,25 | $\frac{8}{3}$ |
| $x^{12} - 2x^{10} + 4x^8 + 8x^7 - 2x^6 + 4x^5 - 6x^4 + 4x^2 + 8x + 2$ | $x^{12} - 8x^{10} + 33x^8 - 86x^6 + 139x^4 - 126x^2 + 49$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{10}{3} \\ & \frac{8}{3} & \frac{10}{3} \\ & & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,87 | $\frac{19}{6}$ |
| $x^{12} + 4x^{11} + 2x^{10} + 4x^8 + 4x^6 + 4x^5 + 2$ | $x^{12} - 4x^{11} - 8x^{10} + 24x^9 + 59x^8 - 36x^7 - 336x^6 + 208x^5 + 59x^4 + 1424x^3 - 2836x^2 + 1816x - 373$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & \frac{8}{3} \\ & \frac{4}{3} & \frac{8}{3} \\ & & \frac{8}{3} \end{array} \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |
| $x^{12} + 8x^{11} - 6x^{10} + 4x^9 - 2x^8 - 4x^7 - 4x^6 - 4x^5 + 4x^4 - 4x^2 - 6$ | $x^{12} - 4x^{11} + 16x^{10} - 40x^9 + 87x^8 - 196x^7 + 352x^6 - 528x^5 + 503x^4 - 144x^3 - 76x^2 + 40x + 11$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & \frac{8}{3} \\ & \frac{4}{3} & \frac{8}{3} \\ & & \frac{8}{3} \end{array} \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |
| $x^{12} + 4x^{10} - 4x^9 + 8x^8 + 8x^7 - 2x^6 - 2x^5 + 4x^4 + 6x^2 + 4x^2 + 2$ | $x^{12} + 14x^{10} + 66x^8 + 88x^6 - 220x^4 - 792x^2 - 484$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & \frac{10}{3} \\ & \frac{4}{3} & \frac{10}{3} \\ & & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|------------------|
| $x^{12} + 4x^{11} - 6x^{10} - 4x^9 - 6x^8 + 4x^7 - 4x^6 - 4x^5 - 6x^4 + 8x^3 + 4x^2 + 8x - 6$ | $x^{12} - 12x^{10} - 8x^9 + 18x^8 - 24x^7 - 56x^6 + 12x^4 + 48x^3 + 48x^2 - 24$ | $\left[\begin{array}{c} \frac{8}{3} \\ \frac{8}{3} \\ 3 \end{array} \right]_3^2$ | T: 12,7 | $\frac{31}{12}$ |
| $x^{12} + 4x^{11} - 6x^{10} + 8x^8 - 4x^7 - 4x^5 + 8x^3 + 4x^2 + 8x + 6$ | $x^{12} - 6x^{10} + 42x^8 - 72x^7 + 8x^6 + 108x^5 - 126x^4 + 24x^3 + 72x^2 - 72x + 22$ | $\left[\begin{array}{c} \frac{8}{3} \\ \frac{8}{3} \\ 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{8}{3}$ |
| $x^{12} - 4x^{11} - 4x^9 - 2x^8 - 4x^7 - 6x^6 - 4x^5 - 6x^4 - 6$ | $x^{12} - 14x^{10} + 70x^8 - 140x^6 + 196x^4 - 392x^2 - 588$ | $\left[\begin{array}{c} \frac{8}{3} \\ \frac{8}{3} \\ 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{19}{6}$ |
| $x^{12} + 4x^{11} + 2x^{10} + 4x^9 + 2x^8 + 4x^6 + 4x^5 + 2x^4 + 2$ | $x^{12} + 6x^{10} - 8x^9 + 12x^8 - 12x^7 + 24x^6 - 12x^5 + 24x^4 - 8x^3 + 12x^2 + 2$ | $\left[\begin{array}{c} \frac{8}{3} \\ \frac{8}{3} \\ 3 \end{array} \right]_3^2$ | T: 12,25 | $\frac{8}{3}$ |
| $x^{12} + 4x^{11} - 2x^{10} + 4x^9 + 4x^6 + 4x^5 - 2$ | $x^{12} - 4x^{11} + 28x^{10} - 68x^9 + 222x^8 - 360x^7 + 688x^6 - 864x^5 + 944x^4 - 792x^3 + 440x^2 - 176x + 44$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ \frac{8}{3} \\ \frac{8}{3} \\ 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{127}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 2x^{10} + 2x^8 + 4x^7 + 4x^6 + 4x^5 + 4x^4 + 4x^2 - 2$ | $x^{12} - 4x^{11} + 4x^{10} - 4x^9 + 67x^8 - 292x^7 + 516x^6 - 400x^5 + 71x^4 + 80x^3 - 52x^2 + 12x - 1$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,7 | $\frac{31}{12}$ |
| $x^{12} - 6x^{10} - 4x^9 + 8x^8 - 4x^7 + 4x^6 + 4x^5 + 6x^4 - 4x^2 + 8x + 6$ | $x^{12} - 4x^{11} - 2x^{10} + 12x^9 + 36x^8 - 44x^7 - 36x^6 - 380x^5 + 628x^4 + 520x^3 - 588x^2 - 632x + 542$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]^2_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,90 | $\frac{259}{96}$ |
| $x^{12} + 2x^6 - 2x^4 - 2$ | $x^{12} - 360x^8 + 4050x^6 - 16650x^4 + 27000x^2 - 11250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]^2_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3 \left[\begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 6x^8 - 6x^6 + 6x^4 + 8x^2 + 6$ | $x^{12} - 66x^8 - 242x^6 - 242x^4 + 2662$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]^2_3 \left[\begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]^2_3$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 8x^{10} + 2x^8 + 2x^6 - 4x^4 + 8x^2 + 6$ | $x^{12} + 2x^{10} - 12x^8 + 10x^6 + 4x^4 - 16x^2 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]^2_3 \left[\begin{array}{ccc} 19 & 19 & 7 \\ 6 & 6 & 2 \end{array} \right]^2_3$ | T: 12,142 | $\frac{619}{192}$ |
| $x^{12} - 4x^{10} + 8x^8 + 6x^6 - 2x^4 + 6$ | $x^{12} + 12x^{10} - 540x^8 + 5160x^6 - 21600x^4 + 43200x^2 - 36000$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]^2_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3 \left[\begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2563}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 2x^6 - 2x^4 + 8x^2 - 2$ | $x^{12} - 60x^{10} + 840x^8 - 3600x^6 - 2400x^4 + 48000x^2 - 80000$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 8x^8 - 6x^6 + 4x^4 + 8x^2 - 2$ | $x^{12} + 10x^{10} + 38x^8 + 72x^6 - 108x^4 - 648x^2 - 648$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 7 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{595}{192}$ |
| $x^{12} + 4x^{10} + 2x^8 + 2x^6 + 2x^4 + 8x^2 + 2$ | $x^{12} - 6x^{10} + 12x^8 - 10x^6 + 6x^4 - 4x^2 + 2$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} - 2x^8 - 2x^6 + 4x^2 + 2$ | $x^{12} - 6x^{10} + 18x^8 + 16x^6 + 36x^4 - 24x^2 + 8$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 19 & 19 & 6 \\ 6 & 6 & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{619}{192}$ |
| $x^{12} + 8x^{10} + 4x^8 + 2x^6 - 6x^4 - 6$ | $x^{12} + 22x^{10} + 198x^8 + 946x^6 + 2398x^4 + 1936x^2 - 2662$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 8x^{10} + 2x^6 + 8x^4 + 6$ | $x^{12} + 14x^{10} + 70x^8 + 136x^6 + 36x^4 - 88x^2 + 88$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 2 & 2 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 7 & 2 \\ 2 & 2 & 3 \end{array} \right]_3^2$ | T: 12,51 | $\frac{139}{48}$ |
| $x^{12} + 8x^{10} + 4x^8 + 6x^6 - 6x^4 + 8x^2 - 2$ | $x^{12} + 3150x^6 - 36450x^4 + 121500x^2 - 101250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 8x^{10} + 8x^8 - 6x^6 + 2x^4 - 6$ | $x^{12} - 6x^{10} + 10x^8 + 10x^6 - 50x^4 + 56x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 10 & 10 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 7 & 7 & 2 \\ 2 & 2 & 3 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 4x^8 + 2x^6 + 4x^4 + 8x^2 + 6$ | $x^{12} + 132x^8 + 1210x^6 + 3872x^4 + 5324x^2 + 2662$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 7 & 2 \\ 2 & 2 & 3 \end{array} \right]^2_3$ | T: 12,51 | $\frac{37}{12}$ |
| $x^{12} + 8x^{10} + 4x^8 - 6x^6 + 6x^4 + 8x^2 - 2$ | $x^{12} - 96x^{10} - 428x^9 + 1728x^8 + 22392x^7 + 96834x^6 + 245160x^5 + 413982x^4 + 496816x^3 + 438696x^2 + 280200x + 103750$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 10 & 10 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 7 & 7 & 2 \\ 2 & 2 & 3 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 2x^8 + 2x^6 - 6x^4 - 4x^2 - 6$ | $x^{12} - 26x^{10} + 294x^8 - 2048x^6 + 9700x^4 - 29400x^2 + 49000$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 10 & 10 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 7 & 7 & 2 \\ 2 & 2 & 3 \end{array} \right]^2_3$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 4x^{10} + 6x^8 - 6x^6 + 8x^4 - 4x^2 - 2$ | $x^{12} - 2x^{10} - 66x^8 - 352x^6 - 924x^4 - 1320x^2 - 968$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 19 & 19 & 6 \\ 6 & 6 & 6 \end{array} \left[\begin{array}{ccc} 7 & 7 & 2 \\ 2 & 2 & 3 \end{array} \right]^2_3$ | T: 12,141 | $\frac{619}{192}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 8x^{10} - 6x^6 + 8x^4 - 6$ | $x^{12} - 2x^{10} - 48x^9 + 55x^8 + 96x^7 + 730x^6 - 2124x^5 + 101x^4 - 2040x^3 + 20704x^2 - 34380x + 18181$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 7 & 7 \\ 2 & 2 & 2 \end{array} \right]_3^2$ | T: 12,51 | $\frac{139}{48}$ |
| $x^{12} + 8x^{10} + 2x^6 - 6x^4 + 6$ | $x^{12} + 18x^{10} - 30x^8 - 2330x^6 - 16350x^4 - 44700x^2 - 42250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 10 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 7 & 7 \\ 2 & 2 & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 4x^8 - 2x^6 + 8x^2 + 6$ | $x^{12} - 18x^{10} + 126x^8 - 522x^6 + 1080x^4 - 972x^2 + 54$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 7 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 7 & 7 \\ 2 & 2 & 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{583}{192}$ |
| $x^{12} + 2x^8 + 6x^6 - 4x^4 + 8x^2 + 2$ | $x^{12} - 18x^{10} + 24x^8 + 478x^6 - 1104x^4 + 660x^2 + 50$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 7 & 7 \\ 2 & 2 & 2 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} - 6x^8 - 6x^6 + 2x^4 - 4x^2 - 6$ | $x^{12} + 32x^{10} + 414x^8 + 2602x^6 + 8710x^4 + 15400x^2 + 12250$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 10 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 7 & 7 \\ 2 & 2 & 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 4x^8 + 2x^6 - 2x^4 + 2$ | $x^{12} - 14x^{10} + 66x^8 - 110x^6 + 22x^4 - 44x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 10 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 7 & 7 \\ 2 & 2 & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 2x^6 - 2x^4 + 8x^2 - 6$ | $x^{12} - 4x^{10} + 16x^8 - 30x^6 + 14x^4 + 24x^2 - 22$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{10}{3} \quad \frac{10}{3} \quad \frac{7}{2} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 4x^{10} + 8x^8 + 6x^6 - 4x^4 - 6$ | $x^{12} + 32x^{10} + 400x^8 + 2526x^6 + 8880x^4 + 16100x^2 + 12250$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{10}{3} \quad \frac{10}{3} \quad \frac{7}{2} \right]_3^2$ | T: 12,134 | $\frac{595}{192}$ |
| $x^{12} - 6x^6 + 2$ | $x^{12} - 4x^{11} + 4x^{10} + 4x^9 + 2x^8 + 76x^7 - 102x^6 - 328x^5 + 470x^4 + 1488x^3 + 1172x^2 + 344x + 34$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{7}{2} \right]_3^2$ | T: 12,14 | $\frac{17}{6}$ |
| $x^{12} + 8x^{10} + 4x^8 - 6x^6 - 6$ | $x^{12} + 12x^{10} + 92x^8 + 422x^6 + 1840x^4 + 7000x^2 + 12250$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{7}{3} \quad 3 \quad \frac{7}{3} \quad 3 \quad \frac{7}{2} \right]_3^2$ | T: 12,134 | $\frac{583}{192}$ |
| $x^{12} + 2x^6 + 2$ | $x^{12} - 4x^{10} + 8x^8 - 14x^6 + 16x^4 - 8x^2 + 2$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{7}{2} \right]_3^2$ | T: 12,14 | $\frac{17}{6}$ |
| $x^{12} - 4x^{10} - 6x^8 - 6x^6 + 6x^4 + 6$ | $x^{12} - 10x^{10} + 32x^8 - 46x^6 + 66x^4 - 36x^2 + 54$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad 3 \quad \frac{10}{3} \quad \frac{10}{3} \quad \frac{7}{2} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 4x^{10} - 2x^8 + 2x^6 + 2x^4 + 4x^2 + 2$ | $x^{12} - 10x^{10} + 16x^8 + 78x^6 - 98x^4 - 176x^2 + 242$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad 3 \quad \frac{10}{3} \quad \frac{10}{3} \quad \frac{7}{2} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 4x^{10} + 8x^8 + 6x^6 + 4x^4 + 2$ | $x^{12} + 10x^{10} + 54x^8 + 174x^6 + 312x^4 + 280x^2 + 98$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{cc} 7 & 7 \\ 2 & 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{595}{192}$ |
| $x^{12} + 8x^8 - 6x^6 - 2x^4 + 8x^2 + 6$ | $x^{12} + 30x^{10} + 270x^8 - 1050x^6 - 12150x^4 + 54000x^2 - 56250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{cc} 10 & 10 \\ 7 & 7 \\ 2 & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 4x^{10} - 4x^8 + 6x^6 - 2x^4 + 8x^2 - 2$ | $x^{12} - 54x^{10} - 906x^8 - 4760x^6 - 8820x^4 + 600x^2 - 200$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{cc} 10 & 10 \\ 7 & 7 \\ 2 & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 4x^{10} + 2x^8 + 2x^6 + 2x^4 - 6$ | $x^{12} + 10x^{10} + 68x^8 + 238x^6 + 470x^4 + 500x^2 + 250$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 10 & 10 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{cc} 7 & 7 \\ 2 & 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 6x^6 - 2$ | $x^{12} + 6x^{10} + 10x^8 - 2x^6 - 12x^4 - 8x^2 - 2$ | $\left[\begin{array}{cc} 2 & 3 \\ 3 & 2 \end{array} \right]_3^2$ | T: 12,14 | $\frac{17}{6}$ |
| $x^{12} + 2x^8 + 2x^6 + 6x^4 - 4x^2 + 6$ | $x^{12} + 22x^{10} + 220x^8 + 1210x^6 + 3630x^4 + 5324x^2 + 2662$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 10 & 10 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{cc} 7 & 7 \\ 2 & 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} - 4x^{10} + 6x^8 + 2x^6 + 4x^4 + 8x^2 - 2$ | $x^{12} - 2x^{10} + 22x^6 - 176x^4 + 396x^2 - 242$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 19 \\ 6 & 6 & 2 \end{array} \left[\begin{array}{cc} 7 & 7 \\ 2 & 2 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 4x^{10} + 6x^8 - 6x^6 - 6x^4 + 4x^2 + 2$ | $x^{12} - 2x^{10} - 12x^8 + 66x^6 + 330x^4 + 484x^2 + 242$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 10 & & \\ 3 & & \\ 2 & & \end{array} \right]^2_3$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 2x^8 - 2x^6 + 8x^2 - 2$ | $x^{12} + 12x^{10} + 66x^8 + 198x^6 + 352x^4 + 176x^2 - 242$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 19 & & \\ 6 & & \\ 6 & & \end{array} \right]^2_3$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 8x^{10} + 2x^8 - 6x^6 + 8x^2 - 6$ | $x^{12} + 18x^{10} + 96x^8 + 90x^6 - 1500x^4 - 4500x^2 - 3750$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 19 & & \\ 6 & & \\ 6 & & \end{array} \right]^2_3$ | T: 12,142 | $\frac{619}{192}$ |
| $x^{12} - 4x^{10} + 8x^8 + 6x^6 + 6x^4 - 6$ | $x^{12} + 10x^{10} + 34x^8 + 40x^6 - 20x^4 - 104x^2 - 88$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & & \\ 3 & & \\ 3 & & \end{array} \right] \begin{array}{ccc} 10 & & \\ 3 & & \\ 2 & & \end{array} \right]^2_3$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 8x^{10} + 4x^8 - 6x^6 - 6x^4 - 6$ | $x^{12} - 14x^{10} + 34x^8 - 22x^6 - 22x^4 + 44x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & & \\ 3 & & \\ 3 & & \end{array} \right] \begin{array}{ccc} 10 & & \\ 3 & & \\ 2 & & \end{array} \right]^2_3$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 8x^{10} - 2x^8 + 6x^6 + 4x^4 + 4x^2 + 6$ | $x^{12} + 16x^{10} + 102x^8 + 302x^6 + 304x^4 - 160x^2 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 19 & & \\ 6 & & \\ 6 & & \end{array} \right]^2_3$ | T: 12,142 | $\frac{619}{192}$ |
| $x^{12} - 4x^{10} + 6x^6 + 6x^4 + 2$ | $x^{12} + 24x^{10} + 216x^8 + 886x^6 + 1582x^4 + 968x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & & \\ 3 & & \\ 3 & & \end{array} \right] \begin{array}{ccc} 10 & & \\ 3 & & \\ 2 & & \end{array} \right]^2_3$ | T: 12,222 | $\frac{2563}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 2x^6 + 8x^4 - 6$ | $x^{12} - 24x^{10} + 256x^8 - 1566x^6 + 5840x^4 - 12600x^2 + 12250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 7 & 7 & 7 \\ 2 & 2 & 2 \end{array} \right]_3$ | T: 12,51 | $\frac{139}{48}$ |
| $x^{12} + 4x^{10} + 2x^8 - 6x^6 + 2x^4 + 8x^2 + 2$ | $x^{12} - 10x^{10} + 64x^8 - 250x^6 + 570x^4 - 616x^2 + 242$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]_3$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} - 4x^8 + 2x^6 - 6x^4 + 2$ | $x^{12} + 4x^{10} + 22x^6 + 198x^4 + 396x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 10 & 10 & 7 \\ 2 & 2 & 2 \end{array} \right]_3$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 8x^{10} - 4x^8 - 6x^6 - 4x^4 + 8x^2 + 2$ | $x^{12} - 2x^{10} + 2x^8 - 22x^6 + 242$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,51 | $\frac{37}{12}$ |
| $x^{12} + 8x^{10} + 6x^8 - 2x^6 + 4x^4 - 4x^2 - 2$ | $x^{12} + 2x^{10} - 2x^6 - 8x^4 + 8x^2 - 2$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 19 & 19 & 7 \\ 6 & 6 & 2 \end{array} \right]_3$ | T: 12,142 | $\frac{619}{192}$ |
| $x^{12} + 2x^8 + 2x^6 + 2$ | $x^{12} + 12x^{10} + 42x^8 + 26x^6 + 24x^4 + 2$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 19 & 19 & 7 \\ 6 & 6 & 2 \end{array} \right]_3$ | T: 12,142 | $\frac{619}{192}$ |
| $x^{12} + 8x^8 + 2x^6 - 2x^4 + 8x^2 + 2$ | $x^{12} + 6x^{10} + 10x^8 + 10x^6 + 10x^4 + 8x^2 + 2$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 10 & 10 & 7 \\ 2 & 2 & 2 \end{array} \right]_3$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 6x^6 - 6$ | $x^{12} + 16x^8 - 26x^6 + 100x^4 - 100x^2 + 250$ | $\left[\begin{array}{ccc} 2 & 3 & 7 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,14 | $\frac{17}{6}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 4x^{10} - 6x^8 - 2x^6 - 6x^4 + 4x^2 + 6$ | $x^{12} - 66x^8 + 242x^6 - 242x^4 + 2662$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{4}{3} & 2 & \frac{8}{3} \\ \frac{4}{3} & \frac{4}{3} & 2 \end{array} \right]_3$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} - 4x^{10} + 8x^8 + 6x^6 - 2x^4 - 6$ | $x^{12} - 10x^{10} + 34x^8 - 40x^6 - 20x^4 + 104x^2 - 88$ | $\left[\begin{array}{ccc} \frac{4}{3} & 2 & \frac{8}{3} \\ \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{4}{3} & \frac{4}{3} & 2 \end{array} \right]_3$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 4x^8 - 6x^6 + 8x^4 - 6$ | $x^{12} + 12x^{10} + 20x^8 - 182x^6 + 160x^4 + 5600x^2 + 12250$ | $\left[\begin{array}{ccc} \frac{4}{3} & 2 & \frac{7}{3} \\ \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{4}{3} & \frac{4}{3} & 2 \end{array} \right]_3$ | T: 12,134 | $\frac{583}{192}$ |
| $x^{12} + 4x^{10} + 2x^8 + 2x^6 - 2x^4 + 8x^2 - 2$ | $x^{12} + 6x^{10} + 12x^8 + 10x^6 + 6x^4 - 2$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{4}{3} & 2 & \frac{7}{3} \\ \frac{4}{3} & \frac{4}{3} & 2 \end{array} \right]_3$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} - 2x^8 - 2x^6 + 6x^4 + 8x^2 - 6$ | $x^{12} + 66x^8 - 126x^6 + 1450x^4 - 700x^2 + 12250$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{4}{3} & 2 & \frac{7}{3} \\ \frac{4}{3} & \frac{4}{3} & 2 \end{array} \right]_3$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 8x^{10} - 2x^8 - 2x^6 - 2x^4 + 4x^2 - 6$ | $x^{12} - 6x^{10} - 68x^8 + 362x^6 + 1830x^4 - 10500x^2 + 12250$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{4}{3} & 2 & \frac{7}{3} \\ \frac{4}{3} & \frac{4}{3} & 2 \end{array} \right]_3$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} - 4x^{10} + 6x^8 - 6x^6 - 6x^4 - 4x^2 - 6$ | $x^{12} - 30x^{10} + 324x^8 - 1702x^6 + 6410x^4 - 11900x^2 + 12250$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{4}{3} & 2 & \frac{7}{3} \\ \frac{4}{3} & \frac{4}{3} & 2 \end{array} \right]_3$ | T: 12,134 | $\frac{10}{3}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{12} + 4x^{10} - 2x^8 - 6x^6 - 4x^4 + 8x^2 - 2$ | $x^{12} + 2x^{10} - 22x^6 - 176x^4 - 396x^2 - 242$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & \frac{19}{6} \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 2x^8 + 6x^6 + 8x^4 + 6$ | $x^{12} + 22x^{10} + 220x^8 + 1122x^6 + 3036x^4 + 4356x^2 + 2662$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & \frac{19}{6} \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 4x^{10} + 2x^8 + 2x^6 + 2x^4 + 2$ | $x^{12} - 4x^9 + 29x^8 - 104x^7 - 62x^6 + 196x^5 - 353x^4 - 192x^3 + 1362x^2 + 1536x + 457$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \\ & 3 & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 4x^{10} - 2x^8 - 6x^6 + 6x^4 - 4x^2 + 6$ | $x^{12} - 10x^{10} + 52x^8 - 134x^6 + 186x^4 - 144x^2 + 54$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \\ & 3 & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 4x^8 - 2x^6 + 2$ | $x^{12} - 6x^{10} + 18x^8 - 146x^6 + 828x^4 - 1968x^2 + 1682$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & \frac{7}{3} \end{array} \right]_3^2$ | T: 12,134 | $\frac{583}{192}$ |
| $x^{12} + 4x^{10} + 2x^8 - 2x^6 + 4x^4 + 4x^2 - 2$ | $x^{12} + 10x^{10} + 22x^8 + 132x^4 + 264x^2 - 968$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & \frac{19}{6} \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 4x^{10} - 2x^8 - 6x^6 + 8x^4 + 4x^2 + 6$ | $x^{12} - 10x^{10} + 54x^8 - 176x^6 + 308x^4 - 264x^2 + 88$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 4x^{10} - 2x^6 - 4x^4 - 2$ | $x^{12} - 10x^{10} + 2x^8 + 102x^6 - 216x^4 + 216x^2 - 162$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{595}{192}$ |
| $x^{12} + 8x^{10} - 4x^8 + 2x^6 + 6x^4 + 8x^2 - 6$ | $x^{12} - 88x^8 - 682x^6 - 2486x^4 - 4356x^2 - 2662$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 4x^{10} - 2x^8 + 2x^6 + 8x^4 + 4x^2 + 6$ | $x^{12} - 66x^8 + 66x^6 + 880x^4 + 484x^2 + 2662$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 4x^8 - 2x^6 + 8x^4 + 8x^2 + 6$ | $x^{12} - 18x^{10} + 54x^8 - 120x^6 + 36x^4 + 72x^2 + 24$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 7 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{583}{192}$ |
| $x^{12} + 8x^{10} - 4x^8 + 2x^6 + 6$ | $x^{12} + 18x^{10} + 54x^8 + 120x^6 + 36x^4 - 72x^2 + 24$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 7 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{583}{192}$ |
| $x^{12} + 2x^8 + 2x^6 + 2x^4 + 4x^2 + 2$ | $x^{12} - 6x^8 - 2x^6 + 18x^4 + 12x^2 + 2$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 10 \\ & & & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 4x^{10} - 2x^8 - 6x^6 + 2x^4 + 4x^2 + 2$ | $x^{12} - 4x^{10} + 10x^8 - 14x^6 + 14x^4 - 8x^2 + 2$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{10}{3} \\ 3 & \frac{10}{3} & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 4x^{10} - 6x^8 + 6x^6 + 8x^4 - 4x^2 + 2$ | $x^{12} + 18x^{10} + 24x^8 - 478x^6 - 1104x^4 - 660x^2 + 50$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{4}{3} & 2 & 3 \\ 3 & 3 & \frac{19}{6} \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} - 4x^8 + 2x^6 + 4x^4 + 8x^2 + 2$ | $x^{12} - 2x^{10} + 2x^8 - 2x^6 + 4x^4 - 4x^2 + 2$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{7}{2} \\ 3 & \frac{7}{2} & 3 \end{array} \right]_3^2$ | T: 12,51 | $\frac{37}{12}$ |
| $x^{12} + 4x^{10} - 4x^8 + 6x^6 + 6x^4 + 8x^2 - 2$ | $x^{12} + 48x^{10} + 756x^8 + 930x^6 + 5310x^4 - 5400x^2 - 450$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{4}{3} & 2 & \frac{8}{3} \\ 3 & \frac{8}{3} & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 8x^{10} + 8x^8 - 6x^6 + 4x^4 + 8x^2 + 6$ | $x^{12} - 18x^{10} + 146x^8 - 590x^6 + 1220x^4 - 1236x^2 + 486$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{4}{3} & 2 & \frac{8}{3} \\ 3 & \frac{8}{3} & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{595}{192}$ |
| $x^{12} - 4x^8 - 6x^6 + 4x^4 + 8x^2 + 2$ | $x^{12} - 10x^{10} + 50x^8 - 158x^6 + 324x^4 - 396x^2 + 242$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{7}{2} \\ 3 & \frac{7}{2} & 3 \end{array} \right]_3^2$ | T: 12,51 | $\frac{37}{12}$ |
| $x^{12} - 2x^6 + 2x^4 + 2$ | $x^{12} - 20x^{10} + 84x^8 - 214x^6 + 350x^4 - 396x^2 + 242$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{4}{3} & 2 & \frac{8}{3} \\ 3 & \frac{8}{3} & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 4x^{10} - 6x^8 - 6x^6 + 6x^4 + 8x^2 - 2$ | $x^{12} + 24x^{10} + 206x^8 + 750x^6 + 1242x^4 + 756x^2 - 162$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{10}{3} \end{array} \right]_3 \left[\begin{array}{c} 2 \\ \frac{7}{2} \\ 2 \end{array} \right]_3$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 8x^{10} - 4x^8 + 2x^6 + 6x^4 + 8x^2 + 6$ | $x^{12} - 24x^{10} - 1440x^8 - 330x^6 - 6750x^4 - 8100x^2 - 2250$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{8}{3} & 3 \\ & & \frac{10}{3} \end{array} \right]_3 \left[\begin{array}{c} 2 \\ \frac{7}{2} \\ 2 \end{array} \right]_3$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 2x^8 + 2x^6 + 4x^4 - 2$ | $x^{12} + 8x^{10} + 2x^8 - 78x^6 + 16x^4 - 44x^2 - 242$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{8}{3} & 3 \\ & & \frac{19}{6} \end{array} \right]_3 \left[\begin{array}{c} 2 \\ \frac{7}{2} \\ 2 \end{array} \right]_3$ | T: 12,142 | $\frac{619}{192}$ |
| $x^{12} + 8x^{10} - 2x^8 - 6x^6 - 6x^4 + 8x^2 - 6$ | $x^{12} + 26x^{10} + 316x^8 + 1974x^6 + 5850x^4 + 8400x^2 + 12250$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{10}{3} \end{array} \right]_3 \left[\begin{array}{c} 2 \\ \frac{7}{2} \\ 2 \end{array} \right]_3$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} - 4x^{10} - 4x^8 - 2x^6 + 4x^4 + 8x^2 + 6$ | $x^{12} + 6x^{10} + 6x^8 - 18x^6 - 24x^4 + 6$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{7}{2} \end{array} \right]_3 \left[\begin{array}{c} 2 \\ \frac{7}{2} \\ 2 \end{array} \right]_3$ | T: 12,51 | $\frac{37}{12}$ |
| $x^{12} - 4x^8 - 2x^6 + 8x^4 + 8x^2 - 6$ | $x^{12} - 4x^{10} + 60x^8 - 274x^6 + 1840x^4 - 4200x^2 + 12250$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{7}{3} & 3 \\ & & \frac{7}{2} \end{array} \right]_3 \left[\begin{array}{c} 2 \\ \frac{7}{2} \\ 2 \end{array} \right]_3$ | T: 12,134 | $\frac{583}{192}$ |
| $x^{12} + 8x^{10} + 8x^8 + 6x^6 + 2x^4 + 2$ | $x^{12} + 8x^{10} + 4x^8 - 6x^6 - 2x^4 + 4x^2 + 2$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{8}{3} & 3 \\ & & \frac{10}{3} \end{array} \right]_3 \left[\begin{array}{c} 2 \\ \frac{7}{2} \\ 2 \end{array} \right]_3$ | T: 12,222 | $\frac{2563}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 8x^{10} + 6x^8 - 2x^6 + 4x^2 - 6$ | $x^{12} - 54x^{10} - 1782x^8 - 21120x^6 - 124812x^4 - 372024x^2 - 463704$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 3 \\ 3 & 3 & 3 & 6 \end{array} \frac{19}{6} \frac{7}{2} \right]_3^2$ | T: 12,142 | $\frac{619}{192}$ |
| $x^{12} + 4x^8 + 6x^6 + 8x^4 + 8x^2 - 2$ | $x^{12} + 6x^{10} + 6x^8 + 2x^6 - 48x^4 + 60x^2 - 2$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 7 \\ 3 & 3 & 3 & 3 \end{array} \frac{7}{3} \frac{7}{2} \right]_3^2$ | T: 12,134 | $\frac{583}{192}$ |
| $x^{12} - 6x^8 - 6x^6 + 8x^4 + 8x^2 - 6$ | $x^{12} - 18x^{10} + 96x^8 - 90x^6 - 1500x^4 + 4500x^2 - 3750$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 3 \\ 3 & 3 & 3 & 6 \end{array} \frac{19}{6} \frac{7}{2} \right]_3^2$ | T: 12,142 | $\frac{619}{192}$ |
| $x^{12} - 4x^8 - 6x^6 + 8x^4 - 2$ | $x^{12} - 6x^{10} + 6x^8 + 34x^6 + 24x^4 + 12x^2 - 2$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 7 \\ 3 & 3 & 3 & 3 \end{array} \frac{7}{3} \frac{7}{2} \right]_3^2$ | T: 12,134 | $\frac{583}{192}$ |
| $x^{12} - 2x^6 - 6x^4 - 6$ | $x^{12} + 20x^8 + 98x^6 + 94x^4 - 4x^2 - 22$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \frac{8}{3} \frac{10}{3} \frac{7}{2} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 8x^{10} + 8x^8 - 6x^6 + 6x^4 + 8x^2 + 6$ | $x^{12} - 12x^{10} - 540x^8 - 5160x^6 - 21600x^4 - 43200x^2 - 36000$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \frac{10}{3} \frac{10}{3} \frac{7}{2} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 8x^{10} - 2x^8 + 6x^6 - 6x^4 - 2$ | $x^{12} - 4x^{10} - 18x^8 - 22x^6 + 154x^4 - 242$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \frac{10}{3} \frac{7}{2} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} - 2x^6 - 6x^4 + 6$ | $x^{12} - 18x^{10} - 30x^8 + 2330x^6 - 16350x^4 + 44700x^2 - 42250$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \frac{8}{3} \frac{10}{3} \frac{7}{2} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 8x^{10} + 6x^8 + 6x^6 + 4x^2 - 6$ | $x^{12} + 18x^{10} + 2610x^8 + 10800x^6 + 23940x^4 - 59832x^2 - 32856$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{619}{192}$ |
| $x^{12} - 4x^{10} + 2x^8 + 6x^6 + 6x^4 + 4x^2 - 6$ | $x^{12} - 30x^{10} + 364x^8 - 2402x^6 + 9210x^4 - 16800x^2 + 12250$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 10 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 2x^8 + 6x^6 + 4x^4 - 6$ | $x^{12} + 18x^{10} + 360x^8 + 2070x^6 + 7560x^4 - 43092x^2 - 1013526$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} - 6x^8 - 6x^6 - 2x^4 - 4x^2 + 6$ | $x^{12} + 10x^{10} + 40x^8 + 86x^6 + 114x^4 + 88x^2 + 22$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 10 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 8x^{10} - 4x^8 - 6x^6 - 6x^4 - 2$ | $x^{12} - 48x^{10} + 36x^8 + 600x^6 - 1440x^4 - 7200$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 8 \\ & & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 4x^{10} - 2x^8 - 6x^6 + 4x^4 + 4x^2 - 6$ | $x^{12} - 54x^{10} + 1074x^8 - 9360x^6 + 28980x^4 + 45000x^2 - 375000$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 8x^{10} - 6x^8 - 2x^6 - 4x^4 - 6$ | $x^{12} - 54x^{10} - 720x^8 - 4590x^6 - 14760x^4 - 27324x^2 - 16854$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} - 4x^8 + 2x^6 - 2x^4 + 8x^2 - 6$ | $x^{12} - 88x^8 + 682x^6 - 2486x^4 + 4356x^2 - 2662$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{10}{3} \quad 3 \quad \frac{10}{3} \quad \frac{7}{2} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 2x^6 + 2x^4 + 6$ | $x^{12} - 6x^{10} - 24x^9 - 366x^8 + 48x^7 - 928x^6 - 2016x^5 + 5556x^4 + 672x^3 - 6360x^2 + 3936x - 728$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{10}{3} \quad 3 \quad \frac{10}{3} \quad \frac{7}{2} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 4x^{10} + 6x^8 + 2x^6 + 8x^2 + 2$ | $x^{12} - 18x^8 - 42x^6 + 216x^4 + 18$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 4 \quad 2 \quad 3 \quad \frac{19}{6} \quad \frac{19}{6} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 8x^{10} + 2x^8 + 2x^6 + 8x^2 - 6$ | $x^{12} - 36x^{10} + 360x^8 - 1536x^6 - 4032x^4 + 43776x^2 - 75264$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 4 \quad 2 \quad 3 \quad \frac{19}{6} \quad \frac{19}{6} \right]_3^2$ | T: 12,142 | $\frac{619}{192}$ |
| $x^{12} + 8x^{10} + 2x^6 + 8x^4 + 2$ | $x^{12} + 22x^{10} + 242x^8 + 1936x^6 + 12100x^4 + 53240x^2 + 117128$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 4 \quad 2 \quad 3 \quad \frac{7}{2} \right]_3^2$ | T: 12,51 | $\frac{139}{48}$ |
| $x^{12} - 2x^6 + 2x^4 - 2$ | $x^{12} - 1440x^8 - 32400x^6 - 266400x^4 - 864000x^2 - 720000$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{10}{3} \quad 3 \quad \frac{10}{3} \quad \frac{7}{2} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 8x^{10} + 2x^8 - 6x^6 - 4x^2 - 2$ | $x^{12} - 8x^{10} + 2x^8 + 78x^6 + 16x^4 + 44x^2 - 242$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 4 \quad 2 \quad 3 \quad \frac{19}{6} \quad \frac{19}{6} \right]_3^2$ | T: 12,142 | $\frac{619}{192}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 8x^{10} - 2x^8 + 6x^6 + 8x^4 + 4x^2 - 6$ | $x^{12} - 18x^{10} + 2610x^8 - 10800x^6 + 23940x^4 + 59832x^2 - 32856$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{619}{192}$ |
| $x^{12} + 6x^8 + 2x^6 + 2x^4 + 8x^2 - 6$ | $x^{12} + 30x^{10} + 336x^8 + 1654x^6 + 3270x^4 + 3500x^2 + 12250$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 10 \\ & & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 8x^{10} - 2x^8 + 6x^6 + 2x^4 + 4x^2 + 6$ | $x^{12} + 10x^{10} + 32x^8 + 46x^6 + 66x^4 + 36x^2 + 54$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 10 \\ & & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 2x^6 + 4x^4 + 2$ | $x^{12} - 4x^{11} - 16x^{10} + 12x^9 + 674x^8 - 1916x^7 - 2162x^6 + 10016x^5 + 12106x^4 - 50704x^3 - 1420x^2 + 58016x + 24994$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 8 & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{595}{192}$ |
| $x^{12} + 4x^8 - 6x^6 - 2x^4 + 8x^2 - 2$ | $x^{12} + 54x^{10} - 906x^8 + 4760x^6 - 8820x^4 - 600x^2 - 200$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 8 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 4x^{10} + 6x^8 + 6x^6 + 8x^4 - 2$ | $x^{12} - 2x^{10} + 2x^6 - 8x^4 - 8x^2 - 2$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 19 & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{619}{192}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 8x^8 - 6x^6 - 6x^4 - 6$ | $x^{12} + 6x^{10} + 10x^8 - 10x^6 - 50x^4 - 56x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 2x^8 + 2x^6 + 8x^4 + 4x^2 + 6$ | $x^{12} + 10x^{10} + 38x^8 + 80x^6 + 132x^4 + 168x^2 + 88$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{619}{192}$ |
| $x^{12} + 4x^{10} + 6x^8 - 2x^6 - 4x^4 + 2$ | $x^{12} + 72x^8 - 312x^6 + 864x^4 - 864x^2 + 288$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{619}{192}$ |
| $x^{12} + 4x^{10} - 2x^6 + 4x^4 + 2$ | $x^{12} + 30x^{10} + 486x^8 + 4698x^6 + 25272x^4 + 68040x^2 + 71442$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{595}{192}$ |
| $x^{12} - 6x^8 - 6x^6 + 4x^2 + 6$ | $x^{12} - 10x^{10} + 38x^8 - 80x^6 + 132x^4 - 168x^2 + 88$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{619}{192}$ |
| $x^{12} + 8x^{10} - 2x^8 + 2x^6 - 2x^4 + 8x^2 + 6$ | $x^{12} - 14x^{10} + 74x^8 - 208x^6 + 324x^4 - 264x^2 + 88$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} - 2x^6 + 8x^4 - 2$ | $x^{12} - 6x^{10} + 42x^8 - 22x^6 - 264x^4 + 484x^2 - 242$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,51 | $\frac{139}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 4x^8 - 6x^6 + 2x^4 - 2$ | $x^{12} - 3150x^6 - 36450x^4 - 121500x^2 - 101250$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 8x^{10} - 6x^8 + 6x^6 + 8x^4 + 8x^2 - 2$ | $x^{12} - 12x^{10} + 66x^8 - 198x^6 + 352x^4 - 176x^2 - 242$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 19 & 19 & 7 \\ 6 & 6 & 2 \end{array} \right]^2_3$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 4x^{10} - 6x^8 + 6x^6 + 6x^4 - 6$ | $x^{12} - 24x^{10} + 238x^8 - 1246x^6 + 4290x^4 - 9100x^2 + 12250$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]^2_3$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 8x^{10} - 4x^8 + 2x^6 - 4x^4 + 8x^2 + 6$ | $x^{12} - 6x^{10} + 6x^8 + 18x^6 - 24x^4 + 6$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 7 & 7 \\ 3 & 2 & 2 \end{array} \right]^2_3$ | T: 12,51 | $\frac{37}{12}$ |
| $x^{12} - 4x^8 - 6x^6 - 2x^4 + 8x^2 - 6$ | $x^{12} - 12x^{10} + 60x^8 - 154x^6 + 198x^4 - 88x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 4x^{10} + 8x^8 + 6x^6 + 6x^4 + 6$ | $x^{12} - 48x^{10} - 176x^9 + 585x^8 + 5652x^7 + 12818x^6 - 20304x^5 - 201315x^4 - 595324x^3 - 982854x^2 - 927600x - 397025$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2563}{768}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 2x^8 - 2x^6 - 2x^4 + 2$ | $x^{12} + 42x^{10} + 720x^8 + 6210x^6 + 28026x^4 + 61236x^2 + 71442$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 10 & & \\ 3 & & \\ 2 & & \end{array} \right]^2_3$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 8x^{10} - 6x^8 + 6x^6 + 6$ | $x^{12} + 14x^{10} + 68x^8 + 154x^6 + 176x^4 + 88x^2 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 2 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 19 & & \\ 6 & & \\ 2 & & \end{array} \right]^2_3$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 4x^{10} - 2x^8 - 6x^6 - 4x^4 - 4x^2 + 2$ | $x^{12} - 12x^{10} + 54x^8 - 58x^6 + 36x^4 - 12x^2 + 2$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 2 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 19 & & \\ 6 & & \\ 2 & & \end{array} \right]^2_3$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} - 4x^{10} + 2x^8 + 6x^6 + 4x^4 - 4x^2 - 2$ | $x^{12} - 10x^{10} + 22x^8 + 132x^4 - 264x^2 - 968$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 2 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 19 & & \\ 6 & & \\ 2 & & \end{array} \right]^2_3$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 8x^{10} - 4x^8 - 6x^6 + 6x^4 + 8x^2 + 6$ | $x^{12} + 12x^{10} - 330x^6 - 1350x^4 - 2700x^2 - 2250$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 2 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 8 & & \\ 3 & & \\ 3 & & \end{array} \right] \begin{array}{ccc} 10 & & \\ 3 & & \\ 2 & & \end{array} \right]^2_3$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 4x^{10} - 2x^6 + 6x^4 + 2$ | $x^{12} - 6x^{10} + 10x^8 - 10x^6 + 10x^4 - 8x^2 + 2$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 2 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 8 & & \\ 3 & & \\ 3 & & \end{array} \right] \begin{array}{ccc} 10 & & \\ 3 & & \\ 2 & & \end{array} \right]^2_3$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 8x^{10} + 2x^6 - 4x^4 + 8x^2 - 6$ | $x^{12} - 26x^{10} + 310x^8 - 1982x^6 + 7240x^4 - 14000x^2 + 12250$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 2 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 8 & & \\ 3 & & \\ 3 & & \end{array} \right] \begin{array}{ccc} 3 & & \\ 3 & & \\ 2 & & \end{array} \right]^2_3$ | T: 12,134 | $\frac{595}{192}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 8x^{10} - 2x^8 - 2x^6 - 6x^4 - 2$ | $x^{12} + 4x^{10} - 18x^8 + 22x^6 + 154x^4 - 242$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ & 3 & 3 & 3 \\ & & 10 & 10 \\ & & & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 4x^{10} + 4x^8 - 2x^6 + 6x^4 + 8x^2 + 6$ | $x^{12} - 84x^{10} - 248x^9 + 2205x^8 + 14580x^7 + 8174x^6 - 198072x^5 - 799815x^4 - 1201852x^3 - 271890x^2 + 988680x + 624475$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \\ & 3 & 3 & 3 \\ & & 10 & 10 \\ & & & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 8x^{10} + 8x^8 + 6x^6 - 6x^4 - 2$ | $x^{12} - 1440x^8 + 32400x^6 - 266400x^4 + 864000x^2 - 720000$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \\ & 3 & 3 & 3 \\ & & 10 & 10 \\ & & & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 4x^{10} - 4x^8 + 6x^6 + 4x^4 + 8x^2 - 2$ | $x^{12} - 12x^8 + 26x^6 - 24x^4 + 12x^2 - 2$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ & 3 & 3 & 3 \\ & & 7 & 7 \\ & & & 2 \end{array} \right]_3^2$ | T: 12,51 | $\frac{37}{12}$ |
| $x^{12} + 8x^{10} + 2x^6 + 6x^4 + 8x^2 - 6$ | $x^{12} + 4x^{10} + 16x^8 + 30x^6 + 14x^4 - 24x^2 - 22$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \\ & 3 & 3 & 3 \\ & & 10 & 10 \\ & & & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 4x^{10} + 2x^8 - 2x^6 + 4x^2 + 2$ | $x^{12} - 6x^{10} - 24x^8 + 110x^6 + 300x^4 + 50$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 3 \\ 3 & 3 & 3 & 3 \\ & 19 & 19 & 6 \\ & & 7 & 7 \\ & & & 2 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 8x^8 - 6x^6 - 4x^4 + 8x^2 + 6$ | $x^{12} - 4x^{10} + 8x^8 - 18x^6 + 24x^4 - 20x^2 + 6$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \\ & 3 & 3 & 3 \\ & & 7 & 7 \\ & & & 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{595}{192}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{12} + 4x^{10} + 6x^8 + 2x^6 - 2x^4 - 4x^2 + 6$ | $x^{12} + 6x^{10} + 12x^8 + 6x^6 - 6x^4 + 6$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{10}{3} \\ 3 & \frac{10}{3} & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 8x^{10} + 6x^8 - 2x^6 - 4x^4 + 4x^2 + 6$ | $x^{12} - 4x^{11} + 4x^{10} + 36x^9 - 71x^8 + 298x^6 + 84x^5 - 339x^4 - 308x^3 - 102x^2 - 16x - 1$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ \frac{4}{3} & 3 & \frac{19}{6} \\ 2 & \frac{19}{6} & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{619}{192}$ |
| $x^{12} - 4x^{10} - 6x^8 - 2x^6 - 2x^4 + 4x^2 - 6$ | $x^{12} - 66x^8 - 182x^6 + 1450x^4 + 8400x^2 + 12250$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{10}{3} \\ 3 & \frac{10}{3} & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|-----------------------------------|--|---|-----------|-------------------|
| $x^{12} + 4x^8 + 2x^6 + 8x^4 + 2$ | $x^{12} - 6x^{10} + 234x^8 + 178x^6 + 72x^4 + 12x^2 + 2$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ \frac{4}{3} & 3 & \frac{7}{3} \\ 2 & \frac{7}{3} & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{583}{192}$ |
| $x^{12} + 2x^6 + 4x^4 + 8x^2 - 6$ | $x^{12} - 22x^{10} + 190x^8 - 1018x^6 + 3880x^4 - 7000x^2 + 12250$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ \frac{4}{3} & 3 & \frac{8}{3} \\ 2 & \frac{8}{3} & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{595}{192}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-------------------|
| $x^{12} + 4x^{10} + 2x^8 + 6x^6 - 6x^4 + 8x^2 - 2$ | $x^{12} - 6x^{10} + 20x^8 - 210x^6 - 270x^4 - 432x^2 - 162$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \\ & 10 & 3 \\ & 7 & 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} - 2x^6 + 6$ | $x^{12} - 12x^{10} + 48x^8 - 90x^6 + 84x^4 - 36x^2 + 6$ | $\left[\begin{array}{ccc} 2 & 3 & 7 \\ 3 & 2 & 2 \end{array} \right]_3^2$ | T: 12,14 | $\frac{17}{6}$ |
| $x^{12} - 4x^8 - 2x^6 + 8x^2 - 6$ | $x^{12} - 4x^{10} - 12x^8 + 194x^6 + 160x^4 + 12250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \\ & 7 & 3 \\ & 3 & 7 \\ & 2 & 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{583}{192}$ |
| $x^{12} - 4x^{10} + 2x^8 - 2x^6 + 2x^4 - 4x^2 - 2$ | $x^{12} + 2x^{10} + 12x^8 - 22x^6 - 198x^4 - 484x^2 - 242$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \\ & 10 & 3 \\ & 7 & 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 2x^8 - 6x^6 + 6x^4 + 4x^2 - 2$ | $x^{12} - 6x^8 - 6x^6 - 2x^4 - 4x^2 - 2$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \\ & 10 & 3 \\ & 7 & 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} - 4x^{10} + 8x^8 + 6x^6 + 4x^4 - 6$ | $x^{12} + 28x^{10} + 376x^8 + 2646x^6 + 9720x^4 + 17500x^2 + 12250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \\ & 8 & 3 \\ & 3 & 3 \\ & 7 & 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{595}{192}$ |
| $x^{12} + 8x^{10} - 2x^8 - 2x^6 + 8x^4 + 4x^2 - 6$ | $x^{12} + 54x^{10} - 1782x^8 + 21120x^6 - 124812x^4 + 372024x^2 - 463704$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \\ & 19 & 6 \\ & 7 & 2 \end{array} \right]_3^2$ | T: 12,142 | $\frac{619}{192}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 4x^{10} + 2x^8 - 2x^6 + 8x^4 + 4x^2 - 6$ | $x^{12} + 54x^{10} - 720x^8 + 4590x^6 - 14760x^4 + 27324x^2 - 16854$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} - 6x^8 + 2x^6 + 8x^4 + 8x^2 - 6$ | $x^{12} + 36x^{10} + 360x^8 + 1536x^6 - 4032x^4 - 43776x^2 - 75264$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{619}{192}$ |
| $x^{12} + 8x^{10} + 2x^8 + 2x^6 - 4x^2 - 2$ | $x^{12} - 4x^{10} + 10x^8 - 10x^6 + 4x^2 - 2$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{619}{192}$ |
| $x^{12} - 4x^{10} - 2x^8 + 2x^6 - 6$ | $x^{12} - 42x^{10} + 156x^8 - 150x^6 - 150$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 2x^8 + 2x^6 + 2x^4 + 2$ | $x^{12} - 110x^8 - 242x^6 + 4114x^4 + 21296x^2 + 29282$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 8 & 3 & 3 \\ & 3 & 10 \\ & & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 4x^{10} + 4x^8 + 6x^6 + 6x^4 + 8x^2 + 6$ | $x^{12} - 12x^{10} + 330x^6 - 1350x^4 + 2700x^2 - 2250$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 8 \\ & & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 4x^{10} + 2x^8 - 2x^6 - 2x^4 - 6$ | $x^{12} + 14x^{10} + 80x^8 + 218x^6 + 350x^4 + 400x^2 + 250$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 8 & 3 & 3 \\ & 3 & 10 \\ & & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 8x^{10} - 4x^8 + 6x^6 - 6x^4 + 8x^2 + 2$ | $x^{12} - 18x^{10} + 154x^8 - 594x^6 + 1034x^4 - 836x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 8 \\ & & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 4x^{10} - 6x^8 - 2x^6 + 2x^4 + 8x^2 - 2$ | $x^{12} - 6x^8 - 10x^6 - 6x^4 - 2$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & 3 & \frac{10}{3} \\ & & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 2x^8 + 2x^6 + 6x^4 + 4x^2 - 2$ | $x^{12} - 6x^8 + 6x^6 - 2x^4 + 4x^2 - 2$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & 3 & \frac{10}{3} \\ & & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 4x^{10} + 6x^6 - 4x^4 - 2$ | $x^{12} + 10x^{10} + 2x^8 - 102x^6 - 216x^4 - 216x^2 - 162$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & 3 & \frac{8}{3} \\ & & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{595}{192}$ |
| $x^{12} + 2x^8 + 2x^6 + 8x^4 + 2$ | $x^{12} - 12x^{10} + 42x^8 - 26x^6 + 24x^4 + 2$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & 3 & \frac{19}{6} \\ & & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{619}{192}$ |
| $x^{12} + 4x^8 + 2x^6 + 2x^4 + 2$ | $x^{12} - 4x^{10} - 22x^6 + 198x^4 - 396x^2 + 242$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & 3 & \frac{8}{3} \\ & & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 10 & \frac{10}{3} & 7 \\ & 3 & 2 \\ & & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 6x^8 - 6x^6 + 6x^4 - 2$ | $x^{12} - 2x^{10} + 6x^6 - 2x^4 - 8x^2 - 2$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & 3 & \frac{10}{3} \\ & & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 4x^{10} + 6x^8 - 6x^6 + 8x^4 - 6$ | $x^{12} + 54x^{10} + 1074x^8 + 9360x^6 + 28980x^4 - 45000x^2 - 375000$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & 3 & \frac{19}{6} \\ & & 3 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 8x^{10} - 6x^6 + 6x^4 + 8x^2 - 2$ | $x^{12} + 60x^{10} + 840x^8 + 3600x^6 - 2400x^4 - 48000x^2 - 80000$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & 3 & \frac{8}{3} \\ & & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 10 & \frac{10}{3} & 7 \\ & 3 & 2 \\ & & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 4x^8 + 2x^6 + 8x^4 + 6$ | $x^{12} + 18x^{10} + 126x^8 + 522x^6 + 1080x^4 + 972x^2 + 54$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 7 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{583}{192}$ |
| $x^{12} - 4x^{10} - 2x^8 + 2x^6 + 2x^4 - 4x^2 - 6$ | $x^{12} - 4x^{10} + 10x^8 - 74x^6 + 270x^4 - 400x^2 + 250$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} - 4x^8 - 6x^6 - 4x^4 + 8x^2 - 6$ | $x^{12} - 30x^{10} + 394x^8 - 2952x^6 + 13700x^4 - 37800x^2 + 49000$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 7 & 3 \\ 2 & 2 & 3 \end{array} \right]_3^2$ | T: 12,51 | $\frac{37}{12}$ |
| $x^{12} + 2x^8 - 6x^6 + 4x^4 - 2$ | $x^{12} + 4x^{10} + 10x^8 + 10x^6 - 4x^2 - 2$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 19 & 19 & 7 \\ 6 & 6 & 2 \end{array} \right]_3^2$ | T: 12,142 | $\frac{619}{192}$ |
| $x^{12} + 8x^{10} + 8x^8 - 2x^6 - 6x^4 - 2$ | $x^{12} - 18x^{10} - 198x^8 + 2160x^6 - 5580x^4 + 5400x^2 - 1800$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 6x^6 - 4x^4 + 8x^2 + 2$ | $x^{12} - 8x^{10} + 48x^8 - 162x^6 + 288x^4 - 252x^2 + 98$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 7 & 3 \\ 2 & 2 & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{595}{192}$ |
| $x^{12} + 8x^{10} - 4x^8 - 6x^6 + 6x^4 + 8x^2 - 6$ | $x^{12} + 12x^{10} + 60x^8 + 154x^6 + 198x^4 + 88x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 4x^{10} + 6x^8 + 2x^6 - 4x^4 + 4x^2 - 6$ | $x^{12} + 42x^{10} + 156x^8 + 150x^6 - 150$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & \frac{19}{6} \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 8x^{10} + 8x^8 + 6x^6 + 2x^4 - 2$ | $x^{12} + 18x^{10} - 198x^8 - 2160x^6 - 5580x^4 - 5400x^2 - 1800$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & \frac{8}{3} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 6x^6 - 2x^4 + 8x^2 - 2$ | $x^{12} - 360x^8 - 4050x^6 - 16650x^4 - 27000x^2 - 11250$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & \frac{8}{3} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 4x^{10} - 6x^8 - 6x^6 - 6x^4 - 6$ | $x^{12} - 4x^{11} - 16x^{10} + 72x^9 + 108x^8 - 628x^7 + 682x^6 - 2848x^5 + 11052x^4 - 13760x^3 + 10144x^2 - 26224x + 29354$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} - 4x^{10} - 2x^8 + 6x^6 + 8x^4 + 8x^2 + 6$ | $x^{12} + 8x^{10} + 30x^8 + 70x^6 + 100x^4 + 76x^2 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & \frac{19}{6} \end{array} \right]_3^2$ | T: 12,142 | $\frac{619}{192}$ |
| $x^{12} + 8x^8 - 6x^6 - 2x^4 + 8x^2 + 2$ | $x^{12} - 24x^{10} + 216x^8 - 886x^6 + 1582x^4 - 968x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & \frac{8}{3} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 4x^{10} - 2x^8 + 2x^6 + 4x^4 + 4x^2 + 2$ | $x^{12} - 18x^8 + 42x^6 + 216x^4 + 18$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} - 4x^{10} + 2x^8 + 6x^6 + 2x^4 - 4x^2 - 2$ | $x^{12} - 2x^{10} + 12x^8 + 22x^6 - 198x^4 + 484x^2 - 242$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 10 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} - 2x^6 + 2x^4 - 6$ | $x^{12} + 20x^8 - 98x^6 + 94x^4 + 4x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 8 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 4x^{10} + 2x^8 + 6x^6 + 6x^4 - 4x^2 + 2$ | $x^{12} + 42x^{10} + 774x^8 + 7992x^6 + 49572x^4 + 176904x^2 + 285768$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 10 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 4x^{10} + 2x^8 + 2x^6 - 2x^4 - 2$ | $x^{12} - 24x^{10} + 206x^8 - 750x^6 + 1242x^4 - 756x^2 - 162$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 10 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 2x^8 - 2x^6 + 8x^4 + 6$ | $x^{12} - 14x^{10} + 68x^8 - 154x^6 + 176x^4 - 88x^2 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 4x^{10} - 4x^8 - 2x^6 + 4x^4 + 8x^2 - 2$ | $x^{12} - 12x^8 - 26x^6 - 24x^4 - 12x^2 - 2$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \\ & 3 & 7 \end{array} \right]_3^2$ | T: 12,51 | $\frac{37}{12}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 8x^{10} - 6x^8 - 2x^6 + 6$ | $x^{12} - 22x^{10} + 220x^8 - 1122x^6 + 3036x^4 - 4356x^2 + 2662$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 8x^{10} + 4x^8 - 6x^6 + 2x^4 + 6$ | $x^{12} - 66x^{10} + 1530x^8 - 14880x^6 + 51300x^4 + 48600x^2 - 441000$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 8 \\ & & 3 \\ & & 10 \\ & & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 4x^{10} + 2x^8 - 2x^6 - 6x^4 + 6$ | $x^{12} + 10x^{10} + 52x^8 + 134x^6 + 186x^4 + 144x^2 + 54$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 10 \\ & & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} - 4x^{10} - 4x^8 - 2x^6 - 4x^4 + 8x^2 - 6$ | $x^{12} - 6x^{10} + 26x^8 - 78x^6 + 180x^4 - 300x^2 + 250$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \\ & & 7 \\ & & 2 \end{array} \right]_3^2$ | T: 12,51 | $\frac{37}{12}$ |
| $x^{12} - 4x^{10} - 2x^8 + 6x^6 + 4x^4 + 2$ | $x^{12} + 6x^{10} + 18x^8 - 16x^6 + 36x^4 + 24x^2 + 8$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{619}{192}$ |
| $x^{12} + 4x^{10} + 2x^8 - 6x^6 - 2x^4 + 8x^2 - 2$ | $x^{12} - 6x^{10} + 12x^8 - 10x^6 + 6x^4 - 2$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 10 \\ & & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 8x^{10} - 4x^8 + 6x^6 + 2x^4 + 8x^2 + 2$ | $x^{12} + 18x^{10} + 154x^8 + 594x^6 + 1034x^4 + 836x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 8 \\ & & 3 \\ & & 10 \\ & & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 4x^8 + 6x^6 + 8x^4 + 8x^2 + 2$ | $x^{12} + 36x^8 - 6x^6 + 324x^4 - 108x^2 + 450$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 7 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{583}{192}$ |
| $x^{12} - 4x^{10} + 6x^8 + 2x^6 + 4x^2 + 6$ | $x^{12} + 10x^{10} + 54x^8 + 176x^6 + 308x^4 + 264x^2 + 88$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 3 \\ 3 & 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 4x^8 - 6x^6 + 8x^4 + 2$ | $x^{12} - 36x^8 - 42x^6 + 324x^4 + 756x^2 + 450$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 7 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{583}{192}$ |
| $x^{12} - 4x^{10} - 4x^8 - 2x^6 + 4x^4 + 8x^2 - 6$ | $x^{12} - 6x^{10} - 70x^8 + 174x^6 + 3060x^4 + 10500x^2 + 12250$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 7 \end{array} \right]_3^2$ | T: 12,51 | $\frac{37}{12}$ |
| $x^{12} + 4x^{10} + 2x^8 - 2x^6 - 2x^4 + 4x^2 + 2$ | $x^{12} + 14x^{10} + 86x^8 + 296x^6 + 612x^4 + 728x^2 + 392$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 10 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} - 4x^{10} - 4x^8 - 2x^6 - 4x^4 + 8x^2 + 6$ | $x^{12} + 132x^8 - 1210x^6 + 3872x^4 - 5324x^2 + 2662$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 7 \end{array} \right]_3^2$ | T: 12,51 | $\frac{37}{12}$ |
| $x^{12} + 8x^{10} + 4x^8 + 2x^6 + 2x^4 + 6$ | $x^{12} - 42x^{10} + 1350x^8 - 5730x^6 + 4050x^4 + 2700x^2 - 2250$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 2x^6 + 8x^4 + 6$ | $x^{12} - 14x^{10} + 70x^8 - 136x^6 + 36x^4 + 88x^2 + 88$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 3 \\ 3 & 3 & 3 & 7 \end{array} \right]_3^2$ | T: 12,51 | $\frac{139}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 8x^{10} + 6x^8 - 2x^6 - 6x^4 + 4x^2 + 6$ | $x^{12} + 6x^8 + 42x^6 + 66x^4 + 36x^2 + 6$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & 3 & \frac{10}{3} \\ & & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 2x^8 - 2x^6 + 4x^4 + 2$ | $x^{12} + 6x^{10} - 24x^8 - 110x^6 + 300x^4 + 50$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ \frac{4}{3} & \frac{3}{3} & 3 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} - 2x^8 + 6x^6 - 6x^4 + 8x^2 + 6$ | $x^{12} - 10x^{10} + 40x^8 - 86x^6 + 114x^4 - 88x^2 + 22$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & 3 & \frac{10}{3} \\ & & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 8x^{10} + 4x^8 + 6x^6 + 2x^4 + 8x^2 - 2$ | $x^{12} + 48x^{10} + 36x^8 - 600x^6 - 1440x^4 - 7200$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ \frac{4}{3} & \frac{8}{3} & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 4x^{10} + 6x^8 - 2x^6 + 8x^2 + 6$ | $x^{12} - 8x^{10} + 30x^8 - 70x^6 + 100x^4 - 76x^2 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ \frac{4}{3} & \frac{3}{3} & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{619}{192}$ |
| $x^{12} + 6x^8 - 6x^6 + 2x^4 + 2$ | $x^{12} + 18x^8 - 30x^6 + 54x^4 - 36x^2 + 18$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & 3 & \frac{10}{3} \\ & & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 2x^8 + 2x^6 + 4x^4 - 4x^2 + 2$ | $x^{12} + 18x^8 + 6x^6 + 72x^4 + 72x^2 + 18$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ \frac{4}{3} & \frac{3}{3} & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{619}{192}$ |
| $x^{12} + 4x^{10} + 2x^8 + 2x^6 - 2x^4 + 6$ | $x^{12} + 6x^8 - 42x^6 + 66x^4 - 36x^2 + 6$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & 3 & \frac{10}{3} \\ & & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 4x^8 - 2x^6 - 2$ | $x^{12} - 6x^{10} + 6x^8 - 2x^6 - 48x^4 - 60x^2 - 2$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ \frac{4}{3} & \frac{3}{3} & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{583}{192}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 4x^{10} + 6x^8 + 2x^6 - 6x^4 + 4x^2 + 2$ | $x^{12} + 110x^8 - 242x^6 + 4114x^4 - 5324x^2 + 29282$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & 3 & \frac{10}{3} \\ & & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 8x^{10} + 6x^8 - 2x^6 + 2x^4 + 8x^2 + 6$ | $x^{12} - 22x^{10} + 220x^8 - 1210x^6 + 3630x^4 - 5324x^2 + 2662$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & 3 & \frac{10}{3} \\ & & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} - 4x^{10} + 6x^6 - 4x^4 + 6$ | $x^{12} + 4x^{10} + 8x^8 + 18x^6 + 24x^4 + 20x^2 + 6$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{595}{192}$ |
| $x^{12} + 2x^6 + 2x^4 + 6$ | $x^{12} + 6x^{10} - 90x^8 - 120x^6 + 2700x^4 - 5400x^2 - 9000$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 2x^6 - 2$ | $x^{12} - 6x^{10} + 10x^8 + 2x^6 - 12x^4 + 8x^2 - 2$ | $\left[\begin{array}{ccc} 2 & 3 & \frac{7}{2} \\ & 2 & 3 \end{array} \right]_3^2$ | T: 12,14 | $\frac{17}{6}$ |
| $x^{12} + 4x^{10} - 4x^8 + 6x^6 - 4x^4 + 8x^2 - 2$ | $x^{12} - 4x^{10} + 20x^8 - 26x^6 + 8x^4 + 4x^2 - 2$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & 3 & \frac{7}{2} \\ & & 3 \end{array} \right]_3^2$ | T: 12,51 | $\frac{37}{12}$ |
| $x^{12} + 8x^{10} + 6x^8 + 6x^6 - 2x^4 + 8x^2 - 6$ | $x^{12} + 30x^{10} + 422x^8 + 3424x^6 + 16420x^4 + 43400x^2 + 49000$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & 3 & \frac{10}{3} \\ & & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 8x^{10} - 6x^6 + 8x^4 + 2$ | $x^{12} - 12x^{10} + 72x^8 - 242x^6 + 484x^4 - 484x^2 + 242$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,51 | $\frac{139}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 4x^{10} + 4x^8 - 2x^6 + 4x^4 - 2$ | $x^{12} + 4x^{10} + 20x^8 + 26x^6 + 8x^4 - 4x^2 - 2$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & \frac{8}{3} & 3 \\ & & & \left[\begin{array}{cc} 7 & \\ & \frac{7}{2} \end{array} \right]_3 \end{array} \right]_3^2$ | T: 12,51 | $\frac{37}{12}$ |
| $x^{12} - 4x^8 - 2x^6 - 6x^4 + 8x^2 + 6$ | $x^{12} + 42x^{10} + 1350x^8 + 5730x^6 + 4050x^4 - 2700x^2 - 2250$ | $\left[\begin{array}{cccc} 4 & \frac{4}{3} & 2 & \frac{8}{3} \\ & & \frac{8}{3} & \frac{8}{3} \\ & & & 3 \\ & & & \left[\begin{array}{cc} 10 & \\ & \frac{10}{3} \end{array} \right]_3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 6x^6 + 2x^4 + 2$ | $x^{12} - 8x^{10} + 4x^8 + 6x^6 - 2x^4 - 4x^2 + 2$ | $\left[\begin{array}{cccc} 4 & \frac{4}{3} & 2 & \frac{8}{3} \\ & & \frac{8}{3} & \frac{8}{3} \\ & & & 3 \\ & & & \left[\begin{array}{cc} 10 & \\ & \frac{10}{3} \end{array} \right]_3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 4x^{10} + 4x^8 + 6x^6 - 2x^4 + 8x^2 + 2$ | $x^{12} + 10x^{10} + 22x^8 - 88x^6 - 220x^4 + 440x^2 + 968$ | $\left[\begin{array}{cccc} 4 & \frac{4}{3} & 2 & \frac{8}{3} \\ & & \frac{8}{3} & \frac{8}{3} \\ & & & 3 \\ & & & \left[\begin{array}{cc} 10 & \\ & \frac{10}{3} \end{array} \right]_3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 4x^8 - 6x^6 + 2x^4 - 6$ | $x^{12} + 14x^{10} + 34x^8 + 22x^6 - 22x^4 - 44x^2 - 22$ | $\left[\begin{array}{cccc} 4 & \frac{4}{3} & 2 & \frac{8}{3} \\ & & \frac{8}{3} & \frac{8}{3} \\ & & & 3 \\ & & & \left[\begin{array}{cc} 10 & \\ & \frac{10}{3} \end{array} \right]_3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 8x^{10} + 6x^8 + 6x^6 + 6x^4 + 4x^2 - 6$ | $x^{12} + 8x^{10} + 46x^8 + 166x^6 + 390x^4 + 500x^2 + 250$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & 3 & \frac{10}{3} \\ & & & \left[\begin{array}{cc} 7 & \\ & \frac{7}{2} \end{array} \right]_3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 8x^8 + 2x^6 + 4x^4 + 8x^2 - 2$ | $x^{12} - 10x^{10} + 38x^8 - 72x^6 - 108x^4 + 648x^2 - 648$ | $\left[\begin{array}{cccc} \frac{4}{3} & & & \\ & 4 & 2 & \frac{8}{3} \\ & & \frac{8}{3} & \frac{8}{3} \\ & & & 3 \\ & & & \left[\begin{array}{cc} 7 & \\ & \frac{7}{2} \end{array} \right]_3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{595}{192}$ |
| $x^{12} - 4x^{10} - 6x^8 + 6x^6 + 2x^4 + 8x^2 - 2$ | $x^{12} - 6x^8 + 10x^6 - 6x^4 - 2$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & 3 & \frac{10}{3} \\ & & & \left[\begin{array}{cc} 7 & \\ & \frac{7}{2} \end{array} \right]_3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 2x^6 - 6$ | $x^{12} - 16x^8 + 18x^6 + 100x^4 - 300x^2 + 250$ | $\left[\begin{array}{ccc} 2 & 3 & 7 \\ & & 2 \end{array} \right]_3^2$ | T: 12,14 | $\frac{17}{6}$ |
| $x^{12} + 4x^{10} + 2x^8 - 2x^6 + 2x^4 - 2$ | $x^{12} + 6x^{10} + 20x^8 + 210x^6 - 270x^4 + 432x^2 - 162$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 10 \\ & & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 4x^{10} - 6x^8 + 6x^6 + 4x^2 - 6$ | $x^{12} - 18x^{10} + 360x^8 - 2070x^6 + 7560x^4 + 43092x^2 - 1013526$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 2 & 3 \\ & & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 4x^{10} + 4x^8 + 6x^6 + 6x^4 + 8x^2 + 2$ | $x^{12} - 10x^{10} + 22x^8 + 88x^6 - 220x^4 - 440x^2 + 968$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 2 & 8 \\ & & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 8x^{10} - 4x^8 - 6x^6 + 4x^4 + 8x^2 - 6$ | $x^{12} - 2x^{10} - 6x^8 + 6x^6 + 20x^4 - 100x^2 + 250$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,51 | $\frac{37}{12}$ |
| $x^{12} + 8x^{10} + 6x^8 + 6x^6 + 4x^4 - 4x^2 - 2$ | $x^{12} - 28x^{10} + 294x^8 - 1438x^6 + 3292x^4 - 2772x^2 - 242$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 2 & 3 \\ & & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{619}{192}$ |
| $x^{12} + 6x^8 + 6x^6 - 2x^4 + 2$ | $x^{12} + 14x^{10} + 80x^8 + 230x^6 + 346x^4 + 252x^2 + 98$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 10 \\ & & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 6x^8 - 6x^6 + 2x^4 + 4x^2 + 2$ | $x^{12} - 12x^{10} + 54x^8 - 114x^6 + 126x^4 - 72x^2 + 18$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{10}{3} \end{array} \right]_3 \left[\begin{array}{c} 7 \\ 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} - 4x^8 + 6x^6 - 6x^4 + 8x^2 + 6$ | $x^{12} + 66x^{10} + 1530x^8 + 14880x^6 + 51300x^4 - 48600x^2 - 441000$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{4}{3} & \frac{8}{3} \\ & & \frac{10}{3} \end{array} \right]_3 \left[\begin{array}{c} 7 \\ 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 4x^{10} + 6x^6 + 4x^4 + 6$ | $x^{12} + 18x^{10} + 146x^8 + 590x^6 + 1220x^4 + 1236x^2 + 486$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{4}{3} & \frac{8}{3} \\ & & \frac{10}{3} \end{array} \right]_3 \left[\begin{array}{c} 7 \\ 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{595}{192}$ |
| $x^{12} + 4x^8 + 2x^6 + 2x^4 - 6$ | $x^{12} - 22x^{10} + 198x^8 - 946x^6 + 2398x^4 - 1936x^2 - 2662$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{4}{3} & \frac{8}{3} \\ & & \frac{10}{3} \end{array} \right]_3 \left[\begin{array}{c} 7 \\ 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 4x^{10} + 2x^8 + 6x^6 + 2x^4 + 4x^2 + 6$ | $x^{12} + 14x^{10} + 74x^8 + 208x^6 + 324x^4 + 264x^2 + 88$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{10}{3} \end{array} \right]_3 \left[\begin{array}{c} 7 \\ 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} - 4x^{10} + 6x^8 - 6x^6 + 8x^2 + 2$ | $x^{12} + 12x^{10} + 54x^8 + 58x^6 + 36x^4 + 12x^2 + 2$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{4}{3} & 3 \\ & & \frac{19}{6} \end{array} \right]_3 \left[\begin{array}{c} 7 \\ 2 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 4x^{10} - 6x^8 + 6x^6 + 2x^4 + 6$ | $x^{12} - 6x^{10} + 12x^8 - 6x^6 - 6x^4 + 6$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{10}{3} \end{array} \right]_3 \left[\begin{array}{c} 7 \\ 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 8x^{10} - 6x^8 - 6x^6 + 2$ | $x^{12} + 18x^8 - 6x^6 + 72x^4 - 72x^2 + 18$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{4}{3} & 3 \\ & & \frac{19}{6} \end{array} \right]_3 \left[\begin{array}{c} 7 \\ 2 \end{array} \right]_3^2$ | T: 12,142 | $\frac{619}{192}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{12} + 8x^{10} - 2x^8 + 6x^6 - 4x^2 + 2$ | $x^{12} + 72x^8 + 312x^6 + 864x^4 + 864x^2 + 288$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & \frac{19}{6} \end{array} \right]_3^2$ | T: 12,142 | $\frac{619}{192}$ |
| $x^{12} - 2x^8 + 2x^6 + 2x^4 + 2$ | $x^{12} - 16x^9 + 24x^8 - 12x^7 + 130x^6 - 384x^5 + 480x^4 - 320x^3 + 120x^2 - 24x + 2$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \\ & 3 & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} - 4x^{10} + 6x^8 - 6x^6 + 4x^2 + 6$ | $x^{12} - 66x^8 - 66x^6 + 880x^4 - 484x^2 + 2662$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & \frac{19}{6} \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 2x^6 + 6$ | $x^{12} + 12x^{10} + 48x^8 + 90x^6 + 84x^4 + 36x^2 + 6$ | $\left[\begin{array}{ccc} 2 & 3 & 7 \\ & 3 & 2 \end{array} \right]_3^2$ | T: 12,14 | $\frac{17}{6}$ |
| $x^{12} + 6x^6 + 8x^4 - 2$ | $x^{12} + 6x^{10} + 42x^8 + 22x^6 - 264x^4 - 484x^2 - 242$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \\ & 3 & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,51 | $\frac{139}{48}$ |
| $x^{12} + 4x^8 + 2x^6 + 4x^4 + 2$ | $x^{12} + 12x^{10} + 60x^8 + 158x^6 + 228x^4 + 168x^2 + 50$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \\ & 3 & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,51 | $\frac{37}{12}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} + 4x^{10} + 6x^8 - 2x^6 + 8x^4 - 2$ | $x^{12} + 28x^{10} + 294x^8 + 1438x^6 + 3292x^4 + 2772x^2 - 242$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{619}{192}$ |
| $x^{12} - 4x^8 + 2x^6 + 8x^4 - 2$ | $x^{12} + 6x^{10} + 6x^8 - 34x^6 + 24x^4 - 12x^2 - 2$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 7 & 3 \\ & & 7 \\ & & & 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{583}{192}$ |
| $x^{12} + 6x^8 + 2x^6 + 6x^4 - 2$ | $x^{12} + 2x^{10} - 6x^6 - 2x^4 + 8x^2 - 2$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & & 10 \\ & & & 3 \\ & & & & 7 \\ & & & & & 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{10}{3}$ |
| $x^{12} + 2x^6 + 2x^4 + 2$ | $x^{12} + 20x^{10} + 84x^8 + 214x^6 + 350x^4 + 396x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 8 & 3 \\ & & 8 \\ & & & 3 \\ & & & & 10 \\ & & & & & 3 \\ & & & & & & 7 \\ & & & & & & & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 6x^8 - 6x^6 + 4x^4 + 8x^2 + 6$ | $x^{12} - 2x^{10} - 12x^8 - 10x^6 + 4x^4 + 16x^2 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{619}{192}$ |
| $x^{12} + 4x^8 + 2x^6 - 2x^4 + 8x^2 + 2$ | $x^{12} + 14x^{10} + 66x^8 + 110x^6 + 22x^4 + 44x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 8 & 3 \\ & & 8 \\ & & & 3 \\ & & & & 10 \\ & & & & & 3 \\ & & & & & & 7 \\ & & & & & & & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 4x^{10} - 2x^8 + 2x^6 - 4x^2 - 2$ | $x^{12} + 2x^{10} - 66x^8 + 352x^6 - 924x^4 + 1320x^2 - 968$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|------------------|
| $x^{12} + 2x^{11} + 2x^9 + 2x^8 + 2x^7 + 2x^6 + 2x^2 + 6$ | $x^{12} - 2x^{11} - 28x^{10} - 94x^9 + 525x^8 + 1838x^7 - 9650x^6 + 4798x^5 + 31161x^4 - 47300x^3 - 10660x^2 + 62300x - 33755$ | $\left[\begin{array}{ccc} 4 & 4 & 5 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{85}{48}$ |
| $x^{12} + 2x^9 + 2x^7 + 2x^2 + 2$ | $x^{12} - 6x^{11} + 16x^{10} - 20x^9 + 5x^8 + 26x^7 - 42x^6 + 26x^5 + 5x^4 - 20x^3 + 16x^2 - 6x + 1$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,7 | $\frac{19}{12}$ |
| $x^{12} + 2x^9 + 2x^7 + 2x^6 + 2x^4 + 2$ | $x^{12} - 18x^{10} - 204x^9 - 441x^8 + 2448x^7 + 23484x^6 + 44640x^5 - 263349x^4 - 2401856x^3 - 9132138x^2 - 17031276x - 12440007$ | $\left[\begin{array}{ccc} 16 & 16 & 16 \\ 9 & 9 & 9 \end{array} \right]_9^6 \left[\begin{array}{ccc} 16 & 16 & 16 \\ 9 & 9 & 9 \end{array} \right]_9^6$ | T: 12,166 | $\frac{127}{72}$ |
| $x^{12} + 2x^{11} + 2x^7 + 2x^4 + 2x^2 + 2$ | $x^{12} - 2x^{11} - 8x^{10} + 14x^9 + 21x^8 - 6x^7 + 18x^6 - 26x^5 - 17x^4 + 44x^3 - 28x^2 + 8x - 1$ | $\left[\begin{array}{ccc} 4 & 4 & 5 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{85}{48}$ |
| $x^{12} + 2x^{11} + 2x^7 + 2x^6 + 2x^4 + 2x^2 + 2$ | $x^{12} - 6x^{11} + 18x^{10} - 16x^9 + 3x^8 + 10x^7 + 14x^6 - 10x^5 + 3x^4 + 16x^3 + 18x^2 + 6x + 1$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,7 | $\frac{19}{12}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|------------------|
| $x^{12} + 2x^7 + 2$ | $x^{12} - 4x^{11} - 26x^{10} + 68x^9 + 494x^8 -$ $4580x^7 + 17380x^6 - 40308x^5 +$ $66036x^4 - 77080x^3 + 91480x^2 -$ $88936x + 93500$ | $\left[\begin{array}{ccc} \frac{16}{9} & \frac{16}{9} & \frac{16}{9} \\ \frac{16}{9} & \frac{16}{9} & \frac{16}{9} \\ \frac{16}{9} & \frac{16}{9} & \frac{16}{9} \end{array} \right]_9^6$ | T: 12,166 | $\frac{127}{72}$ |
| $x^{12} + 2x^9 + 2x^7 + 2$ | $x^{12} - 18x^{10} - 276x^9 + 774x^8 - 1908x^7 -$ $3696x^6 + 19620x^5 + 56196x^4 +$ $103376x^3 + 128592x^2 + 101736x +$ 84108 | $\left[\begin{array}{ccc} \frac{16}{9} & \frac{16}{9} & \frac{16}{9} \\ \frac{16}{9} & \frac{16}{9} & \frac{16}{9} \\ \frac{16}{9} & \frac{16}{9} & \frac{16}{9} \end{array} \right]_9^6$ | T: 12,166 | $\frac{127}{72}$ |
| $x^{12} + 2x^{10} + 2x^9 + 2x^7 + 2x^6 +$ $2x^2 + 2$ | $x^{12} + 14x^{10} - 20x^9 + 67x^8 - 146x^7 +$ $190x^6 - 222x^5 + 269x^4 - 302x^3 +$ $274x^2 - 158x + 39$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & \frac{5}{3} \\ \frac{4}{3} & \frac{5}{3} & \frac{5}{3} \\ \frac{4}{3} & \frac{5}{3} & \frac{2}{3} \end{array} \right]_3^2$ | T: 12,55 | $\frac{85}{48}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|------------------|
| $x^{12} + 2x^9 + 2x^7 + 2x^6 + 2$ | $x^{12} - 6x^{11} + 30x^{10} - 86x^9 - 396x^8 + 5274x^7 - 11622x^6 - 35712x^5 + 167760x^4 - 119468x^3 - 472740x^2 + 1054740x - 742190$ | $\left[\begin{array}{c} \frac{16}{9} \\ \frac{16}{9} \\ \frac{16}{9} \\ \frac{16}{9} \\ \frac{16}{9} \\ \frac{16}{9} \end{array} \right]_9^6$ | T: 12,166 | $\frac{127}{72}$ |
| $x^{12} + 2x^{10} + 2x^9 + 2x^7 + 2x^2 + 2$ | $x^{12} + 4x^{10} + 20x^8 + 72x^6 + 144x^4 + 212x^2 + 148$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ \frac{2}{3} \end{array} \right]_3^2$ | T: 12,6 | $\frac{19}{12}$ |
| $x^{12} + 2x^{11} + 2x^{10} + 2x^9 + 2x^8 + 2x^7 + 2x^6 + 2x^4 + 2x^2 + 2$ | $x^{12} - 2x^{11} - 10x^{10} + 26x^9 + 30x^8 - 106x^7 - 50x^6 + 208x^5 + 66x^4 - 176x^3 - 46x^2 - 124x + 202$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ \frac{5}{3} \\ \frac{5}{3} \\ \frac{2}{3} \end{array} \right]_3^2$ | T: 12,55 | $\frac{85}{48}$ |
| $x^{12} + 2x^7 + 2x^4 + 2x^2 + 6$ | $x^{12} - 2x^{11} - 6x^{10} - 6x^9 + 43x^8 + 34x^7 - 50x^6 - 206x^5 + 331x^4 - 240x^3 + 1686x^2 - 1016x + 853$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ \frac{5}{3} \\ \frac{5}{3} \\ \frac{2}{3} \end{array} \right]_3^2$ | T: 12,55 | $\frac{85}{48}$ |
| $x^{12} + 2x^{11} + 2x^{10} + 2x^8 + 2x^7 + 2x^2 + 6$ | $x^{12} - 48x^{10} + 788x^8 - 5180x^6 + 11840x^4 - 11100x^2 + 3700$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ \frac{5}{3} \\ \frac{5}{3} \\ \frac{2}{3} \end{array} \right]_3^2$ | T: 12,55 | $\frac{85}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|------------------|
| $x^{12} + 2x^9 + 2x^7 + 2x^2 + 6$ | $x^{12} - 2x^{11} + 8x^{10} - 4x^9 + 5x^8 + 10x^7 - 14x^6 - 10x^5 + 5x^4 + 4x^3 + 8x^2 + 2x + 1$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ 2 \end{array} \right]_3^2$ | T: 12,7 | $\frac{19}{12}$ |
| $x^{12} + 2x^{11} + 2x^8 + 2x^7 + 2x^6 + 2x^4 + 2x^2 + 2$ | $x^{12} - 4x^{10} - 2x^9 + 17x^8 + 6x^7 - 30x^6 - 6x^5 + 31x^4 - 26x^3 - 4x^2 + 28x - 13$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ 2 \end{array} \right]_3^2$ | T: 12,6 | $\frac{19}{12}$ |
| $x^{12} + 2x^8 + 2x^7 + 2x^6 + 2x^4 + 2x^2 + 6$ | $x^{12} - 6x^{11} + 6x^{10} + 18x^9 - 14x^8 - 42x^7 - 8x^6 + 44x^5 + 50x^4 + 20x^3 - 6x^2 - 8x - 2$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ 2 \end{array} \right]_3^2$ | T: 12,7 | $\frac{19}{12}$ |
| $x^{12} + 78x^{10} + 21x^8 - 4x^6 - 81x^4 - 2x^2 + 75$ | $x^{12} + 14x^{10} + 85x^8 + 252x^6 + 335x^4 + 110x^2 + 11$ | $\left[\begin{array}{c} 2 \\ \frac{8}{3} \\ \frac{8}{3} \end{array} \right]_3 \left[\begin{array}{c} 3 \\ \frac{10}{3} \\ \frac{10}{3} \end{array} \right]_3^2$ | T: 12,88 | $\frac{19}{6}$ |
| $x^{12} - 14x^{10} - 51x^8 - 108x^6 - 17x^4 + 82x^2 + 83$ | $x^{12} + 10x^{10} + 37x^8 + 68x^6 + 63x^4 + 42x^2 + 11$ | $\left[\begin{array}{c} 2 \\ \frac{8}{3} \\ \frac{8}{3} \end{array} \right]_3 \left[\begin{array}{c} 3 \\ \frac{10}{3} \\ \frac{10}{3} \end{array} \right]_3^2$ | T: 12,88 | $\frac{19}{6}$ |
| $x^{12} - 30x^{10} + 31x^8 - 36x^6 + 15x^4 - 30x^2 - 47$ | $x^{12} - 4x^{11} + 170x^{10} - 1464x^9 + 5841x^8 - 59564x^7 + 277468x^6 - 442812x^5 - 5497905x^4 - 8804952x^3 - 4436658x^2 - 309204x + 100629$ | $\left[\begin{array}{c} 4 \\ \frac{4}{3} \\ \frac{4}{3} \end{array} \right]_3 \left[\begin{array}{c} 2 \\ 3 \\ \frac{19}{6} \end{array} \right]_3^2$ | T: 12,89 | $\frac{283}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 14x^{10} + 23x^8 - 4x^6 - 49x^4 - 46x^2 + 57$ | $x^{12} - 24x^8 + 12x^6 + 408x^4 + 864x^2 + 484$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,89 | $\frac{283}{96}$ |
| $x^{12} + 30x^{10} + 45x^8 + 28x^6 - 49x^4 + 46x^2 - 13$ | $x^{12} - 4x^{11} + 4x^{10} - 24x^9 + 161x^8 - 300x^7 - 40x^6 + 452x^5 + 321x^4 - 912x^3 - 416x^2 + 756x + 419$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 11 \\ 3 & 3 & 4 \end{array} \right] \begin{array}{ccc} 10 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} + 14x^{10} + x^8 - 20x^6 - x^4 + 14x^2 + 31$ | $x^{12} + 18x^{10} - 180x^9 + 342x^8 - 60x^7 + 364x^6 - 1080x^5 - 3588x^4 + 14064x^3 - 18528x^2 + 11472x - 2918$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 10 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,59 | $\frac{37}{12}$ |
| $x^{12} - 6x^{10} + 93x^8 - 12x^6 + 31x^4 - 22x^2 - 13$ | $x^{12} - 10x^{10} + 37x^8 - 68x^6 + 111x^4 - 90x^2 + 27$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{19}{6}$ |
| $x^{12} - 10x^{10} + 61x^8 + 20x^6 + 23x^4 - 50x^2 + 43$ | $x^{12} - 14x^{10} - 40x^9 + 8x^8 + 380x^7 + 1128x^6 + 1616x^5 + 1320x^4 + 680x^3 + 252x^2 + 72x + 14$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{149}{48}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} + 62x^{10} - 7x^8 - 44x^6 + 63x^4 + 6x^2 - 9$ | $x^{12} + 10x^{10} + 113x^8 - 308x^6 + 55x^4 + 242x^2 - 121$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 10 & 10 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 34x^{10} + 51x^8 + 12x^6 + 39x^4 + 18x^2 + 5$ | $x^{12} - 102x^{10} - 264x^9 + 3213x^8 + 17952x^7 - 1432x^6 - 299112x^5 - 1289613x^4 - 2948176x^3 - 4267698x^2 - 3845424x - 1652701$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 19 & 19 & 2 \\ 6 & 6 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} - 6x^{10} - 7x^8 + 20x^6 - 9x^4 + 58x^2 - 17$ | $x^{12} - 6x^{10} - 39x^8 - 108x^6 - 117x^4 - 54x^2 - 9$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 10 & 10 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{19}{6}$ |
| $x^{12} + 90x^{10} - 79x^8 - 60x^6 - 9x^4 + 26x^2 + 87$ | $x^{12} - 30x^{10} - 135x^8 + 1188x^6 + 4131x^4 - 6318x^2 - 18225$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 10 & 10 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{19}{6}$ |
| $x^{12} - 14x^{10} + 23x^8 - 4x^6 - 17x^4 + 18x^2 + 25$ | $x^{12} - 10x^{10} + 39x^8 - 96x^6 + 187x^4 - 198x^2 + 121$ | $\left[\begin{array}{ccc} 4 & 4 & 4 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 2 & 2 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 19 & 19 & 2 \\ 6 & 6 & 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{283}{96}$ |
| $x^{12} + 46x^{10} + 25x^8 - 12x^6 - 17x^4 - 10x^2 + 7$ | $x^{12} - 10x^{10} + 33x^8 - 68x^6 + 495x^4 - 2250x^2 + 3375$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 10 & 10 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{149}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} + 10x^{10} + 61x^8 + 60x^6 + 7x^4 - 30x^2 + 59$ | $x^{12} - 14x^{10} + 77x^8 - 196x^6 + 251x^4 - 198x^2 + 11$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 & 10 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 2x^{10} - 47x^8 - 20x^6 + 47x^4 + 26x^2 + 47$ | $x^{12} - 54x^{10} + 297x^8 + 2268x^6 + 891x^4 - 4374x^2 - 729$ | $\begin{bmatrix} 2 & 2 & 8 & 8 & 10 \\ 3 & 3 & 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 12,88 | $\frac{149}{48}$ |
| $x^{12} + 26x^{10} + 19x^8 - 68x^6 + 39x^4 - 86x^2 + 101$ | $x^{12} + 72x^{10} + 1530x^8 + 13020x^6 - 41400x^5 - 5580x^4 - 33600x^3 - 66168x^2 + 212400x - 100596$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 & 19 \\ 3 & 3 & 3 & 3 & 3 & 3 & 6 \end{bmatrix}_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} + 42x^{10} + 83x^8 + 92x^6 - 73x^4 + 90x^2 - 75$ | $x^{12} - 4x^{11} + 14x^{10} - 40x^9 + 67x^8 - 108x^7 + 136x^6 - 108x^5 - 9x^4 + 160x^3 - 206x^2 + 148x - 53$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 & 19 \\ 3 & 3 & 3 & 3 & 3 & 3 & 6 \end{bmatrix}_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} - 26x^{10} - 31x^8 - 20x^6 - 9x^4 - 10x^2 + 7$ | $x^{12} + 16x^{10} + 88x^8 + 220x^6 + 88x^4 - 440x^2 - 484$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 & 11 & 10 \\ 3 & 3 & 3 & 3 & 3 & 4 & 3 \end{bmatrix}_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} - 18x^{10} + 5x^8 + 12x^6 - 49x^4 - 114x^2 + 27$ | $x^{12} + 20x^{10} + 188x^8 + 308x^6 + 396x^4 + 176x^2 + 44$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 & 11 & 10 \\ 3 & 3 & 3 & 3 & 3 & 4 & 3 \end{bmatrix}_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} + 18x^{10} - 31x^8 + 28x^6 - x^4 + 26x^2 + 15$ | $x^{12} - 6x^{10} - 675x^8 + 10020x^6 - 34425x^4 + 20250x^2 - 5625$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ 10 & 10 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} - 6x^{10} + 3x^8 + 28x^6 + 23x^4 + 10x^2 + 37$ | $x^{12} - 6x^{10} - 36x^9 - 33x^8 + 612x^7 - 728x^6 - 756x^5 + 5283x^4 + 7740x^3 - 4698x^2 + 13824x - 4449$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ 19 & 19 & 6 \\ 6 & 6 & 3 \end{array} \right]^2_3$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} + 54x^{10} - 31x^8 + 20x^6 - 49x^4 + 46x^2 - 1$ | $x^{12} + 10x^{10} + 33x^8 + 44x^6 + 11x^4 + 66x^2 - 121$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ 10 & 10 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 38x^{10} - 51x^8 + 12x^6 + 127x^4 - 10x^2 + 35$ | $x^{12} - 14x^{10} + 85x^8 - 252x^6 + 335x^4 - 110x^2 + 11$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 3 & 3 \\ 10 & 10 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,88 | $\frac{19}{6}$ |
| $x^{12} - 6x^{10} - 5x^8 + 28x^6 - 9x^4 - 22x^2 - 19$ | $x^{12} - 540x^9 + 396x^8 + 5508x^7 + 72360x^6 - 325512x^5 + 56646x^4 + 1096200x^3 - 933444x^2 - 2891376x - 1342602$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ 19 & 19 & 6 \\ 6 & 6 & 3 \end{array} \right]^2_3$ | T: 12,187 | $\frac{1183}{384}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 10x^{10} - 7x^8 - 4x^6 - 17x^4 - 10x^2 + 23$ | $x^{12} - 18x^{10} - 16x^9 + 54x^8 + 108x^7 + 412x^6 + 1296x^5 + 342x^4 - 5456x^3 - 11424x^2 - 9672x - 3194$ | $\left[\begin{array}{ccc} 2 & 8 & 10 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,59 | $\frac{37}{12}$ |
| $x^{12} + 10x^{10} - 7x^8 - 12x^6 + 7x^4 - 6x^2 - 1$ | $x^{12} - 30x^{10} - 75x^8 + 1300x^6 + 975x^4 - 9750x^2 - 15625$ | $\left[\begin{array}{ccc} 4 & 4 & 11 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} - 38x^{10} + 9x^8 + 52x^6 - 25x^4 + 42x^2 + 15$ | $x^{12} - 30x^{10} + 225x^8 + 1500x^6 - 29025x^4 + 128250x^2 - 140625$ | $\left[\begin{array}{ccc} 4 & 4 & 11 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} - 94x^{10} + 63x^8 - 36x^6 + 15x^4 + 34x^2 + 49$ | $x^{12} - 4x^{11} + 118x^{10} + 4x^9 - 16355x^8 + 97852x^7 + 1262640x^6 - 3107684x^5 - 56971147x^4 + 9890000x^3 + 897332086x^2 - 2029732840x + 1733500015$ | $\left[\begin{array}{ccc} 4 & 4 & 19 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,89 | $\frac{283}{96}$ |
| $x^{12} + 10x^{10} - 5x^8 - 4x^6 - 89x^4 - 102x^2 - 99$ | $x^{12} + 216x^{10} + 15624x^8 + 383460x^6 - 1106424x^4 + 766656x^2 - 175692$ | $\left[\begin{array}{ccc} 4 & 4 & 19 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 6x^{10} + 19x^8 + 4x^6 - 25x^4 - 10x^2 - 27$ | $x^{12} - 4x^{11} + 8x^{10} - 12x^9 + 18x^8 - 36x^7 + 64x^6 - 72x^5 + 48x^4 - 8x^3 - 8x^2 - 8x - 2$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} - 6x^{10} + 39x^8 + 12x^6 - 49x^4 + 58x^2 + 41$ | $x^{12} - 32x^{10} - 24x^9 + 358x^8 + 508x^7 - 1432x^6 - 3008x^5 + 1248x^4 + 6976x^3 + 6348x^2 + 2352x + 326$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3$ | T: 12,60 | $\frac{139}{48}$ |
| $x^{12} - 122x^{10} - 117x^8 + 116x^6 - 73x^4 + 38x^2 + 125$ | $x^{12} - 10x^{10} + 29x^8 - 84x^7 + 128x^6 - 124x^5 + 91x^4 - 44x^3 + 18x^2 - 4x + 1$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} - 50x^{10} + 9x^8 + 36x^6 - 17x^4 + 38x^2 - 9$ | $x^{12} - 6x^{10} + 25x^8 + 84x^6 - 321x^4 + 330x^2 - 121$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3$ | T: 12,59 | $\frac{37}{12}$ |
| $x^{12} - 26x^{10} + 13x^8 - 12x^6 - 9x^4 - 2x^2 - 5$ | $x^{12} - 28x^{10} - 56x^9 + 283x^8 + 868x^7 + 464x^6 - 356x^5 + 215x^4 + 796x^3 + 204x^2 - 36x + 103$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3$ | T: 12,88 | $\frac{149}{48}$ |
| $x^{12} + 10x^{10} + 13x^8 - 12x^6 + 23x^4 - 6x^2 - 21$ | $x^{12} - 12x^{10} + 36x^8 - 28x^6 - 24x^4 + 24x^2 + 12$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3$ | T: 12,59 | $\frac{37}{12}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} + 34x^{10} + 43x^8 - 20x^6 + 39x^4 + 18x^2 + 45$ | $x^{12} - 138x^{10} + 6411x^8 - 83644x^6 - 271161x^4 + 7498854x^2 - 43923$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix} \begin{matrix} 2 \\ 19 \\ 6 \\ 6 \end{matrix} \Bigg]_3$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} + 18x^{10} - 29x^8 + 12x^6 - 9x^4 + 2x^2 - 27$ | $x^{12} - 60x^{10} + 1890x^8 - 34320x^6 - 64944x^5 + 298188x^4 + 1818432x^3 + 232848x^2 - 15767136x - 24579720$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix} \begin{matrix} 2 \\ 19 \\ 6 \\ 6 \end{matrix} \Bigg]_3$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} + 50x^{10} + 53x^8 + 36x^6 - 49x^4 - 30x^2 - 53$ | $x^{12} - 6x^{10} + 21x^8 - 36x^6 + 75x^4 - 126x^2 + 75$ | $\begin{bmatrix} 2 & 8 & 8 & 3 & 10 \\ 3 & 3 & 3 & 3 & 3 \end{bmatrix} \begin{matrix} 2 \\ 10 \\ 3 \end{matrix} \Bigg]_3$ | T: 12,88 | $\frac{19}{6}$ |
| $x^{12} - 70x^{10} + 47x^8 + 12x^6 + 111x^4 + 26x^2 - 95$ | $x^{12} - 4x^{11} + 10x^{10} - 8x^9 - x^8 + 12x^7 + 8x^6 + 4x^5 + 9x^4 + 24x^3 + 50x^2 + 44x + 17$ | $\begin{bmatrix} 4 & 4 & 3 & 19 \\ 3 & 3 & 3 & 6 \end{bmatrix} \begin{matrix} 2 \\ 19 \\ 6 \\ 6 \end{matrix} \Bigg]_3$ | T: 12,58 | $\frac{139}{48}$ |
| $x^{12} - 46x^{10} + 23x^8 + 60x^6 + 31x^4 + 18x^2 - 55$ | $x^{12} - 4x^{11} - 12x^{10} + 188x^9 - 4060x^8 - 22524x^7 + 123040x^6 + 423552x^5 - 3215830x^4 - 2236616x^3 + 37349928x^2 + 29194336x + 218683774$ | $\begin{bmatrix} 4 & 4 & 3 & 19 \\ 3 & 3 & 3 & 6 \end{bmatrix} \begin{matrix} 2 \\ 19 \\ 6 \\ 6 \end{matrix} \Bigg]_3$ | T: 12,60 | $\frac{139}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 102x^{10} + 45x^8 - 12x^6 + 31x^4 - 54x^2 + 35$ | $x^{12} + 10x^{10} + 37x^8 + 68x^6 + 111x^4 + 90x^2 + 27$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \\ & 3 & 3 \end{array} \frac{10}{3} \right]_3^2$ | T: 12,88 | $\frac{19}{6}$ |
| $x^{12} + 54x^{10} + 35x^8 - 44x^6 - 57x^4 - 42x^2 + 21$ | $x^{12} - 12x^{10} - 4x^9 + 48x^8 + 36x^7 - 64x^6 - 80x^5 - 8x^4 + 40x^3 + 56x^2 + 32x + 2$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \\ & 3 & 3 \end{array} \frac{19}{6} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} + 98x^{10} - 121x^8 - 36x^6 - 113x^4 + 66x^2 + 73$ | $x^{12} - 4x^{11} - 28x^{10} + 152x^9 + 4x^8 - 1268x^7 + 2776x^6 - 2056x^5 + 138x^4 + 320x^3 - 304x^2 + 328x - 34$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \\ & 3 & 3 \end{array} \frac{19}{6} \right]_3^2$ | T: 12,87 | $\frac{283}{96}$ |
| $x^{12} - 6x^{10} - 57x^8 - 84x^6 - 33x^4 + 58x^2 + 25$ | $x^{12} - 8x^9 + 6x^8 - 160x^6 - 464x^5 - 244x^4 + 1408x^3 + 4224x^2 + 3872x + 1144$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \\ & 3 & 3 \end{array} \frac{19}{6} \right]_3^2$ | T: 12,87 | $\frac{283}{96}$ |
| $x^{12} - 62x^{10} + 33x^8 - 52x^6 + 31x^4 - 6x^2 + 15$ | $x^{12} + 60x^{10} + 1440x^8 + 16260x^6 + 76680x^4 + 81000x^2 - 22500$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \\ & 3 & 3 \end{array} \frac{10}{3} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 6x^{10} - 3x^8 + 28x^6 + 31x^4 + 6x^2 - 13$ | $x^{12} + 4x^{10} + 92x^8 + 132x^6 + 352x^4 - 264x^2 + 44$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3 \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 11 \\ 4 \end{array} \begin{array}{c} 10 \\ 3 \end{array} \begin{array}{c} 10 \\ 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} - 54x^{10} - 53x^8 - 4x^6 - 25x^4 + 26x^2 + 13$ | $x^{12} + 102x^{10} + 3459x^8 + 35068x^6 + 181863x^4 + 503118x^2 - 395307$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3 \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 19 \\ 6 \end{array} \begin{array}{c} 19 \\ 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} + 18x^{10} + 23x^8 + 60x^6 + 15x^4 - 14x^2 - 71$ | $x^{12} + 18x^{10} + 135x^8 + 12x^6 + 351x^4 + 162x^2 + 441$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3 \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 19 \\ 6 \end{array} \begin{array}{c} 19 \\ 6 \end{array} \right]_3^2$ | T: 12,89 | $\frac{283}{96}$ |
| $x^{12} - 46x^{10} - 29x^8 - 52x^6 - 57x^4 - 30x^2 + 53$ | $x^{12} + 18x^{10} - 189x^8 - 9060x^6 - 88425x^4 - 384750x^2 - 826875$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3 \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 19 \\ 6 \end{array} \begin{array}{c} 19 \\ 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} - 62x^{10} + 115x^8 + 44x^6 - 9x^4 + 114x^2 + 85$ | $x^{12} - 18x^{10} + 171x^8 - 4680x^6 + 72675x^4 - 141750x^2 - 991875$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3 \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 19 \\ 6 \end{array} \begin{array}{c} 19 \\ 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} - 30x^{10} - 9x^8 - 4x^6 + 31x^4 + 2x^2 - 23$ | $x^{12} + 18x^{10} + 135x^8 + 540x^6 + 1215x^4 + 1458x^2 + 441$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3 \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 19 \\ 6 \end{array} \begin{array}{c} 19 \\ 6 \end{array} \right]_3^2$ | T: 12,58 | $\frac{139}{48}$ |
| $x^{12} + 10x^{10} - 17x^8 + 108x^6 + 63x^4 + 74x^2 + 113$ | $x^{12} - 6x^{10} + 55x^8 - 176x^6 + 363x^4 - 330x^2 + 121$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3 \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 19 \\ 6 \end{array} \begin{array}{c} 19 \\ 6 \end{array} \right]_3^2$ | T: 12,89 | $\frac{283}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 34x^{10} + 33x^8 + 44x^6 - x^4 + 30x^2 + 31$ | $x^{12} - 24x^8 - 60x^6 - 48x^4 - 24x^2 - 4$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{10}{3} \\ & 3 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,59 | $\frac{37}{12}$ |
| $x^{12} - 14x^{10} + x^8 + 12x^6 - 49x^4 + 42x^2 - 1$ | $x^{12} + 12x^{10} - 456x^6 - 2160x^4 - 4320x^2 - 3600$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} - 6x^{10} - 35x^8 + 44x^6 + 55x^4 + 34x^2 - 53$ | $x^{12} + 18x^{10} + 117x^8 + 324x^6 + 291x^4 - 110x^2 + 11$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 42x^{10} - 39x^8 + 52x^6 + 39x^4 + 26x^2 + 63$ | $x^{12} + 30x^{10} - 75x^8 - 1300x^6 + 975x^4 + 9750x^2 - 15625$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} + 82x^{10} - 105x^8 - 68x^6 + 79x^4 - 78x^2 - 7$ | $x^{12} + 6x^{10} + 15x^8 + 80x^6 + 123x^4 - 534x^2 + 1$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{283}{96}$ |
| $x^{12} - 22x^{10} + 79x^8 - 20x^6 - 33x^4 + 42x^2 + 49$ | $x^{12} + 18x^{10} + 87x^8 + 56x^6 - 269x^4 + 6x^2 + 1$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{283}{96}$ |
| $x^{12} - 14x^{10} + 13x^8 + 4x^6 + 15x^4 - 30x^2 + 19$ | $x^{12} - 22x^{10} + 429x^8 - 2508x^6 + 5907x^4 - 5566x^2 + 1331$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 58x^{10} + 47x^8 + 12x^6 + 15x^4 - 38x^2 + 1$ | $x^{12} - 4x^{11} + 22x^{10} - 40x^9 + 119x^8 - 132x^7 + 364x^6 - 532x^5 + 877x^4 - 1160x^3 + 794x^2 - 1284x + 2797$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \frac{19}{6} \right]_3^2$ | T: 12,60 | $\frac{139}{48}$ |
| $x^{12} - 6x^{10} + 23x^8 - 20x^6 + 63x^4 - 6x^2 + 41$ | $x^{12} - 6x^{10} + 15x^8 - 36x^7 + 76x^6 + 108x^5 + 591x^4 - 108x^3 + 1326x^2 - 1692x + 2359$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \frac{19}{6} \right]_3^2$ | T: 12,87 | $\frac{283}{96}$ |
| $x^{12} + 26x^{10} - 27x^8 + 20x^6 + 31x^4 + 10x^2 + 11$ | $x^{12} + 22x^{10} + 429x^8 + 2508x^6 + 5907x^4 + 5566x^2 + 1331$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \frac{8}{3} \frac{11}{4} \frac{10}{3} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} - 94x^{10} + 23x^8 - 100x^6 - 17x^4 - 62x^2 - 103$ | $x^{12} - 8x^{10} - 4x^9 + 66x^8 + 84x^7 - 380x^6 - 1120x^5 - 18x^4 + 4840x^3 + 10064x^2 + 9408x + 3646$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \frac{19}{6} \right]_3^2$ | T: 12,87 | $\frac{283}{96}$ |
| $x^{12} - 14x^{10} + 37x^8 - 4x^6 + 7x^4 - 38x^2 - 13$ | $x^{12} + 2x^{10} - 11x^8 + 132x^6 - 121x^4 + 242x^2 + 1331$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \frac{10}{3} \right]_3^2$ | T: 12,59 | $\frac{37}{12}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} + 42x^{10} + 51x^8 - 4x^6 - 25x^4 + 26x^2 + 5$ | $x^{12} - 18x^{10} - 189x^8 + 9060x^6 - 88425x^4 + 384750x^2 - 826875$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix} \begin{matrix} 3 \\ 3 \\ 3 \\ 3 \\ 6 \\ 6 \end{matrix} \begin{matrix} 2 \\ 2 \\ 2 \\ 2 \\ 3 \\ 3 \end{matrix}$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} + 2x^{10} + 29x^8 + 20x^6 + 15x^4 + 2x^2 - 29$ | $x^{12} - 4x^{11} + 12x^{10} - 20x^9 - 5x^8 + 76x^7 - 128x^6 - 164x^5 + 389x^4 + 1072x^3 + 1544x^2 + 1248x + 397$ | $\begin{bmatrix} 2 & 8 & 8 & 3 & 10 \\ 3 & 3 & 3 & 3 & 3 \end{bmatrix} \begin{matrix} 3 \\ 3 \\ 3 \\ 3 \\ 3 \end{matrix} \begin{matrix} 2 \\ 2 \\ 2 \\ 2 \\ 3 \end{matrix}$ | T: 12,88 | $\frac{19}{6}$ |
| $x^{12} + 30x^{10} - 29x^8 - 28x^6 - 25x^4 + 30x^2 - 11$ | $x^{12} - 4x^{11} + 6x^{10} + 32x^9 - 131x^8 + 124x^7 + 428x^6 - 1444x^5 + 941x^4 + 1968x^3 - 4130x^2 + 3284x - 1097$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix} \begin{matrix} 3 \\ 3 \\ 3 \\ 3 \\ 6 \\ 6 \end{matrix} \begin{matrix} 2 \\ 2 \\ 2 \\ 2 \\ 3 \\ 3 \end{matrix}$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} + 2x^{10} - 21x^8 - 20x^6 + 7x^4 - 14x^2 + 13$ | $x^{12} - 216x^{10} + 15624x^8 - 383460x^6 - 1106424x^4 - 766656x^2 - 175692$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix} \begin{matrix} 3 \\ 3 \\ 3 \\ 3 \\ 6 \\ 6 \end{matrix} \begin{matrix} 2 \\ 2 \\ 2 \\ 2 \\ 3 \\ 3 \end{matrix}$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} + 74x^{10} - 21x^8 - 68x^6 - 57x^4 + 26x^2 - 115$ | $x^{12} + 6x^{10} - 120x^9 + 369x^8 - 1920x^7 + 4316x^6 - 26160x^5 + 107943x^4 - 202240x^3 + 189030x^2 - 86520x + 15239$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix} \begin{matrix} 3 \\ 3 \\ 3 \\ 3 \\ 6 \\ 6 \end{matrix} \begin{matrix} 2 \\ 2 \\ 2 \\ 2 \\ 3 \\ 3 \end{matrix}$ | T: 12,187 | $\frac{1183}{384}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 22x^{10} + 51x^8 - 4x^6 - 9x^4 - 70x^2 - 43$ | $x^{12} - 102x^{10} + 3459x^8 - 35068x^6 + 181863x^4 - 503118x^2 - 395307$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{c} 19 \\ 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} + 58x^{10} + 11x^8 + 28x^6 - 41x^4 + 42x^2 - 3$ | $x^{12} + 54x^{10} + 1179x^8 + 13260x^6 + 30375x^4 + 60750x^2 - 151875$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{c} 19 \\ 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} + 110x^{10} - 59x^8 - 20x^6 - 113x^4 + 46x^2 + 91$ | $x^{12} - 4x^{10} + 92x^8 - 132x^6 + 352x^4 + 264x^2 + 44$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 2 & 2 & 8 \\ 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{c} 11 \\ 4 \end{array} \right]_3 \left[\begin{array}{c} 10 \\ 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} + 6x^{10} - 7x^8 + 60x^6 - 25x^4 + 6x^2 - 1$ | $x^{12} - 14x^{10} + 105x^8 - 508x^6 + 1575x^4 - 3150x^2 + 3375$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{c} 10 \\ 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{19}{6}$ |
| $x^{12} - 30x^{10} + x^8 - 28x^6 + 7x^4 - 30x^2 - 9$ | $x^{12} - 6x^{10} + 9x^8 - 12x^6 - 9x^4 - 6x^2 - 1$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{c} 10 \\ 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{19}{6}$ |
| $x^{12} - 42x^{10} + 27x^8 + 4x^6 + 55x^4 - 26x^2 - 51$ | $x^{12} - 4x^{11} + 12x^{10} - 24x^9 + 30x^8 - 36x^7 + 28x^6 - 16x^5 - 6x^4 + 8x^3 - 4x^2 - 2$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{c} 19 \\ 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 22x^{10} + 7x^8 + 44x^6 + 47x^4 - 22x^2 + 41$ | $x^{12} - 4x^{11} - 14x^{10} + 36x^9 + 81x^8 - 84x^7 - 200x^6 + 12x^5 + 167x^4 - 86x^2 + 64x + 1$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,58 | $\frac{139}{48}$ |
| $x^{12} - 30x^{10} - x^8 - 36x^6 - 113x^4 - 30x^2 + 49$ | $x^{12} - 8x^{10} - 16x^9 + 6x^8 + 44x^6 + 792x^5 + 2904x^4 + 4928x^3 + 4488x^2 + 1936x + 308$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,89 | $\frac{283}{96}$ |
| $x^{12} - 38x^{10} - 13x^8 + 60x^6 - 57x^4 + 42x^2 + 37$ | $x^{12} + 12x^{10} - 168x^9 - 30x^8 - 1488x^7 + 3220x^6 + 5544x^5 - 2496x^4 - 4320x^3 + 480x^2 + 1200x + 100$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} - 14x^{10} + 25x^8 - 44x^6 + 55x^4 + 50x^2 + 15$ | $x^{12} - 60x^{10} - 8x^9 + 705x^8 - 2100x^7 - 13096x^6 + 8340x^5 + 26835x^4 - 28612x^3 + 9420x^2 - 1260x + 61$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} - 22x^{10} - 23x^8 + 4x^6 + 7x^4 + 26x^2 - 17$ | $x^{12} - 4x^{11} - 2x^{10} + 56x^9 - 150x^8 + 44x^7 + 276x^6 - 216x^5 - 92x^4 + 192x^3 - 104x^2 + 24x - 2$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ 2 & \frac{8}{3} & 3 \\ 2 & \frac{10}{3} & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{19}{6}$ |
| $x^{12} + 58x^{10} + 9x^8 + 12x^6 + 47x^4 + 2x^2 + 55$ | $x^{12} - 18x^{10} - 279x^8 + 1620x^6 + 16767x^4 - 3402x^2 - 729$ | $\left[\begin{array}{ccc} 2 & 2 & \frac{8}{3} \\ 2 & \frac{8}{3} & 3 \\ 2 & \frac{10}{3} & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{149}{48}$ |
| $x^{12} - 6x^{10} - 3x^8 - 4x^6 - 9x^4 - 14x^2 - 21$ | $x^{12} - 4x^{11} + 24x^{10} - 20x^9 + 63x^8 + 68x^7 + 136x^6 + 196x^5 + 123x^4 + 136x^3 + 72x^2 + 24x + 19$ | $\left[\begin{array}{ccc} 2 & 2 & \frac{8}{3} \\ 2 & \frac{8}{3} & 3 \\ 2 & \frac{10}{3} & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{149}{48}$ |
| $x^{12} + 42x^{10} + 3x^8 + 60x^6 - 57x^4 - 38x^2 - 43$ | $x^{12} - 144x^{10} - 168x^9 + 6066x^8 + 5652x^7 - 106680x^6 - 118584x^5 + 848970x^4 + 1439064x^3 - 2388996x^2 - 7135992x - 4572966$ | $\left[\begin{array}{ccc} 4 & 4 & \frac{8}{3} \\ 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 2 & \frac{19}{6} & 3 \end{array} \right]_3$ | T: 12,187 | $\frac{1183}{384}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} + 74x^{10} + 97x^8 + 4x^6 + 87x^4 + 42x^2 - 57$ | $x^{12} - 76x^{10} - 168x^9 - 59x^8 - 404x^7 + 2612x^6 - 2228x^5 + 623x^4 + 12x^3 + 196x^2 - 116x - 23$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,88 | $\frac{19}{6}$ |
| $x^{12} + 58x^{10} - 27x^8 + 4x^6 + 31x^4 + 58x^2 + 43$ | $x^{12} - 10x^{10} + 37x^8 - 68x^6 + 63x^4 - 42x^2 + 11$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,88 | $\frac{19}{6}$ |
| $x^{12} + 18x^{10} + 19x^8 + 12x^6 + 23x^4 + 2x^2 + 21$ | $x^{12} + 78x^{10} - 156x^9 + 2043x^8 - 10092x^7 + 12248x^6 - 9348x^5 + 17439x^4 + 9164x^3 - 6918x^2 + 456x + 119$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{19}{6} \end{array} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} - 30x^{10} + x^8 + 60x^6 + 63x^4 + 42x^2 - 17$ | $x^{12} - 36x^{10} - 304x^9 - 1587x^8 - 6492x^7 - 21640x^6 - 56172x^5 - 99543x^4 - 110564x^3 - 72888x^2 - 25980x - 3785$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ & 2 & \frac{8}{3} \\ & & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 22x^{10} - 121x^8 - 84x^6 + 47x^4 - 22x^2 + 105$ | $x^{12} + 14x^{10} + 71x^8 + 176x^6 + 187x^4 + 242x^2 + 121$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 6 \end{bmatrix} \begin{matrix} 19 \\ 6 \end{matrix} \begin{matrix} 19 \\ 6 \end{matrix} \Big]_3^2$ | T: 12,58 | $\frac{139}{48}$ |
| $x^{12} + 114x^{10} - 61x^8 - 116x^6 + 39x^4 - 62x^2 - 75$ | $x^{12} + 12x^{10} + 516x^8 + 3340x^6 - 3600x^4 - 7500$ | $\begin{bmatrix} 4 & 4 & 8 \\ 3 & 3 & 3 \end{bmatrix} \begin{matrix} 8 \\ 3 \end{matrix} \begin{matrix} 3 \\ 3 \end{matrix} \begin{matrix} 19 \\ 6 \end{matrix} \begin{matrix} 19 \\ 6 \end{matrix} \Big]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} - 94x^{10} + 95x^8 - 100x^6 + 31x^4 - 62x^2 + 33$ | $x^{12} - 14x^{10} - 24x^9 + 41x^8 + 256x^7 + 464x^6 - 168x^5 - 2569x^4 - 5104x^3 - 4378x^2 - 1408x + 11$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 6 \end{bmatrix} \begin{matrix} 19 \\ 6 \end{matrix} \begin{matrix} 19 \\ 6 \end{matrix} \Big]_3^2$ | T: 12,58 | $\frac{139}{48}$ |
| $x^{12} - 22x^{10} - 11x^8 - 60x^6 - x^4 + 10x^2 + 59$ | $x^{12} - 4x^{11} - 6x^{10} + 20x^9 - 16x^8 - 12x^7 + 292x^6 + 168x^5 - 828x^4 - 1152x^3 + 44x^2 + 1208x + 802$ | $\begin{bmatrix} 2 & 8 & 8 \\ 3 & 3 & 3 \end{matrix} \begin{matrix} 10 \\ 3 \end{matrix} \begin{matrix} 10 \\ 3 \end{matrix} \Big]_3^2$ | T: 12,88 | $\frac{19}{6}$ |
| $x^{12} - 18x^{10} - 27x^8 + 20x^6 + 7x^4 + 22x^2 - 13$ | $x^{12} - 6x^{10} + 53x^8 - 132x^6 + 319x^4 - 110x^2 + 11$ | $\begin{bmatrix} 4 & 4 & 8 \\ 3 & 3 & 3 \end{bmatrix} \begin{matrix} 8 \\ 3 \end{matrix} \begin{matrix} 3 \\ 3 \end{matrix} \begin{matrix} 10 \\ 3 \end{matrix} \begin{matrix} 10 \\ 3 \end{matrix} \Big]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 22x^{10} + 61x^8 + 52x^6 - 9x^4 - 18x^2 + 43$ | $x^{12} + 2x^{10} + x^8 + 44x^6 + 407x^4 + 1210x^2 + 1331$ | $\begin{bmatrix} 4 & 4 & 8 \\ 3 & 3 & 3 \end{bmatrix} \begin{matrix} 8 \\ 3 \end{matrix} \begin{matrix} 3 \\ 3 \end{matrix} \begin{matrix} 10 \\ 3 \end{matrix} \begin{matrix} 10 \\ 3 \end{matrix} \Big]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 38x^{10} + 49x^8 - 20x^6 - 25x^4 + 22x^2 + 7$ | $x^{12} - 4x^{11} + 16x^{10} - 76x^9 + 159x^8 - 228x^7 + 324x^6 - 308x^5 + 253x^4 - 208x^3 + 72x^2 - 56x + 1$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{10}{3} \\ & 3 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{19}{6}$ |
| $x^{12} - 6x^{10} - 35x^8 + 36x^6 - 57x^4 - 6x^2 + 11$ | $x^{12} + 12x^{10} - 4x^9 - 99x^8 - 324x^7 - 232x^6 + 732x^5 + 2859x^4 + 4596x^3 + 4200x^2 + 1728x + 249$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{10}{3} \\ & 3 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,59 | $\frac{37}{12}$ |
| $x^{12} + 42x^{10} + 61x^8 + 12x^6 + 55x^4 + 18x^2 + 43$ | $x^{12} + 14x^{10} + 77x^8 + 196x^6 + 251x^4 + 198x^2 + 11$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & \frac{10}{3} \\ 3 & 2 & 3 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} - 2x^{10} - 7x^8 - 4x^6 + 7x^4 - 2x^2 - 1$ | $x^{12} - 6x^{10} + 13x^8 - 12x^6 + 7x^4 - 6x^2 - 1$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{10}{3} \\ & 3 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{19}{6}$ |
| $x^{12} - 62x^{10} + 19x^8 + 12x^6 + 7x^4 + 50x^2 - 123$ | $x^{12} - 26x^{10} - 24x^9 + 149x^8 + 116x^7 - 316x^6 - 204x^5 + 53x^4 + 436x^3 + 326x^2 - 236x - 673$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & \frac{19}{6} \\ 3 & 3 & 3 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} - 6x^{10} - 21x^8 - 4x^6 + 23x^4 - 54x^2 - 35$ | $x^{12} - 18x^{10} + 387x^8 - 900x^6 - 11097x^4 + 44550x^2 - 43659$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \quad \left[\begin{array}{ccc} 19 & 19 & 8 \\ 6 & 6 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} + 62x^{10} + 5x^8 - 28x^6 - 57x^4 + 22x^2 - 45$ | $x^{12} - 4x^{11} + 30x^{10} - 140x^9 + 558x^8 - 1932x^7 + 5468x^6 - 12440x^5 + 22808x^4 - 34120x^3 + 39296x^2 - 29400x + 10162$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \quad \left[\begin{array}{ccc} 10 & 10 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{149}{48}$ |
| $x^{12} - 22x^{10} - 57x^8 + 44x^6 - 33x^4 + 10x^2 + 25$ | $x^{12} - 26x^{10} - 24x^9 + 171x^8 + 116x^7 - 624x^6 - 116x^5 + 1307x^4 - 444x^3 - 1170x^2 + 1084x - 277$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \quad \left[\begin{array}{ccc} 19 & 19 & 8 \\ 6 & 6 & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{283}{96}$ |
| $x^{12} - 10x^{10} + 49x^8 - 12x^6 - 33x^4 - 50x^2 + 63$ | $x^{12} - 2x^{10} + x^8 + 12x^6 - x^4 - 2x^2 - 1$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \quad \left[\begin{array}{ccc} 10 & 10 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,59 | $\frac{37}{12}$ |
| $x^{12} + 66x^{10} - 69x^8 - 84x^6 + 103x^4 - 14x^2 + 93$ | $x^{12} - 30x^{10} + 417x^8 - 720x^7 - 1924x^6 + 15120x^5 - 41409x^4 + 73200x^3 - 95094x^2 + 51120x - 11361$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \quad \left[\begin{array}{ccc} 19 & 19 & 8 \\ 6 & 6 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 62x^{10} + 5x^8 + 36x^6 + 7x^4 - 10x^2 + 51$ | $x^{12} - 2x^{10} + x^8 - 44x^6 + 407x^4 - 1210x^2 + 1331$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 34x^{10} + 55x^8 - 68x^6 + 31x^4 + 2x^2 + 41$ | $x^{12} + 6x^{10} + 231x^8 + 884x^6 + 1023x^4 + 294x^2 + 25$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,58 | $\frac{139}{48}$ |
| $x^{12} + 42x^{10} - 69x^8 + 92x^6 - 105x^4 - 6x^2 - 51$ | $x^{12} - 4x^{11} + 16x^{10} - 40x^9 + 82x^8 - 172x^7 + 284x^6 - 376x^5 + 378x^4 - 216x^3 + 60x^2 - 16x + 2$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} + 34x^{10} - x^8 - 36x^6 + 63x^4 - 62x^2 + 33$ | $x^{12} - 18x^{10} + 135x^8 - 12x^6 + 351x^4 - 162x^2 + 441$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,60 | $\frac{139}{48}$ |
| $x^{12} - 22x^{10} - 17x^8 - 20x^6 - x^4 - 22x^2 - 15$ | $x^{12} + 42x^{10} + 735x^8 + 6860x^6 + 36159x^4 + 102858x^2 + 124609$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,89 | $\frac{283}{96}$ |
| $x^{12} - 30x^{10} - 33x^8 - 36x^6 + 63x^4 + 2x^2 - 63$ | $x^{12} - 6x^{10} + 15x^8 - 80x^6 + 123x^4 + 534x^2 + 1$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,60 | $\frac{139}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 6x^{10} + 87x^8 - 52x^6 + 111x^4 + 122x^2 + 25$ | $x^{12} + 6x^{10} + 39x^8 + 56x^6 + 243x^4 + 162x^2 + 81$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 6 \end{bmatrix} \begin{matrix} 19 \\ 6 \\ 6 \end{matrix} \Big]_3^2$ | T: 12,60 | $\frac{139}{48}$ |
| $x^{12} + 14x^{10} - 21x^8 - 44x^6 - 41x^4 + 30x^2 + 29$ | $x^{12} - 4x^{11} + 32x^{10} - 112x^9 + 340x^8 - 652x^7 + 972x^6 - 1144x^5 + 928x^4 - 384x^3 - 32x^2 + 88x - 22$ | $\begin{bmatrix} 4 & 4 & 8 \\ 3 & 3 & 3 \end{bmatrix} \begin{matrix} 8 \\ 3 \\ 3 \end{matrix} \begin{matrix} 3 \\ 3 \\ 3 \end{matrix} \begin{matrix} 19 \\ 6 \\ 6 \end{matrix} \Big]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} + 106x^{10} - 81x^8 + 108x^6 + 31x^4 + 42x^2 + 17$ | $x^{12} - 4x^{11} - 4x^{10} + 24x^9 - 6x^8 - 28x^7 + 32x^5 - 16x^4 - 8x^3 + 12x^2 - 2$ | $\begin{bmatrix} 4 & 4 & 2 \\ 3 & 3 & 3 \end{bmatrix} \begin{matrix} 19 \\ 6 \\ 6 \end{matrix} \Big]_3^2$ | T: 12,87 | $\frac{283}{96}$ |
| $x^{12} - 62x^{10} + 75x^8 + 12x^6 - 105x^4 + 50x^2 - 67$ | $x^{12} + 78x^{10} + 1641x^8 - 1584x^7 - 88x^6 - 41976x^5 - 93681x^4 + 536448x^3 + 453978x^2 + 529848x - 1276893$ | $\begin{bmatrix} 4 & 4 & 8 \\ 3 & 3 & 3 \end{bmatrix} \begin{matrix} 8 \\ 3 \\ 3 \end{matrix} \begin{matrix} 3 \\ 3 \\ 3 \end{matrix} \begin{matrix} 19 \\ 6 \\ 6 \end{matrix} \Big]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} + 22x^{10} + 45x^8 - 52x^6 - 33x^4 - 42x^2 - 61$ | $x^{12} - 4x^{11} - 2x^{10} + 40x^9 - 100x^8 + 100x^7 + 192x^6 - 1080x^5 + 1838x^4 - 1312x^3 + 220x^2 + 168x - 62$ | $\begin{bmatrix} 2 & 8 & 8 \\ 3 & 3 & 3 \end{bmatrix} \begin{matrix} 10 \\ 3 \\ 3 \end{matrix} \Big]_3^2$ | T: 12,88 | $\frac{19}{6}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|------------|--------------------|
| $x^{12} + 6x^{10} - 3x^8 - 4x^6 + 31x^4 - 26x^2 - 13$ | $x^{12} - 20x^{10} + 188x^8 - 308x^6 + 396x^4 - 176x^2 + 44$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 11 & 10 & 10 \\ 4 & 3 & 3 \end{array} \right]_3^2$ | T: 12, 189 | $\frac{1207}{384}$ |
| $x^{12} - 74x^{10} + 37x^8 + 108x^6 - 33x^4 + 38x^2 + 75$ | $x^{12} + 4x^{10} + 12x^8 + 28x^6 + 64x^4 + 88x^2 + 44$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 11 & 10 & 10 \\ 4 & 3 & 3 \end{array} \right]_3^2$ | T: 12, 189 | $\frac{1207}{384}$ |
| $x^{12} + 14x^{10} - 31x^8 - 52x^6 + 39x^4 + 46x^2 - 9$ | $x^{12} - 14x^{10} + 49x^8 - 44x^6 - 121x^4 + 242x^2 - 121$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 11 & 10 & 10 \\ 4 & 3 & 3 \end{array} \right]_3^2$ | T: 12, 189 | $\frac{1207}{384}$ |
| $x^{12} + 26x^{10} + 29x^8 + 28x^6 + 7x^4 - 14x^2 + 27$ | $x^{12} - 18x^{10} + 117x^8 - 324x^6 + 291x^4 + 110x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12, 189 | $\frac{1219}{384}$ |
| $x^{12} - 6x^{10} + x^8 - 28x^6 - 25x^4 - 6x^2 + 23$ | $x^{12} + 30x^{10} - 495x^8 + 300x^6 + 30375x^4 - 101250x^2 - 5625$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 11 & 10 & 10 \\ 4 & 3 & 3 \end{array} \right]_3^2$ | T: 12, 189 | $\frac{1207}{384}$ |
| $x^{12} - 10x^{10} - 3x^8 - 4x^6 + 15x^4 + 6x^2 + 3$ | $x^{12} + 6x^{10} + 9x^8 - 4x^6 - 9x^4 + 6x^2 + 3$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12, 88 | $\frac{19}{6}$ |
| $x^{12} + 30x^{10} - 7x^8 - 12x^6 + 31x^4 + 6x^2 + 23$ | $x^{12} - 10x^{10} + 113x^8 + 308x^6 + 55x^4 - 242x^2 - 121$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12, 189 | $\frac{1219}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} - 22x^{10} - 19x^8 - 12x^6 + 23x^4 - 6x^2 - 21$ | $x^{12} - 12x^{10} - 28x^9 - 63x^8 + 228x^7 + 1548x^6 + 2676x^5 + 1299x^4 - 596x^3 - 492x^2 + 24x + 41$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{10}{3} \\ & \frac{8}{3} & \frac{10}{3} \\ & & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,59 | $\frac{37}{12}$ |
| $x^{12} + 34x^{10} - 25x^8 - 36x^6 - 49x^4 - 126x^2 + 41$ | $x^{12} + 6x^{10} - 57x^8 - 60x^6 + 319x^4 + 182x^2 + 25$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{4}{3} & \frac{19}{6} \\ & & \frac{19}{6} \end{array} \right]_3^2$ | T: 12,87 | $\frac{283}{96}$ |
| $x^{12} - 58x^{10} - 63x^8 - 44x^6 + 47x^4 + 30x^2 + 63$ | $x^{12} - 10x^{10} + 33x^8 - 44x^6 + 11x^4 - 66x^2 - 121$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{4}{3} & \frac{8}{3} \\ & & \frac{8}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} - 6x^{10} + 23x^8 + 12x^6 + 15x^4 - 6x^2 - 7$ | $x^{12} - 14x^{10} - 24x^9 + 41x^8 + 204x^7 + 360x^6 + 396x^5 + 299x^4 + 132x^3 + 10x^2 - 12x + 1$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ & \frac{4}{3} & \frac{19}{6} \\ & & \frac{19}{6} \end{array} \right]_3^2$ | T: 12,58 | $\frac{139}{48}$ |
| $x^{12} - 14x^{10} + 5x^8 - 12x^6 - 17x^4 + 18x^2 - 5$ | $x^{12} - 6x^{10} + x^8 - 20x^6 - 17x^4 - 22x^2 + 11$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{4}{3} & \frac{8}{3} \\ & & \frac{8}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 22x^{10} - 57x^8 + 44x^6 + 47x^4 - 22x^2 - 23$ | $x^{12} - 4x^{11} + 44x^9 - 158x^8 + 204x^7 - 100x^6 + 48x^5 + 322x^4 - 1080x^3 + 2936x^2 - 5864x + 4178$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 6 \end{bmatrix}^2_3$ | T: 12,58 | $\frac{139}{48}$ |
| $x^{12} - 14x^{10} - 69x^8 - 84x^6 - 121x^4 + 66x^2 + 125$ | $x^{12} - 4x^{11} + 12x^{10} + 48x^9 - 6x^8 + 164x^7 + 1276x^6 + 2416x^5 + 2444x^4 + 2904x^3 + 3288x^2 + 1616x + 122$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 6 \end{bmatrix}^2_3$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} + 42x^{10} + 51x^8 - 4x^6 + 7x^4 - 38x^2 + 37$ | $x^{12} - 12x^{10} + 516x^8 - 3340x^6 - 3600x^4 - 7500$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 6 \end{bmatrix}^2_3$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} - 38x^{10} + 107x^8 + 92x^6 - 73x^4 + 10x^2 - 3$ | $x^{12} - 12x^{10} + 78x^8 - 144x^7 - 20x^6 + 888x^5 - 2232x^4 + 2880x^3 - 2160x^2 + 816x - 188$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 6 \end{bmatrix}^2_3$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} - 62x^{10} - 53x^8 + 44x^6 - 41x^4 - 46x^2 - 3$ | $x^{12} - 54x^{10} + 1179x^8 - 13260x^6 + 30375x^4 - 60750x^2 - 151875$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 6 \end{bmatrix}^2_3$ | T: 12,187 | $\frac{1183}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 6x^{10} - 31x^8 + 20x^6 - x^4 + 30x^2 - 17$ | $x^{12} - 4x^{11} + 6x^{10} - 52x^9 + 56x^8 + 476x^7 - 680x^6 + 1648x^5 - 7414x^4 - 7376x^3 + 57700x^2 - 71600x + 27250$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{10}{3} \\ & \frac{8}{3} & \frac{10}{3} \\ & & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,59 | $\frac{37}{12}$ |
| $x^{12} - 6x^{10} - 45x^8 - 36x^6 - 105x^4 + 10x^2 + 21$ | $x^{12} + 18x^{10} + 63x^8 - 336x^6 - 1377x^4 - 1458x^2 - 243$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & \frac{8}{3} \\ & \frac{4}{3} & \frac{8}{3} \\ & & \frac{8}{3} \end{array} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} - 46x^{10} + 53x^8 - 44x^6 + 47x^4 - 46x^2 - 53$ | $x^{12} + 2x^{10} - 11x^8 - 12x^6 + 47x^4 + 66x^2 + 11$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & \frac{8}{3} \\ & \frac{4}{3} & \frac{11}{4} \\ & & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} + 30x^{10} + 9x^8 - 28x^6 - x^4 + 22x^2 + 7$ | $x^{12} - 26x^{10} - 36x^9 + 22x^8 - 172x^7 - 220x^6 - 224x^5 - 168x^4 - 80x^3 - 36x^2 - 8x - 2$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & \frac{8}{3} \\ & \frac{4}{3} & \frac{10}{3} \\ & & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 66x^{10} + 3x^8 - 20x^6 + 23x^4 + 50x^2 + 37$ | $x^{12} + 54x^{10} - 324x^9 + 1287x^8 - 5292x^7 - 192x^6 - 54108x^5 + 400383x^4 - 756756x^3 + 180306x^2 + 740664x - 539217$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & \frac{8}{3} \\ & \frac{4}{3} & \frac{19}{6} \\ & & \frac{19}{6} \end{array} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 10x^{10} - 7x^8 - 20x^6 - x^4 - 46x^2 - 41$ | $x^{12} + 30x^{10} - 1215x^8 + 27300x^6 - 56025x^4 + 33750x^2 - 5625$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ 10 & 10 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 50x^{10} + 71x^8 - 68x^6 - x^4 + 50x^2 + 121$ | $x^{12} - 4x^{11} + 32x^{10} - 84x^9 + 300x^8 - 556x^7 + 1076x^6 - 1504x^5 + 1458x^4 - 1232x^3 + 904x^2 - 424x + 86$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 3 & 3 \\ 19 & 19 & 6 \\ 6 & 6 & 3 \end{array} \right]^2_3$ | T: 12,60 | $\frac{139}{48}$ |
| $x^{12} + 50x^{10} + 59x^8 + 44x^6 + 87x^4 - 30x^2 - 51$ | $x^{12} - 4x^{11} + 32x^{10} - 84x^9 + 278x^8 - 468x^7 + 636x^6 - 448x^5 + 204x^4 - 88x^3 + 24x^2 - 512x - 2$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ 19 & 19 & 6 \\ 6 & 6 & 3 \end{array} \right]^2_3$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} - 58x^{10} - 55x^8 + 60x^6 + 7x^4 + 6x^2 + 15$ | $x^{12} - 2x^{10} - 3x^8 + 212x^6 - 105x^4 - 2250x^2 + 3375$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 10 & 3 \\ 10 & 10 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,88 | $\frac{19}{6}$ |
| $x^{12} + 34x^{10} - 33x^8 - 36x^6 + 15x^4 + 34x^2 - 47$ | $x^{12} - 22x^{10} + 55x^8 + 792x^6 + 539x^4 - 242x^2 + 121$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 4 & 2 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 19 & 6 \\ 19 & 19 & 6 \\ 6 & 6 & 3 \end{array} \right]^2_3$ | T: 12,89 | $\frac{283}{96}$ |
| $x^{12} + 30x^{10} + 121x^8 - 68x^6 - 121x^4 - 50x^2 + 63$ | $x^{12} - 8x^{10} + 132x^6 - 396x^4 + 880x^2 - 484$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 4 & 2 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 8 & 8 & 3 \\ 11 & 10 & 3 \\ 4 & 3 & 3 \end{array} \right]^2_3$ | T: 12,189 | $\frac{1207}{384}$ |

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| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 14x^{10} - 57x^8 + 60x^6 + 63x^4 - 14x^2 + 57$ | $x^{12} - 4x^{11} + 20x^{10} - 40x^9 + 96x^8 - 188x^7 + 292x^6 - 408x^5 + 532x^4 - 512x^3 + 332x^2 - 136x + 26$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 3 \end{bmatrix} \begin{bmatrix} 19 & 19 \\ 6 & 6 \end{bmatrix}^2_3$ | T: 12,60 | $\frac{139}{48}$ |
| $x^{12} + 50x^{10} + 35x^8 + 12x^6 - 41x^4 + 34x^2 + 5$ | $x^{12} + 24x^8 + 52x^6 + 24x^4 + 480x^2 - 300$ | $\begin{bmatrix} 4 & 4 & 8 \\ 3 & 3 & 3 \end{bmatrix} \begin{bmatrix} 8 & 19 \\ 3 & 6 \end{bmatrix}^2_3$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} + 62x^{10} + 5x^8 + 4x^6 - 25x^4 + 22x^2 - 45$ | $x^{12} - 6x^{10} + 17x^8 - 28x^6 + 31x^4 - 22x^2 + 11$ | $\begin{bmatrix} 4 & 4 & 8 \\ 3 & 3 & 3 \end{bmatrix} \begin{bmatrix} 10 & 10 \\ 3 & 3 \end{bmatrix}^2_3$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 30x^{10} - 59x^8 + 20x^6 + 39x^4 + 38x^2 - 13$ | $x^{12} + 10x^{10} + 69x^8 + 220x^6 + 451x^4 - 110x^2 + 11$ | $\begin{bmatrix} 4 & 4 & 8 \\ 3 & 3 & 3 \end{bmatrix} \begin{bmatrix} 10 & 10 \\ 3 & 3 \end{bmatrix}^2_3$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} - 10x^{10} + 17x^8 - 28x^6 - 17x^4 + 30x^2 - 49$ | $x^{12} - 18x^{10} + 81x^8 + 44x^6 - 341x^4 - 242x^2 - 121$ | $\begin{bmatrix} 4 & 4 & 8 \\ 3 & 3 & 3 \end{bmatrix} \begin{bmatrix} 10 & 10 \\ 3 & 3 \end{bmatrix}^2_3$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} - 62x^{10} - 45x^8 - 52x^6 - 9x^4 + 18x^2 + 53$ | $x^{12} - 4x^{11} + 12x^{10} - 84x^9 - 6x^8 + 252x^7 + 572x^6 - 312x^5 - 1098x^4 - 616x^3 - 100x^2 - 56x - 98$ | $\begin{bmatrix} 4 & 4 & 8 \\ 3 & 3 & 3 \end{bmatrix} \begin{bmatrix} 19 & 19 \\ 6 & 6 \end{bmatrix}^2_3$ | T: 12,187 | $\frac{1183}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 58x^{10} - 17x^8 + 12x^6 - 49x^4 - 38x^2 + 1$ | $x^{12} + 22x^{10} + 55x^8 - 792x^6 + 539x^4 + 242x^2 + 121$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 6 \end{bmatrix} \begin{matrix} 3 \\ 3 \\ 6 \end{matrix} \left[\frac{19}{6} \right]_3^2$ | T: 12,60 | $\frac{139}{48}$ |
| $x^{12} - 6x^{10} + 27x^8 + 60x^6 - 9x^4 + 10x^2 - 51$ | $x^{12} - 72x^{10} - 360x^9 - 306x^8 + 720x^7 - 2172x^6 - 4680x^5 + 28080x^4 - 14400x^3 - 361296x^2 - 455760x - 199596$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 6 \end{bmatrix} \begin{matrix} 3 \\ 3 \\ 6 \end{matrix} \begin{matrix} 3 \\ 3 \\ 6 \end{matrix} \left[\frac{19}{6} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} - 34x^{10} + 51x^8 + 20x^6 + 39x^4 - 50x^2 - 59$ | $x^{12} - 4x^{11} + 16x^{10} - 48x^9 + 106x^8 - 172x^7 + 168x^6 - 104x^5 + 78x^4 - 232x^3 + 196x^2 + 8x - 206$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 6 \end{bmatrix} \begin{matrix} 3 \\ 3 \\ 6 \end{matrix} \begin{matrix} 3 \\ 3 \\ 6 \end{matrix} \left[\frac{19}{6} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} - 62x^{10} + 57x^8 + 20x^6 + 39x^4 - 62x^2 + 63$ | $x^{12} + 30x^{10} + 9x^8 - 3348x^6 + 7047x^4 + 10206x^2 - 18225$ | $\begin{bmatrix} 2 & 8 & 3 \\ 3 & 3 & 6 \end{bmatrix} \begin{matrix} 3 \\ 3 \\ 6 \end{matrix} \begin{matrix} 3 \\ 3 \\ 6 \end{matrix} \left[\frac{10}{3} \right]_3^2$ | T: 12,88 | $\frac{19}{6}$ |
| $x^{12} - 30x^{10} - 17x^8 - 4x^6 - 17x^4 + 2x^2 - 31$ | $x^{12} - 4x^{11} + 2x^{10} + 11x^8 - 4x^7 + 8x^6 + 4x^5 - 187x^4 + 264x^3 - 86x^2 + 4x + 1$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 6 \end{bmatrix} \begin{matrix} 3 \\ 3 \\ 6 \end{matrix} \begin{matrix} 2 \\ 3 \\ 6 \end{matrix} \left[\frac{19}{6} \right]_3^2$ | T: 12,87 | $\frac{283}{96}$ |

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| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} - 30x^{10} - 5x^8 + 44x^6 - 57x^4 + 18x^2 + 61$ | $x^{12} - 18x^{10} - 36x^9 + 315x^8 - 1908x^7 + 6348x^6 - 19764x^5 + 89775x^4 - 20844x^3 - 274554x^2 - 251640x - 79905$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} + 2x^{10} + 27x^8 + 12x^6 - 9x^4 - 14x^2 + 13$ | $x^{12} - 36x^{10} - 360x^9 - 1062x^8 - 4320x^7 - 9360x^6 - 5760x^5 + 69228x^4 + 123840x^3 - 182736x^2 - 298080x - 198984$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} + 10x^{10} - 7x^8 - 20x^6 - x^4 + 18x^2 + 23$ | $x^{12} - 30x^{10} - 1215x^8 - 27300x^6 - 56025x^4 - 33750x^2 - 5625$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 34x^{10} + 55x^8 + 60x^6 + 31x^4 + 2x^2 - 23$ | $x^{12} - 4x^{11} + 18x^{10} - 36x^9 + 71x^8 - 68x^7 + 72x^6 - 52x^5 + 107x^4 - 56x^3 + 42x^2 + 27$ | $\left[\begin{array}{cccc} 4 & 4 & 3 & 19 \\ 3 & 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,58 | $\frac{139}{48}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} - 4x^{11} + 2x^{10} + 112x^9 - 493x^8 - 6324x^7 - 44172x^6 - 103140x^5 + 95813x^4 + 1632808x^3 + 6927926x^2 + 13026140x + 18946525$ | $x^{12} - 4x^{11} + 2x^{10} + 112x^9 - 493x^8 - 6324x^7 - 44172x^6 - 103140x^5 + 95813x^4 + 1632808x^3 + 6927926x^2 + 13026140x + 18946525$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 3 \\ 3 & 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,89 | $\frac{283}{96}$ |
| $x^{12} - 54x^{10} + 5x^8 - 12x^6 + 63x^4 + 58x^2 + 11$ | $x^{12} + 10x^{10} + 49x^8 + 132x^6 + 143x^4 + 66x^2 + 11$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 11 & 10 & 10 \\ 4 & 3 & 3 \end{array} \right]_3$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} - 26x^{10} - 51x^8 - 28x^6 + 23x^4 + 46x^2 - 37$ | $x^{12} + 6x^{10} + 53x^8 + 132x^6 + 319x^4 + 110x^2 + 11$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 3 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]_3$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} - 22x^{10} + 127x^8 - 84x^6 - x^4 - 22x^2 - 95$ | $x^{12} - 14x^{10} + 71x^8 - 176x^6 + 187x^4 - 242x^2 + 121$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 3 \\ 3 & 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,87 | $\frac{283}{96}$ |
| $x^{12} + 2x^{10} - 7x^8 - 12x^6 + 23x^4 + 2x^2 - 49$ | $x^{12} - 30x^{10} - 2655x^8 - 30900x^6 - 137025x^4 - 249750x^2 - 140625$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 4 \end{array} \right]_3^2 \left[\begin{array}{ccc} 11 & 10 & 10 \\ 4 & 3 & 3 \end{array} \right]_3$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} + 62x^{10} + 33x^8 - 116x^6 + 23x^4 - 98x^2 - 121$ | $x^{12} + 24x^{10} + 260x^8 + 1604x^6 + 5880x^4 + 12600x^2 + 13500$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 10 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]_3$ | T: 12,88 | $\frac{19}{6}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 26x^{10} - 63x^8 - 44x^6 + 15x^4 - 34x^2 - 1$ | $x^{12} - 2x^{10} - 48x^9 + 22x^8 + 196x^7 + 1088x^6 + 560x^5 + 54x^4 - 2264x^3 + 728x^2 + 1144x + 218$ | $\left[\begin{array}{cccc} 2 & 2 & \frac{8}{3} & \frac{10}{3} \\ & & \frac{8}{3} & \frac{10}{3} \\ & & & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,88 | $\frac{149}{48}$ |
| $x^{12} + 34x^{10} - 43x^8 - 4x^6 - 41x^4 - 22x^2 - 45$ | $x^{12} - 4x^{11} - 20x^{10} + 92x^9 + 279x^8 - 2476x^7 + 7500x^6 - 15284x^5 + 24975x^4 - 33944x^3 + 43140x^2 - 47432x + 26411$ | $\left[\begin{array}{cccc} \frac{4}{3} & \frac{4}{3} & \frac{8}{3} & \frac{10}{3} \\ & \frac{4}{3} & \frac{8}{3} & \frac{10}{3} \\ & & \frac{8}{3} & \frac{10}{3} \\ & & & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 34x^{10} + 47x^8 + 28x^6 - 113x^4 + 34x^2 + 1$ | $x^{12} - 4x^{11} + 12x^{10} - 12x^9 - 26x^8 + 132x^7 - 268x^6 + 208x^5 + 240x^4 - 920x^3 + 1276x^2 - 880x + 242$ | $\left[\begin{array}{cccc} \frac{4}{3} & \frac{4}{3} & 2 & 3 \\ & \frac{4}{3} & 2 & 3 \\ & & 2 & 3 \\ & & & 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{283}{96}$ |
| $x^{12} - 10x^{10} + x^8 - 60x^6 - 33x^4 - 2x^2 + 15$ | $x^{12} + 24x^{10} - 40x^9 + 161x^8 - 436x^7 + 544x^6 - 1972x^5 + 3857x^4 - 3900x^3 + 7760x^2 - 11428x + 5483$ | $\left[\begin{array}{cccc} 2 & 2 & \frac{8}{3} & \frac{10}{3} \\ & & \frac{8}{3} & \frac{10}{3} \\ & & & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,88 | $\frac{149}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} + 2x^{10} - 37x^8 - 20x^6 + 55x^4 - 46x^2 + 13$ | $x^{12} - 36x^{10} - 576x^9 - 252x^8 + 9828x^7 + 88992x^6 + 99576x^5 - 493992x^4 - 4564080x^3 - 9271584x^2 - 14714784x + 4073382$ | $\left[\begin{array}{ccccccc} 4 & 4 & 8 & 8 & 3 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} + 30x^{10} - 31x^8 - 20x^6 + 7x^4 - 2x^2 + 23$ | $x^{12} + 14x^{10} + 49x^8 + 44x^6 - 121x^4 - 242x^2 - 121$ | $\left[\begin{array}{ccccccc} 4 & 4 & 2 & 8 & 11 & 10 & 10 \\ 3 & 3 & 3 & 3 & 4 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} - 18x^{10} - 23x^8 - 28x^6 + 31x^4 + 6x^2 + 7$ | $x^{12} - 2x^{10} - 55x^8 - 220x^6 - 385x^4 - 330x^2 - 121$ | $\left[\begin{array}{ccccccc} 4 & 4 & 2 & 8 & 3 & 10 & 10 \\ 3 & 3 & 3 & 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 2x^{10} - 43x^8 + 4x^6 + 47x^4 - 14x^2 + 11$ | $x^{12} + 6x^{10} + 21x^8 + 36x^6 + 75x^4 + 126x^2 + 75$ | $\left[\begin{array}{ccccccc} 2 & 8 & 8 & 3 & 3 & 10 & 10 \\ 3 & 3 & 3 & 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{19}{6}$ |
| $x^{12} + 2x^{10} + 3x^8 - 52x^6 + 39x^4 + 50x^2 - 11$ | $x^{12} - 126x^{10} - 408x^9 + 5067x^8 + 26892x^7 - 24876x^6 - 239436x^5 + 223623x^4 + 801324x^3 - 1632366x^2 + 1106028x - 264909$ | $\left[\begin{array}{ccccccc} 4 & 4 & 8 & 8 & 3 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 6x^{10} - 9x^8 - 20x^6 - x^4 - 6x^2 + 9$ | $x^{12} - 18x^{10} + 135x^8 - 540x^6 + 1215x^4 - 1458x^2 + 441$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 19 & 19 \\ 6 & 6 & 6 \end{array} \Big]^2_3$ | T: 12,87 | $\frac{283}{96}$ |
| $x^{12} - 6x^{10} + 15x^8 - 20x^6 + 15x^4 - 6x^2 - 95$ | $x^{12} - 4x^{11} - 6x^{10} + 20x^9 - 147x^8 - 312x^7 + 308x^6 + 584x^5 + 95x^4 - 212x^3 - 182x^2 - 76x - 13$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 19 & 19 \\ 6 & 6 & 6 \end{array} \Big]^2_3$ | T: 12,58 | $\frac{139}{48}$ |
| $x^{12} - 22x^{10} - 31x^8 + 4x^6 + 7x^4 - 22x^2 + 23$ | $x^{12} - 30x^{10} - 495x^8 - 300x^6 + 30375x^4 + 101250x^2 - 5625$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 11 \\ 3 & 3 & 4 \end{array} \begin{array}{ccc} 10 & 10 & 10 \\ 3 & 3 & 3 \end{array} \Big]^2_3$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} + 26x^{10} + 45x^8 + 60x^6 + 39x^4 - 14x^2 - 53$ | $x^{12} - 2x^{10} - 11x^8 - 132x^6 - 121x^4 - 242x^2 + 1331$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 10 & 10 & 10 \\ 3 & 3 & 3 \end{array} \Big]^2_3$ | T: 12,59 | $\frac{37}{12}$ |
| $x^{12} - 14x^{10} - 21x^8 - 20x^6 + 39x^4 + 2x^2 + 45$ | $x^{12} - 36x^{10} + 144x^8 + 3660x^6 - 9900x^4 - 171000x^2 - 367500$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \Big]^2_3$ | T: 12,187 | $\frac{1183}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 90x^{10} + 127x^8 + 12x^6 -$ $81x^4 + 58x^2 - 47$ | $x^{12} - 4x^{11} + 98x^{10} - 380x^9 + 3395x^8 -$ $9324x^7 + 44136x^6 - 27132x^5 +$ $158435x^4 + 329680x^3 - 224254x^2 -$ $20704x + 18943$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,60 | $\frac{139}{48}$ |
| $x^{12} + 18x^{10} - 27x^8 + 20x^6 -$ $17x^4 + 18x^2 + 27$ | $x^{12} - 2x^{10} - 11x^8 + 12x^6 + 47x^4 -$ $66x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} - 18x^{10} + 9x^8 + 92x^6 -$ $41x^4 + 62x^2 + 31$ | $x^{12} - 4x^{11} + 6x^{10} - 52x^9 + 210x^8 +$ $476x^7 - 4200x^6 + 7192x^5 + 2486x^4 -$ $15560x^3 + 1600x^2 + 20800x - 13274$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{19}{6}$ |
| $x^{12} - 22x^{10} + 39x^8 + 44x^6 -$ $33x^4 + 10x^2 + 57$ | $x^{12} - 12x^9 - 16x^8 + 4x^7 + 76x^6 +$ $192x^5 + 162x^4 + 112x^3 + 88x^2 + 16x +$ 14 | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,89 | $\frac{283}{96}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} + 10x^{10} - 3x^8 - 4x^6 - 9x^4 + 2x^2 + 11$ | $x^{12} - 26x^{10} - 52x^9 + 94x^8 + 364x^7 + 156x^6 - 656x^5 - 960x^4 - 160x^3 + 604x^2 + 480x + 106$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ 10 & 10 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 6x^{10} + 5x^8 + 12x^6 - x^4 - 10x^2 + 11$ | $x^{12} - 4x^{11} + 22x^{10} - 72x^9 + 90x^8 + 44x^7 - 24x^6 - 272x^5 + 216x^4 + 216x^3 + 180x^2 + 88x + 14$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 11 & 10 & 10 \\ 4 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} + 70x^{10} - 99x^8 + 76x^6 - 65x^4 - 42x^2 + 83$ | $x^{12} + 22x^{10} + 77x^8 - 484x^6 + 847x^4 + 2662x^2 + 1331$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 3 & 3 \\ 10 & 10 & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{19}{6}$ |
| $x^{12} - 62x^{10} + 37x^8 - 36x^6 + 55x^4 - 54x^2 + 3$ | $x^{12} + 6x^{10} + 9x^8 - 36x^6 + 39x^4 - 18x^2 + 3$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 10 & 10 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{149}{48}$ |
| $x^{12} - 14x^{10} - 15x^8 + 20x^6 + 23x^4 - 30x^2 - 9$ | $x^{12} + 6x^{10} + x^8 - 52x^6 - 89x^4 - 42x^2 - 9$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 3 & 3 \\ 10 & 10 & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{19}{6}$ |
| $x^{12} - 86x^{10} + 107x^8 - 100x^6 + 55x^4 - 70x^2 + 125$ | $x^{12} + 156x^6 + 504x^4 + 576x^2 - 588$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ 19 & 19 & 6 \\ 6 & 6 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 18x^{10} - 23x^8 - 44x^6 + 7x^4 - 14x^2 + 47$ | $x^{12} - 4x^{11} - 28x^{10} + 192x^9 - 465x^8 - 884x^7 + 5404x^6 - 6156x^5 - 2193x^4 + 8064x^3 - 4464x^2 - 1188x + 1647$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{8}{3} \\ & 3 & 3 \\ & & 3 \end{array} \frac{10}{3} \right]_3^2$ | T: 12,88 | $\frac{19}{6}$ |
| $x^{12} + 30x^{10} - 7x^8 + 4x^6 + 15x^4 - 10x^2 - 25$ | $x^{12} - 4x^{11} + 4x^{10} - 8x^9 + 57x^8 - 92x^7 - 320x^6 + 1748x^5 - 3777x^4 + 4704x^3 - 3584x^2 + 1588x - 319$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{8}{3} \\ & 3 & 3 \\ & & 3 \end{array} \frac{10}{3} \right]_3^2$ | T: 12,59 | $\frac{37}{12}$ |
| $x^{12} - 22x^{10} + 61x^8 + 60x^6 + 55x^4 + 34x^2 - 53$ | $x^{12} - 34x^{10} - 92x^9 + 66x^8 + 260x^7 - 1464x^6 - 5832x^5 - 6060x^4 + 4928x^3 + 17660x^2 + 16360x + 5558$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & 3 & 3 \\ & & 3 \end{array} \frac{8}{3} \quad 3 \quad \frac{10}{3} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} - 10x^{10} + 13x^8 + 12x^6 - x^4 - 10x^2 + 3$ | $x^{12} - 4x^{10} + 16x^8 - 20x^6 - 48x^4 + 216x^2 + 108$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{8}{3} \\ & 3 & 3 \\ & & 3 \end{array} \frac{10}{3} \right]_3^2$ | T: 12,88 | $\frac{19}{6}$ |
| $x^{12} - 30x^{10} - 11x^8 - 20x^6 + 7x^4 - 6x^2 + 3$ | $x^{12} - 6x^{10} + 9x^8 + 36x^6 + 39x^4 + 18x^2 + 3$ | $\left[\begin{array}{ccc} 2 & 2 & \frac{8}{3} \\ & 3 & 3 \\ & & 3 \end{array} \frac{10}{3} \right]_3^2$ | T: 12,88 | $\frac{149}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|------------------|
| $x^{12} - 6x^{10} + 15x^8 - 20x^6 + 15x^4 - 6x^2 + 97$ | $x^{12} + 12x^{10} + 60x^8 + 148x^6 + 384x^4 + 336x^2 + 100$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \frac{19}{6} \right]_3^2$ | T: 12,58 | $\frac{139}{48}$ |
| $x^{12} + 50x^{10} + 23x^8 - 4x^6 + 15x^4 + 18x^2 - 7$ | $x^{12} - 4x^{11} + 12x^{10} + 4x^9 - 18x^8 + 116x^7 + 92x^6 - 88x^5 + 758x^4 + 56x^3 + 376x^2 + 936x + 338$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \frac{19}{6} \right]_3^2$ | T: 12,89 | $\frac{283}{96}$ |
| $x^{12} - 30x^{10} - 33x^8 + 60x^6 + 15x^4 - 62x^2 + 17$ | $x^{12} + 6x^{10} + 15x^8 + 104x^6 + 267x^4 + 258x^2 + 49$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \frac{19}{6} \right]_3^2$ | T: 12,87 | $\frac{283}{96}$ |
| $x^{12} - 82x^{10} - 31x^8 - 84x^6 - 41x^4 - 114x^2 - 57$ | $x^{12} + 4x^{10} - 12x^9 + 111x^8 - 44x^7 - 332x^6 - 1412x^5 + 699x^4 + 2796x^3 + 1872x^2 + 496x + 47$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \frac{10}{3} \right]_3^2$ | T: 12,88 | $\frac{19}{6}$ |
| $x^{12} - 6x^{10} + 15x^8 - 20x^6 + 15x^4 - 6x^2 - 31$ | $x^{12} - 6x^{10} + 15x^8 - 104x^6 + 267x^4 - 258x^2 + 49$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \frac{19}{6} \right]_3^2$ | T: 12,58 | $\frac{139}{48}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} + 106x^{10} + 67x^8 + 28x^6 - 41x^4 - 38x^2 - 91$ | $x^{12} + 30x^{10} - 32x^9 + 255x^8 - 900x^7 - 576x^6 - 9660x^5 - 17835x^4 - 31748x^3 - 82950x^2 + 7620x - 146399$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 19 \\ 6 \end{array} \begin{array}{c} 10 \\ 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} + 26x^{10} - 35x^8 - 36x^6 + 39x^4 - 46x^2 - 37$ | $x^{12} - 6x^{10} + 21x^8 - 44x^6 + 59x^4 - 46x^2 + 11$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 10 \\ 3 \end{array} \begin{array}{c} 10 \\ 3 \end{array} \right]_3^2$ | T: 12,59 | $\frac{37}{12}$ |
| $x^{12} - 26x^{10} - 7x^8 + 28x^6 - 9x^4 - 26x^2 - 17$ | $x^{12} + 2x^{10} + x^8 + 44x^6 - 165x^4 + 242x^2 - 121$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 11 \\ 4 \end{array} \begin{array}{c} 10 \\ 3 \end{array} \begin{array}{c} 10 \\ 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} - 30x^{10} - x^8 + 28x^6 + 31x^4 + 2x^2 + 1$ | $x^{12} + 10x^{10} + 39x^8 + 96x^6 + 187x^4 + 198x^2 + 121$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 19 \\ 6 \end{array} \begin{array}{c} 19 \\ 6 \end{array} \right]_3^2$ | T: 12,58 | $\frac{139}{48}$ |
| $x^{12} - 10x^{10} - 3x^8 + 28x^6 + 15x^4 + 6x^2 - 29$ | $x^{12} - 6x^{10} + 9x^8 + 4x^6 - 9x^4 - 6x^2 + 3$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 10 \\ 3 \end{array} \begin{array}{c} 10 \\ 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{19}{6}$ |
| $x^{12} - 22x^{10} - 61x^8 + 60x^6 + 23x^4 - 6x^2 + 37$ | $x^{12} - 54x^{10} + 999x^8 - 7800x^6 + 37575x^4 - 119250x^2 - 91875$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 19 \\ 6 \end{array} \begin{array}{c} 10 \\ 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} - 30x^{10} + 35x^8 - 52x^6 + 7x^4 + 18x^2 + 53$ | $x^{12} - 360x^9 - 90x^8 - 2160x^7 - 792x^6 - 5760x^5 - 83700x^4 - 18720x^3 + 317520x^2 - 233280x - 43464$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \quad \begin{array}{c} 4 \\ 3 \end{array} \quad \begin{array}{c} 8 \\ 3 \end{array} \quad \begin{array}{c} 8 \\ 3 \end{array} \quad \begin{array}{c} 3 \\ 3 \end{array} \quad \begin{array}{c} 3 \\ 3 \end{array} \quad \begin{array}{c} 19 \\ 6 \end{array} \quad \begin{array}{c} 19 \\ 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} + 2x^{10} - 29x^8 + 12x^6 + 23x^4 + 18x^2 + 5$ | $x^{12} + 36x^{10} + 144x^8 - 3660x^6 - 9900x^4 + 171000x^2 - 367500$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \quad \begin{array}{c} 4 \\ 3 \end{array} \quad \begin{array}{c} 8 \\ 3 \end{array} \quad \begin{array}{c} 8 \\ 3 \end{array} \quad \begin{array}{c} 3 \\ 3 \end{array} \quad \begin{array}{c} 3 \\ 3 \end{array} \quad \begin{array}{c} 19 \\ 6 \end{array} \quad \begin{array}{c} 19 \\ 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} - 30x^{10} - 33x^8 + 28x^6 + 31x^4 + 2x^2 - 31$ | $x^{12} + 14x^{10} + 51x^8 + 40x^6 - 9x^4 - 6x^2 + 1$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \quad \begin{array}{c} 4 \\ 3 \end{array} \quad \begin{array}{c} 4 \\ 3 \end{array} \quad \begin{array}{c} 3 \\ 3 \end{array} \quad \begin{array}{c} 19 \\ 6 \end{array} \quad \begin{array}{c} 19 \\ 6 \end{array} \right]_3^2$ | T: 12,58 | $\frac{139}{48}$ |
| $x^{12} + 62x^{10} + 57x^8 + 28x^6 - 57x^4 - 50x^2 - 1$ | $x^{12} - 24x^{10} - 8x^9 + 135x^8 + 116x^7 - 8x^6 + 260x^5 + 369x^4 + 164x^3 + 120x^2 + 60x + 13$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \quad \begin{array}{c} 4 \\ 3 \end{array} \quad \begin{array}{c} 2 \\ 3 \end{array} \quad \begin{array}{c} 8 \\ 3 \end{array} \quad \begin{array}{c} 8 \\ 3 \end{array} \quad \begin{array}{c} 11 \\ 4 \end{array} \quad \begin{array}{c} 10 \\ 3 \end{array} \quad \begin{array}{c} 10 \\ 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} + 2x^{10} - 19x^8 + 36x^6 - 17x^4 - 14x^2 + 19$ | $x^{12} - 10x^{10} + 49x^8 - 132x^6 + 143x^4 - 66x^2 + 11$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \quad \begin{array}{c} 4 \\ 3 \end{array} \quad \begin{array}{c} 2 \\ 3 \end{array} \quad \begin{array}{c} 8 \\ 3 \end{array} \quad \begin{array}{c} 8 \\ 3 \end{array} \quad \begin{array}{c} 11 \\ 4 \end{array} \quad \begin{array}{c} 10 \\ 3 \end{array} \quad \begin{array}{c} 10 \\ 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} - 22x^{10} - 5x^8 + 60x^6 + 7x^4 + 58x^2 - 3$ | $x^{12} - 48x^{10} - 36x^9 + 1380x^8 - 468x^7 - 20392x^6 + 29376x^5 + 156600x^4 - 541584x^3 + 532656x^2 + 19440x - 209790$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} + 50x^{10} + 21x^8 - 36x^6 - 57x^4 + 58x^2 + 3$ | $x^{12} + 6x^{10} + 21x^8 + 44x^6 + 59x^4 + 46x^2 + 11$ | $\left[\begin{array}{ccc} 2 & 8 & 10 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,59 | $\frac{37}{12}$ |
| $x^{12} + 14x^{10} - 11x^8 - 60x^6 + 39x^4 - 26x^2 + 3$ | $x^{12} - 4x^{10} - 20x^8 + 4x^6 + 408x^4 - 264x^2 + 44$ | $\left[\begin{array}{ccc} 2 & 8 & 10 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{149}{48}$ |
| $x^{12} - 78x^{10} - 43x^8 + 116x^6 - 17x^4 + 82x^2 + 43$ | $x^{12} + 6x^{10} + x^8 + 20x^6 - 17x^4 + 22x^2 + 11$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 11 \\ 3 & 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} + 42x^{10} + 47x^8 + 44x^6 + 63x^4 + 106x^2 - 15$ | $x^{12} - 6x^{10} + 39x^8 - 56x^6 + 243x^4 - 162x^2 + 81$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{283}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 30x^{10} + 15x^8 + 28x^6 + 31x^4 + 66x^2 - 15$ | $x^{12} + 8x^{10} - 16x^9 + 144x^8 + 12x^7 - 88x^6 + 24x^5 + 2x^4 + 96x^3 + 176x^2 + 88x + 14$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \frac{19}{6} \right]_3^2$ | T: 12,60 | $\frac{139}{48}$ |
| $x^{12} - 38x^{10} - 61x^8 - 4x^6 + 7x^4 + 42x^2 - 43$ | $x^{12} + 6x^{10} - 312x^9 - 2751x^8 + 5760x^7 + 38132x^6 + 66528x^5 - 351081x^4 - 1077312x^3 + 1515150x^2 + 6611832x - 9539769$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \frac{8}{3} \frac{3}{3} \frac{19}{6} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} + 10x^{10} - 17x^8 - 20x^6 + 31x^4 + 10x^2 + 17$ | $x^{12} - 4x^{11} + 4x^{10} + 78x^8 - 348x^7 + 832x^6 - 1088x^5 + 856x^4 - 424x^3 + 132x^2 - 24x + 2$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \frac{19}{6} \right]_3^2$ | T: 12,87 | $\frac{283}{96}$ |
| $x^{12} + 14x^{10} + 59x^8 + 4x^6 - 9x^4 - 50x^2 - 51$ | $x^{12} - 8x^{10} - 4x^9 + 88x^8 + 172x^7 - 204x^6 - 1032x^5 - 832x^4 + 1496x^3 + 3200x^2 + 2104x + 478$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \frac{8}{3} \frac{3}{3} \frac{19}{6} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 34x^{10} + 33x^8 + 44x^6 - 49x^4 - 38x^2 + 31$ | $x^{12} - 12x^{10} + 456x^6 - 2160x^4 + 4320x^2 - 3600$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{10}{3} \frac{10}{3} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 50x^{10} - 53x^8 - 20x^6 + 55x^4 + 34x^2 - 35$ | $x^{12} - 90x^{10} - 324x^9 + 3879x^8 + 9756x^7 - 17628x^6 - 153468x^5 - 466443x^4 - 654804x^3 - 389250x^2 - 108216x - 10479$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{3}{3} \frac{19}{6} \frac{19}{6} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} + 70x^{10} + 33x^8 + 12x^6 + 55x^4 - 10x^2 - 57$ | $x^{12} - 16x^{10} + 88x^8 - 220x^6 + 88x^4 + 440x^2 - 484$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{11}{4} \frac{10}{3} \frac{10}{3} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} - 22x^{10} - 57x^8 + 44x^6 - 33x^4 + 10x^2 - 39$ | $x^{12} - 4x^{11} - 18x^{10} + 436x^9 - 9131x^8 - 20584x^7 + 465036x^6 - 1411192x^5 - 20672113x^4 + 14921628x^3 + 199758542x^2 - 595642444x - 2325608261$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{3}{3} \frac{19}{6} \frac{19}{6} \right]_3^2$ | T: 12,89 | $\frac{283}{96}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 42x^{10} - 47x^8 - 60x^6 - 49x^4 - 34x^2 + 47$ | $x^{12} - 4x^{11} + 8x^{10} - 20x^9 - 67x^8 - 140x^7 - 36x^6 + 132x^5 + 225x^4 + 64x^3 - 96x^2 - 120x - 41$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 14x^{10} + 5x^8 - 4x^6 + 15x^4 - 2x^2 - 5$ | $x^{12} - 22x^{10} + 77x^8 + 484x^6 + 847x^4 - 2662x^2 + 1331$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{19}{6}$ |
| $x^{12} - 110x^{10} + 23x^8 + 60x^6 - 33x^4 - 46x^2 + 9$ | $x^{12} - 4x^{11} - 374x^{10} + 1740x^9 + 28459x^8 - 179908x^7 + 1147476x^6 - 2287900x^5 + 12251671x^4 + 7861784x^3 + 16499126x^2 - 20017808x + 4696855$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,60 | $\frac{139}{48}$ |
| $x^{12} - 30x^{10} + 33x^8 - 52x^6 + 31x^4 + 26x^2 - 49$ | $x^{12} - 60x^{10} + 1440x^8 - 16260x^6 + 76680x^4 - 81000x^2 - 22500$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} - 62x^{10} - 21x^8 - 20x^6 - 25x^4 - 14x^2 - 19$ | $x^{12} + 84x^{10} - 168x^9 + 2136x^8 - 7596x^7 + 18304x^6 - 35568x^5 + 40194x^4 - 14736x^3 + 4644x^2 - 1080x - 126$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{3}{3} \frac{19}{6} \frac{19}{6} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} - 26x^{10} - 39x^8 + 60x^6 - 17x^4 - 26x^2 - 41$ | $x^{12} - 6x^{10} + 21x^8 - 12x^6 - 81x^4 + 162x^2 - 81$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{10}{3} \frac{10}{3} \right]_3^2$ | T: 12,59 | $\frac{37}{12}$ |
| $x^{12} - 38x^{10} + 41x^8 - 44x^6 - 25x^4 + 10x^2 + 47$ | $x^{12} + 30x^{10} + 225x^8 - 1500x^6 - 29025x^4 - 128250x^2 - 140625$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{11}{4} \frac{10}{3} \frac{10}{3} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} - 6x^{10} - 9x^8 - 52x^6 - 17x^4 - 6x^2 - 7$ | $x^{12} - 42x^{10} + 735x^8 - 6860x^6 + 36159x^4 - 102858x^2 + 124609$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{3}{3} \frac{3}{3} \frac{19}{6} \frac{19}{6} \right]_3^2$ | T: 12,60 | $\frac{139}{48}$ |
| $x^{12} + 34x^{10} + 111x^8 + 28x^6 + 31x^4 - 126x^2 - 111$ | $x^{12} - 4x^{11} + 32x^{10} - 84x^9 + 366x^8 - 732x^7 + 2132x^6 - 3440x^5 + 6210x^4 - 7832x^3 + 8384x^2 - 9928x + 13066$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{3}{3} \frac{3}{3} \frac{19}{6} \frac{19}{6} \right]_3^2$ | T: 12,60 | $\frac{139}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} - 6x^{10} - 57x^8 + 12x^6 - 49x^4 + 58x^2 + 9$ | $x^{12} - 24x^8 - 12x^6 + 408x^4 - 864x^2 + 484$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 6 \end{bmatrix} \begin{matrix} 19 \\ 6 \end{matrix} \begin{matrix} 19 \\ 6 \end{matrix} \Big]_3^2$ | T: 12,60 | $\frac{139}{48}$ |
| $x^{12} + 54x^{10} - 7x^8 + 60x^6 + 23x^4 - 10x^2 - 49$ | $x^{12} - 2x^{10} + x^8 - 44x^6 - 165x^4 - 242x^2 - 121$ | $\begin{bmatrix} 4 & 4 & 2 \\ 3 & 3 & 3 \end{bmatrix} \begin{matrix} 8 & 8 \\ 3 & 3 \end{matrix} \begin{matrix} 11 & 10 \\ 4 & 3 \end{matrix} \begin{matrix} 10 \\ 3 \end{matrix} \Big]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} - 22x^{10} + 23x^8 - 20x^6 + 31x^4 + 10x^2 + 9$ | $x^{12} - 14x^{10} - 8x^9 + 79x^8 + 100x^7 - 152x^6 - 364x^5 - 101x^4 + 340x^3 + 426x^2 + 212x + 43$ | $\begin{bmatrix} 4 & 4 & 2 \\ 3 & 3 & 3 \end{bmatrix} \begin{matrix} 3 & 3 \\ 19 & 19 \\ 6 & 6 \end{matrix} \Big]_3^2$ | T: 12,87 | $\frac{283}{96}$ |
| $x^{12} + 34x^{10} + 95x^8 - 100x^6 + 31x^4 + 66x^2 - 31$ | $x^{12} - 4x^{11} - 10x^{10} + 20x^9 - 7x^8 + 36x^7 + 332x^6 + 100x^5 - 245x^4 - 24x^3 + 66x^2 - 16x + 1$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 6 \end{bmatrix} \begin{matrix} 19 \\ 6 \end{matrix} \begin{matrix} 19 \\ 6 \end{matrix} \Big]_3^2$ | T: 12,58 | $\frac{139}{48}$ |
| $x^{12} - 58x^{10} - 31x^8 - 20x^6 + 39x^4 + 54x^2 - 41$ | $x^{12} - 4x^{11} + 6x^{10} - 8x^9 + 80x^8 - 340x^7 + 500x^6 + 168x^5 - 1338x^4 + 1520x^3 - 676x^2 + 112x - 22$ | $\begin{bmatrix} 2 & 8 & 3 \\ 3 & 3 & 3 \end{bmatrix} \begin{matrix} 3 & 3 \\ 10 & 10 \\ 3 & 3 \end{matrix} \Big]_3^2$ | T: 12,88 | $\frac{19}{6}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 58x^{10} + 57x^8 + 44x^6 + 47x^4 - 30x^2 - 57$ | $x^{12} - 42x^{10} + 441x^8 - 324x^6 - 3969x^4 - 3402x^2 - 729$ | $\left[\begin{matrix} 2 & 2 & 8 & 8 & 10 \\ 3 & 3 & 3 & 3 & 3 \end{matrix} \right]_3^2$ | T: 12,88 | $\frac{149}{48}$ |
| $x^{12} + 10x^{10} + 47x^8 - 20x^6 - x^4 - 54x^2 - 15$ | $x^{12} - 4x^{11} - 12x^{10} + 48x^9 + 102x^8 - 380x^7 - 596x^6 + 2632x^5 + 2360x^4 - 10472x^3 - 8292x^2 + 16296x + 15794$ | $\left[\begin{matrix} 4 & 4 & 2 & 3 & 19 \\ 3 & 3 & 3 & 6 & 6 \end{matrix} \right]_3^2$ | T: 12,89 | $\frac{283}{96}$ |
| $x^{12} + 14x^{10} - 19x^8 - 4x^6 - 17x^4 - 34x^2 + 19$ | $x^{12} - 4x^{10} + 12x^8 - 28x^6 + 64x^4 - 88x^2 + 44$ | $\left[\begin{matrix} 4 & 4 & 2 & 8 & 8 & 10 \\ 3 & 3 & 3 & 3 & 4 & 3 \end{matrix} \right]_3^2$ | T: 12,189 | $\frac{1207}{384}$ |
| $x^{12} - 6x^{10} - 5x^8 + 60x^6 + 7x^4 - 22x^2 - 3$ | $x^{12} - 72x^{10} - 324x^9 - 270x^8 + 7092x^7 + 77040x^6 + 424224x^5 + 1530918x^4 + 4325616x^3 + 9484236x^2 + 12887640x + 7476810$ | $\left[\begin{matrix} 4 & 4 & 8 & 8 & 3 & 3 & 19 \\ 3 & 3 & 3 & 3 & 6 & 6 & 6 \end{matrix} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} + 42x^{10} + 29x^8 - 52x^6 - 57x^4 - 46x^2 + 27$ | $x^{12} + 12x^{10} + 68x^8 + 116x^6 + 168x^4 + 216x^2 + 108$ | $\left[\begin{matrix} 2 & 2 & 8 & 8 & 10 \\ 3 & 3 & 3 & 3 & 3 \end{matrix} \right]_3^2$ | T: 12,88 | $\frac{149}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} + 34x^{10} - x^8 + 60x^6 - 49x^4 + 2x^2 + 49$ | $x^{12} - 12x^{10} + 60x^8 + 224x^6 - 2304x^5 + 6000x^4 - 7680x^3 + 5568x^2 - 2304x + 448$ | $\begin{bmatrix} 4 & 4 & 2 & 3 & 19 \\ 3 & 3 & 3 & 6 & 6 \end{bmatrix}_3^2$ | T: 12,87 | $\frac{283}{96}$ |
| $x^{12} - 30x^{10} + 21x^8 - 4x^6 + 23x^4 - 22x^2 + 19$ | $x^{12} + 16x^{10} + 92x^8 + 220x^6 + 176x^4 + 88x^2 + 44$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 3 & 10 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 10x^{10} - 5x^8 + 60x^6 - 57x^4 + 26x^2 - 3$ | $x^{12} + 54x^{10} + 999x^8 + 7800x^6 + 37575x^4 + 119250x^2 - 91875$ | $\begin{bmatrix} 4 & 4 & 8 & 3 & 3 & 19 \\ 3 & 3 & 3 & 3 & 6 & 6 \end{bmatrix}_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} + 26x^{10} - x^8 + 12x^6 - 17x^4 - 6x^2 + 17$ | $x^{12} - 4x^{11} + 102x^{10} - 260x^9 - 413x^8 + 9244x^7 - 22924x^6 + 208204x^5 - 1782857x^4 - 6936968x^3 - 2926174x^2 - 28692776x + 345949039$ | $\begin{bmatrix} 4 & 4 & 3 & 19 \\ 3 & 3 & 6 & 6 \end{bmatrix}_3^2$ | T: 12,60 | $\frac{139}{48}$ |
| $x^{12} + 14x^{10} - 23x^8 + 36x^6 - x^4 + 6x^2 - 57$ | $x^{12} - 14x^{10} + 109x^8 - 532x^6 + 1815x^4 - 3150x^2 + 3375$ | $\begin{bmatrix} 2 & 2 & 8 & 3 & 10 \\ 3 & 3 & 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 12,88 | $\frac{149}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 18x^{10} + 19x^8 + 12x^6 - 25x^4 - 30x^2 - 27$ | $x^{12} - 54x^{10} - 96x^9 + 2043x^8 - 2808x^7 - 40248x^6 + 168264x^5 + 136971x^4 - 2078856x^3 + 3098574x^2 + 5371272x - 24067227$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} + 66x^{10} - 53x^8 - 84x^6 + 119x^4 + 18x^2 + 29$ | $x^{12} - 18x^{10} - 24x^9 + 153x^8 + 192x^7 - 552x^6 - 744x^5 - 381x^4 - 208x^3 - 102x^2 - 9$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} - 6x^{10} + 43x^8 - 4x^6 + 39x^4 + 42x^2 + 45$ | $x^{12} - 4x^{11} + 6x^{10} + 4x^9 - 25x^8 + 20x^7 + 68x^6 - 140x^5 + 85x^4 + 112x^3 - 162x^2 - 144x - 27$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| $x^{12} - 102x^{10} - 93x^8 + 124x^6 - 25x^4 - 86x^2 + 85$ | $x^{12} - 4x^{11} + 14x^{10} - 40x^9 + 73x^8 - 84x^7 + 24x^6 + 44x^5 - 57x^4 + 18x^2 + 4x - 7$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 14x^{10} + 7x^8 - 4x^6 + 31x^4 - 14x^2 + 25$ | $x^{12} - 8x^{10} - 4x^9 + 70x^8 + 132x^7 + 80x^6 + 56x^4 + 160x^3 + 172x^2 + 88x + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,58 | $\frac{139}{48}$ |
| $x^{12} + 2x^{10} - 31x^8 + 12x^6 - 17x^4 - 6x^2 + 31$ | $x^{12} + 30x^{10} - 27x^8 - 3348x^6 + 14823x^4 - 11178x^2 - 729$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{149}{48}$ |
| $x^{12} + 22x^{10} + 61x^8 - 44x^6 + 23x^4 - 50x^2 + 11$ | $x^{12} + 6x^{10} + 17x^8 + 28x^6 + 31x^4 + 22x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 54x^{10} - 19x^8 + 36x^6 + 55x^4 - 34x^2 + 27$ | $x^{12} - 10x^{10} + 69x^8 - 220x^6 + 451x^4 + 110x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1219}{384}$ |
| $x^{12} + 26x^{10} - 3x^8 - 28x^6 + 7x^4 - 6x^2 + 11$ | $x^{12} + 12x^{10} + 36x^8 + 28x^6 - 24x^4 - 24x^2 + 12$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,59 | $\frac{37}{12}$ |
| $x^{12} - 6x^{10} + 3x^8 + 28x^6 + 55x^4 - 54x^2 - 59$ | $x^{12} + 72x^{10} + 1494x^8 - 1584x^7 + 792x^6 - 91872x^5 - 329868x^4 - 1384416x^3 - 3055536x^2 - 9703584x - 14630616$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1183}{384}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|------------------|
| $x^{12} + 2x^{10} + 2x^9 + 2x^8 + 2x^6 + 2x^4 + 2$ | $x^{12} - 6x^9 + 10x^6 + 4x^3 + 2$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \right]_3^6$ | T: 12,2 | $\frac{5}{3}$ |
| $x^{12} + 2x^{11} + 2x^9 + 2x^6 + 2$ | $x^{12} - 2x^{11} - 116x^{10} + 1090x^9 - 4240x^8 + 14780x^7 - 59578x^6 + 115320x^5 - 130784x^4 + 257960x^3 + 81096x^2 + 164724x + 85590$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \end{array} \right]_3^6$ | T: 12,90 | $\frac{175}{96}$ |
| $x^{12} + 2x^{11} + 2x^{10} + 2x^9 + 2x^8 + 2$ | $x^{12} - 4x^{11} + 4x^{10} - 6x^9 + 20x^8 - 16x^7 - 24x^5 + 26x^4 + 12x^3 + 4x^2 - 16x - 2$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \end{array} \right]_3^2$ | T: 12,26 | $\frac{43}{24}$ |
| $x^{12} + 2x^{11} + 2x^9 + 2x^2 + 2$ | $x^{12} - 48x^6 + 144x^4 - 144x^2 + 48$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 7 \\ 3 \end{array} \begin{array}{c} 7 \\ 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{211}{96}$ |
| $x^{12} + 2x^{11} + 2x^{10} + 2x^9 + 2x^6 + 2$ | $x^{12} - 18x^{10} - 22x^9 + 103x^8 + 320x^7 + 122x^6 - 1092x^5 - 2563x^4 - 2196x^3 - 56x^2 + 1062x + 489$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \end{array} \right]_3^6$ | T: 12,90 | $\frac{175}{96}$ |
| $x^{12} + 2x^9 + 2x^8 + 2x^6 + 4x^3 + 2x^2 + 2$ | $x^{12} + 48x^6 + 144x^4 + 144x^2 + 48$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 7 \\ 3 \end{array} \begin{array}{c} 7 \\ 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{211}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|------------------|
| $x^{12} + 2x^9 + 2x^6 + 2x^4 + 2x^2 + 6$ | $x^{12} - 2x^{11} - 16x^{10} + 28x^9 + 162x^8 - 432x^7 - 236x^6 + 1872x^5 - 2260x^4 + 904x^3 + 32x^2 - 64x - 8$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right] \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 7 \\ 3 \end{array} \begin{array}{c} 7 \\ 3 \end{array} \right]_3^2$ | T: 12,61 | $\frac{103}{48}$ |
| $x^{12} + 2x^{10} + 2x^9 + 2x^4 + 4x^3 + 2x^2 + 4x + 6$ | $x^{12} - 2x^{11} - 8x^{10} + 6x^9 + 12x^8 + 36x^7 + 126x^6 - 48x^5 - 450x^4 - 404x^3 - 70x^2 + 20x - 2$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right] \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 7 \\ 3 \end{array} \begin{array}{c} 7 \\ 3 \end{array} \right]_3^2$ | T: 12,61 | $\frac{103}{48}$ |
| $x^{12} + 2x^{11} + 2x^{10} + 2x^9 + 6x^4 + 4x^3 + 2x^2 + 4x + 2$ | $x^{12} - 4x^{11} + 10x^{10} - 18x^9 + 25x^8 - 28x^7 - 2x^6 + 36x^5 - 49x^4 + 46x^2 - 6x - 13$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right] \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 7 \\ 3 \end{array} \begin{array}{c} 7 \\ 3 \end{array} \right]_3^2$ | T: 12,61 | $\frac{103}{48}$ |
| $x^{12} + 2x^{11} + 2x^{10} + 2x^9 + 6x^2 + 2$ | $x^{12} - 8x^{10} - 20x^8 - 28x^6 - 24x^4 - 12x^2 - 4$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right] \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 7 \\ 3 \end{array} \begin{array}{c} 7 \\ 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{211}{96}$ |
| $x^{12} + 2x^{10} + 2x^9 + 2x^8 + 2x^4 + 2x^2 + 2$ | $x^{12} - 12x^{10} - 6x^9 + 45x^8 + 48x^7 - 22x^6 - 48x^5 - 21x^4 - 8x^3 - 24x^2 - 6x - 1$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right] \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 7 \\ 3 \end{array} \begin{array}{c} 7 \\ 3 \end{array} \right]_3^2$ | T: 12,59 | $\frac{103}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|------------------|
| $x^{12} + 2x^{11} + 2x^9 + 2x^6 + 6x^4 + 4x^3 + 2x^2 + 2$ | $x^{12} - 12x^{10} + 57x^8 - 136x^6 + 171x^4 - 72x^2 + 3$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ 2 \\ \frac{7}{3} \\ \frac{7}{3} \\ 3 \end{array} \right]_3^2$ | T: 12,59 | $\frac{103}{48}$ |
| $x^{12} + 2x^{11} + 2x^{10} + 2x^9 + 2x^8 + 2x^4 + 6$ | $x^{12} - 6x^{10} - 6x^9 + 9x^8 + 24x^7 - 60x^5 - 105x^4 - 96x^3 - 54x^2 - 18x - 3$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \right]_3^2$ | T: 12,2 | $\frac{5}{3}$ |
| $x^{12} + 2x^{11} + 2x^{10} + 2x^9 + 2$ | $x^{12} - 6x^{11} + 18x^{10} - 22x^9 + 4x^8 + 24x^7 - 28x^6 + 16x^5 - 8x^3 + 8x^2 - 4x + 2$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ 2 \\ 2 \\ 2 \end{array} \right]_3^2$ | T: 12,25 | $\frac{43}{24}$ |
| $x^{12} + 2x^{11} + 2x^{10} + 2x^9 + 2x^6 + 2x^2 + 6$ | $x^{12} - 16x^{10} + 133x^8 - 644x^6 + 1995x^4 - 3600x^2 + 3375$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ 2 \\ 2 \\ \frac{7}{3} \\ \frac{7}{3} \\ 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{211}{96}$ |
| $x^{12} + 2x^9 + 2$ | $x^{12} - 6x^{11} + 24x^{10} - 62x^9 + 126x^8 - 192x^7 + 244x^6 - 240x^5 + 200x^4 - 120x^3 + 56x^2 - 16x + 2$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \right]_3^2$ | T: 12,2 | $\frac{5}{3}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|------------------|
| $x^{12} + 2x^{11} + 2x^{10} + 2x^9 + 2x^6 + 2x^4 + 2$ | $x^{12} - 2x^{11} - 90x^{10} - 728x^9 + 622x^8 + 25584x^7 + 116920x^6 - 34400x^5 - 1591500x^4 - 3477064x^3 + 4316984x^2 + 19884384x + 7945512$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 2 \\ 2 \end{array} \right]_3^6$ | T: 12,90 | $\frac{175}{96}$ |
| $x^{12} + 2x^{10} + 2x^9 + 2x^8 + 6$ | $x^{12} - 2x^{11} + 14x^9 - 36x^8 + 32x^7 + 12x^6 - 40x^5 + 14x^4 + 24x^3 - 28x^2 + 12x - 2$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 2 \\ 2 \end{array} \right]_3^2$ | T: 12,25 | $\frac{43}{24}$ |
| $x^{12} + 2x^{11} + 2x^9 + 2$ | $x^{12} - 2x^{10} - 2x^9 - 10x^8 - 24x^7 - 20x^6 + 8x^5 + 22x^4 + 8x^3 - 8x^2 - 8x - 2$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 2 \\ 2 \end{array} \right]_3^2$ | T: 12,26 | $\frac{43}{24}$ |
| $x^{12} + 2x^{10} + 2x^9 + 2x^6 + 2x^2 + 2$ | $x^{12} - 6x^{11} + 2x^{10} + 34x^9 + 18x^8 - 100x^7 - 162x^6 - 20x^5 + 244x^4 + 380x^3 + 346x^2 + 220x + 86$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 7 \\ 3 \end{array} \begin{array}{c} 7 \\ 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{211}{96}$ |
| $x^{12} + 2x^9 + 2x^8 + 2x^4 + 4x^3 + 2x^2 + 4x + 2$ | $x^{12} - 36x^6 - 108x^4 - 108x^2 - 36$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 7 \\ 3 \end{array} \begin{array}{c} 7 \\ 3 \end{array} \right]_3^2$ | T: 12,59 | $\frac{103}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|------------------|
| $x^{12} + 2x^{10} + 2x^9 + 4x^3 + 2x^2 + 4x + 2$ | $x^{12} - 6x^{11} - 2x^{10} + 54x^9 + 20x^8 - 184x^7 - 178x^6 + 252x^5 + 428x^4 - 44x^3 - 274x^2 - 56x + 98$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \end{array} \right]_3^2$ | T: 12,88 | $\frac{211}{96}$ |
| $x^{12} + 2x^9 + 2x^8 + 4x^4 + 4x^3 + 6x^2 + 4x + 2$ | $x^{12} - 4x^{11} + 10x^{10} - 18x^9 + 26x^8 - 24x^7 + 16x^6 - 12x^5 + 20x^4 - 12x^3 + 10x^2 - 8x + 2$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \end{array} \right]_3^2$ | T: 12,92 | $\frac{211}{96}$ |
| $x^{12} + 2x^{11} + 2x^9 + 2x^8 + 2x^4 + 2$ | $x^{12} - 4x^{11} + 6x^{10} - 2x^9 + 5x^8 - 4x^7 - 8x^6 + 12x^5 - 3x^4 + 4x^3 - 10x^2 + 6x - 1$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} \right]_3^2$ | T: 12,26 | $\frac{43}{24}$ |
| $x^{12} + 2x^{11} + 2x^{10} + 2x^9 + 2x^4 + 2x^2 + 4x + 2$ | $x^{12} - 4x^{11} + 8x^{10} - 18x^9 + 47x^8 - 124x^7 + 252x^6 - 372x^5 + 445x^4 - 420x^3 + 318x^2 - 158x + 47$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \end{array} \right]_3^2$ | T: 12,61 | $\frac{103}{48}$ |
| $x^{12} + 2x^{11} + 2x^{10} + 2x^9 + 4x^3 + 2x^2 + 2$ | $x^{12} + 8x^{10} - 20x^8 + 28x^6 - 24x^4 + 12x^2 - 4$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \end{array} \right]_3^2$ | T: 12,92 | $\frac{211}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 2x^{10} + 2x^9 + 2x^8 + 2x^4 + 2$ | $x^{12} - 4x^{11} + 4x^{10} + 6x^9 - 14x^8 - 4x^7 + 12x^6 + 4x^5 - 12x^3 + 4x^2 + 4x - 2$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,26 | $\frac{43}{24}$ |
| $x^{12} + 2x^{11} + 2x^{10} + 2x^9 + 2x^4 + 4x^3 + 2x^2 + 6$ | $x^{12} + 12x^{10} + 57x^8 + 136x^6 + 171x^4 + 72x^2 + 3$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,59 | $\frac{103}{48}$ |
| $x^{12} - 4x^{10} - 7x^8 + 4x^6 - 5x^4 + 4x^2 + 1$ | $x^{12} + 24x^{10} + 285x^8 + 1196x^6 + 1635x^4 + 24x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{10}{3}$ |
| $x^{12} + 866x^{10} - 591x^8 - 716x^6 + 679x^4 - 510x^2 - 569$ | $x^{12} - 4x^{10} - 4x^9 - 24x^8 - 144x^7 - 380x^6 - 624x^5 - 870x^4 - 1104x^3 - 1052x^2 - 592x - 146$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,51 | $\frac{139}{48}$ |
| $x^{12} - 18x^{10} + 45x^8 + 60x^6 - 49x^4 + 30x^2 - 45$ | $x^{12} - 6x^{10} + 5x^8 + 20x^6 - 17x^4 - 22x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 8x^{10} + 3x^8 + 7x^4 + 8x^2 + 3$ | $x^{12} + 7x^8 + 15x^4 + 11$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{161}{48}$ |
| $x^{12} - 4x^{10} - 3x^8 - 5x^4 + 8x^2 + 5$ | $x^{12} + 60x^{10} - 1035x^8 - 118800x^6 - 1921725x^4 + 3645000x^2 + 184528125$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-----------------|
| $x^{12} + 3x^8 + 4x^6 - 5x^4 + 4x^2 - 1$ | $x^{12} + 48x^{10} + 927x^8 + 8316x^6 + 27459x^4 - 72900x^2 - 455625$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{11}{3} \end{array} \right]_3^2$ | T: 12,92 | $\frac{41}{12}$ |
| $x^{12} - 6x^{10} + 57x^8 - 60x^6 - 33x^4 + 42x^2 + 55$ | $x^{12} - 78x^{10} + 2169x^8 - 25772x^6 + 124551x^4 - 149550x^2 - 9025$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} + 42x^{10} + 25x^8 - 12x^6 - 33x^4 + 10x^2 - 41$ | $x^{12} - 6x^{10} + 9x^8 + 84x^6 - 81x^4 + 90x^2 - 9$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} - 14x^{10} + 5x^8 - 12x^6 + 7x^4 + 2x^2 - 13$ | $x^{12} - 18x^{10} + 21x^8 - 36x^6 + 39x^4 - 18x^2 + 3$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 10x^{10} - 7x^8 - 12x^6 + 23x^4 + 26x^2 - 1$ | $x^{12} + 12x^{10} - 1464x^8 - 6720x^7 - 12564x^6 - 17520x^5 - 24504x^4 - 11200x^3 + 25680x^2 + 34560x + 11964$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{4}{3} & 2 \\ & & \frac{8}{3} \end{array} \right]_3^2$ $\left[\begin{array}{ccc} 3 & \frac{10}{3} & 7 \\ & \frac{10}{3} & 7 \\ & & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|------------------|
| $x^{12} + 4x^{10} - x^8 + x^4 - 3$ | $x^{12} - 3x^8 - 16x^6 - 21x^4 - 12x^2 - 3$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 11 \\ 3 \end{array} \left[\begin{array}{c} 2 \\ 3 \end{array} \right]$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} + 10x^{10} - 55x^8 + 36x^6 - 33x^4 - 6x^2 - 25$ | $x^{12} - 6x^{10} + 9x^8 + 4x^6 - 33x^4 + 42x^2 - 25$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 10 \\ 3 \end{array} \left[\begin{array}{c} 7 \\ 2 \end{array} \right] \left[\begin{array}{c} 2 \\ 3 \end{array} \right]$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} - 62x^{10} - 31x^8 - 60x^6 - x^4 + 34x^2 + 15$ | $x^{12} - 6x^{10} + 1293x^8 - 8640x^7 + 14020x^6 + 27360x^5 - 150177x^4 + 326400x^3 - 423366x^2 + 277920x - 68669$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 10 \\ 3 \end{array} \left[\begin{array}{c} 7 \\ 2 \end{array} \right] \left[\begin{array}{c} 2 \\ 3 \end{array} \right]$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} + 42x^{10} - 35x^8 + 20x^6 + 55x^4 + 10x^2 + 11$ | $x^{12} + 26x^{10} + 157x^8 - 332x^6 + 295x^4 - 70x^2 - 5$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 10 \\ 3 \end{array} \left[\begin{array}{c} 7 \\ 2 \end{array} \right] \left[\begin{array}{c} 2 \\ 3 \end{array} \right]$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} + 8x^{10} - 3x^8 - 7x^4 + 8x^2 - 1$ | $x^{12} - 3x^8 + 9x^4 - 9$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 11 \\ 3 \end{array} \left[\begin{array}{c} 2 \\ 3 \end{array} \right]$ | T: 12,61 | $\frac{10}{3}$ |
| $x^{12} + 4x^{10} + x^8 - 7x^4 - 4x^2 + 3$ | $x^{12} - 12x^{10} + 179x^8 - 792x^6 + 539x^4 - 132x^2 + 11$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 11 \\ 3 \end{array} \left[\begin{array}{c} 2 \\ 3 \end{array} \right]$ | T: 12,61 | $\frac{10}{3}$ |
| $x^{12} + 4x^{10} + 3x^8 + 3x^4 + 4x^2 - 1$ | $x^{12} + 36x^{10} + 567x^8 + 4968x^6 + 6723x^4 - 152604x^2 - 613089$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 11 \\ 3 \end{array} \left[\begin{array}{c} 2 \\ 3 \end{array} \right]$ | T: 12,92 | $\frac{161}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 210x^{10} - 63x^8 - 44x^6 - 25x^4 + 114x^2 - 73$ | $x^{12} - 36x^{10} - 60x^9 + 336x^8 + 1200x^7 + 836x^6 - 5280x^5 - 23400x^4 - 42000x^3 - 36888x^2 - 13080x - 2354$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{c} 7 \\ 2 \end{array} \right]_3^2$ | T: 12,142 | $\frac{595}{192}$ |
| $x^{12} - 14x^{10} + 21x^8 - 28x^6 - x^4 - 30x^2 - 5$ | $x^{12} + 10x^{10} - 28x^9 + 51x^8 - 160x^7 + 396x^6 - 464x^5 + 865x^4 - 1328x^3 + 922x^2 - 260x + 257$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 19 & 19 & 3 \\ 6 & 6 & 6 \end{array} \left[\begin{array}{c} 7 \\ 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{619}{192}$ |
| $x^{12} - 6x^{10} + x^8 - 12x^6 - 9x^4 - 22x^2 - 25$ | $x^{12} + 6x^{10} + 5x^8 - 24x^6 - 41x^4 - 30x^2 - 9$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 19 & 19 & 3 \\ 6 & 6 & 6 \end{array} \left[\begin{array}{c} 7 \\ 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{619}{192}$ |
| $x^{12} + 4x^{10} + 7x^8 - x^4 + 8x^2 + 7$ | $x^{12} - 12x^{10} - 81x^8 + 672x^6 + 4671x^4 - 9720x^2 - 5625$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 11 \\ 3 & 3 & 4 \end{array} \left[\begin{array}{c} 11 \\ 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| $x^{12} + 418x^{10} - 203x^8 + 356x^6 - 97x^4 + 50x^2 + 283$ | $x^{12} + 14x^{10} + 69x^8 + 184x^6 + 243x^4 + 154x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 3 & 7 \\ 2 & 2 & 2 \end{array} \left[\begin{array}{c} 7 \\ 2 \end{array} \right]_3^2$ | T: 12,51 | $\frac{139}{48}$ |
| $x^{12} - 22x^{10} - 23x^8 - 12x^6 + 15x^4 - 22x^2 + 23$ | $x^{12} - 6x^{10} - 639x^8 + 5844x^6 + 40311x^4 - 232470x^2 - 1071225$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 10 & 10 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{c} 7 \\ 2 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 5x^8 + 4x^6 + 7x^4 + 7$ | $x^{12} - 4x^{10} + x^8 + 20x^6 - 7x^4 + 4x^2 - 1$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{c} 11 \\ 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1315}{384}$ |
| $x^{12} - 6x^{10} + 33x^8 + 20x^6 + 7x^4 - 22x^2 - 9$ | $x^{12} - 6x^{10} - 15x^8 + 80x^6 + 195x^4 - 1146x^2 - 9$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 19 & 19 & 3 \\ 6 & 6 & 3 \end{array} \left[\begin{array}{c} 7 \\ 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{619}{192}$ |
| $x^{12} - 22x^{10} - 19x^8 - 12x^6 - x^4 + 26x^2 + 3$ | $x^{12} - 22x^{10} + 253x^8 - 1716x^6 + 4895x^4 - 5566x^2 + 1331$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 19 & 19 & 3 \\ 6 & 6 & 3 \end{array} \left[\begin{array}{c} 7 \\ 2 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} - 4x^{10} + x^8 + 7x^4 - 4x^2 - 7$ | $x^{12} + 12x^{10} + 53x^8 + 104x^6 + 87x^4 + 28x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 11 & 11 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{c} 11 \\ 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{41}{12}$ |
| $x^{12} + 4x^{10} - 3x^8 - 4x^6 + 7x^4 + 1$ | $x^{12} + 2x^8 + 4x^4 + 4$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{c} 11 \\ 3 \end{array} \right]_3^2$ | T: 12,60 | $\frac{10}{3}$ |
| $x^{12} + 10x^{10} + 21x^8 - 44x^6 + 31x^4 + 58x^2 - 5$ | $x^{12} + 2x^{10} + 13x^8 + 12x^6 + 23x^4 + 26x^2 + 11$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 7 & 7 \\ 2 & 2 & 2 \end{array} \left[\begin{array}{c} 7 \\ 2 \end{array} \right]_3^2$ | T: 12,51 | $\frac{37}{12}$ |
| $x^{12} + 10x^{10} - 47x^8 + 36x^6 + 39x^4 - 54x^2 - 57$ | $x^{12} + 12x^{10} + 36x^8 + 52x^6 + 48x^4 - 100$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 19 & 19 & 3 \\ 6 & 6 & 3 \end{array} \left[\begin{array}{c} 7 \\ 2 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} - 4x^{10} + x^8 - 4x^6 - 5x^4 - 7$ | $x^{12} - 6x^8 + 36$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{c} 11 \\ 3 \end{array} \right]_3^2$ | T: 12,60 | $\frac{10}{3}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} + 4x^{10} - x^8 + 8x^6 - 7x^4 + 8x^2 + 5$ | $x^{12} + 24x^{10} + 39x^8 - 256x^6 - 963x^4 - 1188x^2 - 507$ | $\left[\begin{array}{ccc} 8 & 8 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} - 7x^8 + 8x^6 + 3x^4 + 4x^2 + 1$ | $x^{12} - 24x^{10} + 222x^8 - 968x^6 + 2256x^4 - 2760x^2 + 1444$ | $\left[\begin{array}{ccc} 8 & 8 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} + 8x^{10} + 3x^8 + 7x^4 + 4x^2 - 5$ | $x^{12} - 4x^{10} - 27x^8 + 40x^6 + 353x^4 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| $x^{12} + 8x^{10} + 5x^8 + 8x^6 + x^4 + 8x^2 + 7$ | $x^{12} - 11x^8 + 33x^4 - 121$ | $\left[\begin{array}{ccc} 2 & 8 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,61 | $\frac{10}{3}$ |
| $x^{12} + 8x^{10} + 7x^8 + 4x^6 - x^4 - 4x^2 + 3$ | $x^{12} - 24x^{10} + 231x^8 - 1100x^6 + 2783x^4 - 3388x^2 + 1331$ | $\left[\begin{array}{ccc} 2 & 8 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{41}{12}$ |
| $x^{12} - 6x^{10} - 31x^8 - 28x^6 - 17x^4 + 10x^2 + 31$ | $x^{12} + 66x^{10} - 300x^9 + 705x^8 - 16800x^7 + 58480x^6 - 194880x^5 + 1668945x^4 - 4939840x^3 + 13936626x^2 - 63612180x + 102398871$ | $\left[\begin{array}{ccc} 2 & 8 & 10 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 18x^{10} + 61x^8 + 4x^6 - x^4 + 2x^2 - 13$ | $x^{12} - 16x^{10} + 108x^8 - 308x^6 - 132x^4 + 2200x^2 + 2156$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} - x^8 + 4x^6 - x^4 + 4x^2 + 3$ | $x^{12} - 12x^{10} + 45x^8 - 76x^6 + 65x^4 - 32x^2 + 11$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 11 \\ & & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{41}{12}$ |
| $x^{12} + 4x^{10} + x^8 - 4x^6 - 5x^4 + 1$ | $x^{12} + 6x^8 + 12x^4 + 4$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 11 \\ & & 3 \end{array} \right]_3^2$ | T: 12,60 | $\frac{10}{3}$ |
| $x^{12} - x^8 - 4x^6 + 3x^4 - 1$ | $x^{12} + 4x^{10} - 29x^8 - 220x^6 - 517x^4 - 484x^2 - 121$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1315}{384}$ |
| $x^{12} + x^8 + 8x^6 - 5x^4 + 8x^2 + 1$ | $x^{12} + 11x^8 + 33x^4 + 121$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 11 \\ & & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{41}{12}$ |
| $x^{12} + 2x^{10} + 21x^8 - 28x^6 + 15x^4 + 18x^2 - 5$ | $x^{12} - 30x^{10} + 357x^8 - 1936x^6 + 5115x^4 - 6490x^2 + 3179$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 4x^{10} - 3x^8 - 4x^6 + 7x^4 + 8x^2 + 5$ | $x^{12} - 22x^8 + 484x^4 - 5324$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 3 & 3 \\ & & 11 \\ & & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{161}{48}$ |
| $x^{12} - 150x^{10} + 237x^8 - 76x^6 + 111x^4 - 70x^2 + 179$ | $x^{12} - 6x^{10} + 33x^8 - 72x^6 + 39x^4 - 18x^2 + 3$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 7 \\ & & 2 \end{array} \right]_3^2$ | T: 12,51 | $\frac{37}{12}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 2x^{10} - 59x^8 + 4x^6 - 41x^4 - 30x^2 + 35$ | $x^{12} + 14x^{10} - 28x^9 + 65x^8 - 208x^7 + 168x^6 - 504x^5 + 455x^4 - 96x^3 + 902x^2 + 980x + 293$ | $\begin{bmatrix} 2 & \frac{8}{3} & 3 & \frac{10}{3} \\ \frac{4}{3} & 2 & 3 & \frac{19}{6} \\ \frac{8}{3} & \frac{8}{3} & 3 & \frac{11}{3} \\ \frac{11}{3} & \frac{11}{3} & 3 & 3 \end{bmatrix}_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} - 6x^{10} + 17x^8 - 28x^6 - 25x^4 - 38x^2 + 7$ | $x^{12} - 12x^{10} + 36x^8 - 52x^6 - 48x^2 - 100$ | $\begin{bmatrix} 4 & \frac{4}{3} & 2 & 3 \\ \frac{4}{3} & 2 & 3 & \frac{19}{6} \\ \frac{8}{3} & \frac{8}{3} & 3 & \frac{11}{3} \\ \frac{11}{3} & \frac{11}{3} & 3 & 3 \end{bmatrix}_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} - 78x^{10} + 29x^8 - 124x^6 + 79x^4 + 2x^2 - 29$ | $x^{12} + 6x^{10} - 12x^9 + 21x^8 - 48x^7 + 92x^6 - 120x^5 + 167x^4 - 208x^3 + 214x^2 - 140x + 49$ | $\begin{bmatrix} 2 & 3 & \frac{7}{2} \\ \frac{4}{3} & 2 & 3 \\ \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{11}{3} & \frac{11}{3} & 3 \end{bmatrix}_3^2$ | T: 12,14 | $\frac{17}{6}$ |
| $x^{12} + 3x^8 + 4x^6 - x^4 - 1$ | $x^{12} - 12x^{10} + 65x^8 - 20x^6 - 359x^4 - 396x^2 - 121$ | $\begin{bmatrix} 4 & \frac{4}{3} & 2 & \frac{8}{3} \\ \frac{4}{3} & 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & \frac{8}{3} & 3 & \frac{11}{3} \\ \frac{11}{3} & \frac{11}{3} & 3 & 3 \end{bmatrix}_3^2$ | T: 12,189 | $\frac{1315}{384}$ |
| $x^{12} + 4x^{10} + 7x^8 - 4x^6 + 7x^4 + 4x^2 + 3$ | $x^{12} - 20x^{10} + 95x^8 - 188x^6 + 175x^4 - 76x^2 + 11$ | $\begin{bmatrix} 4 & \frac{4}{3} & 2 & \frac{8}{3} \\ \frac{4}{3} & 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & \frac{8}{3} & 3 & \frac{11}{3} \\ \frac{11}{3} & \frac{11}{3} & 3 & 3 \end{bmatrix}_3^2$ | T: 12,189 | $\frac{1315}{384}$ |
| $x^{12} - 4x^{10} - 7x^8 + 7x^4 - 3$ | $x^{12} - 69x^8 + 40x^6 + 1005x^4 - 1980x^2 + 845$ | $\begin{bmatrix} 8 & \frac{8}{3} & 3 & \frac{11}{3} \\ \frac{4}{3} & 2 & 3 & \frac{19}{6} \\ \frac{8}{3} & \frac{8}{3} & 3 & \frac{11}{3} \\ \frac{11}{3} & \frac{11}{3} & 3 & 3 \end{bmatrix}_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 8x^{10} - x^8 + 8x^6 + 3x^4 - 4x^2 + 3$ | $x^{12} - 4x^{10} + 3x^8 + 3x^4 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| $x^{12} - x^8 - x^4 + 4x^2 + 3$ | $x^{12} + 4x^{10} + 5x^8 - 8x^6 - 27x^4 + 16x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| $x^{12} - 14x^{10} + 5x^8 + 4x^6 + 15x^4 + 2x^2 + 11$ | $x^{12} + 30x^{10} + 357x^8 + 1936x^6 + 5115x^4 + 6490x^2 + 3179$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 10 & 10 & 10 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 7 & 7 \\ 2 & 2 & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 4x^{10} + 5x^8 - 4x^6 + 7x^4 + 4x^2 - 7$ | $x^{12} + 16x^{10} + 97x^8 + 308x^6 + 847x^4 + 2904x^2 + 5929$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{10}{3}$ |
| $x^{12} + 26x^{10} - 3x^8 - 60x^6 - 9x^4 - 22x^2 - 21$ | $x^{12} - 24x^{10} - 20x^9 + 180x^8 + 576x^7 + 252x^6 - 6240x^5 - 11532x^4 + 29560x^3 + 63492x^2 - 51048x - 113234$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 10 & 10 & 10 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 7 & 7 \\ 2 & 2 & 2 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} + 5x^8 + 4x^6 + 7x^4 + 8x^2 + 5$ | $x^{12} - 8x^{10} + 11x^8 + 132x^6 - 847x^4 + 1936x^2 - 1331$ | $\left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,31 | $\frac{79}{24}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 30x^{10} - 11x^8 + 20x^6 - x^4 + 2x^2 - 5$ | $x^{12} + 10x^{10} + 41x^8 + 80x^6 + 31x^4 + 22x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{619}{192}$ |
| $x^{12} + 18x^{10} - 3x^8 - 12x^6 - x^4 + 18x^2 + 19$ | $x^{12} - 4x^{10} - 12x^8 - 100x^6 + 240x^4 - 176x^2 + 44$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{619}{192}$ |
| $x^{12} + 4x^{10} - x^8 + 4x^6 - x^4 + 4x^2 + 3$ | $x^{12} + 20x^{10} + 95x^8 + 188x^6 + 175x^4 + 76x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 8 \\ & & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1315}{384}$ |
| $x^{12} + 2x^{10} + 9x^8 - 12x^6 + 7x^4 + 2x^2 - 1$ | $x^{12} + 24x^{10} - 164x^9 - 474x^8 - 5400x^7 - 16908x^6 - 56808x^5 - 126162x^4 - 140600x^3 - 69960x^2 - 6384x + 3994$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 8 \\ & & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 50x^{10} + 61x^8 - 28x^6 - x^4 + 2x^2 + 51$ | $x^{12} + 2x^{10} + x^8 - 264x^6 + 407x^4 + 902x^2 + 539$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 18x^{10} + 21x^8 + 36x^6 - 25x^4 + 50x^2 - 61$ | $x^{12} + 18x^{10} + 117x^8 + 324x^6 + 327x^4 + 18x^2 + 3$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 10 \\ & & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} - x^8 - 5x^4 + 8x^2 + 3$ | $x^{12} + 9x^8 + 21x^4 + 3$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 3 & 8 \\ & & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{161}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 30x^{10} - 3x^8 + 4x^6 + 15x^4 + 18x^2 + 35$ | $x^{12} + 22x^{10} + 121x^8 + 528x^6 - 1529x^4 + 1210x^2 + 1331$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 19 & 6 \\ & 6 & 2 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 2x^{10} - 19x^8 + 4x^6 + 63x^4 + 50x^2 - 45$ | $x^{12} + 2x^{10} - 19x^8 - 88x^6 + 275x^4 + 110x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 8 & 3 \\ & 3 & 10 \\ & 3 & 3 \\ & 7 & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 4x^{10} - x^8 + 8x^6 + 7x^4 + 8x^2 - 1$ | $x^{12} + 60x^{10} - 630x^8 - 4800x^6 + 18900x^4 + 135000x^2 - 22500$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 8 & 3 \\ & 3 & 11 \\ & 4 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| $x^{12} - 6x^{10} - 19x^8 - 12x^6 - 49x^4 - 22x^2 - 13$ | $x^{12} - 44x^{10} - 84x^9 + 518x^8 + 2032x^7 + 1188x^6 - 5080x^5 - 9100x^4 - 1456x^3 + 8792x^2 + 8344x + 2402$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 19 & 6 \\ & 6 & 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{619}{192}$ |
| $x^{12} - 3x^8 - 4x^6 + 3x^4 - 4x^2 - 3$ | $x^{12} + 24x^{10} - 27x^8 - 5076x^6 - 47061x^4 - 127332x^2 + 26973$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 8 & 3 \\ & 3 & 11 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{161}{48}$ |
| $x^{12} - 30x^{10} - 55x^8 + 36x^6 - 25x^4 - 14x^2 - 49$ | $x^{12} - 14x^{10} - 28x^9 + 39x^8 + 192x^7 + 128x^6 - 376x^5 - 817x^4 - 624x^3 - 178x^2 - 4x - 1$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 19 & 6 \\ & 6 & 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{619}{192}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} - 62x^{10} - 39x^8 - 12x^6 + 55x^4 + 2x^2 + 47$ | $x^{12} - 4x^{11} + 2x^{10} + 56x^9 + 51x^8 + 88x^7 + 148x^6 + 72x^5 - 3x^4 + 92x^3 + 150x^2 + 80x + 13$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{10}{3} \\ 3 & \frac{10}{3} & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} - x^8 + 3x^4 + 4x^2 + 3$ | $x^{12} + 12x^{10} + 91x^8 + 440x^6 + 1243x^4 + 1936x^2 + 1331$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{4}{3} & 2 & \frac{8}{3} \\ 2 & \frac{8}{3} & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| $x^{12} - 6x^{10} - 19x^8 - 28x^6 - 49x^4 - 6x^2 + 19$ | $x^{12} - 18x^{10} + 117x^8 - 324x^6 + 335x^4 - 66x^2 + 11$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{4}{3} & 2 & 3 \\ 2 & 3 & \frac{19}{6} \end{array} \right]_3^2$ | T: 12,134 | $\frac{619}{192}$ |
| $x^{12} + 4x^{10} + 5x^8 + 8x^6 - x^4 + 5$ | $x^{12} - 22x^8 - 80x^6 - 136x^4 - 120x^2 - 44$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{11}{3} \\ 3 & \frac{11}{3} & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} - 6x^{10} - 7x^8 + 20x^6 - 9x^4 - 22x^2 - 49$ | $x^{12} + 6x^{10} + 9x^8 - 16x^6 - 45x^4 - 102x^2 - 49$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{4}{3} & 2 & 3 \\ 2 & 3 & \frac{19}{6} \end{array} \right]_3^2$ | T: 12,134 | $\frac{619}{192}$ |
| $x^{12} - 14x^{10} - 11x^8 - 12x^6 - x^4 - 14x^2 - 21$ | $x^{12} - 24x^{10} - 44x^9 + 166x^8 + 528x^7 - 220x^6 - 1496x^5 + 4510x^4 + 23056x^3 + 37752x^2 + 28336x + 8206$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{4}{3} & 2 & \frac{8}{3} \\ 2 & \frac{8}{3} & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 7x^8 + 4x^6 - x^4 + 8x^2 - 1$ | $x^{12} - 48x^{10} + 810x^8 - 5880x^6 + 18900x^4 - 16200x^2 - 22500$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,189 | $\frac{1315}{384}$ |
| $x^{12} - 22x^{10} - 59x^8 + 4x^6 - 17x^4 + 10x^2 - 5$ | $x^{12} - 6x^{10} - 11x^8 + 60x^6 + 111x^4 + 66x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 19 & 19 & 3 \\ 6 & 6 & 3 \end{array} \begin{array}{ccc} 7 & 7 & 3 \\ 2 & 2 & 3 \end{array} \right]^2_3$ | T: 12,134 | $\frac{619}{192}$ |
| $x^{12} - 30x^{10} + 17x^8 - 60x^6 - 49x^4 - 30x^2 - 49$ | $x^{12} - 72x^{10} - 300x^9 + 924x^8 + 10800x^7 + 29892x^6 - 26400x^5 - 439854x^4 - 1502800x^3 - 2766000x^2 - 2816400x - 1250650$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 10 & 10 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 7 & 3 \\ 2 & 2 & 3 \end{array} \right]^2_3$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} + 4x^{10} + x^8 - x^4 + 4x^2 + 1$ | $x^{12} + 20x^{10} + 199x^8 + 1408x^6 + 6545x^4 + 15972x^2 + 14641$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,89 | $\frac{41}{12}$ |
| $x^{12} - 30x^{10} + 25x^8 - 12x^6 - 25x^4 - 30x^2 - 49$ | $x^{12} - 42x^{10} - 180x^9 - 9x^8 + 3600x^7 + 14340x^6 - 29160x^5 - 123345x^4 + 95760x^3 + 284850x^2 - 140940x - 134505$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2563}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 4x^{10} + 7x^8 + 4x^6 - 5x^4 + 4x^2 + 3$ | $x^{12} - 4x^{10} + 14x^8 - 40x^6 + 80x^4 - 88x^2 + 44$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1315}{384}$ |
| $x^{12} + 24x^{10} + 4x^6 + 16x^4 + 28$ | $x^{12} - 36x^{10} + 420x^8 - 972x^6 - 1224x^4 - 432x^2 - 36$ | $\left[\begin{array}{ccc} 2 & 3 & 7 \\ 2 & 3 & 2 \end{array} \right]_3^2$ | T: 12,14 | $\frac{17}{6}$ |
| $x^{12} - 4x^{10} - 5x^8 + 7x^4 + 7$ | $x^{12} + 4x^{10} + 14x^8 + 16x^6 - 44x^4 + 24x^2 - 4$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 11 \\ 3 & 3 & 4 \end{array} \begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| $x^{12} + 4x^{10} - 3x^8 + 4x^6 - x^4 - 3$ | $x^{12} - 6x^8 - 24x^4 - 44$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 2 & 2 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 11 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{161}{48}$ |
| $x^{12} - 4x^{10} - 3x^8 + 4x^6 - x^4 + 4x^2 - 7$ | $x^{12} - 4x^{10} + 5x^8 + 12x^6 - 25x^4 - 4x^2 + 49$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{10}{3}$ |
| $x^{12} - x^8 - 4x^6 + 7x^4 - 4x^2 + 7$ | $x^{12} + 12x^{10} - 279x^8 + 2484x^6 - 9639x^4 + 21384x^2 - 18225$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 11 & 3 \\ 3 & 11 & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{41}{12}$ |
| $x^{12} + 18x^{10} + 5x^8 + 36x^6 - 33x^4 + 2x^2 + 43$ | $x^{12} + 8x^{10} + 16x^8 - 132x^6 + 968x^4 - 1408x^2 + 2156$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 2 & 3 & 19 \\ 3 & 6 & 6 \end{array} \begin{array}{ccc} 7 & 7 & 2 \\ 2 & 2 & 3 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} + 4x^{10} - x^8 - 4x^6 + 7x^4 + 4x^2 - 5$ | $x^{12} + 16x^{10} + 101x^8 + 308x^6 + 457x^4 + 272x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 11 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1315}{384}$ |
| $x^{12} + 242x^{10} + 45x^8 + 36x^6 + 239x^4 - 94x^2 + 179$ | $x^{12} - 6x^{10} - 12x^9 - 195x^8 + 912x^7 + 280x^6 - 7272x^5 + 13065x^4 + 4032x^3 - 41394x^2 + 49308x - 18401$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 7 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{595}{192}$ |
| $x^{12} - 30x^{10} + 9x^8 - 60x^6 + 55x^4 + 18x^2 - 49$ | $x^{12} - 66x^{10} + 1449x^8 - 15060x^6 + 73575x^4 - 101250x^2 - 225$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 26x^{10} - 15x^8 + 20x^6 - 25x^4 + 10x^2 + 23$ | $x^{12} - 60x^{10} - 180x^9 + 666x^8 + 5040x^7 + 14412x^6 + 29880x^5 + 51084x^4 + 59760x^3 + 40716x^2 + 15120x + 2826$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 54x^{10} + 21x^8 + 52x^6 + 23x^4 - 54x^2 + 19$ | $x^{12} - 2x^{10} + 13x^8 - 100x^6 + 135x^4 - 66x^2 + 11$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 10 & 10 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} - 4x^{10} - 7x^8 + 8x^6 - x^4 - 3$ | $x^{12} - 69x^8 - 40x^6 + 1005x^4 + 1980x^2 + 845$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 11 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 78x^{10} - 119x^8 + 116x^6 - 73x^4 - 14x^2 + 63$ | $x^{12} - 36x^{10} + 180x^8 + 2088x^6 - 31104x^4 + 66528x^2 - 41616$ | $\left[\begin{matrix} 4 & 4 & 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{matrix} \right]_3^2$ | T: 12,142 | $\frac{595}{192}$ |
| $x^{12} + 4x^{10} - 3x^8 + 3x^4 + 4x^2 - 3$ | $x^{12} - 36x^{10} - 207x^8 + 2808x^6 - 11421x^4 + 10692x^2 + 26973$ | $\left[\begin{matrix} 2 & 8 & 8 & 3 & 11 & 11 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{matrix} \right]_3^2$ | T: 12,89 | $\frac{41}{12}$ |
| $x^{12} + 26x^{10} - 19x^8 + 20x^6 - 17x^4 + 10x^2 - 29$ | $x^{12} + 10x^{10} + 33x^8 + 40x^6 + 71x^4 + 22x^2 + 11$ | $\left[\begin{matrix} 4 & 4 & 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{matrix} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 58x^{10} + 9x^8 - 44x^6 + 7x^4 - 54x^2 - 17$ | $x^{12} + 10x^{10} + 5x^8 - 160x^6 - 225x^4 + 150x^2 - 225$ | $\left[\begin{matrix} 4 & 4 & 2 & 3 & 19 & 19 \\ 3 & 3 & 3 & 6 & 6 & 6 \end{matrix} \right]_3^2$ | T: 12,134 | $\frac{619}{192}$ |
| $x^{12} + 7x^8 + 4x^6 - x^4 - 4x^2 - 5$ | $x^{12} + 12x^{10} + 45x^8 + 76x^6 + 65x^4 + 32x^2 + 11$ | $\left[\begin{matrix} 2 & 8 & 8 & 3 & 11 & 11 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{matrix} \right]_3^2$ | T: 12,92 | $\frac{41}{12}$ |
| $x^{12} - 4x^{10} - 7x^8 + 8x^6 - x^4 - 4x^2 + 5$ | $x^{12} + 60x^{10} + 1125x^8 + 4320x^6 - 56457x^4 - 255636x^2 + 26973$ | $\left[\begin{matrix} 2 & 8 & 8 & 3 & 11 & 11 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{matrix} \right]_3^2$ | T: 12,89 | $\frac{41}{12}$ |
| $x^{12} - 22x^{10} + 17x^8 + 20x^6 - 17x^4 - 22x^2 - 17$ | $x^{12} + 18x^{10} - 2115x^8 + 65160x^6 - 748305x^4 + 3555198x^2 - 5803281$ | $\left[\begin{matrix} 2 & 8 & 8 & 3 & 10 & 10 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{matrix} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 4x^{10} + x^8 + 4x^6 - x^4 + 4x^2 + 1$ | $x^{12} - 16x^{10} + 93x^8 - 220x^6 + 143x^4 + 121$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{11}{3} \\ \frac{8}{3} & 3 & 3 \\ \frac{11}{3} & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{10}{3}$ |
| $x^{12} - 6x^{10} + 21x^8 + 20x^6 + 15x^4 + 10x^2 - 5$ | $x^{12} - 22x^{10} + 33x^8 + 880x^6 + 3311x^4 + 3630x^2 + 1331$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{4}{3} & 2 & \frac{8}{3} \\ \frac{8}{3} & \frac{8}{3} & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 10 & \frac{7}{2} \\ \frac{10}{3} & \frac{7}{2} \\ 3 & 2 \end{array} \right]_3$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 46x^{10} - 11x^8 - 28x^6 + 31x^4 - 62x^2 + 27$ | $x^{12} + 6x^{10} + 33x^8 + 72x^6 + 39x^4 + 18x^2 + 3$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{7}{2} \\ \frac{8}{3} & 3 & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,51 | $\frac{37}{12}$ |
| $x^{12} + 8x^{10} + 3x^8 + 8x^6 - 7x^4 + 4x^2 - 7$ | $x^{12} - 3x^8 - 16x^6 + 27x^4 - 12x^2 + 1$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{11}{3} \\ \frac{8}{3} & 3 & \frac{11}{3} \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} + 50x^{10} - 7x^8 + 20x^6 + 7x^4 + 50x^2 - 33$ | $x^{12} - 78x^{10} - 60x^9 + 2415x^8 + 3120x^7 - 37940x^6 - 68640x^5 + 298335x^4 + 725920x^3 - 803358x^2 - 3252780x - 2286141$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{4}{3} & 2 & 3 \\ \frac{4}{3} & 2 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} \frac{19}{6} & \frac{7}{2} \\ \frac{19}{6} & \frac{7}{2} \\ 3 & 2 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} - 30x^{10} - 19x^8 - 28x^6 + 7x^4 - 30x^2 - 21$ | $x^{12} - 4x^{11} - 30x^{10} + 80x^9 + 495x^8 - 360x^7 - 4740x^6 - 3800x^5 + 21019x^4 + 41332x^3 - 17698x^2 - 100288x - 67069$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{10}{3} \\ 3 & \frac{10}{3} & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} - x^8 + 4x^6 + 3x^4 - 1$ | $x^{12} - 4x^{10} - 29x^8 + 220x^6 - 517x^4 + 484x^2 - 121$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ \frac{4}{3} & 3 & \frac{8}{3} \\ 2 & \frac{8}{3} & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1315}{384}$ |
| $x^{12} - 22x^{10} - 31x^8 + 4x^6 - 9x^4 - 54x^2 + 23$ | $x^{12} + 120x^{10} + 1800x^8 + 9300x^6 + 8100x^4 - 81000x^2 - 202500$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ \frac{4}{3} & 3 & \frac{8}{3} \\ 2 & \frac{8}{3} & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 4x^{10} - 5x^8 - 4x^6 - x^4 - 1$ | $x^{12} + 20x^{10} + 163x^8 + 652x^6 + 1215x^4 + 792x^2 - 121$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{11}{3} \\ 3 & \frac{11}{3} & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{41}{12}$ |
| $x^{12} + 2x^{10} - 3x^8 - x^4 - 2x^2 - 1$ | $x^{12} - 4x^9 - 20x^8 - 48x^7 - 60x^6 - 64x^5 - 60x^4 - 48x^3 - 24x^2 - 8x - 2$ | $\left[\begin{array}{ccc} 2 & 3 & 7 \\ 3 & 7 & 2 \end{array} \right]_3^2$ | T: 12,14 | $\frac{17}{6}$ |
| $x^{12} - 6x^{10} - 55x^8 + 4x^6 + 39x^4 + 58x^2 + 15$ | $x^{12} - 4x^{11} + 8x^{10} + 92x^9 + 42x^8 + 696x^7 + 888x^6 - 784x^5 - 568x^4 + 2472x^3 + 1876x^2 - 1080x - 998$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{10}{3} \\ 3 & \frac{10}{3} & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 34x^{10} - 55x^8 + 20x^6 - 9x^4 + 34x^2 + 31$ | $x^{12} - 18x^{10} + 45x^8 + 480x^6 - 513x^4 + 162x^2 - 9$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 2x^{10} - 31x^8 - 12x^6 - 41x^4 + 34x^2 + 39$ | $x^{12} - 6x^{10} - 12x^9 + 5x^8 + 48x^7 + 68x^6 + 8x^5 - 107x^4 - 176x^3 - 146x^2 - 68x - 13$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 10 \\ & & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} + 4x^{10} + 3x^8 - 4x^6 - x^4 + 7$ | $x^{12} - 2x^8 + 4x^4 - 4$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 11 \\ & & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{41}{12}$ |
| $x^{12} + 10x^{10} - 19x^8 + 4x^6 + 7x^4 - 6x^2 - 21$ | $x^{12} - 8x^{10} - 28x^9 - 16x^8 + 64x^7 + 344x^6 + 976x^5 + 2166x^4 + 3232x^3 + 3304x^2 + 2040x + 686$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 10 \\ & & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} + x^8 + 3x^4 + 5$ | $x^{12} - 3x^8 + 11x^4 - 11$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 11 \\ & & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{41}{12}$ |
| $x^{12} - 22x^{10} + 29x^8 - 12x^6 - 17x^4 + 26x^2 - 13$ | $x^{12} - 10x^{10} + 33x^8 - 40x^6 + 71x^4 - 22x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 8 & 3 \\ & & 10 \\ & & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 4x^{10} + 3x^8 + 8x^6 - x^4 - 1$ | $x^{12} + 4x^{10} - 71x^8 - 744x^6 - 3079x^4 - 6336x^2 - 5929$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 8 & 3 \\ & & 11 \\ & & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 4x^{10} + x^8 + 8x^6 - x^4 - 4x^2 - 3$ | $x^{12} - 60x^{10} + 1125x^8 - 4320x^6 - 56457x^4 + 255636x^2 + 26973$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{11}{3} & \\ & & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{41}{12}$ |
| $x^{12} - x^8 + 4x^6 - x^4 + 8x^2 + 7$ | $x^{12} - 60x^{10} + 1395x^8 - 15900x^6 + 89775x^4 - 202500x^2 - 5625$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1315}{384}$ |
| $x^{12} + 4x^{10} + x^8 + x^4 + 4x^2 + 3$ | $x^{12} - 12x^{10} + 57x^8 - 136x^6 + 165x^4 - 84x^2 + 3$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{11}{3} & \\ & & 3 \end{array} \right]_3^2$ | T: 12,61 | $\frac{10}{3}$ |
| $x^{12} + 4x^{10} + 3x^8 + 8x^6 - x^4 + 7$ | $x^{12} - 4x^{10} - 71x^8 + 744x^6 - 3079x^4 + 6336x^2 - 5929$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{8}{3} & 3 \\ & & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| $x^{12} - 4x^{10} + 5x^8 + 8x^6 + 3x^4 + 8x^2 - 3$ | $x^{12} - 4x^{11} - 178x^{10} - 292x^9 + 10350x^8 + 65472x^7 + 19572x^6 - 1099456x^5 - 3778954x^4 - 725680x^3 + 21011040x^2 + 45157080x + 30228170$ | $\left[\begin{array}{ccc} 8 & \frac{8}{3} & 3 \\ & \frac{11}{3} & \\ & & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} - 22x^{10} + x^8 - 12x^6 - 9x^4 - 6x^2 - 25$ | $x^{12} - 6x^{10} + 5x^8 + 24x^6 - 41x^4 + 30x^2 - 9$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{19}{6} & 3 \\ & & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,134 | $\frac{619}{192}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 8x^{10} - 7x^8 - 4x^6 - x^4 + 4x^2 - 7$ | $x^{12} - 8x^{10} + 37x^8 - 60x^6 + 39x^4 - 12x^2 + 1$ | $\left[2 \frac{8}{3} \frac{8}{3} \frac{11}{3} \right]_3^2$ | T: 12,60 | $\frac{10}{3}$ |
| $x^{12} + 4x^{10} + 3x^8 + 4x^6 - x^4 - 1$ | $x^{12} - 110x^8 + 4356x^4 - 58564$ | $\left[2 \frac{8}{3} \frac{8}{3} 3 \frac{11}{3} \right]_3^2$ | T: 12,92 | $\frac{41}{12}$ |
| $x^{12} - 4x^{10} + x^8 + 8x^6 - x^4 + 5$ | $x^{12} + 36x^{10} - 21x^8 - 640x^6 - 1095x^4 - 480x^2 + 5$ | $\left[\frac{8}{3} \frac{8}{3} 3 \frac{11}{3} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} + 7x^8 - 4x^6 + 7x^4 + 8x^2 - 1$ | $x^{12} + 48x^{10} + 810x^8 + 5880x^6 + 18900x^4 + 16200x^2 - 22500$ | $\left[\frac{4}{3} \frac{4}{3} 2 \frac{8}{3} 3 \frac{11}{3} \right]_3^2$ | T: 12,189 | $\frac{1315}{384}$ |
| $x^{12} - 62x^{10} - 23x^8 + 52x^6 + 55x^4 - 62x^2 + 31$ | $x^{12} - 40x^{10} - 132x^9 + 408x^8 + 3520x^7 + 5412x^6 - 17512x^5 - 87114x^4 - 160688x^3 - 155560x^2 - 77528x - 15578$ | $\left[2 \frac{8}{3} \frac{8}{3} 3 \frac{10}{3} \frac{7}{2} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} - 14x^{10} + 61x^8 + 4x^6 + 31x^4 - 30x^2 + 19$ | $x^{12} + 6x^{10} + 21x^8 + 44x^6 + 47x^4 + 22x^2 + 11$ | $\left[\frac{4}{3} \frac{4}{3} 2 3 \frac{19}{6} \right]_3^2$ | T: 12,134 | $\frac{619}{192}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 3x^8 + 4x^6 + 3x^4 + 4x^2 - 1$ | $x^{12} - 48x^{10} + 927x^8 - 8316x^6 + 27459x^4 + 72900x^2 - 455625$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{11}{3} \right]_3^2$ | T: 12,92 | $\frac{41}{12}$ |
| $x^{12} + 210x^{10} - 155x^8 + 4x^6 - 161x^4 - 158x^2 - 149$ | $x^{12} + 16x^{10} + 72x^8 + 88x^6 + 880x^4 + 4320x^2 - 720$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{7}{2} \right]_3^2$ | T: 12,142 | $\frac{595}{192}$ |
| $x^{12} - 246x^{10} - 235x^8 - 12x^6 + 31x^4 - 230x^2 - 69$ | $x^{12} - 84x^{10} - 180x^9 + 2124x^8 + 8160x^7 - 10680x^6 - 79560x^5 + 6900x^4 + 550400x^3 + 1094400x^2 + 842400x + 228150$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{7}{2} \right]_3^2$ | T: 12,142 | $\frac{595}{192}$ |
| $x^{12} + 42x^{10} - 47x^8 - 44x^6 + 39x^4 + 26x^2 + 55$ | $x^{12} - 30x^{10} + 297x^8 - 3180x^6 + 7911x^4 + 1890x^2 - 225$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{10}{3} \frac{7}{2} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 4x^{10} - x^8 + 4x^6 + 3x^4 + 4x^2 + 3$ | $x^{12} + 4x^{10} + 14x^8 + 40x^6 + 80x^4 + 88x^2 + 44$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{11}{3} \right]_3^2$ | T: 12,189 | $\frac{1315}{384}$ |
| $x^{12} + 4x^{10} + 3x^8 + 8x^6 - 5x^4 - 1$ | $x^{12} + 48x^{10} - 603x^8 + 2424x^6 - 4131x^4 + 2700x^2 - 225$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{11}{4} \frac{11}{3} \right]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 30x^{10} + 5x^8 - 28x^6 + 31x^4 - 14x^2 - 21$ | $x^{12} + 10x^{10} + 69x^8 + 220x^6 + 495x^4 + 242x^2 + 539$ | $\begin{bmatrix} 4 & 4 & 2 & 3 \\ 3 & 3 & 6 & 6 \end{bmatrix} \begin{matrix} 19 \\ 7 \\ 2 \end{matrix} \Bigg]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 4x^{10} + 3x^8 - 4x^6 - x^4 + 8x^2 + 3$ | $x^{12} + 66x^8 + 968x^4 + 5324$ | $\begin{bmatrix} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{bmatrix} \begin{matrix} 11 \\ 11 \\ 3 \end{matrix} \Bigg]_3^2$ | T: 12,92 | $\frac{41}{12}$ |
| $x^{12} - 86x^{10} - 7x^8 + 100x^6 - 9x^4 + 106x^2 + 79$ | $x^{12} - 30x^{10} - 180x^9 - 3x^8 + 4320x^7 + 10664x^6 - 39600x^5 - 249069x^4 - 511680x^3 - 481746x^2 - 183780x - 23891$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix} \begin{matrix} 7 \\ 7 \\ 2 \end{matrix} \Bigg]_3^2$ | T: 12,142 | $\frac{595}{192}$ |
| $x^{12} - 4x^{10} + 3x^8 - 4x^6 - 5x^4 + 4x^2 - 5$ | $x^{12} + 8x^{10} + 17x^8 + 4x^6 - 19x^4 + 11$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix} \begin{matrix} 11 \\ 11 \\ 3 \end{matrix} \Bigg]_3^2$ | T: 12,189 | $\frac{1315}{384}$ |
| $x^{12} + 4x^{10} - x^8 - x^4 + 4x^2 + 3$ | $x^{12} + 12x^{10} + 55x^8 + 120x^6 + 127x^4 + 60x^2 + 11$ | $\begin{bmatrix} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{bmatrix} \begin{matrix} 11 \\ 11 \\ 3 \end{matrix} \Bigg]_3^2$ | T: 12,61 | $\frac{10}{3}$ |
| $x^{12} + 4x^{10} + 3x^8 + 4x^6 + 3x^4 + 4x^2 + 3$ | $x^{12} - 4x^{10} + 11x^8 - 36x^6 + 59x^4 - 44x^2 + 11$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix} \begin{matrix} 11 \\ 11 \\ 3 \end{matrix} \Bigg]_3^2$ | T: 12,189 | $\frac{1315}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 4x^{10} - 3x^8 - x^4 - 3$ | $x^{12} - 22x^8 + 80x^6 - 136x^4 + 120x^2 - 44$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} + 186x^{10} + 209x^8 - 156x^6 + 327x^4 - 422x^2 - 505$ | $x^{12} - 144x^{10} - 360x^8 + 7020x^6 + 17280x^4 - 89424x^2 - 248004$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{583}{192}$ |
| $x^{12} + 16x^{10} + 12x^8 + 20x^6 - 12x^4 - 24x^2 + 12$ | $x^{12} - 6x^{10} + 21x^8 - 72x^6 + 147x^4 - 162x^2 + 75$ | $\left[\begin{array}{ccc} 2 & 3 & 7 \\ 2 & 2 & 3 \end{array} \right]_3^2$ | T: 12,14 | $\frac{17}{6}$ |
| $x^{12} + x^8 + 4x^6 - x^4 + 4x^2 + 1$ | $x^{12} + 8x^{10} + 37x^8 + 60x^6 + 39x^4 + 12x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,60 | $\frac{10}{3}$ |
| $x^{12} + 466x^{10} - 315x^8 + 644x^6 - 129x^4 - 94x^2 + 1003$ | $x^{12} + 6x^{10} + 21x^8 + 72x^6 + 147x^4 + 162x^2 + 75$ | $\left[\begin{array}{ccc} 2 & 3 & 7 \\ 2 & 3 & 2 \end{array} \right]_3^2$ | T: 12,14 | $\frac{17}{6}$ |
| $x^{12} + 8x^{10} + 3x^8 + 4x^6 + 3x^4 + 8x^2 + 7$ | $x^{12} - 450x^8 + 5200x^6 - 18900x^4 + 15000x^2 - 2500$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1315}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 6x^{10} - 7x^8 + 4x^6 + 7x^4 - 6x^2 + 15$ | $x^{12} - 12x^{10} - 60x^9 - 594x^8 + 480x^7 + 10004x^6 - 9000x^5 - 80274x^4 + 214800x^3 + 1256760x^2 + 1795080x + 828394$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{10}{3} \quad 3 \quad \frac{10}{3} \quad \frac{7}{2} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 18x^{10} + 29x^8 - 12x^6 + 23x^4 - 30x^2 - 21$ | $x^{12} + 6x^{10} + 9x^8 - 8x^6 + 15x^4 - 6x^2 + 3$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{10}{3} \quad \frac{7}{2} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} + x^8 + 3x^4 - 3$ | $x^{12} - 3x^8 + 3x^4 - 3$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{11}{3} \right]_3^2$ | T: 12,89 | $\frac{41}{12}$ |
| $x^{12} - 4x^{10} - 3x^8 + 4x^6 - x^4 + 8x^2 + 1$ | $x^{12} - 10x^8 - 44x^4 + 484$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{11}{3} \right]_3^2$ | T: 12,60 | $\frac{10}{3}$ |
| $x^{12} - 4x^{10} - 7x^8 + 4x^6 + x^4 - 5$ | $x^{12} + 12x^{10} + 57x^8 + 92x^6 + 69x^4 + 24x^2 + 3$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{11}{3} \right]_3^2$ | T: 12,92 | $\frac{41}{12}$ |
| $x^{12} + 34x^{10} + x^8 + 20x^6 + 23x^4 + 34x^2 - 57$ | $x^{12} - 12x^{10} - 12x^9 + 68x^8 + 96x^7 - 144x^6 - 336x^5 + 106x^4 + 1280x^3 - 1864x^2 + 1024x - 206$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{10}{3} \quad \frac{7}{2} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 26x^{10} - 63x^8 + 4x^6 - 41x^4 + 58x^2 + 23$ | $x^{12} + 90x^{10} + 2385x^8 + 15300x^6 - 20025x^4 + 20250x^2 - 5625$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{10}{3} \quad \frac{10}{3} \quad \frac{7}{2} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 4x^{10} + 7x^8 - 4x^6 + 3x^4 + 3$ | $x^{12} - 6x^8 + 48x^4 + 12$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{11}{3} \right]_3^2$ | T: 12,92 | $\frac{41}{12}$ |
| $x^{12} + 74x^{10} + 9x^8 - 28x^6 + 119x^4 - 118x^2 - 1$ | $x^{12} - 12x^{10} + 36x^8 + 116x^6 - 648x^4 + 528x^2 - 196$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{7}{3} \quad 3 \quad \frac{7}{3} \quad 3 \quad \frac{7}{2} \right]_3^2$ | T: 12,142 | $\frac{583}{192}$ |
| $x^{12} - 4x^{10} + 5x^8 + 4x^6 - x^4 - 3$ | $x^{12} - 10x^8 + 36x^4 - 44$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{2}{3} \quad \frac{8}{3} \quad \frac{8}{3} \quad \frac{11}{3} \right]_3^2$ | T: 12,89 | $\frac{161}{48}$ |
| $x^{12} + 34x^{10} + 49x^8 - 60x^6 - 9x^4 + 18x^2 - 9$ | $x^{12} - 16x^{10} + 60x^8 + 60x^6 - 180x^4 - 216x^2 - 324$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad 3 \quad \frac{19}{6} \quad \frac{19}{6} \quad \frac{7}{2} \right]_3^2$ | T: 12,134 | $\frac{619}{192}$ |
| $x^{12} + 4x^{10} + 7x^8 + 8x^6 + 3x^4 - 1$ | $x^{12} - 20x^{10} + 166x^8 - 704x^6 + 1452x^4 - 968x^2 - 484$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad \frac{11}{4} \quad \frac{11}{3} \right]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| $x^{12} + 8x^{10} + 5x^8 + 4x^6 + 7x^4 + 8x^2 - 3$ | $x^{12} + 8x^{10} + 29x^8 + 60x^6 + 63x^4 + 16x^2 - 11$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad \frac{11}{3} \right]_3^2$ | T: 12,55 | $\frac{10}{3}$ |
| $x^{12} - 38x^{10} + 25x^8 + 36x^6 + 39x^4 + 26x^2 + 15$ | $x^{12} - 6x^{10} - 171x^8 - 600x^6 - 945x^4 + 1350x^2 - 225$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{10}{3} \quad \frac{10}{3} \quad \frac{7}{2} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 46x^{10} + 37x^8 - 60x^6 - x^4 - 30x^2 + 11$ | $x^{12} + 18x^{10} + 153x^8 + 888x^6 + 2799x^4 + 5526x^2 + 147$ | $\left[\begin{array}{ccc} 4 & 2 & 7 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{583}{192}$ |
| $x^{12} - 6x^{10} + 13x^8 + 4x^6 + 15x^4 - 6x^2 - 29$ | $x^{12} + 14x^{10} + 37x^8 - 132x^6 + 143x^4 - 66x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 54x^{10} - 95x^8 + 4x^6 - 121x^4 - 86x^2 - 73$ | $x^{12} - 78x^{10} - 180x^9 + 1365x^8 + 1440x^7 - 12284x^6 + 8640x^5 + 36501x^4 - 92400x^3 + 91434x^2 - 39780x + 6811$ | $\left[\begin{array}{ccc} 4 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{595}{192}$ |
| $x^{12} - 6x^{10} + 57x^8 - 92x^6 - 105x^4 + 90x^2 - 81$ | $x^{12} + 2x^{10} - 12x^9 + 9x^8 - 16x^7 + 44x^6 - 56x^5 + 61x^4 - 80x^3 + 74x^2 - 36x + 7$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,51 | $\frac{37}{12}$ |
| $x^{12} - 6x^{10} + 33x^8 + 4x^6 + 39x^4 + 122x^2 - 41$ | $x^{12} - 12x^{10} + 72x^8 - 444x^6 - 148x^4 - 24x^2 - 4$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,51 | $\frac{37}{12}$ |
| $x^{12} + 4x^{10} + 3x^8 - 5x^4 + 4x^2 + 7$ | $x^{12} - 36x^{10} + 549x^8 - 4536x^6 + 14661x^4 + 26244x^2 - 210681$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{161}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} + 2x^{10} - 19x^8 - 28x^6 - 9x^4 + 2x^2 - 5$ | $x^{12} + 6x^{10} + 21x^8 + 44x^6 + 39x^4 + 6x^2 + 3$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & 3 & \frac{10}{3} \\ & \frac{8}{3} & 3 & \frac{10}{3} \\ & & 3 & \frac{10}{3} \\ & & & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} + 18x^{10} - 31x^8 - 12x^6 + 31x^4 - 30x^2 - 17$ | $x^{12} - 54x^{10} + 1089x^8 - 9600x^6 + 43875x^4 - 101250x^2 - 50625$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & 3 & \frac{10}{3} \\ & \frac{8}{3} & 3 & \frac{10}{3} \\ & & 3 & \frac{10}{3} \\ & & & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} - 6x^{10} - 23x^8 + 4x^6 - 25x^4 + 26x^2 - 1$ | $x^{12} - 30x^{10} + 153x^8 + 1428x^6 - 2889x^4 - 25758x^2 - 33489$ | $\left[\begin{array}{cccc} \frac{4}{3} & \frac{4}{3} & 2 & \frac{8}{3} \\ & \frac{4}{3} & \frac{8}{3} & 3 \\ & & \frac{8}{3} & 3 \\ & & & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 4x^{10} - x^8 - 4x^6 + 3x^4 + 4x^2 + 3$ | $x^{12} + 20x^{10} + 166x^8 + 792x^6 + 2464x^4 + 4840x^2 + 5324$ | $\left[\begin{array}{cccc} \frac{4}{3} & \frac{4}{3} & 2 & \frac{8}{3} \\ & \frac{4}{3} & \frac{8}{3} & 3 \\ & & \frac{8}{3} & 3 \\ & & & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1315}{384}$ |
| $x^{12} + 3x^8 + 4x^6 + x^4 + 1$ | $x^{12} - 15x^8 - 12x^6 + 27x^4 + 81$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & 3 & \frac{11}{3} \\ & \frac{8}{3} & 3 & \frac{11}{3} \\ & & 3 & \frac{11}{3} \\ & & & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{10}{3}$ |
| $x^{12} - 114x^{10} + 125x^8 - 84x^6 + 127x^4 - 82x^2 - 77$ | $x^{12} - 2x^{10} - 4x^9 + 3x^8 + 16x^7 + 24x^6 + 48x^5 + 127x^4 + 208x^3 + 190x^2 + 92x + 19$ | $\left[\begin{array}{cccc} \frac{4}{3} & \frac{4}{3} & 2 & \frac{8}{3} \\ & \frac{4}{3} & \frac{8}{3} & 3 \\ & & \frac{8}{3} & 3 \\ & & & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 3x^8 - 4x^6 - x^4 - 1$ | $x^{12} + 12x^{10} + 65x^8 + 20x^6 - 359x^4 + 396x^2 - 121$ | $\left[\begin{array}{cccc} \frac{4}{3} & \frac{4}{3} & 2 & \frac{8}{3} \\ & \frac{4}{3} & \frac{8}{3} & 3 \\ & & \frac{8}{3} & 3 \\ & & & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1315}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-------------------|
| $x^{12} + 4x^{10} - 7x^8 + 7x^4 + 4x^2 + 5$ | $x^{12} + 36x^{10} - 351x^8 - 7560x^6 + 69255x^4 - 150660x^2 + 26973$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{11}{3} & \\ & & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{41}{12}$ |
| $x^{12} - 62x^{10} + 449x^8 + 52x^6 + 455x^4 - 478x^2 + 215$ | $x^{12} - 12x^{10} - 36x^9 + 132x^8 + 288x^7 - 592x^6 - 1368x^5 + 1932x^4 + 2208x^3 - 1776x^2 - 3960x + 4450$ | $\left[\begin{array}{ccc} 4 & 2 & \frac{7}{3} \\ \frac{4}{3} & \frac{7}{3} & 3 \\ & \frac{11}{3} & \\ & & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{583}{192}$ |
| $x^{12} - 4x^{10} - 7x^8 - 4x^6 - 5x^4 + 8x^2 + 5$ | $x^{12} - 14x^8 + 44x^4 - 44$ | $\left[\begin{array}{ccc} 2 & 2 & \frac{8}{3} \\ & \frac{8}{3} & \frac{11}{3} \\ & & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{161}{48}$ |
| $x^{12} - 118x^{10} - 83x^8 + 84x^6 + 207x^4 - 198x^2 + 211$ | $x^{12} - 24x^{10} - 108x^9 + 156x^8 + 2016x^7 + 408x^6 - 15192x^5 - 24336x^4 + 104544x^3 + 27504x^2 - 150408x - 79602$ | $\left[\begin{array}{ccc} 4 & 2 & \frac{8}{3} \\ \frac{4}{3} & \frac{8}{3} & 3 \\ & \frac{7}{2} & \\ & & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{595}{192}$ |
| $x^{12} + 2x^{10} - 15x^8 - 12x^6 - x^4 - 14x^2 - 1$ | $x^{12} - 36x^{10} - 156x^8 + 5460x^6 - 41100x^4 + 99000x^2 - 122500$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & \frac{10}{3} \\ & & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 30x^{10} + x^8 + 4x^6 + 7x^4 - 14x^2 - 25$ | $x^{12} - 18x^{10} - 60x^9 + 435x^8 + 240x^7 - 800x^6 - 6480x^5 + 25335x^4 - 108720x^3 + 238542x^2 + 220260x + 21319$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{10}{3} \quad 3 \quad \frac{7}{2} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 4x^{10} - 5x^8 - 4x^6 - x^4 + 4x^2 - 5$ | $x^{12} + 4x^{10} + 226x^8 + 576x^6 + 584x^4 + 264x^2 + 44$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{11}{3} \right]_3^2$ | T: 12,189 | $\frac{1315}{384}$ |
| $x^{12} + x^8 + 3x^4 + 4x^2 + 1$ | $x^{12} + 12x^{10} + 54x^8 + 80x^6 + 60x^4 + 24x^2 + 4$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \quad 3 \quad \frac{11}{3} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} - 4x^{10} - 7x^8 + 4x^6 - x^4 - 4x^2 + 1$ | $x^{12} - 12x^{10} + 95x^8 - 332x^6 + 521x^4 - 396x^2 + 121$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad 3 \quad \frac{11}{3} \right]_3^2$ | T: 12,55 | $\frac{10}{3}$ |
| $x^{12} - 16x^{10} + 16x^8 - 12x^6 + 32x^2 + 28$ | $x^{12} + 4x^{10} - 28x^9 + 24x^8 - 80x^7 + 292x^6 - 416x^5 + 548x^4 - 848x^3 + 704x^2 - 232x + 14$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad 3 \quad \frac{7}{2} \right]_3^2$ | T: 12,14 | $\frac{17}{6}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 3x^8 + 4x^6 + 3x^4 - 1$ | $x^{12} - 60x^{10} - 2025x^8 - 17700x^6 - 42525x^4 + 13500x^2 - 140625$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,189 | $\frac{1315}{384}$ |
| $x^{12} - 6x^{10} + 57x^8 + 196x^6 + 87x^4 + 314x^2 + 303$ | $x^{12} - 4x^{11} + 10x^{10} + 80x^9 - 705x^8 + 2152x^7 - 3984x^6 + 5296x^5 - 4603x^4 + 3548x^3 - 2874x^2 + 488x - 799$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 7 & 7 & 2 \\ 2 & 2 & 3 \end{array} \right]^2_3$ | T: 12,51 | $\frac{139}{48}$ |
| $x^{12} + 3x^8 + 4x^6 - 5x^4 - 4x^2 + 7$ | $x^{12} + 36x^{10} - 531x^8 + 2916x^6 - 9963x^4 + 23328x^2 - 729$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,92 | $\frac{41}{12}$ |
| $x^{12} - 18x^{10} + 45x^8 - 52x^6 - x^4 - 18x^2 + 3$ | $x^{12} - 2x^{10} + x^8 - 16x^6 + 23x^4 - 22x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 8x^{10} - 7x^8 + 3x^4 + 8x^2 + 1$ | $x^{12} + 3x^8 + 9x^4 + 9$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,89 | $\frac{41}{12}$ |
| $x^{12} - 4x^{10} + 5x^8 + 8x^6 - x^4 - 3$ | $x^{12} - 24x^{10} + 242x^8 - 1232x^6 + 2904x^4 - 968x^2 - 5324$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} + 4x^{10} - x^8 - x^4 + 4x^2 - 1$ | $x^{12} - 36x^{10} + 594x^8 - 5616x^6 + 28836x^4 - 66096x^2 - 72900$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3$ | T: 12,92 | $\frac{161}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{12} - 6x^{10} - 31x^8 - 12x^6 + 7x^4 + 10x^2 - 9$ | $x^{12} + 6x^{10} - 15x^8 - 100x^6 - 105x^4 + 6x^2 - 9$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 2 & 3 & 3 \\ 3 & 6 & 6 \\ 3 & 2 & 2 \end{array} \left[\begin{array}{ccc} 19 & 7 & 7 \\ 6 & 2 & 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{619}{192}$ |
| $x^{12} - 6x^{10} + 53x^8 - 44x^6 + 31x^4 + 10x^2 + 59$ | $x^{12} - 6x^{10} + 45x^8 - 176x^6 + 275x^4 - 154x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 2 & 3 & 3 \\ 3 & 6 & 6 \\ 3 & 2 & 2 \end{array} \left[\begin{array}{ccc} 19 & 7 & 7 \\ 6 & 2 & 2 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 26x^{10} - 63x^8 - 60x^6 + 39x^4 - 6x^2 + 55$ | $x^{12} - 6x^{10} + x^8 + 36x^6 - 49x^4 + 10x^2 - 1$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 10 & 10 \\ 3 & 3 & 3 \\ 3 & 2 & 2 \end{array} \left[\begin{array}{ccc} 7 & 7 & 7 \\ 2 & 2 & 2 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} + 2x^{10} - 151x^8 - 44x^6 - 233x^4 + 66x^2 + 255$ | $x^{12} + 18x^{10} + 1449x^8 - 7308x^6 + 27351x^4 + 73170x^2 - 65025$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 2 & 7 & 3 \\ 3 & 3 & 3 \\ 3 & 2 & 2 \end{array} \left[\begin{array}{ccc} 7 & 7 & 7 \\ 2 & 2 & 2 \end{array} \right]_3^2$ | T: 12,142 | $\frac{583}{192}$ |
| $x^{12} + 50x^{10} + 25x^8 - 44x^6 + 63x^4 - 62x^2 + 55$ | $x^{12} - 18x^{10} - 1575x^8 + 7200x^6 - 1258605x^4 + 10697562x^2 - 40182921$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 10 & 10 \\ 3 & 3 & 3 \\ 3 & 2 & 2 \end{array} \left[\begin{array}{ccc} 7 & 7 & 7 \\ 2 & 2 & 2 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} - 6x^{10} - 7x^8 - 12x^6 - 9x^4 + 10x^2 + 15$ | $x^{12} - 6x^{10} + 9x^8 + 16x^6 - 45x^4 + 102x^2 - 49$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 2 & 3 & 3 \\ 3 & 6 & 6 \\ 3 & 2 & 2 \end{array} \left[\begin{array}{ccc} 19 & 7 & 7 \\ 6 & 2 & 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{619}{192}$ |
| $x^{12} - 6x^{10} - 7x^8 + 4x^6 - 9x^4 - 6x^2 - 17$ | $x^{12} + 36x^{10} + 504x^8 + 3060x^6 + 900x^4 - 5400x^2 - 44100$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 2 & 3 & 3 \\ 3 & 6 & 6 \\ 3 & 2 & 2 \end{array} \left[\begin{array}{ccc} 19 & 7 & 7 \\ 6 & 2 & 2 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} - 134x^{10} + 245x^8 - 12x^6 - 33x^4 - 150x^2 + 91$ | $x^{12} - 4x^{11} + 4x^{10} + 4x^9 + 130x^8 + 112x^7 + 364x^6 + 936x^5 + 590x^4 - 176x^3 - 220x^2 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 7 & 7 \\ 2 & 2 & 2 \end{array} \right]_3^2$ | T: 12,51 | $\frac{139}{48}$ |
| $x^{12} - 14x^{10} - 11x^8 - 28x^6 + 31x^4 + 2x^2 + 11$ | $x^{12} + 14x^{10} - 28x^9 + 91x^8 - 256x^7 + 520x^6 - 1008x^5 + 1469x^4 - 1504x^3 + 1046x^2 - 372x + 49$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 74x^{10} + 117x^8 - 4x^6 + 111x^4 + 22x^2 + 107$ | $x^{12} + 14x^{10} + 49x^8 - 88x^6 - 561x^4 + 242x^2 + 1331$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 3x^8 + 4x^6 + 3x^4 + 4x^2 + 1$ | $x^{12} + 24x^{10} + 165x^8 + 220x^6 - 165x^4 - 220x^2 + 121$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,60 | $\frac{10}{3}$ |
| $x^{12} + 50x^{10} + 49x^8 - 60x^6 + 55x^4 - 62x^2 - 9$ | $x^{12} + 16x^{10} + 60x^8 - 60x^6 - 180x^4 + 216x^2 - 324$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 7 \\ 6 & 6 & 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{619}{192}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{12} + 10x^{10} - 7x^8 + 4x^6 + 15x^4 - 6x^2 + 7$ | $x^{12} + 12x^{10} - 180x^9 - 300x^8 - 3704x^6 - 13320x^5 + 1446x^4 + 42240x^3 + 11424x^2 - 99720x - 101174$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 10 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 2 & 7 & 2 \\ 3 & 2 & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} + 402x^{10} + 205x^8 + 484x^6 - 241x^4 + 386x^2 + 243$ | $x^{12} - 18x^{10} + 117x^8 - 264x^6 - 189x^4 + 810x^2 + 1323$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 2 & 7 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 2 & 7 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{583}{192}$ |
| $x^{12} - 3x^8 + 4x^6 - x^4 - 3$ | $x^{12} + 8x^{10} + 11x^8 - 132x^6 - 847x^4 - 1936x^2 - 1331$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 11 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 2 & 7 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{10}{3}$ |
| $x^{12} + 10x^{10} + 5x^8 - 12x^6 + 7x^4 + 10x^2 - 13$ | $x^{12} - 6x^{10} + 21x^8 - 44x^6 + 39x^4 - 6x^2 + 3$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 10 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 2 & 7 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} + 10x^{10} - 19x^8 - 12x^6 + 15x^4 + 26x^2 - 13$ | $x^{12} - 2x^{10} + 9x^8 - 8x^6 + 15x^4 - 22x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 2 & 3 & 3 \\ 3 & 6 & 6 \end{array} \left[\begin{array}{ccc} 2 & 7 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{619}{192}$ |
| $x^{12} - 14x^{10} + 5x^8 - 12x^6 - 9x^4 + 2x^2 + 3$ | $x^{12} - 6x^{10} + 13x^8 - 12x^6 + 7x^4 - 6x^2 + 11$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 10 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 2 & 7 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-------------------|
| $x^{12} - 46x^{10} + 61x^8 - 60x^6 - 49x^4 + 34x^2 - 29$ | $x^{12} + 6x^{10} + 45x^8 + 176x^6 + 275x^4 + 154x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} - 4x^{10} + x^8 + 4x^6 + 3x^4 + 8x^2 - 3$ | $x^{12} + 6x^8 + 48x^4 - 12$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ & 3 & 3 \\ & & 11 \\ & & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{161}{48}$ |
| $x^{12} - 3x^8 + x^4 - 1$ | $x^{12} - 12x^8 - 24x^4 - 16$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ & 3 & 3 \\ & & 11 \\ & & 3 \end{array} \right]_3^2$ | T: 12,61 | $\frac{10}{3}$ |
| $x^{12} - 46x^{10} + 13x^8 + 52x^6 - 41x^4 + 34x^2 + 59$ | $x^{12} + 10x^{10} + 225x^8 - 80x^6 - 665x^4 - 210x^2 - 45$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ & 3 & 3 \\ & & 10 \\ & & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} + 8x^{10} + 5x^8 - 7x^4 + 8x^2 + 7$ | $x^{12} + 3x^8 + 3x^4 - 1$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ & 3 & 3 \\ & & 11 \\ & & 3 \end{array} \right]_3^2$ | T: 12,61 | $\frac{10}{3}$ |
| $x^{12} - 6x^{10} + 21x^8 + 20x^6 + 7x^4 - 6x^2 - 29$ | $x^{12} - 10x^{10} - 35x^8 + 540x^6 - 3585x^4 - 810x^2 - 45$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ & 3 & 3 \\ & & 10 \\ & & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} + 5x^8 + 4x^6 - 5x^4 + 8x^2 + 5$ | $x^{12} + 120x^{10} + 3510x^8 + 35600x^6 + 81900x^4 - 235000x^2 + 112500$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ & 3 & 3 \\ & & 11 \\ & & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{10}{3}$ |
| $x^{12} - 62x^{10} - 55x^8 - 12x^6 + 63x^4 - 46x^2 - 57$ | $x^{12} - 72x^{10} + 2196x^8 - 39780x^6 + 437400x^4 - 2052000x^2 - 2722500$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ & 3 & 3 \\ & & 10 \\ & & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} + 3x^8 + 8x^6 - 7x^4 + 4x^2 + 1$ | $x^{12} - 12x^{10} + 66x^8 - 240x^6 + 540x^4 - 648x^2 + 324$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{11}{3}$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} - 4x^{10} - 5x^8 + 4x^6 + 7x^4 + 8x^2 + 3$ | $x^{12} + 10x^8 + 36x^4 + 44$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{11}{3}$ | T: 12,92 | $\frac{41}{12}$ |
| $x^{12} - 14x^{10} - 11x^8 + 20x^6 - 9x^4 - 30x^2 + 19$ | $x^{12} + 10x^{10} + 77x^8 + 308x^6 + 847x^4 + 1210x^2 + 1331$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{10}{3} \frac{7}{2}$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} - 3x^8 + 4x^6 - 5x^4 - 4x^2 - 3$ | $x^{12} + 48x^{10} + 369x^8 - 756x^6 - 11421x^4 - 14580x^2 + 26973$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right] \frac{11}{3}$ | T: 12,89 | $\frac{161}{48}$ |
| $x^{12} + 4x^{10} + x^8 + 4x^6 + 3x^4 + 4x^2 + 1$ | $x^{12} + 3x^8 + 4x^6 + 21x^4 + 1$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{11}{3}$ | T: 12,31 | $\frac{79}{24}$ |
| $x^{12} + 4x^{10} - x^8 + 4x^6 + x^4 - 4x^2 - 3$ | $x^{12} - 12x^{10} + 39x^8 - 172x^6 - 207x^4 - 36x^2 - 3$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{11}{3}$ | T: 12,31 | $\frac{79}{24}$ |
| $x^{12} + 3x^8 - 4x^6 - 5x^4 + 7$ | $x^{12} - 24x^{10} + 270x^8 + 480x^6 - 8100x^4 - 27000x^2 - 22500$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \frac{8}{3} \frac{8}{3} \frac{11}{3}$ | T: 12,189 | $\frac{1315}{384}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{12} + 4x^{10} - x^8 + 4x^6 + 3x^4 + 3$ | $x^{12} + 14x^8 + 44x^4 + 44$ | $\left[2 \frac{8}{3} \frac{8}{3} \frac{11}{3} \frac{11}{3} \right]_3^2$ | T: 12,92 | $\frac{41}{12}$ |
| $x^{12} - 30x^{10} - 11x^8 - 12x^6 - x^4 - 30x^2 - 5$ | $x^{12} + 18x^{10} + 117x^8 + 324x^6 + 335x^4 + 66x^2 + 11$ | $\left[\frac{4}{3} \frac{4}{3} \frac{2}{3} \frac{19}{6} \frac{19}{6} \frac{7}{2} \frac{7}{2} \right]_3^2$ | T: 12,134 | $\frac{619}{192}$ |
| $x^{12} + 10x^{10} + 13x^8 - 12x^6 + 7x^4 + 10x^2 + 11$ | $x^{12} - 2x^{10} + x^8 + 8x^6 + 15x^4 - 30x^2 + 11$ | $\left[2 \frac{8}{3} \frac{8}{3} \frac{10}{3} \frac{10}{3} \frac{7}{2} \frac{7}{2} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} + 114x^{10} + 37x^8 - 124x^6 - 33x^4 - 62x^2 - 85$ | $x^{12} - 18x^{10} - 36x^9 + 85x^8 + 432x^7 + 492x^6 - 744x^5 - 3237x^4 - 5040x^3 - 4410x^2 - 2196x - 531$ | $\left[\frac{4}{3} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{7}{2} \frac{7}{2} \right]_3^2$ | T: 12,142 | $\frac{595}{192}$ |
| $x^{12} - 14x^{10} + 17x^8 - 12x^6 - 17x^4 - 30x^2 - 17$ | $x^{12} + 72x^{10} - 180x^9 + 1980x^8 - 1440x^7 + 12516x^6 + 34560x^5 + 19656x^4 + 285840x^3 + 372924x^2 + 702000x + 914346$ | $\left[2 \frac{8}{3} \frac{8}{3} \frac{10}{3} \frac{10}{3} \frac{7}{2} \frac{7}{2} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 114x^{10} + 129x^8 - 44x^6 + 103x^4 + 82x^2 - 9$ | $x^{12} - 24x^{10} - 116x^9 + 300x^8 - 528x^7 + 2012x^6 + 432x^5 - 5376x^4 - 4840x^3 - 2520x^2 - 600x - 50$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3 \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 7 \\ 2 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \right]_3$ | T: 12,142 | $\frac{595}{192}$ |
| $x^{12} + 4x^{10} + 3x^8 - x^4 - 1$ | $x^{12} - 4x^{10} + 14x^8 - 16x^6 - 44x^4 - 24x^2 - 4$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3 \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 11 \\ 4 \end{array} \begin{array}{c} 11 \\ 3 \end{array} \begin{array}{c} 11 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \right]_3$ | T: 12,189 | $\frac{1303}{384}$ |
| $x^{12} - 118x^{10} - 43x^8 + 84x^6 - 97x^4 + 58x^2 - 69$ | $x^{12} - 12x^{10} + 60x^8 - 140x^6 + 120x^4 + 48x^2 + 12$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 7 \\ 2 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \right]_3$ | T: 12,51 | $\frac{37}{12}$ |
| $x^{12} + 4x^{10} + 5x^8 - 4x^6 + 7x^4 + 8x^2 + 1$ | $x^{12} + 20x^{10} + 153x^8 + 508x^6 + 727x^4 + 352x^2 + 121$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 11 \\ 3 \end{array} \begin{array}{c} 11 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \right]_3$ | T: 12,60 | $\frac{10}{3}$ |
| $x^{12} + 5x^8 + 4x^6 - 5x^4 - 3$ | $x^{12} + 1540x^{10} - 1571185x^8 - 2145705100x^6 + 257496025325x^4 + 28421233648500x^2 + 234475177600125$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 11 \\ 3 \end{array} \begin{array}{c} 11 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \right]_3$ | T: 12,31 | $\frac{79}{24}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-------------------|
| $x^{12} - 54x^{10} - 15x^8 + 4x^6 - 17x^4 - 38x^2 - 49$ | $x^{12} - 42x^{10} - 180x^9 + 105x^8 + 6480x^7 + 25828x^6 - 5760x^5 - 335523x^4 - 1425120x^3 - 3084846x^2 - 3595860x - 2480249$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & 3 & \frac{10}{3} \\ & \frac{8}{3} & 3 & \frac{10}{3} \\ & & 3 & \frac{10}{3} \\ & & & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} + 3x^8 - x^4 + 3$ | $x^{12} - 3x^8 + 5x^4 + 11$ | $\left[\begin{array}{cccc} 2 & 2 & \frac{8}{3} & \frac{11}{3} \\ & 2 & \frac{8}{3} & \frac{11}{3} \\ & & \frac{8}{3} & \frac{11}{3} \\ & & & \frac{11}{3} \end{array} \right]_3^2$ | T: 12,92 | $\frac{161}{48}$ |
| $x^{12} - 30x^{10} + 21x^8 - 28x^6 - x^4 - 14x^2 - 5$ | $x^{12} + 2x^{10} + 9x^8 + 8x^6 + 15x^4 + 22x^2 + 11$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 3 \\ \frac{4}{3} & \frac{4}{3} & 2 & 3 \\ & \frac{4}{3} & 2 & 3 \\ & & 2 & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{619}{192}$ |
| $x^{12} - 14x^{10} + 13x^8 + 4x^6 + 15x^4 + 2x^2 - 13$ | $x^{12} + 20x^{10} + 180x^8 + 500x^6 - 200x^4 - 1920x^2 - 1620$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & \frac{8}{3} \\ \frac{4}{3} & \frac{4}{3} & 2 & \frac{8}{3} \\ & \frac{4}{3} & 2 & \frac{8}{3} \\ & & 2 & \frac{8}{3} \end{array} \right]_3^2$ | T: 12,142 | $\frac{595}{192}$ |
| $x^{12} - 4x^{10} - 7x^8 - 7x^4 - 4x^2 + 3$ | $x^{12} + 12x^{10} + 179x^8 + 792x^6 + 539x^4 + 132x^2 + 11$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & \frac{8}{3} & \frac{11}{3} \\ & \frac{8}{3} & \frac{8}{3} & \frac{11}{3} \\ & & \frac{8}{3} & \frac{11}{3} \\ & & & \frac{11}{3} \end{array} \right]_3^2$ | T: 12,61 | $\frac{10}{3}$ |
| $x^{12} + 3x^8 + x^4 + 4x^2 + 1$ | $x^{12} + 12x^{10} + 57x^8 - 8x^6 - 45x^4 + 9$ | $\left[\begin{array}{cccc} \frac{8}{3} & \frac{8}{3} & 3 & \frac{11}{3} \\ & \frac{8}{3} & 3 & \frac{11}{3} \\ & & 3 & \frac{11}{3} \\ & & & \frac{11}{3} \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} - 4x^{10} + 7x^8 + 8x^6 + 7x^4 - 4x^2 + 7$ | $x^{12} + 36x^{10} + 594x^8 + 5616x^6 + 28836x^4 + 66096x^2 - 72900$ | $\left[\begin{array}{cccc} 2 & 2 & \frac{8}{3} & \frac{11}{3} \\ & 2 & \frac{8}{3} & \frac{11}{3} \\ & & \frac{8}{3} & \frac{11}{3} \\ & & & \frac{11}{3} \end{array} \right]_3^2$ | T: 12,92 | $\frac{161}{48}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 6x^{10} + 29x^8 - 12x^6 + 31x^4 - 22x^2 + 3$ | $x^{12} - 16x^{10} + 64x^8 + 44x^6 - 44x^4 - 2200x^2 + 44$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 10 & 10 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 7 & 7 & 2 \\ 2 & 2 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 8x^{10} + 5x^8 + 4x^6 - 5x^4 - 4x^2 - 7$ | $x^{12} - 24x^{10} + 165x^8 - 220x^6 - 165x^4 + 220x^2 + 121$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,60 | $\frac{10}{3}$ |
| $x^{12} + 4x^{10} - x^8 + 3x^4 - 1$ | $x^{12} + 20x^{10} + 166x^8 + 704x^6 + 1452x^4 + 968x^2 - 484$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 11 & 11 & 3 \\ 4 & 4 & 3 \end{array} \left[\begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| $x^{12} + 3x^8 + 3x^4 + 4x^2 + 3$ | $x^{12} - 18x^8 + 48x^4 - 88x^2 + 44$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 11 & 11 & 3 \\ 4 & 4 & 3 \end{array} \left[\begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| $x^{12} - 14x^{10} + 9x^8 - 28x^6 + 23x^4 + 2x^2 - 17$ | $x^{12} - 12x^{10} + 36x^8 + 4740x^6 + 17820x^4 - 5400x^2 - 900$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 10 & 10 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 7 & 7 & 2 \\ 2 & 2 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 4x^{10} - 3x^8 + 8x^6 + 3x^4 - 3$ | $x^{12} - 2535x^8 - 34000x^6 - 74725x^4 + 42500x^2 + 153125$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} - 3x^8 + 8x^6 + 7x^4 + 8x^2 + 1$ | $x^{12} + 15x^8 + 77x^4 + 121$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{41}{12}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 6x^{10} - 15x^8 + 4x^6 - 9x^4 - 6x^2 + 7$ | $x^{12} - 60x^{10} - 132x^9 + 714x^8 + 1968x^7 - 3896x^6 - 13032x^5 + 6684x^4 + 34848x^3 - 732x^2 - 43872x - 22226$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \right] 2 \frac{8}{3} 3 \frac{8}{3} 3 \frac{10}{3} \frac{10}{3} \frac{7}{2} \left. \vphantom{\left[\begin{array}{c} 4 \\ 3 \end{array} \right]} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - x^8 - x^4 - 1$ | $x^{12} + x^8 + x^4 - 1$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \frac{8}{3} \frac{8}{3} \frac{11}{3} \right]_3^2$ | T: 12,61 | $\frac{10}{3}$ |
| $x^{12} + 4x^{10} - x^8 - 4x^6 + 3x^4 + 8x^2 + 3$ | $x^{12} + 22x^8 - 836x^4 + 5324$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \frac{8}{3} \frac{8}{3} 3 \frac{11}{3} \right]_3^2$ | T: 12,92 | $\frac{41}{12}$ |
| $x^{12} - 7x^8 + 3x^4 + 8x^2 - 7$ | $x^{12} - 3x^8 + 3x^4 + 1$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \frac{8}{3} \frac{8}{3} 3 \frac{11}{3} \right]_3^2$ | T: 12,89 | $\frac{41}{12}$ |
| $x^{12} - 30x^{10} - 7x^8 - 28x^6 + 23x^4 + 18x^2 - 17$ | $x^{12} - 2x^{10} + 25x^8 - 60x^6 - 105x^4 + 198x^2 - 81$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} 2 \frac{3}{3} \frac{19}{6} \frac{19}{6} \frac{7}{2} \right]_3^2$ | T: 12,134 | $\frac{619}{192}$ |
| $x^{12} - 6x^{10} + 33x^8 - 220x^6 - 25x^4 - 166x^2 - 169$ | $x^{12} + 6x^{10} - 60x^9 + 225x^8 + 240x^7 + 1120x^6 + 360x^5 - 165x^4 - 1920x^3 - 2094x^2 - 1500x - 479$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} 2 \frac{3}{3} \frac{19}{6} \frac{19}{6} \frac{7}{2} \right]_3^2$ | T: 12,51 | $\frac{139}{48}$ |
| $x^{12} + 4x^{10} - 5x^8 + 4x^6 + 3x^4 - 4x^2 + 3$ | $x^{12} + 4x^{10} + 11x^8 + 36x^6 + 59x^4 + 44x^2 + 11$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} 2 \frac{8}{3} \frac{8}{3} 3 \frac{11}{3} \right]_3^2$ | T: 12,189 | $\frac{1315}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} - 4x^{10} + 7x^8 + 8x^6 + 7x^4 - 4x^2 + 3$ | $x^{12} - 20x^{10} + 198x^8 - 1232x^6 + 4356x^4 - 7744x^2 + 5324$ | $\left[2 \frac{8}{3} \frac{8}{3} \frac{11}{3} \right]_3^2$ | T: 12,61 | $\frac{10}{3}$ |
| $x^{12} - 4x^{10} + x^8 - 4x^6 - 5x^4 + 8x^2 - 3$ | $x^{12} - 22x^8 - 836x^4 - 5324$ | $\left[2 \frac{2}{3} \frac{8}{3} \frac{11}{3} \right]_3^2$ | T: 12,89 | $\frac{161}{48}$ |
| $x^{12} + 8x^{10} + x^8 + 4x^6 + 7x^4 + 8x^2 + 5$ | $x^{12} - 24x^{10} + 75x^8 + 1100x^6 - 1875x^4 - 12000x^2 + 3125$ | $\left[\frac{8}{3} \frac{11}{3} \right]_3^4$ | T: 12,31 | $\frac{79}{24}$ |
| $x^{12} - 126x^{10} + 157x^8 + 100x^6 + 143x^4 + 146x^2 - 93$ | $x^{12} + 6x^{10} + 77x^8 + 264x^6 + 1331x^4 + 2178x^2 + 1331$ | $\left[\frac{4}{3} \frac{4}{3} \frac{2}{3} \frac{7}{2} \right]_3^2$ | T: 12,51 | $\frac{139}{48}$ |
| $x^{12} + 26x^{10} + 5x^8 - 28x^6 + 31x^4 - 6x^2 - 5$ | $x^{12} - 2x^{10} - 43x^8 - 88x^6 + 11x^4 - 462x^2 + 11$ | $\left[\frac{4}{3} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{10}{3} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 14x^{10} + 193x^8 - 236x^6 + 263x^4 - 46x^2 + 151$ | $x^{12} - 12x^{10} - 36x^9 + 132x^8 - 184x^6 - 1296x^5 + 3930x^4 - 5664x^3 + 4452x^2 - 1512x + 106$ | $\left[\frac{4}{3} \frac{4}{3} \frac{2}{3} \frac{7}{3} \frac{7}{3} \right]_3^2$ | T: 12,142 | $\frac{583}{192}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} - 30x^{10} + 17x^8 + 20x^6 - 9x^4 + 2x^2 - 25$ | $x^{12} + 30x^{10} + 153x^8 - 1428x^6 - 2889x^4 + 25758x^2 - 33489$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right] \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 10 \\ 3 \end{array} \begin{array}{c} 10 \\ 3 \end{array} \begin{array}{c} 7 \\ 2 \end{array} \begin{array}{c} 7 \\ 2 \end{array} \end{array} \Bigg]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 18x^{10} + 17x^8 - 60x^6 + 7x^4 - 62x^2 - 41$ | $x^{12} - 12x^{10} - 20x^9 + 30x^8 + 240x^7 + 520x^6 - 600x^5 - 5760x^4 - 13440x^3 - 15852x^2 - 9720x - 2466$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right] \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 10 \\ 3 \end{array} \begin{array}{c} 10 \\ 3 \end{array} \begin{array}{c} 7 \\ 2 \end{array} \begin{array}{c} 7 \\ 2 \end{array} \end{array} \Bigg]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 54x^{10} - 39x^8 + 4x^6 - 57x^4 - 22x^2 + 31$ | $x^{12} - 14x^{10} - 20x^9 + 61x^8 + 224x^7 + 176x^6 - 448x^5 - 1377x^4 - 1792x^3 - 1454x^2 - 796x - 227$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 10 \\ 3 \end{array} \begin{array}{c} 10 \\ 3 \end{array} \begin{array}{c} 7 \\ 2 \end{array} \begin{array}{c} 7 \\ 2 \end{array} \end{array} \Bigg]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} - 5x^8 + 8x^6 - x^4 + 4x^2 - 5$ | $x^{12} - 12x^{10} + 87x^8 - 240x^6 + 279x^4 - 88x^2 + 11$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right] \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 11 \\ 4 \end{array} \begin{array}{c} 11 \\ 3 \end{array} \begin{array}{c} 11 \\ 3 \end{array} \end{array} \Bigg]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| $x^{12} - 4x^{10} + 7x^8 - 4x^6 - 7x^4 - 4x^2 - 3$ | $x^{12} + 12x^{10} + 54x^8 + 104x^6 + 96x^4 + 24x^2 - 12$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 11 \\ 3 \end{array} \begin{array}{c} 11 \\ 3 \end{array} \end{array} \Bigg]_3^2$ | T: 12,31 | $\frac{79}{24}$ |
| $x^{12} + 4x^{10} + 3x^8 + 4x^6 + 3x^4 - 4x^2 - 5$ | $x^{12} - 8x^{10} + 17x^8 - 4x^6 - 19x^4 + 11$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right] \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 11 \\ 3 \end{array} \begin{array}{c} 11 \\ 3 \end{array} \end{array} \Bigg]_3^2$ | T: 12,189 | $\frac{1315}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} - 7x^8 - 4x^6 - x^4 + 4x^2 + 5$ | $x^{12} + 12x^{10} - 261x^8 - 1404x^6 + 1377x^4 + 17496x^2 + 26973$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 3 & 3 & 3 \end{array} \frac{11}{3} \right]_3^2$ | T: 12,89 | $\frac{161}{48}$ |
| $x^{12} - x^8 + 8x^6 + 7x^4 + 4x^2 - 5$ | $x^{12} - 4x^{10} + 5x^8 + 8x^6 - 27x^4 - 16x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \frac{11}{4} \frac{11}{3} \right]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| $x^{12} + 8x^{10} + 7x^8 + 4x^6 - 5x^4 - 1$ | $x^{12} - 4x^{11} + 26x^{10} - 68x^9 + 224x^8 - 208x^7 + 136x^6 + 936x^5 - 782x^4 + 160x^3 - 8x^2 + 8x - 2$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \frac{8}{3} \frac{11}{3} \right]_3^2$ | T: 12,189 | $\frac{1315}{384}$ |
| $x^{12} - 4x^{10} - 3x^8 - 5x^4 + 4x^2 - 3$ | $x^{12} + 36x^{10} + 423x^8 + 1512x^6 - 8019x^4 - 80676x^2 + 26973$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \frac{11}{3} \right]_3^2$ | T: 12,89 | $\frac{41}{12}$ |
| $x^{12} + 4x^{10} + 3x^8 + 4x^6 - x^4 + 3$ | $x^{12} + 22x^8 + 484x^4 + 5324$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \frac{11}{3} \right]_3^2$ | T: 12,92 | $\frac{41}{12}$ |
| $x^{12} - 150x^{10} - 219x^8 - 76x^6 + 223x^4 - 70x^2 + 43$ | $x^{12} + 18x^{10} + 117x^8 + 264x^6 - 189x^4 - 810x^2 + 1323$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \frac{7}{3} \frac{7}{3} \frac{7}{2} \right]_3^2$ | T: 12,142 | $\frac{583}{192}$ |
| $x^{12} + 34x^{10} + 61x^8 + 52x^6 - x^4 + 2x^2 + 19$ | $x^{12} + 6x^{10} - 11x^8 - 60x^6 + 111x^4 - 66x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \frac{19}{6} \frac{7}{2} \right]_3^2$ | T: 12,134 | $\frac{619}{192}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 30x^{10} - 31x^8 - 12x^6 + 23x^4 + 2x^2 - 9$ | $x^{12} + 6x^{10} - 711x^8 - 8400x^6 - 22005x^4 - 6750x^2 - 5625$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \frac{8}{3} \quad 3 \frac{10}{3} \quad 3 \frac{10}{3} \quad 3 \frac{7}{2} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 8x^{10} - 5x^8 + 7x^4 - 1$ | $x^{12} - 15x^8 + 81x^4 - 121$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \frac{8}{3} \quad 3 \frac{8}{3} \quad 3 \frac{11}{3} \right]_3^2$ | T: 12,61 | $\frac{10}{3}$ |
| $x^{12} + 10x^{10} - 7x^8 - 12x^6 + 15x^4 + 10x^2 + 7$ | $x^{12} + 18x^{10} - 60x^9 + 69x^8 - 240x^7 - 1048x^6 + 15240x^5 - 46719x^4 + 66720x^3 - 59310x^2 + 37260x - 11565$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \frac{8}{3} \quad 3 \frac{8}{3} \quad 3 \frac{10}{3} \quad 3 \frac{7}{2} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} - 4x^{10} + 5x^8 - 4x^6 + 7x^4 + 4x^2 + 1$ | $x^{12} + 4x^{10} + 5x^8 - 12x^6 - 25x^4 + 4x^2 + 49$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \quad 3 \frac{11}{3} \right]_3^2$ | T: 12,31 | $\frac{79}{24}$ |
| $x^{12} + 4x^{10} - x^8 - 4x^6 + 3x^4 - 5$ | $x^{12} + 6x^8 + 12x^4 + 12$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \frac{8}{3} \quad 3 \frac{8}{3} \quad 3 \frac{11}{3} \right]_3^2$ | T: 12,92 | $\frac{41}{12}$ |
| $x^{12} + 4x^{10} - x^8 - x^4 + 8x^2 - 1$ | $x^{12} - 60x^{10} - 630x^8 + 4800x^6 + 18900x^4 - 135000x^2 - 22500$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \frac{8}{3} \quad 3 \frac{11}{4} \quad 3 \frac{11}{3} \right]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| $x^{12} + 74x^{10} + 81x^8 - 124x^6 - 121x^4 - 22x^2 + 71$ | $x^{12} - 120x^{10} + 5160x^8 - 82420x^6 + 558000x^4 - 1242000x^2 - 900$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \frac{7}{3} \quad 3 \frac{7}{2} \right]_3^2$ | T: 12,142 | $\frac{583}{192}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} - 4x^{10} + x^8 + 4x^6 - x^4 - 4x^2 - 7$ | $x^{12} - 4x^{10} - x^8 + 12x^6 + 9x^4 + 4x^2 + 1$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{11}{3} \\ & 3 & 3 \\ & & \frac{11}{3} \end{array} \right]_3^2$ | T: 12,55 | $\frac{10}{3}$ |
| $x^{12} + 50x^{10} - 3x^8 + 36x^6 - 57x^4 + 18x^2 + 27$ | $x^{12} + 2x^{10} + 13x^8 + 100x^6 + 135x^4 + 66x^2 + 11$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & 3 & \frac{10}{3} \\ & & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} - 22x^{10} - 27x^8 + 4x^6 - 9x^4 + 26x^2 - 29$ | $x^{12} + 14x^{10} + 65x^8 + 112x^6 + 31x^4 - 22x^2 + 11$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & 3 & \frac{10}{3} \\ & & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} + x^8 + 4x^6 - x^4 + 4x^2 - 3$ | $x^{12} + 12x^{10} - 117x^8 - 2268x^6 + 4941x^4 + 31104x^2 + 26973$ | $\left[\begin{array}{ccc} 2 & 2 & \frac{8}{3} \\ & 3 & \frac{11}{3} \\ & & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{161}{48}$ |
| $x^{12} + 7x^8 - 5x^4 - 4x^2 + 3$ | $x^{12} - 12x^{10} + 91x^8 - 440x^6 + 1243x^4 - 1936x^2 + 1331$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \\ & 4 & \frac{11}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| $x^{12} - 30x^{10} - 15x^8 + 4x^6 + 7x^4 - 14x^2 - 25$ | $x^{12} - 30x^{10} - 72x^9 + 249x^8 + 1440x^7 + 1508x^6 - 6768x^5 - 29577x^4 - 56928x^3 - 64110x^2 - 41832x - 12593$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \\ & 6 & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,134 | $\frac{619}{192}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 6x^{10} + 45x^8 + 84x^6 + 47x^4 - 54x^2 + 179$ | $x^{12} - 4x^{11} + 6x^{10} + 112x^9 - 721x^8 + 1800x^7 - 2044x^6 + 952x^5 - 2467x^4 + 9644x^3 - 14770x^2 + 10032x - 2527$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{7}{2} \\ 3 & \frac{7}{2} & 3 \end{array} \right]_3^2$ | T: 12,51 | $\frac{37}{12}$ |
| $x^{12} - 3x^8 + 4x^6 - 5x^4 + 8x^2 - 3$ | $x^{12} + 80x^{10} + 1965x^8 + 10300x^6 - 115925x^4 - 128000x^2 + 190125$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{11}{3} \\ \frac{8}{3} & 3 & \frac{11}{3} \\ 3 & \frac{11}{3} & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{10}{3}$ |
| $x^{12} - 22x^{10} - 31x^8 + 20x^6 - 25x^4 + 26x^2 + 39$ | $x^{12} + 66x^{10} + 1449x^8 + 15060x^6 + 73575x^4 + 101250x^2 - 225$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 3 \\ 2 & \frac{8}{3} & 3 \\ \frac{4}{3} & 3 & \frac{10}{3} \\ \frac{10}{3} & 3 & \frac{7}{2} \\ 3 & \frac{7}{2} & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 4x^{10} + 5x^8 - 5x^4 + 4x^2 - 7$ | $x^{12} + 12x^{10} + 51x^8 + 88x^6 + 45x^4 - 12x^2 + 1$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{11}{3} \\ 3 & \frac{11}{3} & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{41}{12}$ |
| $x^{12} + 8x^{10} - 5x^8 + x^4 + 4x^2 + 1$ | $x^{12} - 12x^{10} + 57x^8 + 8x^6 - 45x^4 + 9$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{11}{3} \\ 3 & \frac{11}{3} & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} + 5x^8 - x^4 - 4x^2 + 1$ | $x^{12} - 4x^{10} + x^8 + 8x^6 + 23x^4 + 8x^2 + 1$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{11}{3} \\ 3 & \frac{11}{3} & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} + 2x^{10} + 25x^8 - 28x^6 + 31x^4 + 34x^2 + 23$ | $x^{12} + 36x^{10} - 900x^8 - 19800x^6 + 481680x^4 + 405216x^2 - 1468944$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{10}{3} \\ \frac{8}{3} & \frac{10}{3} & \frac{7}{2} \\ 3 & \frac{7}{2} & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} + 4x^{10} + 7x^8 + 4x^6 - x^4 + 4x^2 + 3$ | $x^{12} - 16x^{10} + 101x^8 - 308x^6 + 457x^4 - 272x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]^2$ | T: 12,189 | $\frac{1315}{384}$ |
| $x^{12} - 14x^{10} - 3x^8 - 12x^6 + 31x^4 + 18x^2 - 29$ | $x^{12} + 14x^{10} + 77x^8 + 240x^6 + 515x^4 + 682x^2 + 539$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 8x^{10} - 3x^8 - 4x^6 - 7x^4 - 4x^2 + 7$ | $x^{12} + 6x^8 - 36$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]^2$ | T: 12,92 | $\frac{41}{12}$ |
| $x^{12} + x^8 + 4x^6 - x^4 - 3$ | $x^{12} + 48x^{10} + 531x^8 + 2380x^6 + 4725x^4 + 3720x^2 + 845$ | $\left[\begin{array}{ccc} 8 & 8 & 11 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]^4$ | T: 12,31 | $\frac{79}{24}$ |
| $x^{12} - 384x^{10} + 208896x^8 - 76857344x^6 + 34603008x^4 - 33554432x^2 - 67108864$ | $x^{12} - 468x^6 - 4$ | $\left[\begin{array}{ccc} 2 & 3 & 7 \\ 3 & 3 & 2 \end{array} \right]^2$ | T: 12,14 | $\frac{17}{6}$ |
| $x^{12} + 8x^{10} - 7x^8 + 8x^6 + 7x^4 + 4x^2 - 7$ | $x^{12} + 16x^{10} + 73x^8 + 248x^6 + 463x^4 + 396x^2 + 121$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]^2$ | T: 12,55 | $\frac{163}{48}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} + 7x^8 - 4x^6 + 7x^4 - 4x^2 - 1$ | $x^{12} - 12x^{10} - 279x^8 - 2484x^6 - 9639x^4 - 21384x^2 - 18225$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{11}{3} \frac{11}{3} \right]_3^2$ | T: 12,92 | $\frac{41}{12}$ |
| $x^{12} + 8x^{10} + 5x^8 - x^4 + 5$ | $x^{12} - 11x^8 - 121x^4 - 1331$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{11}{3} \frac{11}{3} \right]_3^2$ | T: 12,89 | $\frac{41}{12}$ |
| $x^{12} - 3x^8 + 4x^6 + 3x^4 - 3$ | $x^{12} + 18480x^{10} + 104854365x^8 + 126961827300x^6 - 330084418511925x^4 - 84191814419328000x^2 + 28887576355513000125$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{11}{3} \frac{11}{3} \right]_3^4$ | T: 12,31 | $\frac{79}{24}$ |
| $x^{12} - 4x^{10} - x^8 - 5x^4 - 1$ | $x^{12} + 8x^{10} - 6x^8 + 176x^6 - 352x^4 + 968x^2 - 484$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{11}{4} \frac{11}{3} \right]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| $x^{12} - x^8 - 5x^4 + 4x^2 + 3$ | $x^{12} + 4x^{10} + 3x^8 + 3x^4 + 11$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{11}{4} \frac{11}{3} \right]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| $x^{12} - 4x^{10} + 3x^8 + 4x^6 + 7x^4 - 1$ | $x^{12} + 10x^8 - 44x^4 - 484$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{11}{3} \frac{11}{3} \right]_3^2$ | T: 12,92 | $\frac{41}{12}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{12} + 4x^{10} - 3x^8 + 8x^6 + 3x^4 + 4x^2 + 1$ | $x^{12} - 20x^{10} + 187x^8 - 880x^6 + 1265x^4 - 660x^2 + 121$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{4}{3} & 2 & 3 \\ 3 & 3 & 3 \end{array} \right]_3$ | T: 12,89 | $\frac{41}{12}$ |
| $x^{12} + 10x^{10} + 21x^8 - 12x^6 + 47x^4 + 58x^2 - 53$ | $x^{12} - 6x^{10} + 21x^8 - 44x^6 + 47x^4 - 22x^2 + 11$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ 2 & 3 & \frac{19}{6} \\ 3 & \frac{19}{6} & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,134 | $\frac{619}{192}$ |
| $x^{12} + 4x^{10} + x^8 - 4x^6 - 7x^4 - 5$ | $x^{12} - 24x^{10} + 243x^8 - 1276x^6 + 3443x^4 - 3740x^2 + 11$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{4}{3} & 2 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{41}{12}$ |
| $x^{12} + 4x^{10} - 7x^8 - 4x^6 + 7x^4 - 4x^2 - 7$ | $x^{12} + 44x^{10} + 671x^8 + 4356x^6 + 10769x^4 + 5324x^2 + 14641$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{4}{3} & 2 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{10}{3}$ |
| $x^{12} - 4x^{10} - x^8 - x^4 - 4x^2 - 5$ | $x^{12} + 20x^{10} + 198x^8 + 1232x^6 + 4356x^4 + 7744x^2 + 5324$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{4}{3} & 2 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,61 | $\frac{10}{3}$ |
| $x^{12} + 74x^{10} + 57x^8 + 100x^6 - 9x^4 + 74x^2 - 113$ | $x^{12} - 66x^{10} - 180x^9 + 537x^8 + 1440x^7 - 4936x^6 - 13680x^5 + 13605x^4 + 76800x^3 + 45546x^2 - 177300x - 248381$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ 2 & 3 & \frac{8}{3} \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{595}{192}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} - 14x^{10} - 15x^8 - 12x^6 - 9x^4 - 14x^2 + 7$ | $x^{12} + 18x^{10} + 141x^8 + 1000x^6 + 2055x^4 + 750x^2 - 625$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{10}{3} \quad 3 \quad \frac{10}{3} \quad \frac{7}{2} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 4x^{10} - x^8 + x^4 + 8x^2 + 5$ | $x^{12} - 3x^8 + 16x^6 - 21x^4 + 12x^2 - 3$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \quad 3 \quad \frac{11}{3} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} + 4x^{10} + x^8 + 8x^6 - x^4 + 4x^2 - 7$ | $x^{12} - 20x^{10} + 199x^8 - 1408x^6 + 6545x^4 - 15972x^2 + 14641$ | $\left[2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{11}{3} \right]_3^2$ | T: 12,89 | $\frac{41}{12}$ |
| $x^{12} + 5x^8 + 4x^6 - 5x^4 - 4x^2 + 5$ | $x^{12} - 48x^{10} + 369x^8 + 756x^6 - 11421x^4 + 14580x^2 + 26973$ | $\left[2 \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{11}{3} \right]_3^2$ | T: 12,89 | $\frac{161}{48}$ |
| $x^{12} + 50x^{10} - 83x^8 - 124x^6 + 111x^4 + 2x^2 - 13$ | $x^{12} - 2x^{10} + 13x^8 - 12x^6 + 23x^4 - 26x^2 + 11$ | $\left[2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{7}{2} \right]_3^2$ | T: 12,51 | $\frac{37}{12}$ |
| $x^{12} - 22x^{10} + 41x^8 - 28x^6 - 57x^4 - 22x^2 - 33$ | $x^{12} + 6x^{10} - 60x^9 + 135x^8 - 240x^7 + 1220x^6 - 3240x^5 + 4605x^4 - 1200x^3 - 15534x^2 + 25860x - 9299$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{10}{3} \quad 3 \quad \frac{10}{3} \quad \frac{7}{2} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 4x^{10} - 5x^8 - 4x^6 - x^4 + 4x^2 + 3$ | $x^{12} + 8x^{10} + 46x^8 + 296x^6 + 1204x^4 + 440x^2 + 44$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{11}{3} \right]_3^2$ | T: 12,189 | $\frac{1315}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} - 6x^{10} - 3x^8 + 4x^6 - x^4 - 6x^2 + 3$ | $x^{12} + 16x^{10} + 64x^8 - 44x^6 - 44x^4 + 2200x^2 + 44$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 10x^{10} + x^8 + 4x^6 - 9x^4 + 10x^2 + 7$ | $x^{12} + 54x^{10} + 909x^8 + 2880x^6 - 63225x^4 - 573750x^2 - 1404225$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 19 & 19 & 7 \\ 6 & 6 & 2 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 3x^8 + 4x^6 + x^4 + 8x^2 - 7$ | $x^{12} - 15x^8 + 12x^6 + 27x^4 + 81$ | $\left[\begin{array}{ccc} 8 & 8 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2 \begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,31 | $\frac{79}{24}$ |
| $x^{12} - x^8 + 3x^4 + 3$ | $x^{12} + 3x^8 + 3x^4 + 3$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{161}{48}$ |
| $x^{12} + x^8 - x^4 + 1$ | $x^{12} - x^8 + x^4 + 1$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{41}{12}$ |
| $x^{12} - 22x^{10} + 21x^8 + 20x^6 + 15x^4 - 6x^2 - 21$ | $x^{12} - 2x^{10} + x^8 + 264x^6 + 407x^4 - 902x^2 + 539$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 19 & 19 & 7 \\ 6 & 6 & 2 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} - 6x^{10} + 29x^8 + 4x^6 + 15x^4 - 6x^2 + 19$ | $x^{12} - 14x^{10} + 37x^8 + 132x^6 + 143x^4 + 66x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 6x^{10} + 5x^8 + 4x^6 - 17x^4 + 26x^2 - 21$ | $x^{12} + 2x^{10} + 21x^8 + 20x^6 + 111x^4 + 66x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 8x^{10} - 3x^8 - 4x^6 - x^4 + 8x^2 + 5$ | $x^{12} - 8x^{10} + 29x^8 - 60x^6 + 63x^4 - 16x^2 - 11$ | $\left[\begin{array}{ccc} 8 & 11 & \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,31 | $\frac{79}{24}$ |
| $x^{12} + 74x^{10} + 121x^8 + 68x^6 + 87x^4 - 86x^2 - 81$ | $x^{12} - 6x^{10} + 9x^8 + 32x^6 + 27x^4 + 6x^2 - 1$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,51 | $\frac{37}{12}$ |
| $x^{12} + 66x^{10} + 37x^8 + 36x^6 - 65x^4 - 46x^2 + 75$ | $x^{12} + 18x^{10} + 81x^8 + 192x^6 + 423x^4 + 414x^2 + 147$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{583}{192}$ |
| $x^{12} + 10x^{10} - 23x^8 - 12x^6 + 31x^4 + 42x^2 + 7$ | $x^{12} - 54x^{10} + 1197x^8 - 13056x^6 + 68391x^4 - 144450x^2 - 81225$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} + 118x^{10} - 11x^8 - 52x^6 + 95x^4 + 102x^2 - 37$ | $x^{12} - 42x^{10} - 60x^9 + 547x^8 + 1552x^7 - 1000x^6 - 9400x^5 - 15855x^4 - 12960x^3 - 5714x^2 - 1332x - 139$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 4x^{10} - 3x^8 + 4x^6 - x^4 + 1$ | $x^{12} + 110x^8 + 4356x^4 + 58564$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,60 | $\frac{10}{3}$ |
| $x^{12} + 30x^{10} - 3x^8 - 4x^6 - 49x^4 + 46x^2 + 3$ | $x^{12} + 6x^{10} + 5x^8 - 20x^6 - 17x^4 + 22x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} - 54x^{10} - 31x^8 - 28x^6 - 9x^4 + 42x^2 + 39$ | $x^{12} - 54x^{10} + 909x^8 - 2880x^6 - 63225x^4 + 573750x^2 - 1404225$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 19 & 6 \\ & 7 & 2 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} - 4x^{10} - x^8 + 4x^6 - 5x^4 - 4x^2 + 3$ | $x^{12} - 20x^{10} + 166x^8 - 792x^6 + 2464x^4 - 4840x^2 + 5324$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 8 & 3 \\ & 3 & 3 \\ & 11 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1315}{384}$ |
| $x^{12} + 10x^{10} - 11x^8 - 12x^6 + 15x^4 - 6x^2 + 11$ | $x^{12} - 2x^{10} + 45x^8 + 44x^6 + 495x^4 + 1694x^2 + 1331$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 19 & 6 \\ & 7 & 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{619}{192}$ |
| $x^{12} - 4x^{10} - 3x^8 + 8x^6 + 3x^4 + 8x^2 + 5$ | $x^{12} - 60x^{10} - 1035x^8 + 11880x^6 - 1921725x^4 - 3645000x^2 + 184528125$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \\ & 11 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} + 2x^{10} + x^8 - 28x^6 - 25x^4 + 18x^2 + 7$ | $x^{12} - 30x^{10} - 735x^8 + 5300x^6 + 44775x^4 + 101250x^2 + 84375$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 8 & 3 \\ & 3 & 3 \\ & 10 & 3 \\ & 7 & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 2x^{10} - 51x^8 - 60x^6 - 49x^4 - 14x^2 + 51$ | $x^{12} + 18x^{10} + 117x^8 + 384x^6 + 891x^4 + 1134x^2 + 675$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 7 & 3 \\ & 3 & 3 \\ & 7 & 2 \end{array} \right]_3^2$ | T: 12,142 | $\frac{583}{192}$ |
| $x^{12} - 4x^{10} - 7x^8 + 8x^6 + x^4 - 4x^2 + 3$ | $x^{12} + 12x^{10} + 57x^8 + 136x^6 + 165x^4 + 84x^2 + 3$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 8 & 3 \\ & 11 & 3 \end{array} \right]_3^2$ | T: 12,61 | $\frac{10}{3}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 4x^{10} + x^8 - 4x^6 + 7x^4 - 4x^2 - 7$ | $x^{12} + 12x^{10} + 95x^8 + 332x^6 + 521x^4 + 396x^2 + 121$ | $\left[\begin{array}{ccc} 8 & 8 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,31 | $\frac{79}{24}$ |
| $x^{12} + 10x^{10} + x^8 + 20x^6 - 17x^4 + 10x^2 - 1$ | $x^{12} - 78x^{10} - 180x^9 + 1653x^8 + 8640x^7 + 8716x^6 - 71280x^5 - 439905x^4 - 1309200x^3 - 2316786x^2 - 2292300x - 955751$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 10 & 7 \\ 3 & 2 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} - 222x^{10} - 7x^8 - 236x^6 - 137x^4 + 226x^2 + 207$ | $x^{12} - 38x^{10} - 60x^9 + 325x^8 + 960x^7 + 1320x^6 + 4200x^5 + 12045x^4 + 18000x^3 + 14382x^2 + 5940x + 999$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 7 \\ 2 & 2 \end{array} \right]_3^2$ | T: 12,51 | $\frac{139}{48}$ |
| $x^{12} - 14x^{10} + 21x^8 + 20x^6 + 7x^4 - 30x^2 - 29$ | $x^{12} - 22x^{10} - 12x^9 + 285x^8 + 816x^7 - 52x^6 - 5088x^5 - 12287x^4 - 11520x^3 - 450x^2 + 6228x + 2979$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 10 & 7 \\ 3 & 2 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} - 5x^8 - 4x^6 - 5x^4 - 1$ | $x^{12} - 450x^8 - 5200x^6 - 18900x^4 - 15000x^2 - 2500$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 \\ 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1315}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 2x^{10} + 25x^8 + 4x^6 - 9x^4 - 14x^2 - 1$ | $x^{12} + 6x^{10} - 60x^9 + 135x^8 - 240x^7 - 220x^6 - 4320x^5 - 13575x^4 + 25440x^3 + 218826x^2 + 71580x - 1514999$ | $\left[\begin{array}{ccccccc} 4 & 4 & 2 & 8 & 8 & 10 & 7 \\ 3 & 3 & 3 & 3 & 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 14x^{10} - 3x^8 - 28x^6 + 31x^4 + 2x^2 + 19$ | $x^{12} + 2x^{10} + 45x^8 - 44x^6 + 495x^4 - 1694x^2 + 1331$ | $\left[\begin{array}{ccccccc} 4 & 4 & 2 & 3 & 19 & 7 \\ 3 & 3 & 3 & 6 & 6 & 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{619}{192}$ |
| $x^{12} - 7x^8 + 8x^6 - 5x^4 - 3$ | $x^{12} - 9x^8 + 21x^4 - 3$ | $\left[\begin{array}{ccccccc} 2 & 8 & 8 & 3 & 11 & 11 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{41}{12}$ |
| $x^{12} - 46x^{10} + 5x^8 - 12x^6 - x^4 - 46x^2 - 37$ | $x^{12} - 4x^{11} - 22x^{10} + 152x^9 + 245x^8 - 5352x^7 + 24916x^6 - 65344x^5 + 111539x^4 - 128780x^3 + 99230x^2 - 47296x + 10861$ | $\left[\begin{array}{ccccccc} 4 & 4 & 2 & 8 & 8 & 10 & 7 \\ 3 & 3 & 3 & 3 & 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 7x^8 + 3x^4 - 3$ | $x^{12} - 11x^8 + 275x^4 - 1331$ | $\left[\begin{array}{ccccccc} 2 & 8 & 8 & 3 & 11 & 11 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{41}{12}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 3x^8 + 4x^6 - 5x^4 + 5$ | $x^{12} - 14763210x^8 - 15522122000x^6 - 256617199300x^4 + 690229960035000x^2 + 45957134809624500$ | $\left[\begin{matrix} 8 & 8 & 11 \\ 3 & 3 & 3 \end{matrix} \right]_3^4$ | T: 12,31 | $\frac{79}{24}$ |
| $x^{12} + 4x^{10} + 5x^8 - 4x^6 + 7x^4 + 8x^2 - 3$ | $x^{12} - 66x^8 + 968x^4 - 5324$ | $\left[\begin{matrix} 2 & 2 & 8 \\ 2 & 3 & 3 \end{matrix} \right]_3^2$ | T: 12,89 | $\frac{161}{48}$ |
| $x^{12} + 8x^{10} - x^8 - 4x^6 + 7x^4 - 4x^2 - 5$ | $x^{12} + 24x^{10} + 231x^8 + 1100x^6 + 2783x^4 + 3388x^2 + 1331$ | $\left[\begin{matrix} 2 & 8 & 8 \\ 3 & 3 & 3 \end{matrix} \right]_3^2$ | T: 12,92 | $\frac{41}{12}$ |
| $x^{12} + 8x^{10} - 7x^8 + 4x^6 + 7x^4 - 4x^2 + 5$ | $x^{12} - 12x^{10} - 117x^8 + 2268x^6 + 4941x^4 - 31104x^2 + 26973$ | $\left[\begin{matrix} 2 & 2 & 8 \\ 2 & 3 & 3 \end{matrix} \right]_3^2$ | T: 12,89 | $\frac{161}{48}$ |
| $x^{12} + 8x^{10} - x^8 + 4x^6 - 5x^4 + 8x^2 - 1$ | $x^{12} - 12x^{10} + 69x^8 - 220x^6 + 429x^4 - 484x^2 - 121$ | $\left[\begin{matrix} 4 & 4 & 2 \\ 3 & 3 & 3 \end{matrix} \right]_3^2$ | T: 12,189 | $\frac{1315}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} - 22x^{10} + 57x^8 + 36x^6 + 39x^4 - 54x^2 + 63$ | $x^{12} + 150x^{10} - 180x^9 + 6675x^8 - 16560x^7 + 68840x^6 - 203400x^5 + 61125x^4 + 326400x^3 - 20550x^2 - 182700x - 61475$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} - 30x^{10} - 7x^8 + 20x^6 + 7x^4 - 30x^2 + 15$ | $x^{12} + 48x^{10} + 864x^8 + 4620x^6 - 2700x^4 - 16200x^2 - 8100$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 22x^{10} + 9x^8 - 12x^6 + 23x^4 + 26x^2 - 17$ | $x^{12} - 72x^{10} - 60x^9 + 1806x^8 + 1440x^7 - 21060x^6 - 3600x^5 + 126270x^4 - 86640x^3 - 300960x^2 + 470520x - 156630$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 8x^{10} + x^8 - x^4 + 4x^2 + 1$ | $x^{12} - 16x^{10} + 73x^8 - 248x^6 + 463x^4 - 396x^2 + 121$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \\ & 11 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} - 246x^{10} - 159x^8 - 220x^6 + 231x^4 + 138x^2 - 41$ | $x^{12} + 8x^{10} + 8x^8 - 44x^6 - 32x^4 - 352x^2 - 4$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \\ & 7 & 2 \end{array} \right]_3^2$ | T: 12,51 | $\frac{37}{12}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 3x^8 + 7x^4 + 4x^2 + 3$ | $x^{12} + 12x^{10} + 87x^8 + 240x^6 + 279x^4 + 88x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 11 \\ 3 & 3 & 4 \end{array} \begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| $x^{12} - 7x^8 + 4x^6 + 7x^4 + 8x^2 + 5$ | $x^{12} + 12x^{10} - 174x^8 - 200x^6 + 2280x^4 + 3240x^2 + 20$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{10}{3}$ |
| $x^{12} + 42x^{10} - 11x^8 - 44x^6 - 33x^4 + 26x^2 - 5$ | $x^{12} - 4x^{11} - 16x^{10} + 132x^9 - 632x^8 + 3560x^7 - 14256x^6 + 33952x^5 - 48344x^4 + 41240x^3 - 20448x^2 + 5440x - 578$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 19 & 19 \\ 6 & 6 & 6 \end{array} \begin{array}{ccc} 7 & 7 & 7 \\ 2 & 2 & 2 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 4x^{10} + x^8 + 4x^6 + 3x^4 - 3$ | $x^{12} - 6x^8 + 12x^4 - 12$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{161}{48}$ |
| $x^{12} - 3x^8 - 4x^6 + 3x^4 + 5$ | $x^{12} + 140x^{10} + 1465x^8 - 14100x^6 - 11925x^4 + 13500x^2 + 10125$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{10}{3}$ |
| $x^{12} + 58x^{10} + 93x^8 + 52x^6 - 49x^4 + 42x^2 - 29$ | $x^{12} - 18x^{10} + 81x^8 - 192x^6 + 423x^4 - 414x^2 + 147$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 7 & 7 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 7 & 7 \\ 2 & 2 & 2 \end{array} \right]_3^2$ | T: 12,142 | $\frac{583}{192}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 18x^{10} + 29x^8 + 4x^6 - 9x^4 + 18x^2 + 11$ | $x^{12} + 10x^{10} - 35x^8 - 540x^6 - 3585x^4 + 810x^2 - 45$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{4}{3} & 2 & \frac{8}{3} \\ \frac{4}{3} & \frac{4}{3} & 2 \end{array} \right]_3$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} + 2x^{10} + x^8 - 12x^6 - 9x^4 + 2x^2 - 9$ | $x^{12} + 6x^{10} - 171x^8 + 600x^6 - 945x^4 - 1350x^2 - 225$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{4}{3} & 2 & \frac{8}{3} \\ \frac{4}{3} & \frac{4}{3} & 2 \end{array} \right]_3$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 3x^8 - 4x^6 - 7x^4 + 8x^2 - 7$ | $x^{12} + 12x^{10} + 66x^8 + 232x^6 + 432x^4 + 216x^2 + 36$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{4}{3} & 2 & \frac{8}{3} \\ \frac{4}{3} & \frac{4}{3} & 2 \end{array} \right]_3$ | T: 12,55 | $\frac{10}{3}$ |
| $x^{12} - 4x^{10} - 7x^8 + 7x^4 + 4x^2 - 7$ | $x^{12} - 12x^{10} + 53x^8 - 104x^6 + 87x^4 - 28x^2 + 1$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{4}{3} & 2 & \frac{8}{3} \\ \frac{4}{3} & \frac{4}{3} & 2 \end{array} \right]_3$ | T: 12,89 | $\frac{41}{12}$ |
| $x^{12} + 8x^{10} + 3x^8 + 4x^6 + x^4 + 8x^2 + 1$ | $x^{12} - 12x^{10} + 21x^8 + 92x^6 + 51x^4 + 12x^2 + 1$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{4}{3} & 2 & \frac{8}{3} \\ \frac{4}{3} & \frac{4}{3} & 2 \end{array} \right]_3$ | T: 12,55 | $\frac{10}{3}$ |
| $x^{12} + 3x^8 - 4x^6 + 3x^4 - 4x^2 + 7$ | $x^{12} - 36x^{10} - 531x^8 - 2916x^6 - 9963x^4 - 23328x^2 - 729$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{4}{3} & 2 & \frac{8}{3} \\ \frac{4}{3} & \frac{4}{3} & 2 \end{array} \right]_3$ | T: 12,92 | $\frac{41}{12}$ |
| $x^{12} - 5x^8 + 8x^6 - 5x^4 - 4x^2 + 3$ | $x^{12} + 16x^{10} + 83x^8 + 152x^6 + 115x^4 + 44x^2 + 11$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{4}{3} & 2 & \frac{8}{3} \\ \frac{4}{3} & \frac{4}{3} & 2 \end{array} \right]_3$ | T: 12,189 | $\frac{1303}{384}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} - 30x^{10} + 17x^8 - 28x^6 - 25x^4 - 14x^2 - 9$ | $x^{12} + 30x^{10} + 225x^8 - 600x^6 - 15525x^4 - 60750x^2 - 50625$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 58x^{10} + 37x^8 - 44x^6 + 31x^4 + 10x^2 - 21$ | $x^{12} - 18x^{10} + 117x^8 - 384x^6 + 891x^4 - 1134x^2 + 675$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 7 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{583}{192}$ |
| $x^{12} - 38x^{10} - 59x^8 + 52x^6 - 41x^4 - 6x^2 + 35$ | $x^{12} + 22x^{10} + 253x^8 + 1452x^6 + 2783x^4 + 2662x^2 + 1331$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} - 22x^{10} + 85x^8 + 116x^6 + 31x^4 + 58x^2 - 5$ | $x^{12} - 20x^{10} + 180x^8 - 500x^6 - 200x^4 + 1920x^2 - 1620$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 7 & 2 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,142 | $\frac{595}{192}$ |
| $x^{12} + 8x^{10} - 3x^8 + 4x^6 + x^4 - 4x^2 + 7$ | $x^{12} + 6x^8 + 12x^4 - 4$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{41}{12}$ |
| $x^{12} + 98x^{10} - 79x^8 - 44x^6 + 103x^4 + 98x^2 + 71$ | $x^{12} - 10x^{10} - 4x^9 + 33x^8 + 48x^7 + 20x^6 - 200x^5 - 771x^4 - 1232x^3 - 922x^2 - 316x - 41$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 7 & 2 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,51 | $\frac{37}{12}$ |
| $x^{12} - 5x^8 + 8x^6 - x^4 + 8x^2 + 3$ | $x^{12} - 11x^8 + 121x^4 + 1331$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{161}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{12} - 30x^{10} + 17x^8 - 12x^6 + 7x^4 + 2x^2 - 25$ | $x^{12} + 18x^{10} - 495x^8 - 1980x^6 + 19575x^4 + 36450x^2 + 84375$ | $\begin{bmatrix} 4 & 4 & 2 & 3 \\ 3 & 3 & 3 & 6 \end{bmatrix} \begin{bmatrix} 19 & 19 \\ 6 & 6 \end{bmatrix} \begin{bmatrix} 7 \\ 2 \end{bmatrix}^2_3$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + x^8 - x^4 + 4x^2 - 7$ | $x^{12} + 16x^{10} + 103x^8 + 352x^6 + 605x^4 + 484x^2 + 121$ | $\begin{bmatrix} 8 & 8 \\ 3 & 3 \end{bmatrix} \begin{bmatrix} 8 & 3 \\ 3 & 3 \end{bmatrix} \begin{bmatrix} 11 & 11 \\ 3 & 3 \end{bmatrix}^2_3$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} - 7x^8 - 4x^6 - x^4 + 8x^2 + 5$ | $x^{12} - 12x^{10} - 174x^8 + 200x^6 + 2280x^4 - 3240x^2 + 20$ | $\begin{bmatrix} 8 & 8 \\ 3 & 3 \end{bmatrix} \begin{bmatrix} 11 & 11 \\ 3 & 3 \end{bmatrix}^4_3$ | T: 12,31 | $\frac{79}{24}$ |
| $x^{12} + 4x^{10} - 3x^8 + 4x^6 - x^4 + 4x^2 + 1$ | $x^{12} - 16x^{10} + 97x^8 - 308x^6 + 847x^4 - 2904x^2 + 5929$ | $\begin{bmatrix} 8 & 8 \\ 3 & 3 \end{bmatrix} \begin{bmatrix} 11 & 11 \\ 3 & 3 \end{bmatrix}^2_3$ | T: 12,31 | $\frac{79}{24}$ |
| $x^{12} + 50x^{10} + 53x^8 + 4x^6 + 47x^4 - 30x^2 - 21$ | $x^{12} - 4x^{10} - 44x^9 + 70x^8 + 176x^7 + 572x^6 - 4488x^5 + 9328x^4 - 13552x^3 + 21120x^2 - 23320x + 10538$ | $\begin{bmatrix} 4 & 4 & 2 & 3 \\ 3 & 3 & 3 & 6 \end{bmatrix} \begin{bmatrix} 19 & 19 \\ 6 & 6 \end{bmatrix} \begin{bmatrix} 7 \\ 2 \end{bmatrix}^2_3$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} - 4x^{10} - 7x^8 - 4x^6 + 3x^4 + 4x^2 + 1$ | $x^{12} - 24x^{10} + 285x^8 - 1196x^6 + 1635x^4 - 24x^2 + 1$ | $\begin{bmatrix} 8 & 8 \\ 3 & 3 \end{bmatrix} \begin{bmatrix} 11 & 11 \\ 3 & 3 \end{bmatrix}^2_3$ | T: 12,31 | $\frac{79}{24}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} + 26x^{10} + 5x^8 + 4x^6 - 17x^4 + 26x^2 - 5$ | $x^{12} + 4x^{10} - 12x^8 + 100x^6 + 240x^4 + 176x^2 + 44$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 19 & 6 \\ & 6 & 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{619}{192}$ |
| $x^{12} + 4x^{10} + 3x^8 + 4x^6 - x^4 + 4x^2 + 3$ | $x^{12} - 4x^{10} + 226x^8 - 576x^6 + 584x^4 - 264x^2 + 44$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 2 & 3 \\ & 8 & 3 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1315}{384}$ |
| $x^{12} - x^8 - x^4 + 4x^2 - 5$ | $x^{12} - 8x^{10} + 23x^8 - 48x^6 + 55x^4 - 36x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 2 & 3 \\ & 8 & 3 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| $x^{12} + 8x^{10} - 5x^8 + 3x^4 + 4x^2 + 3$ | $x^{12} - 16x^{10} + 83x^8 - 152x^6 + 115x^4 - 44x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 2 & 3 \\ & 8 & 3 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| $x^{12} - 3x^8 + 4x^6 + x^4 + 4x^2 - 1$ | $x^{12} - 22x^8 + 176x^4 - 484$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \\ & 11 & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{41}{12}$ |
| $x^{12} + 4x^{10} + 3x^8 + 3x^4 - 1$ | $x^{12} - 48x^{10} + 846x^8 - 6960x^6 + 25920x^4 - 27000x^2 - 22500$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 2 & 3 \\ & 8 & 3 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| $x^{12} - 6x^{10} - 19x^8 - 12x^6 - 9x^4 + 26x^2 - 5$ | $x^{12} - 18x^{10} + 117x^8 - 324x^6 + 327x^4 - 18x^2 + 3$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \\ & 10 & 3 \\ & 3 & 2 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{12} - 30x^{10} - 15x^8 + 36x^6 + 7x^4 + 18x^2 - 25$ | $x^{12} - 96x^9 + 144x^8 - 216x^7 + 2388x^6 - 6912x^5 + 5184x^4 + 1152x^3 - 1296x^2 - 432x - 36$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 19 & 19 \\ 6 & 6 & 6 \end{array} \left[\begin{array}{c} 2 \\ 7 \\ 2 \end{array} \right]_3$ | T: 12,134 | $\frac{619}{192}$ |
| $x^{12} + 4x^{10} - 3x^8 + 3x^4 + 4x^2 + 1$ | $x^{12} - 12x^{10} + 51x^8 - 88x^6 + 45x^4 + 12x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 11 & 11 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{c} 2 \\ 11 \\ 3 \end{array} \right]_3$ | T: 12,89 | $\frac{41}{12}$ |
| $x^{12} + 106x^{10} + 221x^8 - 236x^6 + 143x^4 + 218x^2 + 163$ | $x^{12} - 18x^{10} + 153x^8 - 888x^6 + 2799x^4 - 5526x^2 + 147$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 7 & 7 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{c} 2 \\ 7 \\ 2 \end{array} \right]_3$ | T: 12,142 | $\frac{583}{192}$ |
| $x^{12} - 14x^{10} + 9x^8 + 20x^6 - 9x^4 + 18x^2 + 31$ | $x^{12} + 18x^{10} + 45x^8 - 480x^6 - 513x^4 - 162x^2 - 9$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 19 & 19 \\ 6 & 6 & 6 \end{array} \left[\begin{array}{c} 2 \\ 7 \\ 2 \end{array} \right]_3$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} - 4x^{10} + 3x^8 - 4x^6 - x^4 + 8x^2 - 5$ | $x^{12} + 6x^8 - 24x^4 + 44$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 11 & 11 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{c} 2 \\ 11 \\ 3 \end{array} \right]_3$ | T: 12,92 | $\frac{41}{12}$ |
| $x^{12} - 6x^{10} + 45x^8 - 60x^6 - 49x^4 + 26x^2 + 19$ | $x^{12} - 10x^{10} + 41x^8 - 80x^6 + 31x^4 - 22x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 19 & 19 \\ 6 & 6 & 6 \end{array} \left[\begin{array}{c} 2 \\ 7 \\ 2 \end{array} \right]_3$ | T: 12,134 | $\frac{619}{192}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 10x^{10} + 21x^8 - 12x^6 + 15x^4 - 6x^2 + 43$ | $x^{12} + 16x^{10} + 108x^8 + 308x^6 - 132x^4 - 2200x^2 + 2156$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 10x^{10} - 31x^8 + 20x^6 - 25x^4 + 26x^2 - 25$ | $x^{12} - 6x^{10} - 1611x^8 + 9120x^6 - 16065x^4 - 4050x^2 - 225$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 8 \\ & & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 14x^{10} - 3x^8 - 12x^6 - 25x^4 + 2x^2 - 5$ | $x^{12} - 4x^{11} - 8x^{10} + 124x^9 - 110x^8 - 1416x^7 + 6260x^6 - 13216x^5 + 17158x^4 - 13888x^3 + 6744x^2 - 1816x + 218$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \\ & 3 & 10 \\ & & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} + 4x^{10} - 7x^8 + 4x^6 - x^4 - 4x^2 - 7$ | $x^{12} + 16x^{10} + 93x^8 + 220x^6 + 143x^4 + 121$ | $\left[\begin{array}{ccc} 8 & 8 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,31 | $\frac{79}{24}$ |
| $x^{12} + 2x^{10} - 27x^8 + 4x^6 - 25x^4 - 30x^2 - 13$ | $x^{12} - 26x^{10} + 157x^8 + 332x^6 + 295x^4 + 70x^2 - 5$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \\ & 3 & 10 \\ & & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} - 6x^{10} + 17x^8 - 28x^6 + 23x^4 - 6x^2 + 7$ | $x^{12} - 42x^{10} - 180x^9 + 531x^8 + 2880x^7 + 9480x^6 + 11880x^5 - 19125x^4 - 81360x^3 - 329130x^2 - 292140x - 963405$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{10}{3} \quad 3 \quad \frac{10}{3} \quad 3 \quad \frac{7}{2} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 10x^{10} - 63x^8 - 28x^6 - 57x^4 + 42x^2 - 41$ | $x^{12} - 4x^{11} + 6x^{10} + 56x^9 + 55x^8 - 112x^7 - 164x^6 + 40x^5 + 39x^4 - 180x^3 - 214x^2 - 88x - 13$ | $\left[2 \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{10}{3} \quad 3 \quad \frac{10}{3} \quad 3 \quad \frac{7}{2} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} - 22x^{10} + 9x^8 + 20x^6 - 57x^4 + 26x^2 - 17$ | $x^{12} - 2x^{10} - 55x^8 - 220x^6 - 345x^4 - 282x^2 - 81$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad 3 \quad \frac{19}{6} \quad 3 \quad \frac{19}{6} \quad 3 \quad \frac{7}{2} \right]_3^2$ | T: 12,134 | $\frac{619}{192}$ |
| $x^{12} - 198x^{10} + 137x^8 - 188x^6 + 55x^4 - 6x^2 + 191$ | $x^{12} - 12x^{10} + 36x^8 - 52x^6 + 360x^4 - 912x^2 - 4$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{7}{3} \quad 3 \quad \frac{7}{3} \quad 3 \quad \frac{7}{2} \right]_3^2$ | T: 12,142 | $\frac{583}{192}$ |
| $x^{12} + 4x^{10} - 3x^8 + 3x^4 - 3$ | $x^{12} + 80x^{10} + 1135x^8 - 2800x^6 - 38175x^4 + 34500x^2 + 6125$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \quad 3 \quad \frac{11}{3} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{12} + x^8 - 4x^6 - x^4 + 4x^2 - 3$ | $x^{12} - 12x^{10} - 261x^8 + 1404x^6 + 1377x^4 - 17496x^2 + 26973$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ & 3 & 3 \\ & & 3 \end{array} \frac{11}{3} \right]_3^2$ | T: 12,89 | $\frac{161}{48}$ |
| $x^{12} + 26x^{10} - 11x^8 - 28x^6 + 7x^4 + 10x^2 + 3$ | $x^{12} - 10x^{10} + 225x^8 + 80x^6 - 665x^4 + 210x^2 - 45$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \frac{10}{3} \frac{7}{2} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} - 78x^{10} + 105x^8 + 52x^6 + 87x^4 - 14x^2 - 65$ | $x^{12} + 72x^{10} - 3960x^8 - 80580x^6 - 356400x^4 + 34992x^2 - 2916$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ & 3 & 3 \\ & & 3 \end{array} \frac{7}{3} \frac{7}{3} \right]_3^2$ | T: 12,142 | $\frac{583}{192}$ |
| $x^{12} - 14x^{10} - 15x^8 + 52x^6 - 9x^4 - 46x^2 - 41$ | $x^{12} - 60x^{10} - 180x^9 + 1314x^8 + 5760x^7 - 10824x^6 - 69840x^5 - 2376x^4 + 318240x^3 + 248832x^2 - 500040x - 588366$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ & 3 & 3 \\ & & 3 \end{array} \frac{19}{6} \frac{7}{2} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 34x^{10} - 7x^8 - 76x^6 + 55x^4 + 66x^2 + 79$ | $x^{12} - 4x^{11} + 28x^{10} - 316x^9 + 1266x^8 - 3584x^7 + 22044x^6 - 110784x^5 + 313006x^4 - 530224x^3 + 560836x^2 - 352992x + 102154$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \frac{7}{2} \right]_3^2$ | T: 12,51 | $\frac{37}{12}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 4x^{10} + 5x^8 - 5x^4 + 4x^2 + 5$ | $x^{12} - 40x^{10} - 48x^9 + 491x^8 + 912x^7 - 3324x^6 - 10248x^5 + 27129x^4 + 218640x^3 + 546436x^2 + 638352x + 293665$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{11}{3} \\ 3 & \frac{11}{3} & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{41}{12}$ |
| $x^{12} + 8x^{10} + 3x^8 + 3x^4 + 4x^2 - 5$ | $x^{12} - 18x^8 + 48x^4 + 88x^2 + 44$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{4}{3} & \frac{8}{3} & \frac{11}{4} \\ \frac{2}{3} & \frac{11}{3} & \frac{11}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| $x^{12} - 30x^{10} - 27x^8 + 4x^6 + 31x^4 - 14x^2 + 27$ | $x^{12} + 36x^8 - 44x^6 + 192x^4 - 176x^2 + 44$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{4}{3} & \frac{8}{3} & 3 \\ \frac{2}{3} & 3 & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 34x^{10} + 57x^8 - 60x^6 - 41x^4 + 50x^2 - 17$ | $x^{12} + 12x^{10} + 60x^8 + 20x^6 - 48x^2 - 36$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{4}{3} & 2 & 3 \\ \frac{2}{3} & 3 & \frac{19}{6} \end{array} \right]_3^2$ | T: 12,134 | $\frac{619}{192}$ |
| $x^{12} + 3x^8 + 7x^4 + 8x^2 - 5$ | $x^{12} + 11x^8 - 121x^4 + 1331$ | $\left[\begin{array}{ccc} 2 & 2 & \frac{8}{3} \\ \frac{8}{3} & \frac{8}{3} & \frac{11}{3} \\ 3 & \frac{11}{3} & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{161}{48}$ |
| $x^{12} - 3x^8 - x^4 + 1$ | $x^{12} + 77x^8 + 1815x^4 + 14641$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{11}{3} \\ 3 & \frac{11}{3} & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{41}{12}$ |
| $x^{12} + x^8 + 3x^4 + 1$ | $x^{12} + 12x^8 - 24x^4 + 16$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{11}{3} \\ 3 & \frac{11}{3} & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{41}{12}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} - 7x^8 + 4x^6 + 7x^4 - 4x^2 - 7$ | $x^{12} + 24x^{10} + 177x^8 + 396x^6 + 319x^4 + 484x^2 + 121$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{11}{3} \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,60 | $\frac{10}{3}$ |
| $x^{12} - 14x^{10} - 3x^8 - 12x^6 + 15x^4 - 14x^2 - 13$ | $x^{12} - 12x^{10} - 8x^8 - 132x^6 + 968x^4 - 1232x^2 + 44$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 10 & \frac{10}{3} & \frac{7}{2} \\ & 3 & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 2x^{10} - 63x^8 + 20x^6 - 17x^4 - 14x^2 - 1$ | $x^{12} - 18x^{10} - 12x^9 + 105x^8 + 144x^7 - 88x^6 - 192x^5 - 27x^4 + 48x^3 + 6x^2 - 12x - 5$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & 3 & \frac{10}{3} \end{array} \right]_3^2 \left[\begin{array}{ccc} \frac{7}{2} & & \\ & 3 & \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} - 4x^{10} + x^8 + 7x^4 + 5$ | $x^{12} - 36x^{10} - 21x^8 + 640x^6 - 1095x^4 + 480x^2 + 5$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ & 3 & \frac{11}{3} \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} + 10x^{10} + 245x^8 + 212x^6 - 97x^4 - 198x^2 + 27$ | $x^{12} - 6x^{10} - 12x^9 - 3x^8 + 48x^7 + 88x^6 + 8x^5 - 53x^4 + 22x^2 + 4x + 1$ | $\left[\begin{array}{ccc} 2 & 3 & \frac{7}{2} \\ & 3 & \end{array} \right]_3^2$ | T: 12,14 | $\frac{17}{6}$ |
| $x^{12} + 42x^{10} - 35x^8 + 52x^6 + 47x^4 + 58x^2 - 29$ | $x^{12} - 10x^{10} + 69x^8 - 220x^6 + 495x^4 - 242x^2 + 539$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 19 & \frac{19}{6} & \frac{7}{2} \\ & 6 & 2 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{12} - 54x^{10} + 57x^8 + 4x^6 + 39x^4 + 10x^2 - 1$ | $x^{12} + 180x^{10} + 13140x^8 + 482520x^6 + 8780400x^4 + 58838400x^2 - 107744400$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 19 & 19 & 7 \\ 6 & 6 & 2 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} - 30x^{10} - 47x^8 - 60x^6 + 63x^4 + 2x^2 + 31$ | $x^{12} - 72x^{10} - 240x^9 + 960x^8 + 7680x^7 + 20020x^6 + 29520x^5 + 40920x^4 + 50240x^3 - 48672x^2 - 264960x - 242316$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} + 8x^{10} - 3x^8 - x^4 - 3$ | $x^{12} + 11x^8 + 121x^4 - 1331$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{41}{12}$ |
| $x^{12} - 5x^8 + 4x^6 + x^4 + 8x^2 + 1$ | $x^{12} + 12x^{10} + 21x^8 - 92x^6 + 51x^4 - 12x^2 + 1$ | $\left[\begin{array}{ccc} 8 & 8 & 11 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,31 | $\frac{79}{24}$ |
| $x^{12} - 4x^{10} - 7x^8 - 4x^6 + 3x^4 - 4x^2 - 7$ | $x^{12} + 3x^8 - 4x^6 + 21x^4 + 1$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{10}{3}$ |
| $x^{12} + 8x^{10} - 3x^8 - 4x^6 + 3x^4 - 4x^2 + 1$ | $x^{12} - 3x^8 + 20x^6 + 3x^4 + 12x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,60 | $\frac{10}{3}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-------------------|
| $x^{12} + 18x^{10} - 7x^8 - 12x^6 + 7x^4 - 14x^2 + 31$ | $x^{12} + 36x^{10} - 36x^8 - 468x^6 - 1584x^4 - 2160x^2 - 1764$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 2 & 3 & 3 \\ 3 & 6 & 6 \end{array} \left[\begin{array}{c} 7 \\ 2 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 8x^{10} - 7x^8 + 4x^6 + 7x^4 + 8x^2 - 3$ | $x^{12} - 111x^8 + 460x^6 - 465x^4 + 120x^2 + 5$ | $\left[\begin{array}{ccc} 8 & 8 & 11 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 4 & 11 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^4$ | T: 12,31 | $\frac{79}{24}$ |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 7x^8 + 8x^6 + 7x^4 + 4x^2 + 3$ | $x^{12} + 8x^{10} + 23x^8 + 48x^6 + 55x^4 + 36x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 4 \end{array} \left[\begin{array}{c} 11 \\ 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| $x^{12} + 114x^{10} - 199x^8 - 172x^6 - 9x^4 - 110x^2 - 177$ | $x^{12} + 20x^{10} - 12x^9 + 172x^8 - 144x^7 + 856x^6 + 2808x^5 + 8590x^4 + 10176x^3 + 3804x^2 + 360x + 10$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 3 & 7 \\ 2 & 2 & 2 \end{array} \right]_3^2$ | T: 12,51 | $\frac{37}{12}$ |
| $x^{12} + 242x^{10} - 15x^8 + 244x^6 + 39x^4 + 242x^2 + 71$ | $x^{12} - 2x^{10} - 20x^9 + 21x^8 - 16x^7 + 192x^6 - 304x^5 + 431x^4 - 944x^3 + 922x^2 - 364x + 49$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 3 & 7 \\ 2 & 2 & 2 \end{array} \right]_3^2$ | T: 12,51 | $\frac{37}{12}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} - 6x^{10} + 45x^8 - 268x^6 + 751x^4 + 938x^2 - 717$ | $x^{12} - 14x^{10} + 69x^8 - 184x^6 + 243x^4 - 154x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 7 & 2 \\ 2 & 2 & 3 \end{array} \right]_3^2$ | T: 12,51 | $\frac{139}{48}$ |
| $x^{12} - 6x^{10} + 25x^8 - 12x^6 + 23x^4 + 10x^2 + 31$ | $x^{12} - 36x^{10} - 164x^9 + 306x^8 + 720x^7 - 1788x^6 + 552x^5 - 2232x^4 + 1240x^3 + 300x^2 + 936x + 394$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 4x^{10} + 5x^8 + 8x^6 + 3x^4 + 4x^2 + 5$ | $x^{12} + 36x^{10} - 207x^8 - 2808x^6 - 11421x^4 - 10692x^2 + 26973$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{41}{12}$ |
| $x^{12} - 4x^{10} + 3x^8 + 4x^6 + 7x^4 + 4x^2 - 5$ | $x^{12} - 8x^{10} + 46x^8 - 296x^6 + 1204x^4 - 440x^2 + 44$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1315}{384}$ |
| $x^{12} - 30x^{10} - 31x^8 - 60x^6 + 15x^4 - 30x^2 - 1$ | $x^{12} - 6x^{10} + 9x^8 - 28x^6 - 9x^4 - 6x^2 - 1$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} - 4x^{10} + 3x^8 + 3x^4 + 8x^2 - 1$ | $x^{12} + 24x^{10} + 279x^8 + 1320x^6 + 1755x^4 - 2700x^2 - 5625$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 3 \\ 4 & 4 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 2x^{10} + 9x^8 + 4x^6 - x^4 + 2x^2 + 7$ | $x^{12} + 126x^{10} + 189x^8 - 2640x^6 - 2025x^4 + 182250x^2 - 455625$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{4}{3} & \frac{8}{3} & \frac{10}{3} \\ & 3 & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} - 14x^{10} - 3x^8 + 4x^6 - x^4 + 2x^2 + 3$ | $x^{12} - 2x^{10} - 19x^8 + 88x^6 + 275x^4 - 110x^2 + 11$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ \frac{4}{3} & \frac{8}{3} & 3 \\ & 3 & \frac{10}{3} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 18x^{10} + 21x^8 + 4x^6 + 23x^4 + 18x^2 + 19$ | $x^{12} + 2x^{10} + x^8 - 8x^6 + 15x^4 + 30x^2 + 11$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{4}{3} & \frac{8}{3} & \frac{10}{3} \\ & 3 & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} - 14x^{10} + 13x^8 + 20x^6 - 25x^4 - 30x^2 - 21$ | $x^{12} - 14x^{10} + 65x^8 - 112x^6 + 31x^4 + 22x^2 + 11$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{4}{3} & \frac{8}{3} & \frac{10}{3} \\ & 3 & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} - 3x^8 - x^4 + 4x^2 + 1$ | $x^{12} + 16x^{10} + 119x^8 + 440x^6 + 649x^4 - 484x^2 + 121$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{11}{3} \\ & 3 & \frac{11}{3} \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} - 6x^{10} - 55x^8 + 4x^6 - 49x^4 - 54x^2 - 9$ | $x^{12} + 42x^{10} + 501x^8 + 720x^6 - 7425x^4 + 6750x^2 - 5625$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{4}{3} & \frac{8}{3} & \frac{10}{3} \\ & 3 & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} + 8x^{10} - 7x^8 - x^4 + 4x^2 - 7$ | $x^{12} + 4x^{10} + 7x^8 + 16x^6 + 17x^4 + 8x^2 + 1$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{11}{3} \\ & 3 & \frac{11}{3} \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{12} + 4x^{10} + x^8 + 8x^6 - x^4 - 3$ | $x^{12} + 36x^{10} + 249x^8 + 640x^6 + 615x^4 + 120x^2 + 5$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 11 \\ 3 \end{array} \Bigg]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} - 6x^{10} - 3x^8 + 20x^6 - 25x^4 - 6x^2 - 5$ | $x^{12} - 2x^{10} - 20x^9 + 41x^8 - 48x^7 + 124x^6 - 272x^5 + 841x^4 - 2080x^3 + 2810x^2 - 1940x + 559$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 10 \\ 3 \end{array} \begin{array}{c} 7 \\ 2 \end{array} \Bigg]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} + 4x^{10} - 7x^8 + 4x^6 + 3x^4 - 7$ | $x^{12} + 22x^8 + 176x^4 + 484$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 11 \\ 3 \end{array} \Bigg]_3^2$ | T: 12,60 | $\frac{10}{3}$ |
| $x^{12} + 50x^{10} - 55x^8 + 36x^6 + 39x^4 - 30x^2 - 49$ | $x^{12} + 10x^{10} + 41x^8 + 72x^6 - 45x^4 - 162x^2 - 81$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 19 \\ 6 \end{array} \begin{array}{c} 7 \\ 2 \end{array} \Bigg]_3^2$ | T: 12,134 | $\frac{619}{192}$ |
| $x^{12} + 4x^{10} + x^8 - x^4 + 4x^2 - 3$ | $x^{12} - 42x^{10} - 108x^9 + 412x^8 + 2448x^7 - 796x^6 - 27864x^5 - 13154x^4 + 254880x^3 + 629248x^2 + 532944x + 166534$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 11 \\ 3 \end{array} \Bigg]_3^2$ | T: 12,89 | $\frac{41}{12}$ |
| $x^{12} - 3x^8 - 4x^6 + 3x^4 - 4x^2 - 7$ | $x^{12} - 3x^8 - 20x^6 + 3x^4 - 12x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 11 \\ 3 \end{array} \Bigg]_3^2$ | T: 12,60 | $\frac{10}{3}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 5x^8 - 4x^6 + 3x^4 - 3$ | $x^{12} + 60x^{10} - 2385x^8 - 126900x^6 + 593325x^4 + 2551500x^2 + 820125$ | $\left[\begin{array}{c} 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad \frac{11}{3} \\ 3 \quad 3 \quad 3 \quad 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{10}{3}$ |
| $x^{12} - 10x^{10} - 11x^8 - 20x^6 - x^4 + 6x^2 - 5$ | $x^{12} + 4x^{10} - 4x^9 + 2x^8 + 104x^6 - 640x^5 + 1832x^4 - 3296x^3 + 3828x^2 - 2576x + 746$ | $\left[\begin{array}{c} \frac{4}{3} \quad \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{10}{3} \quad \frac{10}{3} \\ 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 3x^8 + 8x^6 + 7x^4 - 4x^2 - 7$ | $x^{12} + 4x^{10} + x^8 - 8x^6 + 23x^4 - 8x^2 + 1$ | $\left[\begin{array}{c} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{11}{3} \\ 3 \quad 3 \quad 3 \quad 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} + 10x^{10} - 23x^8 + 52x^6 + 23x^4 - 38x^2 - 49$ | $x^{12} - 30x^{10} + 225x^8 + 600x^6 - 15525x^4 + 60750x^2 - 50625$ | $\left[\begin{array}{c} \frac{4}{3} \quad \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{10}{3} \quad \frac{10}{3} \\ 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 4x^{10} - 5x^8 + 8x^6 - 5x^4 + 7$ | $x^{12} + 12x^{10} - 45x^8 - 240x^6 + 675x^4 - 5625$ | $\left[\begin{array}{c} \frac{4}{3} \quad \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad \frac{11}{4} \quad \frac{11}{3} \\ 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 4 \quad 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| $x^{12} - x^8 + 4x^6 - x^4 - 1$ | $x^{12} + 60x^{10} + 1395x^8 + 15900x^6 + 89775x^4 + 202500x^2 - 5625$ | $\left[\begin{array}{c} \frac{4}{3} \quad \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{11}{3} \\ 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \quad 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1315}{384}$ |
| $x^{12} - 4x^{10} - 7x^8 - 4x^6 - 7x^4 - 5$ | $x^{12} + 24x^{10} + 243x^8 + 1276x^6 + 3443x^4 + 3740x^2 + 11$ | $\left[\begin{array}{c} 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{11}{3} \\ 3 \quad 3 \quad 3 \quad 3 \quad 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{41}{12}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - x^8 - 5x^4 - 5$ | $x^{12} + 3x^8 + 11x^4 + 11$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ & 3 & 3 \end{array} \begin{array}{ccc} 8 & 8 & 11 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{161}{48}$ |
| $x^{12} - 4x^{10} + 7x^8 - 5x^4 + 8x^2 - 1$ | $x^{12} - 8x^{10} - 6x^8 - 176x^6 - 352x^4 - 968x^2 - 484$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ & 3 & 3 \end{array} \begin{array}{ccc} 8 & 8 & 11 \\ & 3 & 4 \end{array} \begin{array}{ccc} 11 & 11 & 11 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| $x^{12} - 3x^8 + 4x^6 + 3x^4 + 4x^2 - 3$ | $x^{12} - 24x^{10} - 27x^8 + 5076x^6 - 47061x^4 + 127332x^2 + 26973$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ & 3 & 3 \end{array} \begin{array}{ccc} 8 & 8 & 11 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{161}{48}$ |
| $x^{12} + 18x^{10} - 11x^8 - 28x^6 - 17x^4 - 30x^2 - 21$ | $x^{12} + 18x^{10} + 53x^8 + 132x^6 + 143x^4 + 66x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ & 3 & 3 \end{array} \begin{array}{ccc} 2 & 3 & 19 \\ & 6 & 6 \end{array} \begin{array}{ccc} 7 & 7 & 7 \\ & 2 & 2 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 8x^{10} + 3x^8 - 4x^6 - 7x^4 + 8x^2 + 1$ | $x^{12} - 63x^8 + 276x^6 - 405x^4 + 216x^2 + 9$ | $\left[\begin{array}{ccc} 8 & 8 & 11 \\ & 3 & 3 \end{array} \begin{array}{ccc} 11 & 11 & 11 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,31 | $\frac{79}{24}$ |
| $x^{12} + 8x^{10} - x^8 + 4x^6 - x^4 - 4x^2 - 1$ | $x^{12} + 12x^{10} + 81x^8 - 108x^6 + 9477x^4 + 54432x^2 - 18225$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ & 3 & 3 \end{array} \begin{array}{ccc} 3 & 11 & 11 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{41}{12}$ |
| $x^{12} + 8x^{10} - 3x^8 + 8x^6 + 7x^4 - 4x^2 + 1$ | $x^{12} - 16x^{10} + 119x^8 - 440x^6 + 649x^4 + 484x^2 + 121$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ & 3 & 3 \end{array} \begin{array}{ccc} 11 & 11 & 11 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|------------------|
| $x^{12} - 7x^8 - x^4 + 4x^2 + 1$ | $x^{12} - 46x^{10} - 44x^9 + 560x^8 + 176x^7 - 4488x^6 - 1056x^5 + 16118x^4 - 352x^3 - 39444x^2 - 28424x - 1814$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{11}{3} & \frac{11}{3} & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} - 5x^8 - 4x^6 - 7x^4 + 8x^2 + 1$ | $x^{12} - 63x^8 - 276x^6 - 405x^4 - 216x^2 + 9$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & \frac{11}{3} \\ \frac{11}{3} & \frac{11}{3} & \frac{11}{3} \end{array} \right]_3^2$ | T: 12,55 | $\frac{10}{3}$ |
| $x^{12} + 50x^{10} + 109x^8 - 124x^6 - 17x^4 + 2x^2 - 77$ | $x^{12} + 12x^{10} + 60x^8 + 140x^6 + 120x^4 - 48x^2 + 12$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{7}{2} & \frac{7}{2} & 3 \end{array} \right]_3^2$ | T: 12,51 | $\frac{37}{12}$ |
| $x^{12} + 5x^8 - 4x^6 + 3x^4 + 8x^2 + 5$ | $x^{12} + 27720x^{10} + 187297110x^8 + 438819519600x^6 + 233201758689900x^4 + 154570909285485000x^2 + 17093240447049112500$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & \frac{11}{3} \\ \frac{11}{3} & \frac{11}{3} & \frac{11}{3} \end{array} \right]_3^4$ | T: 12,31 | $\frac{79}{24}$ |
| $x^{12} - 5x^8 + x^4 + 4x^2 - 7$ | $x^{12} - 45x^8 + 24x^6 + 513x^4 - 324x^2 + 81$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{11}{3} & \frac{11}{3} & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} + x^8 + 8x^6 + 7x^4 + 4x^2 - 7$ | $x^{12} + 44x^{10} + 605x^8 + 3872x^6 + 12463x^4 + 21296x^2 + 14641$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{11}{3} & \frac{11}{3} & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} + 4x^{10} - x^8 - x^4 - 1$ | $x^{12} + 12x^{10} - 81x^8 - 672x^6 + 4671x^4 + 9720x^2 - 5625$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 11 \\ 3 & 3 & 4 \end{array} \left[\begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| $x^{12} - 6x^{10} + 29x^8 + 52x^6 - 17x^4 + 42x^2 + 35$ | $x^{12} - 8x^{10} + 16x^8 + 132x^6 + 968x^4 + 1408x^2 + 2156$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \left[\begin{array}{ccc} 7 & 7 & 7 \\ 2 & 2 & 2 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} - 62x^{10} + 57x^8 - 28x^6 - 41x^4 - 14x^2 - 1$ | $x^{12} + 6x^{10} - 1611x^8 - 9120x^6 - 16065x^4 + 4050x^2 - 225$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 10 & 10 & 10 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 7 & 7 & 7 \\ 2 & 2 & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 4x^{10} + 5x^8 - 5x^4 + 5$ | $x^{12} - 80x^{10} + 1135x^8 + 2800x^6 - 38175x^4 - 34500x^2 + 6125$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 2 & 2 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} + 4x^{10} - x^8 - 4x^6 - 7x^4 - 4x^2 - 3$ | $x^{12} - 12x^{10} + 54x^8 - 104x^6 + 96x^4 - 24x^2 - 12$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 2 & 2 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{10}{3}$ |
| $x^{12} + 3x^8 - x^4 - 1$ | $x^{12} - 77x^8 + 1815x^4 - 14641$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 2 & 2 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,61 | $\frac{10}{3}$ |
| $x^{12} + 4x^{10} - x^8 + 4x^6 + x^4 + 4x^2 - 3$ | $x^{12} + 12x^{10} + 39x^8 + 172x^6 - 207x^4 + 36x^2 - 3$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 2 & 2 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{10}{3}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} - 4x^{10} + 7x^8 + 8x^6 - 7x^4 + 8x^2 + 5$ | $x^{12} - 24x^{10} + 39x^8 + 256x^6 - 963x^4 + 1188x^2 - 507$ | $\left[\begin{array}{ccc} 8 & 8 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} + 4x^{10} - x^8 - x^4 - 4x^2 + 3$ | $x^{12} - 12x^{10} + 55x^8 - 120x^6 + 127x^4 - 60x^2 + 11$ | $\left[\begin{array}{ccc} 2 & 8 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,61 | $\frac{10}{3}$ |
| $x^{12} - 22x^{10} - 59x^8 + 52x^6 + 15x^4 - 6x^2 - 53$ | $x^{12} - 4x^{11} + 108x^9 - 184x^8 - 1216x^7 + 7228x^6 - 18792x^5 + 29732x^4 - 30616x^3 + 20404x^2 - 8136x + 1522$ | $\left[\begin{array}{ccc} 4 & 4 & 7 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 58x^{10} + 13x^8 - 60x^6 - 9x^4 - 54x^2 + 27$ | $x^{12} + 18x^{10} + 21x^8 + 36x^6 + 39x^4 + 18x^2 + 3$ | $\left[\begin{array}{ccc} 2 & 8 & 10 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} + 170x^{10} - 19x^8 + 212x^6 + 207x^4 - 230x^2 - 237$ | $x^{12} - 16x^{10} + 72x^8 - 88x^6 + 880x^4 - 4320x^2 - 720$ | $\left[\begin{array}{ccc} 4 & 4 & 7 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,142 | $\frac{595}{192}$ |
| $x^{12} - 7x^8 + 8x^6 + 7x^4 + 4x^2 + 1$ | $x^{12} - 16x^{10} + 103x^8 - 352x^6 + 605x^4 - 484x^2 + 121$ | $\left[\begin{array}{ccc} 8 & 8 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} - 5x^8 + 8x^6 - 7x^4 + 4x^2 - 7$ | $x^{12} - 3x^8 + 16x^6 + 27x^4 + 12x^2 + 1$ | $\left[\begin{array}{ccc} 8 & 8 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 4x^{10} + x^8 + 4x^6 + 3x^4 + 1$ | $x^{12} - 6x^8 + 12x^4 + 4$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,60 | $\frac{10}{3}$ |
| $x^{12} + 4x^{10} + 3x^8 + 8x^6 + 3x^4 - 4x^2 - 1$ | $x^{12} - 36x^{10} + 567x^8 - 4968x^6 + 6723x^4 + 152604x^2 - 613089$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{161}{48}$ |
| $x^{12} + 3x^8 - x^4 + 4x^2 + 3$ | $x^{12} + 4x^{10} - 27x^8 - 40x^6 + 353x^4 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1303}{384}$ |
| $x^{12} + 3x^8 + 8x^6 - x^4 - 1$ | $x^{12} - 15x^8 + 77x^4 - 121$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,61 | $\frac{10}{3}$ |
| $x^{12} - 3x^8 - x^4 - 3$ | $x^{12} + 3x^8 + 5x^4 - 11$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{41}{12}$ |
| $x^{12} - 38x^{10} - 11x^8 - 28x^6 + 31x^4 + 58x^2 - 53$ | $x^{12} + 2x^{10} - 43x^8 + 88x^6 + 11x^4 + 462x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 6x^{10} + 5x^8 + 4x^6 + 7x^4 + 10x^2 - 13$ | $x^{12} - 6x^{10} + 9x^8 + 8x^6 + 15x^4 + 6x^2 + 3$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} + 8x^{10} + 5x^8 - 4x^6 - 7x^4 - 4x^2 - 1$ | $x^{12} - 6x^8 + 12x^4 - 4$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{41}{12}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 10x^{10} + 21x^8 + 36x^6 - 9x^4 + 26x^2 - 13$ | $x^{12} - 4x^{11} - 8x^{10} - 52x^9 + 726x^8 - 2736x^7 + 6128x^6 - 9080x^5 + 7236x^4 - 1480x^3 - 604x^2 - 232x - 2$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 10 & & \\ 3 & & \\ & & 3 \end{array} \left[\begin{array}{c} 7 \\ 2 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} + 8x^{10} - 7x^8 - 4x^6 - x^4 + 8x^2 - 3$ | $x^{12} - 111x^8 - 460x^6 - 465x^4 - 120x^2 + 5$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 11 & & \\ 3 & & \\ & & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{10}{3}$ |
| $x^{12} - 4x^{10} - 3x^8 + 7x^4 + 5$ | $x^{12} + 24x^{10} + 242x^8 + 1232x^6 + 2904x^4 + 968x^2 - 5324$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 11 & & \\ 3 & & \\ & & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} - 14x^{10} - 51x^8 + 20x^6 + 15x^4 + 18x^2 - 29$ | $x^{12} + 12x^{10} - 8x^8 + 132x^6 + 968x^4 + 1232x^2 + 44$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 4 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \begin{array}{ccc} 10 & & \\ 3 & & \\ & & 3 \end{array} \left[\begin{array}{c} 7 \\ 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 18x^{10} + 9x^8 - 12x^6 - 9x^4 + 18x^2 - 1$ | $x^{12} - 12x^{10} - 60x^9 - 180x^8 + 240x^7 + 472x^6 - 5400x^5 - 13422x^4 - 15840x^3 - 43548x^2 - 80160x - 47486$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 4 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \begin{array}{ccc} 3 & & \\ 3 & & \\ & & 3 \end{array} \left[\begin{array}{c} 7 \\ 2 \end{array} \right]_3^2$ | T: 12,142 | $\frac{595}{192}$ |
| $x^{12} - 4x^{10} - 3x^8 - 5x^4 - 3$ | $x^{12} - 2535x^8 + 34000x^6 - 74725x^4 - 42500x^2 + 153125$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 11 & & \\ 3 & & \\ & & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{12} - 3x^8 + 8x^6 + 7x^4 + 8x^2 - 3$ | $x^{12} - 7x^8 + 15x^4 - 11$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ & 3 & 3 & 3 \\ & & & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{41}{12}$ |
| $x^{12} - x^8 + 4x^6 - x^4 + 4x^2 - 1$ | $x^{12} - 12x^{10} + 81x^8 + 108x^6 + 9477x^4 - 54432x^2 - 18225$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ & 3 & 3 & 3 \\ & & & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{41}{12}$ |
| $x^{12} - 7x^8 - 5x^4 + 4x^2 + 1$ | $x^{12} + 24x^{10} + 222x^8 + 968x^6 + 2256x^4 + 2760x^2 + 1444$ | $\left[\begin{array}{cccc} 8 & 8 & 8 & 3 \\ & 3 & 3 & 3 \\ & & & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} + 10x^{10} - 19x^8 + 20x^6 - x^4 + 26x^2 + 3$ | $x^{12} - 18x^{10} + 53x^8 - 132x^6 + 143x^4 - 66x^2 + 11$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 3 \\ & 3 & 3 & 6 \\ & & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} - 4x^{10} + 5x^8 - 5x^4 + 8x^2 - 3$ | $x^{12} + 140x^{10} + 5415x^8 + 37800x^6 - 281475x^4 - 1620000x^2 + 2278125$ | $\left[\begin{array}{cccc} 8 & 8 & 8 & 3 \\ & 3 & 3 & 3 \\ & & & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} + 4x^{10} + x^8 - x^4 - 3$ | $x^{12} + 12x^{10} - 150x^8 - 1520x^6 - 3180x^4 - 1560x^2 + 500$ | $\left[\begin{array}{cccc} 8 & 8 & 8 & 3 \\ & 3 & 3 & 3 \\ & & & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} + 7x^8 - 5x^4 + 3$ | $x^{12} + 11x^8 + 275x^4 + 1331$ | $\left[\begin{array}{cccc} 2 & 2 & 8 & 8 \\ & 3 & 3 & 3 \\ & & & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{161}{48}$ |
| $x^{12} - 14x^{10} - 15x^8 - 12x^6 + 7x^4 - 14x^2 + 7$ | $x^{12} - 48x^{10} + 936x^8 - 9380x^6 + 48600x^4 - 97200x^2 - 72900$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 3 \\ & 3 & 3 & 6 \\ & & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 18x^{10} - 15x^8 + 20x^6 - 9x^4 - 46x^2 + 23$ | $x^{12} - 54x^{10} + 1125x^8 - 11400x^6 + 57375x^4 - 101250x^2 - 140625$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 4x^{10} + 3x^8 + 8x^6 + 3x^4 + 4x^2 + 7$ | $x^{12} + 36x^{10} + 549x^8 + 4536x^6 + 14661x^4 - 26244x^2 - 210681$ | $\left[\begin{array}{ccc} 2 & 2 & 3 \\ & 8 & 3 \\ & & 11 \\ & & & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{161}{48}$ |
| $x^{12} - 14x^{10} + 13x^8 - 12x^6 + 31x^4 + 18x^2 + 19$ | $x^{12} - 14x^{10} + 77x^8 - 240x^6 + 515x^4 - 682x^2 + 539$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 8 & 3 \\ & & 10 \\ & & & 3 \\ & & & & 7 \\ & & & & & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} + 4x^{10} + x^8 + 4x^6 - x^4 - 4x^2 + 1$ | $x^{12} - 44x^{10} + 671x^8 - 4356x^6 + 10769x^4 - 5324x^2 + 14641$ | $\left[\begin{array}{ccc} 8 & 8 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,31 | $\frac{79}{24}$ |
| $x^{12} + 10x^{10} - 7x^8 + 4x^6 - 9x^4 - 22x^2 - 17$ | $x^{12} - 36x^{10} + 504x^8 - 3060x^6 + 900x^4 + 5400x^2 - 44100$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{619}{192}$ |
| $x^{12} + 4x^{10} + x^8 + 4x^6 + x^4 + 3$ | $x^{12} - 12x^{10} + 57x^8 - 92x^6 + 69x^4 - 24x^2 + 3$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & & 11 \\ & & & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{41}{12}$ |
| $x^{12} + 8x^{10} + 5x^8 - x^4 + 8x^2 + 1$ | $x^{12} + 15x^8 + 81x^4 + 121$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & & 11 \\ & & & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{41}{12}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} - 14x^{10} + 9x^8 - 12x^6 + 7x^4 - 14x^2 - 1$ | $x^{12} - 120x^{10} + 1800x^8 - 9300x^6 + 8100x^4 + 81000x^2 - 202500$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 38x^{10} + 53x^8 - 60x^6 + 47x^4 + 58x^2 - 5$ | $x^{12} - 2x^{10} + 21x^8 - 20x^6 + 111x^4 - 66x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 10 & 10 & 7 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |
| $x^{12} - 94x^{10} + 53x^8 + 4x^6 + 95x^4 + 18x^2 - 101$ | $x^{12} - 4x^{11} + 32x^{10} - 56x^9 + 282x^8 - 80x^7 + 1088x^6 + 3616x^5 + 6156x^4 + 12976x^3 + 16128x^2 + 9376x + 2168$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 7 & 2 \\ 2 & 2 & 3 \end{array} \right]_3^2$ | T: 12,51 | $\frac{37}{12}$ |
| $x^{12} + 4x^{10} + 7x^8 - x^4 - 4x^2 - 1$ | $x^{12} - 36x^{10} + 135x^8 + 5400x^6 - 81729x^4 + 467532x^2 - 998001$ | $\left[\begin{array}{ccc} 2 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{161}{48}$ |
| $x^{12} - 22x^{10} + 97x^8 + 4x^6 - 121x^4 + 10x^2 + 119$ | $x^{12} + 30x^{10} + 2985x^8 - 16300x^6 + 30975x^4 - 20250x^2 + 375$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 7 & 2 \\ 2 & 2 & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{595}{192}$ |
| $x^{12} + 8x^{10} - 5x^8 + 8x^6 - 7x^4 + 4x^2 + 1$ | $x^{12} + 12x^{10} + 66x^8 + 240x^6 + 540x^4 + 648x^2 + 324$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} + 8x^{10} - 5x^8 + 4x^6 + 7x^4 - 1$ | $x^{12} + 4x^{10} + x^8 - 20x^6 - 7x^4 - 4x^2 - 1$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1315}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + x^8 + 4x^6 + 7x^4 + 4x^2 - 7$ | $x^{12} - 24x^{10} + 177x^8 - 396x^6 + 319x^4 - 484x^2 + 121$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{11}{3} \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,60 | $\frac{10}{3}$ |
| $x^{12} + 4x^{10} + x^8 + 7x^4 - 3$ | $x^{12} - 36x^{10} + 249x^8 - 640x^6 + 615x^4 - 120x^2 + 5$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ & 3 & \frac{11}{3} \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} + 4x^{10} - 7x^8 + 8x^6 - x^4 + 5$ | $x^{12} - 12x^{10} - 150x^8 + 1520x^6 - 3180x^4 + 1560x^2 + 500$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ & 3 & \frac{11}{3} \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} + 8x^{10} + 3x^8 + x^4 + 4x^2 - 7$ | $x^{12} - 45x^8 - 24x^6 + 513x^4 + 324x^2 + 81$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ & 3 & \frac{11}{3} \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} - 7x^8 - 5x^4 - 4x^2 - 7$ | $x^{12} - 12x^{10} + 54x^8 - 80x^6 + 60x^4 - 24x^2 + 4$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ & 3 & \frac{11}{3} \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} + 4x^{10} - x^8 - x^4 - 4x^2 + 7$ | $x^{12} - 60x^{10} - 378x^8 - 864x^6 - 972x^4 - 15552x^2 - 72900$ | $\left[\begin{array}{ccc} 2 & 2 & \frac{8}{3} \\ & \frac{8}{3} & \frac{11}{3} \end{array} \right]_3^2$ | T: 12,92 | $\frac{161}{48}$ |
| $x^{12} + 38x^{10} - 11x^8 - 68x^6 - 113x^4 + 102x^2 + 11$ | $x^{12} - 14x^{10} + 49x^8 + 88x^6 - 561x^4 - 242x^2 + 1331$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & \frac{8}{3} & \frac{10}{3} \\ & & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2563}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|------------------|
| $x^{12} + 8x^{10} - 5x^8 - 4x^6 - 7x^4 + 8x^2 - 7$ | $x^{12} - 12x^{10} + 66x^8 - 232x^6 + 432x^4 - 216x^2 + 36$ | $\left[\begin{array}{c} \frac{8}{3} \quad \frac{8}{3} \quad \frac{11}{3} \\ 3 \quad 3 \quad 3 \end{array} \right]_3^2$ | T: 12,31 | $\frac{79}{24}$ |
| $x^{12} - 22x^{10} - 3x^8 - 28x^6 + 7x^4 - 6x^2 + 27$ | $x^{12} + 6x^{10} + 13x^8 + 12x^6 + 7x^4 + 6x^2 + 11$ | $\left[\begin{array}{c} 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{10}{3} \\ 3 \quad 3 \quad 3 \quad 3 \quad 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{10}{3}$ |
| $x^{12} + 8x^{10} + x^8 - 4x^6 - x^4 + 8x^2 + 5$ | $x^{12} + 24x^{10} + 75x^8 - 1100x^6 - 1875x^4 + 12000x^2 + 3125$ | $\left[\begin{array}{c} 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad \frac{11}{3} \\ 3 \quad 3 \quad 3 \quad 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{10}{3}$ |
| $x^{12} + x^8 - x^4 + 4x^2 + 1$ | $x^{12} - 4x^{10} + 7x^8 - 16x^6 + 17x^4 - 8x^2 + 1$ | $\left[\begin{array}{c} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{11}{3} \\ 3 \quad 3 \quad 3 \quad 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{163}{48}$ |
| $x^{12} + x^8 + 4x^6 + 7x^4 + 8x^2 - 3$ | $x^{12} - 48x^{10} + 531x^8 - 2380x^6 + 4725x^4 - 3720x^2 + 845$ | $\left[\begin{array}{c} 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad \frac{11}{3} \\ 3 \quad 3 \quad 3 \quad 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{10}{3}$ |
| $x^{12} - 4x^{10} - 3x^8 + 8x^6 + 3x^4 + 4x^2 - 7$ | $x^{12} + 20x^{10} + 187x^8 + 880x^6 + 1265x^4 + 660x^2 + 121$ | $\left[\begin{array}{c} 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{11}{3} \\ 3 \quad 3 \quad 3 \quad 3 \quad 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{41}{12}$ |
| $x^{12} - 4x^{10} - 7x^8 - 4x^6 + 7x^4 - 4x^2 + 1$ | $x^{12} + 4x^{10} - x^8 - 12x^6 + 9x^4 - 4x^2 + 1$ | $\left[\begin{array}{c} \frac{8}{3} \quad \frac{8}{3} \quad \frac{11}{3} \\ 3 \quad 3 \quad 3 \end{array} \right]_3^2$ | T: 12,31 | $\frac{79}{24}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 2x^{10} + 4x^6 + 6$ | $x^{12} - 18x^{10} + 136x^8 - 572x^6 + 1584x^4 - 2904x^2 + 2662$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} - 6x^8 + 4x^6 - 2x^4 + 8x^2 - 2$ | $x^{12} + 6x^{10} + 8x^8 - 8x^6 - 22x^4 - 12x^2 - 2$ | $\left[2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,92 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} - 6x^8 + 2x^4 + 2$ | $x^{12} + 12x^{10} - 12x^8 - 288x^6 + 864x^4 - 864x^2 + 288$ | $\left[2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,92 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} - 4x^8 - 4x^6 - 6x^4 + 6$ | $x^{12} - 6x^{10} + 36x^8 - 144x^6 + 270x^4 - 216x^2 + 54$ | $\left[2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 6x^8 - 4x^6 + 6x^4 + 6$ | $x^{12} - 38x^{10} + 572x^8 - 4364x^6 + 18054x^4 - 38700x^2 + 33750$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad \frac{4}{3} \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} + 6x^8 + 4x^6 + 6x^4 - 2$ | $x^{12} - 6x^{10} - 810x^8 + 18468x^6 - 161514x^4 + 629856x^2 - 911250$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad \frac{4}{3} \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + 4x^8 + 6x^4 - 6$ | $x^{12} + 8x^{10} + 18x^8 + 8x^6 + 12x^4 - 88$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 6x^{10} + 6x^8 - 4x^4 + 2$ | $x^{12} - 2x^{10} - 6x^8 - 4x^6 + 40x^4 - 48x^2 + 18$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{8}{3} \\ & 3 & 3 \\ & & 3 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,88 | $\frac{85}{24}$ |
| $x^{12} + 6x^{10} - 6x^8 + 4x^4 + 8x^2 + 6$ | $x^{12} - 14x^{10} + 68x^8 - 144x^6 + 104x^4 - 44x^2 + 22$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ & 3 & 3 \\ & & 3 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,59 | $\frac{169}{48}$ |
| $x^{12} - 6x^{10} + 4x^2 + 2$ | $x^{12} - 6x^{10} - 4x^8 + 36x^6 + 76x^4 + 60x^2 + 18$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & \frac{8}{3} \\ & 3 & 3 \\ & & 3 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 8x^8 - 2x^4 + 4x^2 - 2$ | $x^{12} + 18x^{10} + 90x^8 + 284x^6 + 2730x^4 + 3600x^2 + 6750$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & \frac{8}{3} \\ & 3 & 3 \\ & & 3 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 8x^8 + 4x^4 + 8x^2 - 2$ | $x^{12} - 6x^{10} + 8x^8 + 8x^6 - 12x^4 - 8x^2 - 2$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{8}{3} \\ & 3 & 3 \\ & & 3 \end{array} \frac{7}{2} \frac{23}{6} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} - 2x^8 - 4x^4 + 2$ | $x^{12} - 12x^{10} + 78x^8 - 288x^6 + 540x^4 - 432x^2 + 72$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{8}{3} \\ & 3 & 3 \\ & & 3 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,88 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} - 6x^8 + 4x^6 - 2x^4 + 8x^2 - 2$ | $x^{12} - 18x^{10} + 112x^8 - 268x^6 + 166x^4 + 220x^2 - 242$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{8}{3} \\ & 3 & 3 \\ & & 3 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,92 | $\frac{85}{24}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 2x^{10} - 4x^8 + 8x^6 + 2x^4 + 6$ | $x^{12} - 14x^{10} + 60x^8 - 44x^6 - 66x^4 - 968x^2 + 2662$ | $\left[\begin{array}{ccccccc} 4 & 4 & 2 & 8 & 8 & 3 & 7 \\ 3 & 3 & 3 & 3 & 3 & 3 & 2 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} - 6x^8 + 8x^4 + 8x^2 - 2$ | $x^{12} + 54x^{10} + 126x^8 - 1404x^6 - 2268x^4 + 5832x^2 - 1458$ | $\left[\begin{array}{ccccccc} 4 & 4 & 8 & 8 & 3 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 & 6 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} + 4x^6 + 4x^4 - 2$ | $x^{12} + 6x^{10} - 8x^8 + 4x^6 + 12x^4 - 2$ | $\left[\begin{array}{ccccccc} 2 & 8 & 8 & 8 & 3 & 7 & 2 \\ & 3 & 3 & 3 & 3 & 2 & 6 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 8x^6 + 8x^4 + 6$ | $x^{12} + 30x^{10} + 270x^8 + 300x^6 - 8100x^4 - 40500x^2 - 56250$ | $\left[\begin{array}{ccccccc} 4 & 4 & 2 & 8 & 8 & 3 & 7 \\ 3 & 3 & 3 & 3 & 3 & 3 & 2 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} - 4x^8 - 4x^6 - 4x^4 + 4x^2 - 2$ | $x^{12} - 30x^{10} - 1134x^8 - 15876x^6 - 117936x^4 - 486000x^2 - 911250$ | $\left[\begin{array}{ccccccc} 4 & 4 & 8 & 8 & 3 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 & 6 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} + 8x^6 + 6x^4 + 4x^2 - 2$ | $x^{12} - 30x^{10} + 282x^8 + 3464x^6 + 11070x^4 + 14400x^2 + 6750$ | $\left[\begin{array}{ccccccc} 4 & 4 & 8 & 8 & 3 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 & 6 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + 4x^8 + 4x^6 - 4x^4 + 4x^2 - 2$ | $x^{12} + 18x^{10} - 1152x^8 + 14256x^6 - 69984x^4 + 199260x^2 - 246402$ | $\left[\begin{array}{ccccccc} 4 & 4 & 8 & 8 & 3 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 & 6 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} + 8x^8 + 4x^4 + 8x^2 - 2$ | $x^{12} - 2x^{10} + 6x^8 + 12x^6 - 8x^4 + 4x^2 - 2$ | $\left[\begin{array}{ccccccc} 2 & 8 & 8 & 8 & 3 & 7 & 2 \\ & 3 & 3 & 3 & 3 & 2 & 6 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} - 2x^{10} + 8x^8 - 4x^6 + 8x^2 - 2$ | $x^{12} - 84x^{10} - 312x^9 + 672x^8 + 6336x^7 - 2872x^6 - 52992x^5 - 41232x^4 + 602400x^3 - 1097472x^2 + 756288x - 189584$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} - 4x^8 + 6x^4 + 2$ | $x^{12} + 10x^{10} - 30x^8 - 44x^6 + 286x^4 + 484x^2 + 242$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 8x^6 - 4x^2 + 2$ | $x^{12} - 2x^{10} + 6x^8 - 20x^6 + 56x^4 + 18$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad \frac{4}{3} \quad \frac{8}{3} \quad 3 \quad 3 \quad 3 \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} + 8x^8 + 8x^6 - 4x^4 - 6$ | $x^{12} + 54x^{10} + 684x^8 - 12060x^6 - 21600x^4 - 1053000x^2 - 1653750$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 8x^6 + 8x^2 - 6$ | $x^{12} - 14x^{10} + 48x^8 + 88x^6 - 176x^4 + 88x^2 - 22$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 4x^8 + 4x^6 + 2x^4 - 2$ | $x^{12} - 6x^{10} + 12x^8 - 4x^6 - 30x^4 + 72x^2 - 50$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 2x^{10} - 6x^8 - 4x^6 + 6x^4 + 8x^2 + 6$ | $x^{12} + 10x^{10} + 88x^8 + 484x^6 + 1694x^4 + 3388x^2 + 2662$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} - 4x^6 + 2x^4 + 8x^2 - 2$ | $x^{12} - 90x^{10} + 2970x^8 - 43200x^6 + 230850x^4 + 364500x^2 - 911250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \\ & 8 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 2x^8 + 4x^4 + 8x^2 + 6$ | $x^{12} + 6x^{10} + 18x^8 + 32x^6 + 36x^4 + 24x^2 + 6$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,59 | $\frac{169}{48}$ |
| $x^{12} - 6x^{10} + 8x^8 + 8x^6 - 2x^4 + 4x^2 - 2$ | $x^{12} - 2x^{10} + 122x^8 - 788x^6 + 4410x^4 - 9000x^2 + 6750$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 4x^6 + 4x^4 + 8x^2 + 6$ | $x^{12} - 6x^{10} + 6x^8 + 24x^6 - 24x^4 - 108x^2 + 150$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 2x^8 + 2$ | $x^{12} - 2x^{10} - 36x^8 + 44x^6 + 264x^4 - 484x^2 + 242$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} + 8x^6 + 2x^4 + 4x^2 - 6$ | $x^{12} - 10x^{10} + 46x^8 - 136x^6 + 290x^4 - 400x^2 + 250$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 6x^{10} + 8x^8 + 4x^6 + 6x^4 + 8x^2 - 6$ | $x^{12} - 2x^{10} - 16x^8 - 20x^6 - 18x^4 - 32x^2 - 22$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 7 & 23 \\ 2 & 6 \end{array} \left. \vphantom{\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} + 8x^8 + 4x^6 + 4x^4 + 2$ | $x^{12} - 6x^{10} - 90x^8 - 60x^6 + 108x^4 + 108x^2 + 18$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 7 & 23 \\ 2 & 6 \end{array} \left. \vphantom{\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 8x^8 + 8x^4 + 4x^2 - 6$ | $x^{12} + 28x^{10} - 298x^8 + 976x^6 - 1188x^4 + 720x^2 - 216$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 3 & 3 \\ 3 & 3 \end{array} \begin{array}{cc} 23 & 23 \\ 6 & 6 \end{array} \left. \vphantom{\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} - 6x^8 + 4x^6 + 4x^4 - 6$ | $x^{12} - 10x^{10} - 166x^8 - 676x^6 - 1092x^4 - 648x^2 - 54$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 3 & 3 \\ 3 & 3 \end{array} \begin{array}{cc} 23 & 23 \\ 6 & 6 \end{array} \left. \vphantom{\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + 8x^6 + 2$ | $x^{12} - 16x^{10} + 110x^8 - 440x^6 + 1100x^4 - 1584x^2 + 968$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 7 & 23 \\ 2 & 6 \end{array} \left. \vphantom{\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} - 6x^8 - 4x^4 + 8x^2 + 6$ | $x^{12} + 14x^{10} + 68x^8 + 144x^6 + 104x^4 + 44x^2 + 22$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 23 & 23 \\ 6 & 6 \end{array} \left. \vphantom{\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,88 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} + 2x^8 + 4x^6 + 6x^4 + 8x^2 - 2$ | $x^{12} - 6x^{10} + 8x^8 + 8x^6 - 22x^4 + 12x^2 - 2$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \begin{array}{cc} 23 & 23 \\ 6 & 6 \end{array} \left. \vphantom{\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3} \right]^2_3$ | T: 12,61 | $\frac{169}{48}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 6x^{10} - 2x^8 + 4x^4 + 2$ | $x^{12} + 12x^{10} + 78x^8 + 288x^6 + 540x^4 + 432x^2 + 72$ | $\begin{bmatrix} 8 & 8 & 3 \\ 3 & 3 & 6 \end{bmatrix}^2_3$ | T: 12,59 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} + 8x^8 + 6x^4 + 4x^2 + 6$ | $x^{12} + 4x^{10} + 2x^8 + 16x^6 + 132x^4 + 288x^2 + 216$ | $\begin{bmatrix} 4 & 4 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{bmatrix}^2_3$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 2x^8 + 4x^6 - 2x^4 + 8x^2 + 6$ | $x^{12} + 12x^{10} + 22x^8 + 1452x^4 + 7744x^2 + 10648$ | $\begin{bmatrix} 8 & 8 & 3 \\ 3 & 3 & 6 \end{bmatrix}^2_3$ | T: 12,61 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} + 2x^8 - 4x^6 - 4x^4 + 6$ | $x^{12} - 10x^{10} + 44x^8 - 108x^6 + 144x^4 - 92x^2 + 22$ | $\begin{bmatrix} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 6 \end{bmatrix}^2_3$ | T: 12,88 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} + 6x^8 - 4x^6 - 2x^4 + 8x^2 - 2$ | $x^{12} + 66x^{10} + 990x^8 + 5508x^6 + 10854x^4 + 3888x^2 - 1458$ | $\begin{bmatrix} 4 & 4 & 8 & 3 \\ 3 & 3 & 3 & 6 \end{bmatrix}^2_3$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + 8x^8 + 8x^6 - 4x^2 + 2$ | $x^{12} + 14x^{10} + 46x^8 - 228x^6 + 216x^2 + 162$ | $\begin{bmatrix} 4 & 4 & 8 & 3 \\ 3 & 3 & 3 & 6 \end{bmatrix}^2_3$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 8x^8 + 4x^6 + 8x^4 + 8x^2 - 2$ | $x^{12} - 90x^{10} + 3420x^8 + 10800x^6 - 166500x^4 - 675000x^2 - 281250$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 & 3 & 6 \end{bmatrix}^2_3$ | T: 12,222 | $\frac{2803}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 2x^{10} + 2$ | $x^{12} + 10x^{10} + 44x^8 + 132x^6 + 308x^4 + 440x^2 + 242$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} + 8x^6 + 8x^4 - 4x^2 - 6$ | $x^{12} + 20x^{10} + 110x^8 + 104x^6 - 324x^4 + 864x^2 - 216$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 23 \\ 3 & 6 & 6 \end{array} \right]^2_3$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - 2x^8 - 4x^6 + 2x^4 + 8x^2 + 6$ | $x^{12} - 24x^{10} + 138x^8 - 320x^6 + 324x^4 - 144x^2 + 24$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,92 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} + 8x^8 - 4x^6 - 4x^4 + 2$ | $x^{12} + 6x^{10} + 12x^8 + 8x^6 + 2$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 2x^8 + 4x^6 - 6x^4 + 8x^2 - 6$ | $x^{12} + 18x^{10} + 74x^8 - 140x^6 - 798x^4 - 576x^2 - 54$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 23 \\ 3 & 6 & 6 \end{array} \right]^2_3$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} - 2x^4 + 2$ | $x^{12} + 24x^{10} - 44x^9 + 241x^8 - 528x^7 + 3036x^6 - 9856x^5 + 28295x^4 - 51744x^3 + 72796x^2 - 61644x + 33089$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} - 4x^8 - 4x^6 + 6x^4 - 6$ | $x^{12} + 18x^{10} - 270x^8 + 1560x^6 - 71010x^4 + 483228x^2 - 1053366$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,141 | $\frac{175}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 2x^{10} + 8x^8 + 4x^4 + 8x^2 - 6$ | $x^{12} + 108x^{10} + 5526x^8 + 5400x^6 - 4500x^4 - 15000$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{7}{2} \end{array} \begin{array}{c} \frac{23}{6} \\ \frac{23}{6} \\ \frac{23}{6} \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 2x^8 + 4x^6 + 2x^4 + 8x^2 + 2$ | $x^{12} + 6x^{10} - 342x^8 + 1404x^6 + 42282x^4 - 530712x^2 + 1786050$ | $\left[\begin{array}{ccc} 4 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{8}{3} \end{array} \begin{array}{c} \frac{23}{6} \\ \frac{23}{6} \\ \frac{23}{6} \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} + 6x^8 - 4x^6 + 2x^4 + 8x^2 + 6$ | $x^{12} + 6x^{10} + 12x^8 + 28x^6 + 18x^4 + 12x^2 + 6$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{23}{6} \end{array} \begin{array}{c} \frac{23}{6} \\ \frac{23}{6} \\ \frac{23}{6} \end{array} \right]_3^2$ | T: 12,92 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} - 6x^8 + 8x^6 + 8x^2 - 6$ | $x^{12} - 4x^{10} - 10x^8 + 88x^6 - 212x^4 + 224x^2 - 88$ | $\left[\begin{array}{ccc} 8 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{23}{6} \end{array} \begin{array}{c} \frac{23}{6} \\ \frac{23}{6} \\ \frac{23}{6} \end{array} \right]_3^2$ | T: 12,59 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} + 6x^8 - 4x^6 - 6x^4 - 2$ | $x^{12} - 6x^{10} + 12x^8 - 8x^6 + 6x^4 - 12x^2 - 2$ | $\left[\begin{array}{ccc} 8 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{23}{6} \end{array} \begin{array}{c} \frac{23}{6} \\ \frac{23}{6} \\ \frac{23}{6} \end{array} \right]_3^2$ | T: 12,61 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} + 8x^8 - 6x^4 + 8x^2 - 2$ | $x^{12} - 6x^{10} - 6x^8 - 4x^6 - 14x^4 - 12x^2 - 2$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{7}{2} \end{array} \begin{array}{c} \frac{23}{6} \\ \frac{23}{6} \\ \frac{23}{6} \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} + 6x^8 + 4x^4 + 2$ | $x^{12} - 42x^{10} + 378x^8 - 1500x^6 + 3000x^4 - 3000x^2 + 1250$ | $\left[\begin{array}{ccc} 8 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{23}{6} \end{array} \begin{array}{c} \frac{23}{6} \\ \frac{23}{6} \\ \frac{23}{6} \end{array} \right]_3^2$ | T: 12,59 | $\frac{169}{48}$ |
| $x^{12} - 6x^{10} + 8x^8 + 4x^6 + 4x^4 - 2$ | $x^{12} - 2x^{10} - 2x^8 - 16x^6 - 16x^4 - 12x^2 - 2$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{7}{2} \end{array} \begin{array}{c} \frac{23}{6} \\ \frac{23}{6} \\ \frac{23}{6} \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|------------|--------------------|
| $x^{12} + 6x^{10} + 2x^8 - 4x^4 + 8x^2 + 6$ | $x^{12} - 6x^{10} + 18x^8 - 32x^6 + 36x^4 - 24x^2 + 6$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{8}{3} \\ & 3 & 3 \\ & & 3 \end{array} \frac{23}{6} \right]_3^2$ | T: 12, 88 | $\frac{85}{24}$ |
| $x^{12} + 6x^{10} - 4x^6 + 2x^4 + 8x^2 + 6$ | $x^{12} + 30x^{10} + 90x^8 - 2400x^6 - 12150x^4 - 40500x^2 - 56250$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & 3 & 3 \\ & & 3 \end{array} \frac{8}{3} \quad \frac{7}{2} \quad \frac{23}{6} \right]_3^2$ | T: 12, 222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + 8x^8 + 8x^6 + 8x^4 - 4x^2 - 6$ | $x^{12} + 24x^{10} + 54x^8 + 104x^6 - 660x^4 + 720x^2 - 216$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ & 3 & 3 \\ & & 3 \end{array} \frac{8}{3} \quad 3 \quad \frac{23}{6} \right]_3^2$ | T: 12, 188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - 2x^8 - 4x^6 + 2x^4 + 8x^2 + 2$ | $x^{12} - 10x^{10} + 32x^8 - 44x^6 + 154x^4 - 484x^2 + 242$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{8}{3} \\ & 3 & 3 \\ & & 3 \end{array} \frac{23}{6} \right]_3^2$ | T: 12, 92 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} - 2x^8 - 4x^6 + 6x^4 + 6$ | $x^{12} + 34x^{10} + 452x^8 + 2932x^6 + 9558x^4 + 16164x^2 + 19494$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ & 3 & 3 \\ & & 3 \end{array} \frac{8}{3} \quad 3 \quad \frac{23}{6} \right]_3^2$ | T: 12, 188 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + 4x^6 - 2x^4 + 8x^2 + 2$ | $x^{12} - 14x^{10} + 64x^8 - 132x^6 + 118x^4 - 40x^2 + 2$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & 3 & 3 \\ & & 3 \end{array} \frac{8}{3} \quad \frac{7}{2} \quad \frac{23}{6} \right]_3^2$ | T: 12, 222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 4x^6 + 6x^4 + 8x^2 + 2$ | $x^{12} + 14x^{10} + 64x^8 + 132x^6 + 118x^4 + 40x^2 + 2$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & 3 & 3 \\ & & 3 \end{array} \frac{8}{3} \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \right]_3^2$ | T: 12, 222 | $\frac{2803}{768}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 2x^{10} - 6x^8 + 4x^6 + 4x^4 + 6$ | $x^{12} + 18x^{10} + 22x^8 - 440x^6 - 968x^4 + 3872x^2 + 2662$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,59 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} - 2x^8 - 4x^6 + 6x^4 + 6$ | $x^{12} - 4x^{10} + 14x^8 + 32x^6 + 156x^4 + 216$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{23}{6} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 8x^8 + 6x^4 + 4x^2 - 2$ | $x^{12} + 22x^{10} + 232x^8 + 1268x^6 + 2130x^4 - 8100x^2 + 6750$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{23}{6} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} + 8x^8 - 6x^4 - 4x^2 + 2$ | $x^{12} + 18x^{10} + 72x^8 - 92x^6 - 10x^4 - 220x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{23}{6} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + 8x^8 - 4x^6 - 6x^4 + 8x^2 + 6$ | $x^{12} - 12x^{10} + 90x^8 - 120x^6 - 2700x^4 + 10800x^2 - 9000$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{7}{2} \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + 6x^8 - 4x^6 - 2x^4 + 6$ | $x^{12} + 4x^{10} + 14x^8 - 32x^6 + 156x^4 + 216$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{23}{6} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 2x^8 + 8x^6 + 8x^2 - 6$ | $x^{12} + 14x^{10} + 66x^8 - 968x^4 - 2904x^2 - 2662$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,59 | $\frac{169}{48}$ |
| $x^{12} - 6x^{10} - 2x^8 + 4x^6 + 6x^4 - 2$ | $x^{12} - 42x^{10} + 324x^8 + 2700x^6 - 2754x^4 - 14580x^2 - 1458$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{23}{6} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 2x^{10} + 8x^8 + 4x^6 + 8x^4 + 8x^2 - 6$ | $x^{12} + 16x^{10} + 94x^8 + 240x^6 + 236x^4 - 88$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} + 8x^6 + 8x^2 - 2$ | $x^{12} + 30x^{10} - 1530x^8 - 58500x^6 - 722100x^4 - 3880500x^2 - 7801250$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 4x^8 - 2x^4 - 6$ | $x^{12} - 4x^{10} - 2x^8 + 56x^6 - 156x^4 + 176x^2 - 88$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + 6x^8 + 4x^4 + 2$ | $x^{12} + 42x^{10} + 708x^8 + 5760x^6 + 23400x^4 + 40500x^2 + 11250$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,59 | $\frac{169}{48}$ |
| $x^{12} - 6x^{10} + 6x^8 - 4x^6 + 2x^4 - 6$ | $x^{12} - 2x^{10} + 8x^8 + 44x^6 + 34x^4 - 20x^2 - 22$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,92 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} + 4x^6 - 4x^4 + 6$ | $x^{12} - 18x^{10} + 90x^8 - 204x^6 + 228x^4 - 108x^2 + 6$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} - 4x^6 - 4x^4 + 8x^2 - 6$ | $x^{12} + 72x^{10} + 1440x^8 + 15840x^6 - 21600x^4 - 593568x^2 - 1908576$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 2x^{10} + 8x^6 + 6x^4 - 6$ | $x^{12} + 42x^{10} + 696x^8 + 600x^6 - 100890x^4 + 538200x^2 - 799350$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} - 6x^8 + 8x^6 + 2$ | $x^{12} + 14x^{10} + 64x^8 + 72x^6 - 172x^4 - 220x^2 + 242$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,59 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} + 8x^8 - 2x^4 + 2$ | $x^{12} + 4x^{10} - 4x^9 - 15x^8 + 32x^7 + 40x^6 - 184x^5 + 239x^4 - 160x^3 + 60x^2 - 12x + 1$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} - 2x^8 + 4x^6 + 2x^4 + 6$ | $x^{12} - 6x^{10} + 12x^8 + 52x^6 - 54x^4 + 36x^2 + 6$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} + 2x^8 + 4x^6 + 2x^4 + 2$ | $x^{12} + 2x^{10} - 38x^8 + 52x^6 + 522x^4 - 2184x^2 + 2450$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} - 6x^8 + 6$ | $x^{12} - 16x^{10} + 42x^8 + 160x^6 - 420x^4 - 288x^2 + 216$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} - 6x^8 + 8x^6 + 4x^4 + 8x^2 + 6$ | $x^{12} - 4x^{10} - 38x^8 + 128x^6 + 188x^4 + 176x^2 + 88$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,59 | $\frac{169}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 2x^{10} + 8x^8 + 8x^4 + 6$ | $x^{12} + 48x^{10} + 810x^8 + 4440x^6 + 2700x^4 - 10800x^2 - 9000$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 8x^8 + 8x^6 + 2$ | $x^{12} - 8x^{10} + 22x^8 - 308x^4 + 704x^2 + 968$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + 6$ | $x^{12} + 54x^{10} + 810x^8 + 4320x^6 - 72900x^2 - 182250$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 4x^8 + 8x^6 - 6x^4 - 2$ | $x^{12} - 18x^{10} - 90x^8 + 2160x^6 + 4950x^4 - 67500x^2 - 281250$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 8x^4 + 4x^2 - 6$ | $x^{12} + 20x^{10} + 198x^8 + 976x^6 + 1788x^4 + 1008x^2 - 216$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 23 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + 4x^8 + 4x^6 + 6x^4 + 8x^2 - 6$ | $x^{12} - 18x^{10} - 270x^8 - 1560x^6 - 71010x^4 - 483228x^2 - 1053366$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 7 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 2x^8 + 8x^6 + 4x^4 + 8x^2 + 6$ | $x^{12} - 6x^{10} + 12x^8 - 24x^6 + 72x^4 - 108x^2 + 54$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,59 | $\frac{169}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 2x^{10} - 6x^8 + 8x^4 + 2$ | $x^{12} - 14x^{10} + 64x^8 - 72x^6 - 172x^4 + 220x^2 + 242$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} + 2x^8 + 6$ | $x^{12} - 12x^{10} - 16x^8 + 448x^6 - 960x^4 - 1152x^2 + 3456$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} - 4x^8 - 4x^6 - 4x^4 - 4x^2 + 6$ | $x^{12} + 2x^{10} - 20x^8 - 44x^6 + 220x^4 - 132x^2 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} - 4x^6 - 6x^4 + 8x^2 + 6$ | $x^{12} - 30x^{10} + 90x^8 + 2400x^6 - 12150x^4 + 40500x^2 - 56250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} - 4x^6 + 4x^4 - 6$ | $x^{12} - 36x^{10} + 576x^8 - 2304x^6 - 157680x^4 - 23328x^2 - 864$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} + 8x^8 - 4x^2 - 6$ | $x^{12} + 22x^{10} + 100x^8 + 188x^6 + 156x^4 + 36x^2 - 54$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} - 2x^8 + 4x^4 + 8x^2 - 6$ | $x^{12} + 12x^{10} - 34x^8 + 8x^6 - 36x^4 + 64x^2 - 24$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{85}{24}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} - 6x^{10} + 2$ | $x^{12} + 16x^{10} + 110x^8 + 440x^6 + 1100x^4 + 1584x^2 + 968$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 8x^6 + 6$ | $x^{12} - 54x^{10} + 810x^8 - 4320x^6 + 72900x^2 - 182250$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} - 4x^8 - 2x^4 - 6$ | $x^{12} - 2x^{10} - 4x^8 + 16x^6 - 2x^4 - 22$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 4x^8 + 6x^4 + 2$ | $x^{12} - 4x^{10} - 62x^8 + 88x^6 + 1100x^4 + 1936x^2 + 968$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} - 4x^6 - 4x^4 + 8x^2 + 6$ | $x^{12} - 16x^{10} + 58x^8 + 72x^6 - 180x^4 - 16x^2 + 88$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 4x^8 + 6x^4 - 6$ | $x^{12} + 4x^{10} - 2x^8 - 56x^6 - 156x^4 - 176x^2 - 88$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} - 4x^8 + 8x^6 + 2x^4 - 2$ | $x^{12} - 1890x^8 - 59400x^6 - 674100x^4 - 2592000x^2 - 45000$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 6x^{10} + 2x^8 + 4x^6 + 6x^4 + 8x^2 - 2$ | $x^{12} + 18x^{10} + 112x^8 + 268x^6 + 166x^4 - 220x^2 - 242$ | $\left[\begin{array}{ccc} 8 & 8 & 23 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,61 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} + 2x^8 - 4x^6 - 4x^4 + 8x^2 - 2$ | $x^{12} + 14x^{10} + 56x^8 + 104x^6 + 4x^4 - 220x^2 - 242$ | $\left[\begin{array}{ccc} 8 & 8 & 23 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,59 | $\frac{169}{48}$ |
| $x^{12} + 6x^{10} - 4x^8 + 8x^6 - 6x^4 + 6$ | $x^{12} + 14x^{10} + 60x^8 + 44x^6 - 66x^4 + 968x^2 + 2662$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 23 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 8x^8 - 4x^6 + 8x^2 - 6$ | $x^{12} - 6x^{10} + 60x^6 - 120x^4 + 88x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 23 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 8x^8 + 8x^6 + 6x^4 - 6$ | $x^{12} - 18x^{10} - 114x^8 + 5760x^6 - 42030x^4 + 60300x^2 - 25350$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} + 8x^2 - 2$ | $x^{12} - 36x^{10} - 486x^8 - 1080x^6 + 4860x^4 - 145800$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 8x^8 + 8x^6 + 2x^4 + 4x^2 - 6$ | $x^{12} - 20x^{10} + 158x^8 - 592x^6 + 1300x^4 - 1600x^2 + 1000$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 3 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 2x^{10} - 4x^6 + 6x^4 + 8x^2 + 2$ | $x^{12} - 30x^{10} + 310x^8 - 1352x^6 + 1974x^4 + 836x^2 + 242$ | $\left[\begin{array}{ccccccc} 4 & 4 & 2 & 8 & 8 & 3 & 7 \\ 3 & 3 & 3 & 3 & 3 & 2 & 23 \\ & & & & & & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} - 4x^8 + 4x^6 - 6x^4 - 2$ | $x^{12} + 2x^{10} - 132x^8 + 616x^6 - 506x^4 - 880x^2 - 242$ | $\left[\begin{array}{ccccccc} 2 & 8 & 8 & 8 & 3 & 7 & 23 \\ & 3 & 3 & 3 & 3 & 2 & 23 \\ & & & & & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 2x^8 - 2$ | $x^{12} + 18x^{10} - 36x^8 - 1512x^6 - 4860x^4 - 4860x^2 - 1458$ | $\left[\begin{array}{ccccccc} 4 & 4 & 8 & 8 & 8 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 & 23 \\ & & & & & & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} - 4x^6 + 8x^4 + 6$ | $x^{12} - 30x^{10} + 324x^8 - 1408x^6 + 1188x^4 + 4840x^2 + 2662$ | $\left[\begin{array}{ccccccc} 4 & 4 & 2 & 8 & 8 & 3 & 7 \\ 3 & 3 & 3 & 3 & 3 & 2 & 23 \\ & & & & & & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} + 8x^8 + 8x^6 + 6x^4 + 4x^2 - 2$ | $x^{12} + 26x^{10} + 328x^8 + 1576x^6 + 4470x^4 + 8100x^2 + 6750$ | $\left[\begin{array}{ccccccc} 4 & 4 & 8 & 8 & 8 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 & 23 \\ & & & & & & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} + 8x^8 + 4x^6 - 4x^4 + 6$ | $x^{12} - 14x^{10} + 74x^8 - 172x^6 + 188x^4 - 100x^2 + 22$ | $\left[\begin{array}{ccccccc} 2 & 8 & 8 & 8 & 3 & 7 & 23 \\ & 3 & 3 & 3 & 3 & 2 & 23 \\ & & & & & & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} - 6x^8 - 4x^6 - 6x^4 + 8x^2 - 6$ | $x^{12} - 26x^{10} + 164x^8 - 80x^6 - 282x^4 + 252x^2 - 54$ | $\left[\begin{array}{ccccccc} 4 & 4 & 8 & 8 & 8 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 & 23 \\ & & & & & & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 2x^{10} + 2x^8 + 4x^4 - 2$ | $x^{12} + 18x^{10} + 94x^8 + 188x^6 + 112x^4 + 16x^2 - 2$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 6 \end{array} \right]^2_3$ | T: 12,88 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} - 6x^8 + 8x^6 - 6x^4 + 2$ | $x^{12} - 6x^{10} + 12x^8 - 8x^6 + 162x^4 - 324x^2 + 162$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 6 \end{array} \right]^2_3$ | T: 12,61 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} - 4x^8 - 2x^4 + 2$ | $x^{12} - 10x^{10} - 30x^8 + 44x^6 + 286x^4 - 484x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 8x^6 - 2x^4 + 8x^2 - 6$ | $x^{12} - 18x^{10} - 18x^8 + 1476x^6 - 8802x^4 + 121500x^2 - 843750$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 4x^8 + 4x^6 + 4x^4 - 4x^2 + 6$ | $x^{12} - 44x^{10} + 682x^8 - 4048x^6 + 11836x^4 - 17424x^2 + 10648$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 23 & 23 \\ 3 & 6 & 6 \end{array} \right]^2_3$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} - 6x^8 + 4x^6 - 4x^4 + 8x^2 - 6$ | $x^{12} + 18x^{10} - 22x^8 - 292x^6 + 420x^4 + 864x^2 - 1350$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 23 & 23 \\ 3 & 6 & 6 \end{array} \right]^2_3$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} + 8x^8 + 2x^4 + 8x^2 - 2$ | $x^{12} + 6x^{10} - 6x^8 + 4x^6 - 14x^4 + 12x^2 - 2$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,141 | $\frac{175}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 2x^{10} + 2x^8 + 2x^4 + 2$ | $x^{12} - 44x^{10} + 682x^8 - 5280x^6 + 22396x^4 - 50336x^2 + 47432$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,92 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} + 2x^8 - 4x^6 - 6x^4 + 8x^2 + 2$ | $x^{12} + 20x^{10} + 162x^8 + 736x^6 + 2268x^4 + 4576x^2 + 4232$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 3 & 3 \\ 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - 6x^8 + 4x^6 - 4x^4 + 2$ | $x^{12} - 14x^{10} + 10x^8 + 276x^6 + 356x^4 - 56x^2 + 2$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 3 & 3 \\ 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} - 4x^8 + 8x^6 - 6x^4 - 2$ | $x^{12} - 90x^{10} - 2010x^8 - 18900x^6 - 82350x^4 - 139500x^2 - 31250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 7 \\ 3 & 3 & 2 \\ 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 8x^6 + 2x^4 + 4x^2 - 6$ | $x^{12} - 16x^{10} + 130x^8 - 592x^6 + 1580x^4 - 2000x^2 + 1000$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 3 & 3 \\ 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} + 8x^2 - 2$ | $x^{12} + 42x^{10} + 504x^8 + 2328x^6 - 24984x^4 + 72360x^2 - 238050$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 7 \\ 3 & 3 & 2 \\ 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} + 8x^6 + 6x^4 + 4x^2 + 6$ | $x^{12} + 8x^{10} + 22x^8 + 16x^6 + 12x^4 + 144x^2 + 216$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 3 & 3 \\ 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} - 6x^{10} - 4x^6 + 8x^2 - 6$ | $x^{12} - 16x^{10} + 94x^8 - 240x^6 + 236x^4 - 88$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} - 2x^8 - 4x^6 - 2x^4 + 6$ | $x^{12} - 6x^{10} + 12x^8 - 8x^6 + 18x^4 - 36x^2 + 54$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - 2x^8 - 4x^4 + 8x^2 - 6$ | $x^{12} - 12x^{10} - 114x^8 + 1000x^6 + 8700x^4 + 12000x^2 - 15000$ | $\left[\begin{array}{cccc} 8 & 8 & 3 & 23 \\ 3 & 3 & 6 & 6 \end{array} \right]_3^2$ | T: 12,59 | $\frac{169}{48}$ |
| $x^{12} + 6x^{10} - 2x^4 + 2$ | $x^{12} + 10x^{10} + 62x^8 + 220x^6 + 462x^4 + 484x^2 + 242$ | $\left[\begin{array}{cccc} 2 & 8 & 3 & 7 \\ & 8 & 3 & 2 \\ & 3 & 6 & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 8x^8 - 6x^4 + 4x^2 + 2$ | $x^{12} + 6x^{10} + 30x^8 - 80x^6 + 410x^4 - 352x^2 + 242$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 4x^4 + 6$ | $x^{12} + 10x^{10} - 44x^8 + 84x^6 - 72x^4 + 22$ | $\left[\begin{array}{cccc} 2 & 8 & 3 & 7 \\ & 8 & 3 & 2 \\ & 3 & 6 & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} - 4x^8 + 8x^6 + 2x^4 - 2$ | $x^{12} - 48x^{10} - 180x^9 - 381x^8 + 720x^7 + 21296x^6 + 118800x^5 + 361779x^4 + 727920x^3 + 747492x^2 - 190980x - 772829$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 2x^{10} - 4x^8 + 4x^6 + 4x^4 - 4x^2 + 6$ | $x^{12} - 2x^{10} - 20x^8 + 44x^6 + 220x^4 + 132x^2 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + 8x^8 + 8x^6 + 4x^2 - 6$ | $x^{12} + 2x^{10} - 30x^8 + 520x^6 + 540x^4 + 72x^2 - 54$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 2x^8 + 4x^6 - 2x^4 - 2$ | $x^{12} + 22x^{10} + 66x^8 - 1452x^6 - 11858x^4 - 31944x^2 - 29282$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,61 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} + 8x^8 - 4x^6 + 2x^4 + 8x^2 + 6$ | $x^{12} + 24x^{10} - 630x^8 + 3560x^6 - 6300x^4 + 2400x^2 - 1000$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 8x^8 - 4x^6 + 8x^4 + 6$ | $x^{12} - 10x^{10} + 38x^8 - 72x^6 + 76x^4 - 44x^2 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} + 8x^8 + 4x^6 + 6$ | $x^{12} - 6x^{10} - 8x^8 + 52x^6 + 120x^4 + 88x^2 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 2x^8 + 8x^6 + 8x^4 + 8x^2 - 6$ | $x^{12} + 8x^{10} - 66x^8 - 968x^6 - 4356x^4 - 9680x^2 - 10648$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,59 | $\frac{169}{48}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 6x^{10} + 4x^8 - 4x^6 - 2x^4 + 8x^2 + 2$ | $x^{12} + 6x^{10} + 18x^8 + 12x^6 + 18x^4 + 36x^2 + 18$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & 3 & \frac{7}{2} \\ & \frac{23}{6} & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} + 4x^6 + 2x^4 - 2$ | $x^{12} - 30x^{10} - 1080x^8 - 7500x^6 - 21150x^4 - 27000x^2 - 11250$ | $\left[\begin{array}{cccc} \frac{4}{3} & \frac{4}{3} & 2 & \frac{8}{3} \\ & \frac{8}{3} & 3 & \frac{7}{2} \\ & & \frac{23}{6} & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 4x^8 - 2x^4 - 6$ | $x^{12} - 8x^{10} + 18x^8 - 8x^6 + 12x^4 - 88$ | $\left[\begin{array}{cccc} \frac{4}{3} & \frac{4}{3} & 2 & \frac{8}{3} \\ & \frac{8}{3} & 3 & \frac{7}{2} \\ & & \frac{23}{6} & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} - 6x^8 + 4x^6 + 4x^4 + 8x^2 + 2$ | $x^{12} + 14x^{10} + 10x^8 - 276x^6 + 356x^4 + 56x^2 + 2$ | $\left[\begin{array}{cccc} \frac{4}{3} & \frac{4}{3} & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 & 3 \\ & & \frac{23}{6} & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} - 6x^8 - 6x^4 + 8x^2 - 6$ | $x^{12} - 6x^8 + 16x^6 - 36x^4 + 48x^2 - 24$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & 3 & \frac{23}{6} \\ & \frac{23}{6} & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,92 | $\frac{85}{24}$ |
| $x^{12} + 6x^{10} + 8x^6 - 4x^2 + 2$ | $x^{12} + 6x^{10} - 4x^8 - 36x^6 + 76x^4 - 60x^2 + 18$ | $\left[\begin{array}{cccc} \frac{4}{3} & \frac{4}{3} & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 & 3 \\ & & \frac{23}{6} & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} + 4x^8 - 4x^6 - 4x^4 - 4x^2 + 6$ | $x^{12} + 44x^{10} + 682x^8 + 4048x^6 + 11836x^4 + 17424x^2 + 10648$ | $\left[\begin{array}{cccc} \frac{4}{3} & \frac{4}{3} & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 & 3 \\ & & \frac{23}{6} & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} + 2x^8 + 2x^4 + 2$ | $x^{12} + 6x^{10} + 12x^8 + 8x^6 + 162x^4 + 324x^2 + 162$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & 3 & \frac{23}{6} \\ & \frac{23}{6} & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,92 | $\frac{85}{24}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 2x^{10} + 2x^8 + 8x^4 + 8x^2 - 6$ | $x^{12} - 14x^{10} + 66x^8 - 968x^4 + 2904x^2 - 2662$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,88 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} - 6x^8 + 8x^6 - 6x^4 + 2$ | $x^{12} + 44x^{10} + 682x^8 + 5280x^6 + 22396x^4 + 50336x^2 + 47432$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,61 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} + 8x^8 + 2x^4 - 2$ | $x^{12} + 10x^{10} + 58x^8 + 308x^6 + 1034x^4 + 1452x^2 - 242$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 8x^8 + 8x^6 + 2$ | $x^{12} - 2x^{10} - 22x^8 - 44x^6 + 44x^4 + 220x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 3 & 7 \\ 3 & 2 & 6 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} - 2x^8 + 4x^6 - 6x^4 + 8x^2 - 2$ | $x^{12} - 18x^{10} + 252x^8 - 348x^6 - 54x^4 + 324x^2 - 162$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,61 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} - 4x^6 - 4x^4 - 2$ | $x^{12} + 6x^{10} + 12x^8 + 8x^6 - 2$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 8x^8 + 4x^2 + 2$ | $x^{12} - 14x^{10} + 46x^8 + 228x^6 - 216x^2 + 162$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 3 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 2x^{10} + 8x^8 - 4x^6 - 6x^4 + 8x^2 - 2$ | $x^{12} - 60x^{10} + 1320x^8 - 12800x^6 + 45600x^4 + 48000x^2 - 80000$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + 2x^8 - 4x^6 + 4x^4 + 8x^2 + 6$ | $x^{12} - 16x^{10} + 98x^8 - 280x^6 + 412x^4 - 304x^2 + 88$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,59 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} + 2x^8 + 8x^6 + 2x^4 + 8x^2 - 6$ | $x^{12} - 6x^8 - 16x^6 - 36x^4 - 48x^2 - 24$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,61 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} + 6x^8 - 4x^6 - 6x^4 + 6$ | $x^{12} + 6x^{10} + 12x^8 - 52x^6 - 54x^4 - 36x^2 + 6$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,61 | $\frac{169}{48}$ |
| $x^{12} + 6x^{10} - 6x^8 + 8x^6 + 4x^4 + 8x^2 - 2$ | $x^{12} + 18x^{10} + 96x^8 + 132x^6 + 36x^4 - 36x^2 - 18$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,59 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} + 4x^8 + 4x^6 - 6x^4 - 2$ | $x^{12} - 6x^{10} + 6x^8 - 28x^6 - 42x^4 - 12x^2 - 2$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} - 4x^6 + 2x^4 + 8x^2 + 6$ | $x^{12} - 36x^{10} + 360x^8 - 160x^6 - 7200x^4 - 9600x^2 - 16000$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 6x^{10} - 6x^8 + 2x^4 + 8x^2 - 6$ | $x^{12} - 10x^{10} + 36x^8 - 44x^6 - 66x^4 - 44x^2 - 22$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \\ 6 \end{array} \Bigg]^2_3$ | T: 12,92 | $\frac{85}{24}$ |
| $x^{12} + 6x^{10} - 6x^8 + 8x^6 - 4x^4 + 8x^2 + 6$ | $x^{12} + 4x^{10} - 38x^8 - 128x^6 + 188x^4 - 176x^2 + 88$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \\ 6 \end{array} \Bigg]^2_3$ | T: 12,88 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} + 4x^4 + 8x^2 - 2$ | $x^{12} - 2x^{10} - 98x^8 - 396x^6 - 264x^4 + 484x^2 - 242$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{c} 7 \\ 2 \\ 23 \\ 6 \\ 6 \end{array} \Bigg]^2_3$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 8x^6 + 4x^2 - 6$ | $x^{12} + 2x^{10} - 18x^8 - 20x^6 + 24x^4 + 432x^2 - 54$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{c} 3 \\ 3 \\ 23 \\ 6 \\ 6 \end{array} \Bigg]^2_3$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - 6x^8 + 4x^6 + 2x^4 + 8x^2 - 6$ | $x^{12} + 8x^{10} - 62x^8 - 752x^6 - 2052x^4 - 1296x^2 - 216$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{c} 3 \\ 3 \\ 23 \\ 6 \\ 6 \end{array} \Bigg]^2_3$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} + 2x^8 - 4x^6 - 2x^4 + 8x^2 - 2$ | $x^{12} - 22x^{10} + 66x^8 + 1452x^6 - 11858x^4 + 31944x^2 - 29282$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \\ 6 \end{array} \Bigg]^2_3$ | T: 12,92 | $\frac{85}{24}$ |
| $x^{12} + 6x^{10} - 6x^8 + 4x^6 + 4x^4 - 6$ | $x^{12} - 24x^{10} + 206x^8 - 728x^6 + 732x^4 + 720x^2 - 216$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{c} 3 \\ 3 \\ 23 \\ 6 \\ 6 \end{array} \Bigg]^2_3$ | T: 12,188 | $\frac{1375}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 6x^{10} + 8x^6 - 4x^4 + 6$ | $x^{12} - 4x^{11} - 12x^{10} + 120x^9 - 213x^8 - 432x^7 + 1528x^6 + 360x^5 - 6109x^4 - 7220x^3 - 2704x^2 - 216x + 199$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{8}{3} \\ & 3 & 3 \\ & & 3 \end{array} \right] \frac{7}{2} \frac{23}{6} \frac{23}{6} \left. \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} - 6x^8 - 4x^6 + 4x^4 - 2$ | $x^{12} - 24x^{10} - 44x^9 + 285x^8 + 704x^7 - 616x^6 - 8624x^5 + 1741x^4 + 24288x^3 + 52560x^2 - 142956x + 46619$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{8}{3} \\ & 3 & 3 \\ & & 3 \end{array} \right] \frac{23}{6} \frac{23}{6} \left. \right]_3^2$ | T: 12,88 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} - 2x^8 + 4x^6 - 6x^4 + 8x^2 + 6$ | $x^{12} - 6x^{10} + 12x^8 - 28x^6 + 18x^4 - 12x^2 + 6$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ & 3 & \frac{23}{6} \\ & & \frac{23}{6} \end{array} \right] \frac{2}{3} \left. \right]_3^2$ | T: 12,61 | $\frac{169}{48}$ |
| $x^{12} - 6x^{10} + 8x^8 - 4x^6 + 8x^4 + 2$ | $x^{12} - 4x^{10} - 18x^8 + 88x^6 + 44x^4 + 968$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & 2 & \frac{8}{3} \\ & & \frac{8}{3} \end{array} \right] \frac{3}{2} \frac{23}{6} \frac{23}{6} \left. \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 4x^8 + 4x^6 - 2x^4 + 2$ | $x^{12} + 18x^{10} + 180x^8 + 1104x^6 + 4050x^4 + 7992x^2 + 6498$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{8}{3} \\ & 3 & 3 \\ & & 3 \end{array} \right] \frac{7}{2} \frac{23}{6} \frac{23}{6} \left. \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 2x^8 - 4x^6 - 2x^4 + 8x^2 - 2$ | $x^{12} + 14x^{10} + 56x^8 - 286x^4 - 484x^2 - 242$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{8}{3} \\ & 3 & 3 \\ & & 3 \end{array} \right] \frac{23}{6} \frac{23}{6} \left. \right]_3^2$ | T: 12,92 | $\frac{85}{24}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 2x^{10} - 6x^8 - 4x^6 + 2x^4 + 8x^2 - 6$ | $x^{12} - 16x^{10} - 122x^8 + 112x^6 + 900x^4 - 1008x^2 - 216$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} - 4x^8 + 6x^4 - 6$ | $x^{12} + 2x^{10} - 4x^8 - 16x^6 - 2x^4 - 22$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 6x^4 + 2$ | $x^{12} - 10x^{10} + 62x^8 - 220x^6 + 462x^4 - 484x^2 + 242$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} - 2x^8 - 4x^6 - 6x^4 - 6$ | $x^{12} + 2x^{10} + 8x^8 - 44x^6 + 34x^4 + 20x^2 - 22$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,61 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} + 2x^8 + 2x^4 + 8x^2 - 6$ | $x^{12} + 6x^{10} + 12x^8 + 8x^6 - 6x^4 - 12x^2 - 6$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,92 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} + 6x^8 - 4x^4 + 2$ | $x^{12} + 2x^{10} - 28x^8 + 72x^4 + 108x^2 + 162$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,88 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} + 8x^8 + 8x^6 + 2x^4 - 4x^2 + 2$ | $x^{12} - 18x^{10} + 72x^8 + 92x^6 - 10x^4 + 220x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} - 6x^4 + 8x^2 - 2$ | $x^{12} - 2x^{10} - 32x^8 - 176x^6 - 374x^4 - 968x^2 - 242$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 2x^{10} + 4x^8 + 8x^6 - 6x^4 - 2$ | $x^{12} - 30x^{10} - 180x^8 - 300x^6 + 24750x^4 - 281250$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 7 & 23 \\ 2 & 6 \end{array} \left. \vphantom{\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 2x^8 + 8x^6 - 4x^4 + 8x^2 + 6$ | $x^{12} + 6x^{10} + 12x^8 + 24x^6 + 72x^4 + 108x^2 + 54$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \end{array} \right]_3 \begin{array}{cc} 3 & 23 \\ 3 & 6 \end{array} \left. \vphantom{\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,88 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} + 2x^4 - 2$ | $x^{12} + 14x^{10} + 16x^8 + 16x^6 + 2x^4 - 2$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \end{array} \right]_3 \begin{array}{cc} 7 & 23 \\ 2 & 6 \end{array} \left. \vphantom{\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} + 2x^8 + 8x^2 - 6$ | $x^{12} - 8x^{10} - 66x^8 + 968x^6 - 4356x^4 + 9680x^2 - 10648$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \end{array} \right]_3 \begin{array}{cc} 3 & 23 \\ 3 & 6 \end{array} \left. \vphantom{\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,88 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} + 8x^6 + 8x^4 + 8x^2 - 6$ | $x^{12} - 6x^{10} + 38x^8 - 88x^6 - 176x^4 + 132x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 8 & 7 \\ 3 & 2 \end{array} \begin{array}{cc} 3 & 23 \\ 3 & 6 \end{array} \left. \vphantom{\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + 2x^8 - 4x^6 + 4x^4 + 2$ | $x^{12} - 30x^{10} + 294x^8 - 880x^6 - 592x^4 - 80x^2 + 2$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ & 8 & 23 \end{array} \begin{array}{cc} 7 & 23 \\ 2 & 6 \end{array} \left. \vphantom{\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + 8x^8 - 4x^6 - 2x^4 + 8x^2 - 6$ | $x^{12} + 2x^{10} - 16x^8 + 20x^6 - 18x^4 + 32x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 3 & 3 \\ & 8 & 7 \end{array} \begin{array}{cc} 3 & 23 \\ 3 & 6 \end{array} \left. \vphantom{\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 2x^{10} + 4x^6 - 6x^4 + 8x^2 - 2$ | $x^{12} + 90x^{10} + 2970x^8 + 43200x^6 + 230850x^4 - 364500x^2 - 911250$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} - 2$ | $x^{12} - 18x^{10} - 96x^8 + 4168x^6 - 62424x^4 + 754440x^2 - 3948050$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} - 6x^8 + 8x^4 + 8x^2 - 2$ | $x^{12} - 90x^{10} + 1008x^8 - 3564x^6 + 1944x^4 + 6804x^2 - 1458$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - 6x^8 + 4x^6 - 4x^4 + 8x^2 + 6$ | $x^{12} + 26x^{10} + 264x^8 + 1320x^6 + 3388x^4 + 4356x^2 + 2662$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,88 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} + 4x^8 - 4x^6 + 2x^4 + 6$ | $x^{12} - 10x^{10} + 46x^8 - 132x^6 + 198x^4 - 132x^2 + 22$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 4x^4 + 8x^2 - 2$ | $x^{12} - 14x^{10} + 16x^8 + 264x^6 + 396x^4 - 242$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 8x^8 + 6x^4 + 2$ | $x^{12} - 6x^{10} + 104x^6 + 342x^4 + 440x^2 + 242$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,141 | $\frac{175}{48}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 6x^{10} - 2x^8 - 4x^6 - 6x^4 + 6$ | $x^{12} + 18x^{10} + 102x^8 + 264x^6 + 342x^4 + 216x^2 + 54$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,61 | $\frac{169}{48}$ |
| $x^{12} + 6x^{10} + 2x^8 + 4x^6 + 4x^4 - 6$ | $x^{12} - 10x^{10} - 26x^8 + 376x^6 + 168x^4 - 3528x^2 - 1350$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{3}{3} \frac{23}{6} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} + 8x^8 + 8x^6 - 4x^4 + 8x^2 + 2$ | $x^{12} + 6x^{10} + 16x^8 + 24x^6 + 20x^4 + 8x^2 + 2$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \frac{7}{2} \frac{23}{6} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 8x^8 - 4x^6 + 2x^4 + 8x^2 + 6$ | $x^{12} + 12x^{10} + 90x^8 + 120x^6 - 2700x^4 - 10800x^2 - 9000$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{7}{2} \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + 8x^8 - 4x^6 - 4x^4 - 2$ | $x^{12} + 2x^{10} - 4x^8 + 160x^6 + 768x^4 + 792x^2 - 242$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \frac{7}{2} \frac{23}{6} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 6x^8 + 4x^6 + 2x^4 + 8x^2 - 6$ | $x^{12} + 2x^{10} - 42x^8 + 136x^6 - 186x^4 + 112x^2 - 22$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,61 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} + 2x^8 + 4x^6 + 4x^4 + 8x^2 - 2$ | $x^{12} + 6x^{10} + 14x^8 + 16x^6 + 8x^4 - 2$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{23}{6} \right]_3^2$ | T: 12,88 | $\frac{85}{24}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 6x^{10} + 8x^6 - 2x^4 + 4x^2 + 6$ | $x^{12} + 6x^{10} + 24x^8 + 56x^6 + 102x^4 + 108x^2 + 54$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} - 4x^6 + 8x^2 - 6$ | $x^{12} - 2x^8 - 88x^6 - 164x^4 - 176x^2 - 88$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 7 \\ 2 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 8x^8 + 8x^6 - 4x^4 + 8x^2 + 6$ | $x^{12} + 22x^{10} + 220x^8 + 1452x^6 + 5808x^4 + 10648x^2 + 2662$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 7 \\ 2 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 4x^8 + 4x^6 - 2x^4 + 8x^2 - 6$ | $x^{12} - 54x^{10} - 2340x^8 - 4320x^6 + 1530x^4 + 2376x^2 - 3174$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 7 \\ 2 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 8x^8 + 4x^4 + 8x^2 + 6$ | $x^{12} - 14x^{10} + 66x^8 - 152x^6 + 196x^4 - 132x^2 + 22$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 7 \\ 2 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} - 4x^6 - 6x^4 + 8x^2 - 2$ | $x^{12} - 30x^{10} + 330x^8 - 1600x^6 + 2850x^4 + 1500x^2 - 1250$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 7 \\ 2 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 4x^4 + 8x^2 + 6$ | $x^{12} - 22x^{10} + 220x^8 - 1452x^6 + 5808x^4 - 10648x^2 + 2662$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 7 \\ 2 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 6x^{10} - 6x^8 + 8x^6 + 8x^4 + 6$ | $x^{12} - 46x^8 + 104x^6 + 156x^4 - 432x^2 + 216$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 2x^8 - 4x^6 + 6x^4 + 8x^2 + 6$ | $x^{12} + 14x^{10} + 82x^8 + 248x^6 + 386x^4 + 256x^2 + 22$ | $\begin{bmatrix} 2 & 8 & 8 & 3 & 3 & 3 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 12,92 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} - 4x^8 + 8x^6 - 6x^4 - 2$ | $x^{12} - 156x^{10} - 180x^9 + 9801x^8 + 12240x^7 - 265756x^6 - 236880x^5 + 2831631x^4 - 604800x^3 - 11455560x^2 + 16055100x - 6218075$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 & 3 & 3 & 3 & 7 & 23 & 23 \\ 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 & 2 & 6 & 6 \end{bmatrix}_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 8x^8 + 8x^6 - 6x^4 + 8x^2 + 6$ | $x^{12} + 44x^{10} + 726x^8 + 4840x^6 + 15004x^4 + 21296x^2 + 10648$ | $\begin{bmatrix} 2 & 8 & 8 & 3 & 3 & 3 & 7 & 23 & 23 \\ 3 & 3 & 3 & 3 & 3 & 3 & 2 & 6 & 6 \end{bmatrix}_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} + 8x^8 + 8x^6 - 4x^4 + 8x^2 - 6$ | $x^{12} - 126x^{10} + 6444x^8 - 167820x^6 + 2224800x^4 - 11844000x^2 - 5133750$ | $\begin{bmatrix} 2 & 8 & 8 & 3 & 3 & 3 & 7 & 23 & 23 \\ 3 & 3 & 3 & 3 & 3 & 3 & 2 & 6 & 6 \end{bmatrix}_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} + 2x^8 + 8x^6 + 8x^4 + 2$ | $x^{12} + 22x^{10} - 88x^8 - 1936x^6 + 15004x^4 - 37268x^2 + 29282$ | $\begin{bmatrix} 8 & 8 & 3 & 3 & 3 & 3 & 23 & 23 \\ 3 & 3 & 3 & 3 & 3 & 3 & 6 & 6 \end{bmatrix}_3^2$ | T: 12,59 | $\frac{169}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 2x^{10} + 2x^8 + 4x^6 + 6x^4 + 8x^2 + 6$ | $x^{12} - 2x^{10} - 6x^8 + 12x^6 + 14x^4 - 40x^2 + 22$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,92 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} + 8x^6 + 8x^2 - 2$ | $x^{12} - 42x^{10} + 504x^8 - 2328x^6 - 24984x^4 - 72360x^2 - 238050$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{8}{3} & 3 \\ & & \frac{7}{2} \end{array} \right]_3^2 \left[\begin{array}{ccc} 23 & & \\ & \frac{23}{6} & \\ & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 2x^8 + 4x^6 + 4x^4 - 2$ | $x^{12} + 4x^{10} - 4x^9 + 17x^8 - 32x^7 - 40x^6 + 184x^5 - 239x^4 + 160x^3 - 60x^2 + 12x - 1$ | $\left[\begin{array}{ccc} 8 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,59 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} - 6x^8 - 4x^6 + 4x^4 - 2$ | $x^{12} - 10x^{10} + 42x^8 - 132x^6 + 220x^4 - 242$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,88 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} + 8x^8 + 2$ | $x^{12} + 8x^{10} + 22x^8 - 308x^4 - 704x^2 + 968$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{8}{3} & 3 \\ & & \frac{7}{2} \end{array} \right]_3^2 \left[\begin{array}{ccc} 23 & & \\ & \frac{23}{6} & \\ & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 8x^8 + 8x^6 + 6$ | $x^{12} - 36x^{10} + 360x^8 - 1280x^6 + 9600x^2 - 16000$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{8}{3} & 3 \\ & & \frac{7}{2} \end{array} \right]_3^2 \left[\begin{array}{ccc} 23 & & \\ & \frac{23}{6} & \\ & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + 8x^4 + 8x^2 - 6$ | $x^{12} - 22x^{10} + 682x^8 - 2596x^6 + 1980x^4 + 2420x^2 - 2662$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{8}{3} & 3 \\ & & \frac{7}{2} \end{array} \right]_3^2 \left[\begin{array}{ccc} 23 & & \\ & \frac{23}{6} & \\ & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} - 4x^8 + 6x^4 + 2$ | $x^{12} - 14x^{10} + 60x^8 - 44x^6 - 198x^4 + 242$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{8}{3} & 3 \\ & & \frac{7}{2} \end{array} \right]_3^2 \left[\begin{array}{ccc} 23 & & \\ & \frac{23}{6} & \\ & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 6x^{10} + 2x^8 + 8x^6 + 6$ | $x^{12} - 2x^{10} - 74x^8 - 196x^6 - 12x^4 + 144x^2 + 54$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 8x^8 + 2$ | $x^{12} + 2x^{10} - 22x^8 + 44x^6 + 44x^4 - 220x^2 + 242$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 8x^6 - 4x^4 - 2$ | $x^{12} + 2x^{10} - 98x^8 + 396x^6 - 264x^4 - 484x^2 - 242$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} + 6x^8 + 4x^6 + 2x^4 - 2$ | $x^{12} + 6x^{10} - 12x^8 - 88x^6 + 150x^4 + 492x^2 - 1250$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} - 6x^8 + 4x^6 - 4x^4 - 2$ | $x^{12} + 10x^{10} + 42x^8 + 132x^6 + 220x^4 - 242$ | $\left[\begin{array}{cccc} 8 & 8 & 3 & 23 \\ 3 & 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,59 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} + 4x^8 + 8x^6 + 2x^4 - 2$ | $x^{12} + 18x^{10} - 90x^8 - 2160x^6 + 4950x^4 + 67500x^2 - 281250$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + 4x^8 - 4x^6 + 4x^4 - 4x^2 + 6$ | $x^{12} + 16x^{10} + 106x^8 + 352x^6 + 572x^4 + 352x^2 + 88$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 6x^{10} + 8x^6 - 4x^4 + 8x^2 + 6$ | $x^{12} + 14x^{10} + 66x^8 + 152x^6 + 196x^4 + 132x^2 + 22$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & 3 & \frac{7}{2} \\ & \frac{8}{3} & 3 & \frac{23}{6} \\ & & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 4x^8 + 4x^6 - 2x^4 + 2$ | $x^{12} - 6x^{10} + 36x^8 - 68x^6 + 342x^4 - 1248x^2 + 1250$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & 3 & \frac{7}{2} \\ & \frac{8}{3} & 3 & \frac{23}{6} \\ & & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} + 4x^8 + 8x^6 - 6x^4 + 6$ | $x^{12} + 18x^{10} + 158x^8 + 1100x^6 + 4642x^4 + 6292x^2 + 2662$ | $\left[\begin{array}{cccc} \frac{4}{3} & \frac{4}{3} & 2 & \frac{8}{3} \\ & \frac{4}{3} & \frac{8}{3} & 3 \\ & & \frac{8}{3} & 3 \\ & & & \frac{7}{2} \\ & & & \frac{23}{6} \\ & & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 8x^6 + 6x^4 + 8x^2 - 6$ | $x^{12} + 18x^{10} - 114x^8 - 5760x^6 - 42030x^4 - 60300x^2 - 25350$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & 3 & \frac{7}{2} \\ & \frac{8}{3} & 3 & \frac{23}{6} \\ & & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} - 4x^8 + 4x^6 - 2x^4 + 2$ | $x^{12} - 6x^{10} + 18x^8 - 12x^6 + 18x^4 - 36x^2 + 18$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & 3 & \frac{7}{2} \\ & \frac{8}{3} & 3 & \frac{23}{6} \\ & & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} + 8x^8 + 4x^6 + 2x^4 + 8x^2 - 2$ | $x^{12} + 60x^{10} + 1320x^8 + 12800x^6 + 45600x^4 - 48000x^2 - 80000$ | $\left[\begin{array}{cccc} \frac{4}{3} & \frac{4}{3} & 2 & \frac{8}{3} \\ & \frac{4}{3} & \frac{8}{3} & 3 \\ & & \frac{8}{3} & 3 \\ & & & \frac{7}{2} \\ & & & \frac{23}{6} \\ & & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} + 8x^8 + 6x^4 + 4x^2 + 6$ | $x^{12} - 6x^{10} + 24x^8 - 56x^6 + 102x^4 - 108x^2 + 54$ | $\left[\begin{array}{cccc} \frac{4}{3} & \frac{4}{3} & \frac{8}{3} & 3 \\ & \frac{4}{3} & \frac{8}{3} & 3 \\ & & \frac{8}{3} & 3 \\ & & & \frac{7}{2} \\ & & & \frac{23}{6} \\ & & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 2x^{10} + 8x^8 + 8x^6 - 4x^4 - 2$ | $x^{12} + 6x^{10} + 8x^8 - 8x^6 - 12x^4 + 8x^2 - 2$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3 \left[\begin{array}{ccc} & & 7 \\ & & 2 \\ & & 23 \\ & & 6 \\ & & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} - 4x^6 + 4x^4 - 6$ | $x^{12} - 72x^{10} + 1440x^8 - 15840x^6 - 21600x^4 + 593568x^2 - 1908576$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3 \left[\begin{array}{ccc} & & 7 \\ & & 2 \\ & & 23 \\ & & 6 \\ & & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} - 6x^8 - 4x^6 - 2x^4 + 8x^2 + 6$ | $x^{12} - 14x^{10} + 82x^8 - 248x^6 + 386x^4 - 256x^2 + 22$ | $\left[\begin{array}{ccc} 8 & 8 & 8 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3 \left[\begin{array}{ccc} & & 23 \\ & & 6 \\ & & 6 \end{array} \right]_3^2$ | T: 12,61 | $\frac{169}{48}$ |
| $x^{12} + 6x^{10} + 2x^8 + 4x^6 + 4x^4 + 8x^2 - 2$ | $x^{12} - 14x^{10} + 56x^8 - 104x^6 + 4x^4 + 220x^2 - 242$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3 \left[\begin{array}{ccc} & & 23 \\ & & 6 \\ & & 6 \end{array} \right]_3^2$ | T: 12,88 | $\frac{85}{24}$ |
| $x^{12} + 6x^{10} + 4x^6 - 4x^4 + 8x^2 + 2$ | $x^{12} + 6x^{10} - 60x^6 + 108x^4 - 72x^2 + 18$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3 \left[\begin{array}{ccc} & & 7 \\ & & 2 \\ & & 23 \\ & & 6 \\ & & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 4x^8 - 4x^6 - 6x^4 + 8x^2 - 2$ | $x^{12} + 18x^{10} + 132x^8 + 352x^6 - 682x^4 - 6424x^2 - 11858$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3 \left[\begin{array}{ccc} & & 7 \\ & & 2 \\ & & 23 \\ & & 6 \\ & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 8x^8 + 4x^4 + 8x^2 - 6$ | $x^{12} - 54x^{10} + 684x^8 + 12060x^6 - 216000x^4 + 1053000x^2 - 1653750$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3 \left[\begin{array}{ccc} & & 7 \\ & & 2 \\ & & 23 \\ & & 6 \\ & & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} - 6x^4 + 4x^2 + 2$ | $x^{12} + 6x^{10} + 16x^8 + 24x^6 + 10x^4 - 12x^2 + 2$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3 \left[\begin{array}{ccc} & & 8 \\ & & 3 \\ & & 3 \\ & & 23 \\ & & 6 \\ & & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} + 2x^{10} + 2x^4 + 2$ | $x^{12} + 30x^{10} + 310x^8 + 1352x^6 + 1974x^4 - 836x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 4x^4 + 2$ | $x^{12} - 22x^{10} + 308x^8 - 2420x^6 + 12584x^4 - 31944x^2 + 29282$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} - 2x^8 - 4x^4 + 2$ | $x^{12} + 6x^{10} + 12x^8 + 24x^6 + 24x^4 + 12x^2 + 2$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,88 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} + 6x^8 - 4x^6 + 6x^4 + 6$ | $x^{12} + 26x^8 + 32x^6 + 84x^4 - 144x^2 + 216$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} + 2x^8 + 4x^6 + 4x^4 + 6$ | $x^{12} + 10x^{10} + 44x^8 + 108x^6 + 144x^4 + 92x^2 + 22$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,59 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} + 6x^8 + 4x^6 + 2x^4 + 6$ | $x^{12} - 18x^{10} + 102x^8 - 264x^6 + 342x^4 - 216x^2 + 54$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,92 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} + 2x^8 + 2$ | $x^{12} - 22x^{10} - 88x^8 + 1936x^6 + 15004x^4 + 37268x^2 + 29282$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,88 | $\frac{85}{24}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 6x^{10} - 6x^8 + 4x^6 + 2x^4 + 8x^2 + 2$ | $x^{12} + 60x^{10} + 1458x^8 + 19872x^6 + 183708x^4 + 1111968x^2 + 3085128$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} + 4x^4 + 8x^2 + 2$ | $x^{12} + 18x^{10} + 108x^8 + 276x^6 + 504x^4 + 440x^2 + 242$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} - 4x^8 - 2x^4 - 6$ | $x^{12} + 2x^{10} + 10x^8 + 20x^6 - 10x^4 - 44x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + 6x^8 + 8x^6 - 4x^4 - 6$ | $x^{12} - 6x^{10} + 12x^8 + 8x^6 - 72x^4 + 108x^2 - 54$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} - 4x^6 + 6x^4 + 8x^2 - 6$ | $x^{12} + 4x^{10} - 6x^8 - 8x^6 + 28x^4 + 16x^2 - 88$ | $\left[\begin{array}{ccc} 4 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 8x^8 - 4x^6 - 2x^4 + 8x^2 + 2$ | $x^{12} + 6x^{10} + 48x^8 + 84x^6 + 54x^4 + 16x^2 + 2$ | $\left[\begin{array}{ccc} 4 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 2x^8 - 6x^4 + 8x^2 - 6$ | $x^{12} + 8x^{10} - 6x^8 - 176x^6 - 132x^4 - 176x^2 - 88$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{85}{24}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 2x^{10} + 8x^8 + 4x^6 + 6$ | $x^{12} + 6x^{10} - 8x^8 - 52x^6 + 120x^4 - 88x^2 + 22$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 4x^8 - 2x^4 + 2$ | $x^{12} + 4x^{10} - 62x^8 - 88x^6 + 1100x^4 - 1936x^2 + 968$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + 2x^8 - 4x^6 - 6x^4 + 8x^2 - 6$ | $x^{12} - 8x^{10} - 62x^8 + 752x^6 - 2052x^4 + 1296x^2 - 216$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} + 2x^8 + 8x^6 - 6x^4 + 2$ | $x^{12} + 6x^{10} - 6x^8 - 64x^6 - 30x^4 + 18$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,61 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} + 8x^2 - 6$ | $x^{12} + 22x^{10} + 352x^8 + 352x^6 - 3256x^4 + 3872x^2 - 2662$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} + 8x^8 + 4x^4 - 6$ | $x^{12} + 42x^{10} + 486x^8 - 1080x^6 - 48300x^4 - 238500x^2 - 453750$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} - 6x^8 - 4x^4 + 8x^2 - 2$ | $x^{12} - 18x^{10} + 96x^8 - 132x^6 + 36x^4 + 36x^2 - 18$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,88 | $\frac{85}{24}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 6x^{10} - 4x^6 - 4x^4 - 2$ | $x^{12} + 2x^{10} - 2x^8 + 16x^6 - 16x^4 + 12x^2 - 2$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & 3 & 3 \\ & \frac{8}{3} & \frac{7}{2} & \frac{23}{6} \\ & & \frac{23}{6} & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} - 4x^6 + 4x^4 + 8x^2 + 2$ | $x^{12} - 42x^8 - 112x^6 - 84x^4 + 8$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & 3 & \frac{7}{2} \\ & \frac{8}{3} & \frac{23}{6} & \frac{23}{6} \\ & & \frac{23}{6} & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} + 8x^8 - 4x^6 + 8x^2 - 2$ | $x^{12} + 84x^{10} + 1104x^8 + 6400x^6 + 24000x^4 + 192000x^2 - 80000$ | $\left[\begin{array}{cccc} 4 & \frac{4}{3} & 2 & \frac{8}{3} \\ & \frac{4}{3} & \frac{8}{3} & 3 \\ & & \frac{8}{3} & \frac{7}{2} \\ & & & \frac{23}{6} \\ & & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 8x^6 + 2x^4 + 8x^2 + 6$ | $x^{12} + 14x^{10} + 72x^8 + 172x^6 + 190x^4 + 88x^2 + 22$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & 3 & \frac{7}{2} \\ & \frac{8}{3} & \frac{23}{6} & \frac{23}{6} \\ & & \frac{23}{6} & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} + 2x^8 + 4x^6 + 4x^4 + 8x^2 + 2$ | $x^{12} + 26x^{10} + 210x^8 + 524x^6 + 300x^4 - 200x^2 + 2$ | $\left[\begin{array}{cccc} 4 & \frac{4}{3} & \frac{8}{3} & 3 \\ & \frac{4}{3} & \frac{8}{3} & \frac{7}{2} \\ & & \frac{8}{3} & \frac{23}{6} \\ & & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} + 8x^8 - 6x^4 - 2$ | $x^{12} - 10x^{10} + 58x^8 - 308x^6 + 1034x^4 - 1452x^2 - 242$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & 3 & \frac{7}{2} \\ & \frac{8}{3} & \frac{23}{6} & \frac{23}{6} \\ & & \frac{23}{6} & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 2x^8 + 4x^4 + 8x^2 - 2$ | $x^{12} - 18x^{10} + 94x^8 - 188x^6 + 112x^4 - 16x^2 - 2$ | $\left[\begin{array}{cccc} \frac{8}{3} & \frac{8}{3} & 3 & \frac{23}{6} \\ & \frac{8}{3} & \frac{23}{6} & \frac{23}{6} \\ & & \frac{23}{6} & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,59 | $\frac{169}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 6x^{10} + 8x^8 - 2x^4 + 4x^2 + 6$ | $x^{12} - 8x^{10} + 22x^8 - 16x^6 + 12x^4 - 144x^2 + 216$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} - 6x^8 + 8x^6 + 6$ | $x^{12} + 6x^{10} - 6x^8 - 64x^6 + 144x^2 + 54$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 2x^8 + 8x^6 - 6x^4 + 2$ | $x^{12} - 12x^{10} - 12x^8 + 288x^6 + 864x^4 + 864x^2 + 288$ | $\left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,61 | $\frac{169}{48}$ |
| $x^{12} - 6x^{10} + 8x^8 + 8x^6 + 8x^4 + 6$ | $x^{12} - 48x^{10} + 810x^8 - 4440x^6 + 2700x^4 + 10800x^2 - 9000$ | $\left[\begin{array}{ccc} 4 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} - 2x^8 - 4x^6 + 2x^4 + 8x^2 + 2$ | $x^{12} + 22x^{10} + 264x^8 + 2420x^6 + 13794x^4 + 37268x^2 + 29282$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,92 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} - 2x^8 + 4x^6 - 6x^4 + 8x^2 - 6$ | $x^{12} - 2x^{10} - 42x^8 - 136x^6 - 186x^4 - 112x^2 - 22$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,92 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} - 6x^8 + 8x^6 + 8x^2 - 2$ | $x^{12} - 54x^{10} + 126x^8 + 1404x^6 - 2268x^4 - 5832x^2 - 1458$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} - 4x^6 - 4x^4 + 2$ | $x^{12} - 42x^8 + 112x^6 - 84x^4 + 8$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 2x^{10} + 8x^8 + 4x^6 - 4x^4 + 8x^2 + 2$ | $x^{12} + 6x^{10} - 90x^8 + 60x^6 + 108x^4 - 108x^2 + 18$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 7 \\ 2 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \left. \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} + 6x^8 + 8x^6 + 4x^4 - 6$ | $x^{12} + 6x^{10} + 12x^8 - 8x^6 - 72x^4 - 108x^2 - 54$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \end{array} \left. \right]_3^2$ | T: 12,59 | $\frac{169}{48}$ |
| $x^{12} - 6x^{10} + 2x^8 + 4x^6 + 2x^4 + 8x^2 + 2$ | $x^{12} - 2x^{10} - 38x^8 - 52x^6 + 522x^4 + 2184x^2 + 2450$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \left. \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} + 4x^6 + 6$ | $x^{12} + 18x^{10} + 136x^8 + 572x^6 + 1584x^4 + 2904x^2 + 2662$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 7 \\ 2 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \left. \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 2x^4 + 8x^2 - 2$ | $x^{12} + 2x^{10} - 32x^8 + 176x^6 - 374x^4 + 968x^2 - 242$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 7 \\ 2 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \left. \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 8x^8 - 4x^6 + 8x^2 - 2$ | $x^{12} - 30x^{10} - 468x^8 - 1848x^6 - 3060x^4 - 2160x^2 - 450$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 7 \\ 2 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \left. \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} - 6x^8 - 4x^6 - 4x^4 + 6$ | $x^{12} - 18x^{10} + 22x^8 + 440x^6 - 968x^4 - 3872x^2 + 2662$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \left. \right]_3^2$ | T: 12,88 | $\frac{85}{24}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 6x^{10} + 8x^8 + 8x^6 + 8x^4 + 8x^2 - 6$ | $x^{12} - 22x^{10} + 352x^8 - 352x^6 - 3256x^4 - 3872x^2 - 2662$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 8x^6 - 6x^4 + 6$ | $x^{12} + 22x^{10} + 242x^8 + 1452x^6 + 4114x^4 + 5324x^2 + 2662$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 4x^8 + 4x^6 + 4x^4 + 4x^2 - 2$ | $x^{12} - 18x^{10} - 1152x^8 - 14256x^6 - 69984x^4 - 199260x^2 - 246402$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 23 & 23 & 6 \end{array} \right]^2_3$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + 8x^8 - 4x^6 + 4x^4 + 6$ | $x^{12} + 18x^{10} + 90x^8 + 204x^6 + 228x^4 + 108x^2 + 6$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} + 8x^8 + 4x^6 + 2$ | $x^{12} - 14x^{10} + 82x^8 - 264x^6 + 484x^4 - 484x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 8x^8 + 8x^6 - 2x^4 + 8x^2 - 6$ | $x^{12} + 54x^{10} + 1224x^8 + 14400x^6 + 86670x^4 + 178200x^2 - 390150$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} + 4x^8 + 4x^6 + 4x^4 + 4x^2 - 2$ | $x^{12} - 18x^{10} + 144x^8 - 3024x^6 + 3240x^4 - 150660x^2 - 1458$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 23 & 23 & 6 \end{array} \right]^2_3$ | T: 12,188 | $\frac{1375}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|------------------|
| $x^{12} - 2x^{10} - 4x^8 + 4x^6 + 2x^4 + 8x^2 + 6$ | $x^{12} + 10x^{10} + 46x^8 + 132x^6 + 198x^4 + 132x^2 + 22$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} & 7 & 23 \\ & 2 & 6 \\ & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 2x^{10} + 8x^8 + 4x^6 + 4x^4 - 2$ | $x^{12} - 6x^{10} + 12x^8 - 8x^6 - 2$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} & 7 & 23 \\ & 2 & 6 \\ & & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} - 4x^8 - 4x^6 - 6x^4 + 6$ | $x^{12} + 6x^{10} + 12x^8 + 12x^6 - 6x^4 + 6$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} & 7 & 23 \\ & 2 & 6 \\ & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 4x^6 + 4x^4 + 8x^2 - 6$ | $x^{12} - 72x^{10} + 1206x^8 + 7560x^6 - 26100x^4 + 54000x^2 - 15000$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} & 7 & 23 \\ & 2 & 6 \\ & & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} + 8x^8 + 4x^6 + 8x^4 + 8x^2 - 2$ | $x^{12} - 6x^{10} + 384x^8 + 5500x^6 - 57000x^4 + 12000x^2 - 1711250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} - 6x^8 + 8x^4 + 2$ | $x^{12} + 6x^{10} + 10x^8 - 8x^4 + 2$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} & 3 & 23 \\ & 3 & 6 \\ & & 6 \end{array} \right]_3^2$ | T: 12,88 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} + 4x^6 + 8x^4 + 8x^2 - 6$ | $x^{12} - 10x^{10} + 30x^8 - 36x^6 - 24x^4 + 44x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 2x^{10} - 2x^8 + 4x^6 - 6x^4 + 2$ | $x^{12} + 6x^{10} + 16x^8 + 24x^6 + 22x^4 + 12x^2 + 2$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{8}{3} \\ & 3 & 3 \\ & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,92 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} + 8x^8 - 4x^6 + 8x^4 + 6$ | $x^{12} + 10x^{10} + 38x^8 + 72x^6 + 76x^4 + 44x^2 + 22$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & \frac{8}{3} & \frac{8}{3} \\ & & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 4x^8 + 4x^6 - 4x^4 + 4x^2 - 2$ | $x^{12} + 18x^{10} + 144x^8 + 3024x^6 + 3240x^4 + 150660x^2 - 1458$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & \frac{8}{3} \\ & \frac{8}{3} & \frac{8}{3} \\ & & 3 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 8x^8 - 4x^6 - 4x^4 + 8x^2 + 6$ | $x^{12} + 6x^{10} + 6x^8 - 24x^6 - 24x^4 + 108x^2 + 150$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{8}{3} \\ & 3 & 3 \\ & & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} + 8x^8 - 4x^6 + 6x^4 + 8x^2 + 2$ | $x^{12} - 6x^{10} + 48x^8 - 84x^6 + 54x^4 - 16x^2 + 2$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & \frac{8}{3} & \frac{8}{3} \\ & & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} - 6x^8 + 8x^6 + 2x^4 + 8x^2 - 6$ | $x^{12} - 8x^{10} - 6x^8 + 176x^6 - 132x^4 + 176x^2 - 88$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & \frac{8}{3} \\ & 3 & 3 \\ & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,61 | $\frac{169}{48}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 6x^{10} - 4x^8 - 4x^6 - 4x^4 + 4x^2 - 2$ | $x^{12} - 70x^{10} - 104x^9 + 924x^8 - 1728x^7 - 16684x^6 + 26520x^5 + 131380x^4 - 150792x^3 - 363276x^2 + 331160x - 183950$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3 \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \end{array} \Bigg]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - 6x^8 - 4x^6 - 6x^4 + 8x^2 + 2$ | $x^{12} - 6x^{10} - 342x^8 - 1404x^6 + 42282x^4 + 530712x^2 + 1786050$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3 \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \end{array} \Bigg]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - 4x^2 - 6$ | $x^{12} - 14x^{10} - 48x^8 + 1208x^6 - 912x^4 + 396x^2 - 54$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3 \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \end{array} \Bigg]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 8x^4 + 8x^2 - 2$ | $x^{12} + 30x^{10} - 330x^8 + 700x^6 + 3300x^4 + 1500x^2 - 1250$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3 \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 7 \\ 2 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \end{array} \Bigg]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} - 6x^8 + 8x^6 + 2$ | $x^{12} - 6x^{10} + 10x^8 - 8x^4 + 2$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3 \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \end{array} \Bigg]_3^2$ | T: 12,59 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} - 4x^6 + 8x^4 + 2$ | $x^{12} + 14x^{10} + 82x^8 + 264x^6 + 484x^4 + 484x^2 + 242$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3 \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 7 \\ 2 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \end{array} \Bigg]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 6x^{10} - 4x^8 - 4x^6 + 4x^4 - 4x^2 + 6$ | $x^{12} - 22x^{10} + 88x^8 + 440x^6 - 352x^4 - 2420x^2 + 2662$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} + 6x^8 + 4x^4 + 8x^2 - 6$ | $x^{12} - 6x^{10} + 6x^8 + 16x^6 - 12x^4 - 24x^2 - 6$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} - 6x^8 + 8x^6 - 6x^4 + 8x^2 - 6$ | $x^{12} - 6x^{10} + 12x^8 - 8x^6 - 6x^4 + 12x^2 - 6$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,61 | $\frac{169}{48}$ |
| $x^{12} - 6x^{10} + 2x^8 + 8x^6 + 8x^2 - 2$ | $x^{12} - 6x^{10} - 414x^8 + 1080x^6 + 1296x^4 - 1944x^2 - 1458$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} - 6x^8 - 4x^6 - 4x^4 + 8x^2 + 2$ | $x^{12} + 22x^{10} + 110x^8 + 104x^6 - 152x^4 - 56x^2 + 50$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} + 4x^8 - 4x^6 + 2x^4 + 6$ | $x^{12} + 44x^{10} + 594x^8 + 3608x^6 + 11044x^4 + 17424x^2 + 10648$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 8x^8 - 2x^4 + 4x^2 + 6$ | $x^{12} + 2x^{10} + 2x^8 - 4x^6 - 6x^4 + 54$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 6x^{10} + 2x^8 - 4x^6 - 6x^4 + 8x^2 + 2$ | $x^{12} - 60x^{10} + 1458x^8 - 19872x^6 + 183708x^4 - 1111968x^2 + 3085128$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 4x^8 + 4x^6 - 4x^4 - 4x^2 + 6$ | $x^{12} - 16x^{10} + 106x^8 - 352x^6 + 572x^4 - 352x^2 + 88$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + 4x^6 - 2x^4 + 8x^2 - 6$ | $x^{12} - 6x^{10} + 14x^8 - 16x^6 - 2x^4 + 20x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + 4x^6 + 4x^4 - 2$ | $x^{12} - 2x^{10} - 4x^8 - 160x^6 + 768x^4 - 792x^2 - 242$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 7 \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 6x^4 + 4x^2 - 2$ | $x^{12} - 22x^{10} + 346x^8 - 2108x^6 + 8250x^4 - 12600x^2 + 6750$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} + 6x^8 + 4x^6 - 6x^4 + 8x^2 + 6$ | $x^{12} + 24x^{10} + 138x^8 + 320x^6 + 324x^4 + 144x^2 + 24$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,61 | $\frac{169}{48}$ |
| $x^{12} - 6x^{10} - 2x^8 - 4x^6 - 2x^4 + 8x^2 - 2$ | $x^{12} + 18x^{10} - 252x^8 - 3456x^6 + 5346x^4 + 53460x^2 - 1458$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 2x^{10} + 4x^4 + 2$ | $x^{12} + 22x^{10} + 308x^8 + 2420x^6 + 12584x^4 + 31944x^2 + 29282$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 7 \\ & & 2 \\ & & 23 \\ & & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 8x^8 + 8x^6 + 2x^4 + 6$ | $x^{12} + 18x^{10} + 106x^8 + 236x^6 + 258x^4 + 132x^2 + 22$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 7 \\ & & 2 \\ & & 23 \\ & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} - 2$ | $x^{12} + 18x^{10} - 96x^8 - 4168x^6 - 62424x^4 - 754440x^2 - 3948050$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \\ & 8 & 3 \\ & 7 & 2 \\ & 23 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} - 4x^8 + 4x^6 + 6x^4 + 8x^2 - 6$ | $x^{12} + 90x^{10} - 1950x^8 + 17100x^6 - 75150x^4 + 175500x^2 - 183750$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 7 \\ & & 2 \\ & & 23 \\ & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 8x^8 + 8x^6 - 4x^4 - 2$ | $x^{12} + 2x^{10} + 6x^8 - 12x^6 - 8x^4 - 4x^2 - 2$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 7 \\ & & 2 \\ & & 23 \\ & & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 8x^8 + 8x^6 - 6x^4 + 8x^2 + 6$ | $x^{12} - 22x^{10} + 242x^8 - 1452x^6 + 4114x^4 - 5324x^2 + 2662$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 7 \\ & & 2 \\ & & 23 \\ & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} + 2x^8 + 8x^6 - 6x^4 + 8x^2 - 6$ | $x^{12} + 10x^{10} + 36x^8 + 44x^6 - 66x^4 + 44x^2 - 22$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \\ & 23 & 6 \end{array} \right]_3^2$ | T: 12,61 | $\frac{169}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 6x^{10} + 6x^8 + 4x^6 + 2x^4 + 2$ | $x^{12} - 4x^{10} - 4x^9 - 17x^8 - 32x^7 - 88x^6 - 200x^5 - 241x^4 - 160x^3 - 60x^2 - 12x - 1$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \\ 6 \end{array} \Big]_3^2$ | T: 12,61 | $\frac{169}{48}$ |
| $x^{12} + 6x^{10} - 4x^8 - 4x^6 - 2x^4 + 8x^2 + 2$ | $x^{12} - 18x^{10} + 180x^8 - 1104x^6 + 4050x^4 - 7992x^2 + 6498$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 7 \\ 2 \\ 23 \\ 6 \\ 6 \end{array} \Big]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 8x^8 + 8x^6 - 2x^4 - 6$ | $x^{12} + 18x^{10} - 18x^8 - 1476x^6 - 8802x^4 - 121500x^2 - 843750$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 7 \\ 2 \\ 23 \\ 6 \\ 6 \end{array} \Big]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} - 4x^8 - 4x^6 - 2x^4 - 6$ | $x^{12} + 54x^{10} - 2340x^8 + 4320x^6 + 1530x^4 - 2376x^2 - 3174$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 7 \\ 2 \\ 23 \\ 6 \\ 6 \end{array} \Big]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} + 8x^8 + 4x^6 + 4x^4 + 8x^2 + 6$ | $x^{12} + 16x^{10} + 58x^8 - 72x^6 - 180x^4 + 16x^2 + 88$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 7 \\ 2 \\ 23 \\ 6 \\ 6 \end{array} \Big]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} + 2x^4 + 4x^2 + 2$ | $x^{12} - 6x^{10} + 30x^8 + 80x^6 + 410x^4 + 352x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \\ 3 \\ 3 \\ 23 \\ 6 \\ 6 \end{array} \Big]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} + 8x^8 + 8x^2 - 6$ | $x^{12} + 6x^{10} + 38x^8 + 88x^6 - 176x^4 - 132x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \\ 3 \\ 3 \\ 7 \\ 2 \\ 23 \\ 6 \\ 6 \end{array} \Big]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 6x^{10} + 6x^8 - 4x^6 - 6x^4 - 2$ | $x^{12} + 6x^{10} + 6x^8 - 12x^6 - 54x^4 + 72x^2 - 18$ | $\begin{bmatrix} 8 & 8 & 3 \\ 3 & 3 & 6 \end{bmatrix}^2_3$ | T: 12,61 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} - 4x^8 - 4x^6 + 2x^4 + 8x^2 - 2$ | $x^{12} + 6x^{10} + 12x^8 + 4x^6 - 30x^4 - 72x^2 - 50$ | $\begin{bmatrix} 2 & 8 & 3 \\ 3 & 3 & 2 \end{bmatrix}^2_3$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 8x^8 + 8x^6 - 4x^2 + 2$ | $x^{12} + 10x^{10} + 56x^8 + 120x^6 + 144x^4 + 108x^2 + 162$ | $\begin{bmatrix} 4 & 4 & 8 \\ 3 & 3 & 3 \end{bmatrix}^2_3$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} + 2x^8 + 4x^6 - 4x^4 + 8x^2 + 6$ | $x^{12} + 16x^{10} + 98x^8 + 280x^6 + 412x^4 + 304x^2 + 88$ | $\begin{bmatrix} 2 & 8 & 3 \\ 3 & 3 & 6 \end{bmatrix}^2_3$ | T: 12,88 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} - 6x^8 + 4x^6 - 2x^4 + 8x^2 + 6$ | $x^{12} + 2x^{10} - 6x^8 - 12x^6 + 14x^4 + 40x^2 + 22$ | $\begin{bmatrix} 8 & 8 & 3 \\ 3 & 3 & 6 \end{bmatrix}^2_3$ | T: 12,61 | $\frac{169}{48}$ |
| $x^{12} - 6x^{10} - 2x^8 + 8x^6 + 4x^4 - 6$ | $x^{12} + 18x^{10} + 36x^8 + 320x^6 - 1200x^4 + 1500x^2 - 3750$ | $\begin{bmatrix} 8 & 8 & 3 \\ 3 & 3 & 6 \end{bmatrix}^2_3$ | T: 12,59 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} + 2x^8 + 8x^4 + 8x^2 - 2$ | $x^{12} + 6x^{10} - 414x^8 - 1080x^6 + 1296x^4 + 1944x^2 - 1458$ | $\begin{bmatrix} 4 & 4 & 8 \\ 3 & 3 & 3 \end{bmatrix}^2_3$ | T: 12,188 | $\frac{1375}{384}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 2x^{10} - 2x^8 + 8x^6 - 4x^4 - 6$ | $x^{12} + 6x^{10} + 14x^8 + 16x^6 + 12x^4 + 8x^2 - 6$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 6 \end{array} \right]^2_3$ | T: 12,88 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} + 8x^8 + 4x^4 + 8x^2 + 2$ | $x^{12} - 6x^{10} + 46x^8 - 176x^6 + 396x^4 - 484x^2 + 242$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 2x^8 + 8x^6 + 8x^4 + 2$ | $x^{12} + 2x^{10} - 36x^8 - 44x^6 + 264x^4 + 484x^2 + 242$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 6 \end{array} \right]^2_3$ | T: 12,59 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} + 2x^8 + 4x^6 + 4x^4 - 6$ | $x^{12} + 20x^{10} - 122x^8 - 728x^6 - 1236x^4 - 864x^2 - 216$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 6 \end{array} \right]^2_3$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - 2x^8 + 4x^6 + 2x^4 + 8x^2 - 6$ | $x^{12} + 6x^{10} + 22x^8 - 132x^6 - 726x^4 + 2904x^2 - 2662$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 6 \end{array} \right]^2_3$ | T: 12,61 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} + 8x^8 + 4x^6 + 6x^4 + 8x^2 - 6$ | $x^{12} + 4x^{10} + 6x^8 - 8x^6 - 60x^4 - 144x^2 - 88$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} - 4x^8 - 4x^6 + 4x^4 + 4x^2 - 2$ | $x^{12} + 54x^{10} + 504x^8 - 2160x^6 - 55728x^4 - 288684x^2 - 526338$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 6 \end{array} \right]^2_3$ | T: 12,188 | $\frac{1375}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 2x^{10} - 2x^8 + 4x^6 + 2x^4 + 2$ | $x^{12} + 10x^{10} + 32x^8 + 44x^6 + 154x^4 + 484x^2 + 242$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,61 | $\frac{169}{48}$ |
| $x^{12} - 6x^{10} - 6x^8 - 4x^6 + 4x^4 + 2$ | $x^{12} - 22x^{10} + 110x^8 - 104x^6 - 152x^4 + 56x^2 + 50$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} - 6x^8 + 8x^6 + 8x^4 + 8x^2 - 6$ | $x^{12} + 10x^{10} + 40x^8 + 72x^6 + 44x^4 - 20x^2 - 22$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,59 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} + 4x^2 + 2$ | $x^{12} + 2x^{10} + 6x^8 + 20x^6 + 56x^4 + 18$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 2x^8 - 4x^6 + 2x^4 + 8x^2 - 6$ | $x^{12} + 10x^{10} - 54x^8 - 160x^6 + 222x^4 + 72x^2 - 54$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - 2x^8 + 4x^4 + 2$ | $x^{12} - 6x^{10} + 12x^8 - 24x^6 + 24x^4 - 12x^2 + 2$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,59 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} + 4x^6 - 2x^4 + 2$ | $x^{12} - 4x^{11} - 8x^{10} + 80x^9 - 77x^8 - 800x^7 + 2124x^6 + 1832x^5 - 9583x^4 - 3196x^3 + 36884x^2 - 42472x + 15233$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 2x^{10} - 4x^8 - 4x^6 + 4x^4 + 4x^2 - 2$ | $x^{12} + 30x^{10} - 1134x^8 + 15876x^6 - 117936x^4 + 486000x^2 - 911250$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} + 8x^8 + 8x^6 + 8x^2 - 6$ | $x^{12} + 22x^{10} + 682x^8 + 2596x^6 + 1980x^4 - 2420x^2 - 2662$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 7 \\ 2 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 2x^4 - 4x^2 - 6$ | $x^{12} + 10x^{10} + 46x^8 + 136x^6 + 290x^4 + 400x^2 + 250$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} - 4x^8 + 6x^4 - 6$ | $x^{12} - 2x^{10} + 10x^8 - 20x^6 - 10x^4 + 44x^2 - 22$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 7 \\ 2 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} - 2x^8 - 4x^6 - 2x^4 + 6$ | $x^{12} + 2x^{10} - 28x^8 - 4x^6 + 414x^4 - 1260x^2 + 1350$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} - 2x^8 + 4x^6 - 6x^4 + 2$ | $x^{12} - 14x^{10} + 70x^8 - 180x^6 + 322x^4 - 440x^2 + 242$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \right]_3^2$ | T: 12,92 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} + 4x^8 - 4x^6 + 2x^4 + 8x^2 - 2$ | $x^{12} - 18x^{10} + 132x^8 - 352x^6 - 682x^4 + 6424x^2 - 11858$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 7 \\ 2 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 6x^{10} - 4x^8 + 4x^6 + 2x^4 - 2$ | $x^{12} - 2x^{10} - 132x^8 - 616x^6 - 506x^4 + 880x^2 - 242$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & 3 & 3 \\ & \frac{8}{3} & \frac{7}{2} & \frac{23}{6} \\ & & \frac{23}{6} & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 8x^8 + 8x^6 - 4x^4 + 6$ | $x^{12} - 10x^{10} - 44x^8 - 84x^6 - 72x^4 + 22$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & 3 & 3 \\ & \frac{8}{3} & \frac{7}{2} & \frac{23}{6} \\ & & \frac{23}{6} & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} - 4x^8 + 4x^6 - 2x^4 + 2$ | $x^{12} - 6x^{10} + 18x^8 - 32x^6 + 30x^4 - 12x^2 + 2$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & 3 & 3 \\ & \frac{8}{3} & \frac{7}{2} & \frac{23}{6} \\ & & \frac{23}{6} & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} - 2x^4 + 4x^2 - 2$ | $x^{12} - 2x^{10} - 136x^8 + 76x^6 + 7170x^4 - 13500x^2 + 6750$ | $\left[\begin{array}{cccc} 4 & \frac{4}{3} & 8 & 3 \\ & \frac{4}{3} & \frac{8}{3} & 3 \\ & & \frac{8}{3} & 3 \\ & & & 3 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} + 8x^6 - 4x^4 + 2$ | $x^{12} - 18x^{10} + 108x^8 - 276x^6 + 504x^4 - 440x^2 + 242$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & 3 & 3 \\ & \frac{8}{3} & \frac{7}{2} & \frac{23}{6} \\ & & \frac{23}{6} & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 4x^6 + 2$ | $x^{12} + 4x^{10} - 18x^8 - 88x^6 + 44x^4 + 968$ | $\left[\begin{array}{cccc} \frac{4}{3} & \frac{4}{3} & 2 & \frac{8}{3} \\ & \frac{4}{3} & \frac{8}{3} & 3 \\ & & \frac{8}{3} & 3 \\ & & & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + 2x^8 + 4x^6 - 4x^4 + 8x^2 - 6$ | $x^{12} + 26x^{10} + 214x^8 + 472x^6 - 840x^4 - 1512x^2 - 54$ | $\left[\begin{array}{cccc} \frac{4}{3} & \frac{4}{3} & 3 & 3 \\ & \frac{4}{3} & \frac{8}{3} & 3 \\ & & \frac{8}{3} & 3 \\ & & & 3 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} - 6x^4 - 2$ | $x^{12} - 14x^{10} + 16x^8 - 16x^6 + 2x^4 - 2$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & 3 & 3 \\ & \frac{8}{3} & \frac{7}{2} & \frac{23}{6} \\ & & \frac{23}{6} & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|------------|--------------------|
| $x^{12} - 6x^{10} + 8x^8 - 4x^6 - 4x^4 - 2$ | $x^{12} - 6x^{10} - 8x^8 - 4x^6 + 12x^4 - 2$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ & 3 & 3 & 7 \\ & & 2 & 23 \\ & & & 6 \end{array} \right]_3^2$ | T: 12, 142 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 6x^8 + 4x^6 - 2x^4 - 2$ | $x^{12} - 66x^{10} + 990x^8 - 5508x^6 + 10854x^4 - 3888x^2 - 1458$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \\ & 3 & 3 & 3 \\ & & 3 & 23 \\ & & & 6 \end{array} \right]_3^2$ | T: 12, 188 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} + 8x^8 + 4x^2 + 2$ | $x^{12} - 10x^{10} + 56x^8 - 120x^6 + 144x^4 - 108x^2 + 162$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \\ & 3 & 3 & 3 \\ & & 3 & 23 \\ & & & 6 \end{array} \right]_3^2$ | T: 12, 188 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} - 2x^8 - 4x^6 + 2x^4 + 8x^2 - 2$ | $x^{12} - 6x^{10} + 6x^8 + 12x^6 - 54x^4 - 72x^2 - 18$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ & 3 & 3 & 3 \\ & & 3 & 23 \\ & & & 6 \end{array} \right]_3^2$ | T: 12, 92 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} + 2x^8 + 4x^6 + 4x^4 + 2$ | $x^{12} + 30x^{10} + 294x^8 + 880x^6 - 592x^4 + 80x^2 + 2$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \\ & 3 & 3 & 3 \\ & & 3 & 23 \\ & & & 6 \end{array} \right]_3^2$ | T: 12, 188 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} + 4x^8 + 4x^6 + 2x^4 - 2$ | $x^{12} + 6x^{10} + 6x^8 + 28x^6 - 42x^4 + 12x^2 - 2$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ & 3 & 3 & 7 \\ & & 2 & 23 \\ & & & 6 \end{array} \right]_3^2$ | T: 12, 141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 4x^8 + 8x^6 - 6x^4 + 6$ | $x^{12} + 8x^{10} + 18x^8 - 8x^6 - 60x^4 + 88$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \\ & 3 & 3 & 7 \\ & & 2 & 23 \\ & & & 6 \end{array} \right]_3^2$ | T: 12, 222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} + 2x^8 + 4x^6 - 4x^4 + 8x^2 - 6$ | $x^{12} - 30x^{10} + 168x^8 + 556x^6 + 96x^4 - 180x^2 - 54$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \\ & 3 & 3 & 3 \\ & & 3 & 23 \\ & & & 6 \end{array} \right]_3^2$ | T: 12, 188 | $\frac{1375}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 2x^{10} + 8x^8 + 8x^6 + 2x^4 + 688x^2 - 2$ | $x^{12} - 14x^{10} + 72x^8 - 172x^6 + 190x^4 - 88x^2 + 22$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{8}{3} \\ & 3 & 3 \\ & & \frac{7}{2} & \frac{23}{6} \\ & & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} + 8x^8 + 4x^6 + 8x^4 + 8x^2 - 2$ | $x^{12} - 102x^{10} - 360x^9 + 3075x^8 + 20880x^7 - 1480x^6 - 332640x^5 - 959025x^4 - 498480x^3 + 696678x^2 - 2822760x - 6387791$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & 3 & \frac{8}{3} & \frac{8}{3} \\ & & 3 & 3 \\ & & & \frac{7}{2} & \frac{23}{6} \\ & & & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} - 6x^8 + 8x^4 + 8x^2 - 6$ | $x^{12} + 4x^{10} - 10x^8 - 88x^6 - 212x^4 - 224x^2 - 88$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{8}{3} \\ & 3 & 3 \\ & & 3 & \frac{23}{6} \\ & & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,88 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} + 8x^6 + 2x^4 - 4x^2 + 2$ | $x^{12} - 2x^{10} + 6x^8 + 8x^6 + 18x^4 + 8x^2 + 2$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 4 \\ & 3 & \frac{8}{3} & \frac{8}{3} \\ & & 3 & 3 \\ & & & \frac{7}{2} & \frac{23}{6} \\ & & & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 4x^6 + 4x^4 + 2$ | $x^{12} - 6x^{10} + 60x^6 + 108x^4 + 72x^2 + 18$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & \frac{8}{3} \\ & 3 & 3 \\ & & \frac{7}{2} & \frac{23}{6} \\ & & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} - 4x^8 - 2x^4 + 2$ | $x^{12} + 14x^{10} + 60x^8 + 44x^6 - 198x^4 + 242$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & 3 & \frac{8}{3} & \frac{8}{3} \\ & & 3 & 3 \\ & & & \frac{7}{2} & \frac{23}{6} \\ & & & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 4x^8 - 2x^4 + 2$ | $x^{12} + 34x^{10} + 476x^8 + 3520x^6 + 14542x^4 + 31944x^2 + 29282$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & 3 & \frac{8}{3} & \frac{8}{3} \\ & & 3 & 3 \\ & & & \frac{7}{2} & \frac{23}{6} \\ & & & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} + 6x^{10} + 8x^4 + 6$ | $x^{12} - 30x^{10} + 270x^8 - 300x^6 - 8100x^4 + 40500x^2 - 56250$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 7 & 23 \\ 2 & 6 \end{array} \left. \vphantom{\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 4x^8 + 2x^4 - 2$ | $x^{12} + 30x^{10} - 180x^8 + 300x^6 + 24750x^4 - 281250$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 7 & 23 \\ 2 & 6 \end{array} \left. \vphantom{\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 4x^6 - 4x^4 - 6$ | $x^{12} + 72x^{10} + 1206x^8 - 7560x^6 - 26100x^4 - 54000x^2 - 15000$ | $\left[\begin{array}{cccc} 2 & 8 & 3 & 3 \\ & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 7 & 23 \\ 2 & 6 \end{array} \left. \vphantom{\left[\begin{array}{cccc} 2 & 8 & 3 & 3 \\ & 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} - 6x^8 - 4x^4 + 8x^2 - 2$ | $x^{12} + 6x^{10} - 6x^8 - 64x^6 - 84x^4 - 24x^2 - 2$ | $\left[\begin{array}{cccc} 2 & 8 & 3 & 3 \\ & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 23 & 23 \\ 6 & 6 \end{array} \left. \vphantom{\left[\begin{array}{cccc} 2 & 8 & 3 & 3 \\ & 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,88 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} - 4x^6 + 8x^4 + 6$ | $x^{12} + 30x^{10} + 324x^8 + 1408x^6 + 1188x^4 - 4840x^2 + 2662$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 7 & 23 \\ 2 & 6 \end{array} \left. \vphantom{\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} - 6x^8 + 8x^2 - 6$ | $x^{12} - 10x^{10} + 40x^8 - 72x^6 + 44x^4 + 20x^2 - 22$ | $\left[\begin{array}{cccc} 2 & 8 & 3 & 3 \\ & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 23 & 23 \\ 6 & 6 \end{array} \left. \vphantom{\left[\begin{array}{cccc} 2 & 8 & 3 & 3 \\ & 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,88 | $\frac{85}{24}$ |
| $x^{12} + 6x^{10} - 4x^6 - 6x^4 + 8x^2 + 6$ | $x^{12} + 36x^{10} + 360x^8 + 160x^6 - 7200x^4 + 9600x^2 - 16000$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 7 & 23 \\ 2 & 6 \end{array} \left. \vphantom{\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 6x^{10} - 4x^8 + 4x^6 + 2x^4 + 8x^2 + 6$ | $x^{12} - 44x^{10} + 594x^8 - 3608x^6 + 11044x^4 - 17424x^2 + 10648$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ & 3 & 3 & 7 \\ & & 23 & 23 \\ & & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} - 4x^8 + 4x^6 - 2x^4 + 8x^2 - 6$ | $x^{12} + 90x^{10} - 270x^8 + 20280x^6 - 74250x^4 + 249300x^2 - 18150$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ & 3 & 3 & 7 \\ & & 23 & 23 \\ & & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} + 8x^8 - 4x^6 + 2x^4 + 8x^2 - 2$ | $x^{12} + 30x^{10} - 1080x^8 + 7500x^6 - 21150x^4 + 27000x^2 - 11250$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \\ & 7 & 23 & 23 \\ & & 2 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} + 8x^8 + 8x^4 + 8x^2 - 6$ | $x^{12} + 14x^{10} + 48x^8 - 88x^6 - 176x^4 - 88x^2 - 22$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \\ & 7 & 23 & 23 \\ & & 2 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 8x^8 + 8x^6 - 6x^4 - 4x^2 + 2$ | $x^{12} + 2x^{10} + 6x^8 - 8x^6 + 18x^4 - 8x^2 + 2$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \\ & 3 & 3 & 3 \\ & & 23 & 23 \\ & & & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - 6x^8 + 4x^6 - 6x^4 + 8x^2 - 6$ | $x^{12} + 36x^{10} + 342x^8 + 752x^6 + 372x^4 - 288x^2 - 216$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \\ & 3 & 3 & 3 \\ & & 23 & 23 \\ & & & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} - 4x^6 + 6x^4 + 8x^2 - 6$ | $x^{12} + 6x^{10} + 14x^8 + 16x^6 - 2x^4 - 20x^2 - 22$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \\ & 7 & 23 & 23 \\ & & 2 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 6x^{10} + 4x^8 + 6x^4 + 2$ | $x^{12} - 34x^{10} + 476x^8 - 3520x^6 + 14542x^4 - 31944x^2 + 29282$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \Big]^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} - 2x^8 - 4x^6 + 6x^4 + 8x^2 - 2$ | $x^{12} + 42x^{10} + 324x^8 - 2700x^6 - 2754x^4 + 14580x^2 - 1458$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 6 & 6 \end{array} \Big]^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} - 6x^8 + 2x^4 + 2$ | $x^{12} - 6x^{10} - 6x^8 + 64x^6 - 30x^4 + 18$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \Big]^2$ | T: 12,92 | $\frac{85}{24}$ |
| $x^{12} + 6x^{10} - 4x^6 + 4x^4 + 6$ | $x^{12} + 14x^{10} + 74x^8 + 172x^6 + 188x^4 + 100x^2 + 22$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \Big]^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 8x^8 - 4x^6 + 8x^2 - 2$ | $x^{12} + 30x^{10} - 468x^8 + 1848x^6 - 3060x^4 + 2160x^2 - 450$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \Big]^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 8x^6 - 2x^4 - 6$ | $x^{12} - 54x^{10} + 1224x^8 - 14400x^6 + 86670x^4 - 178200x^2 - 390150$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \Big]^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 8x^8 + 8x^6 + 2x^4 + 4x^2 - 6$ | $x^{12} + 6x^{10} + 16x^8 + 4x^6 - 50x^4 - 100x^2 + 250$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 6 & 6 \end{array} \Big]^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} + 4x^6 + 8x^4 + 8x^2 - 6$ | $x^{12} + 6x^{10} - 60x^6 - 120x^4 - 88x^2 - 22$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \Big]^2$ | T: 12,222 | $\frac{2803}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 2x^{10} + 4x^8 - 4x^6 - 2x^4 - 6$ | $x^{12} - 90x^{10} - 270x^8 - 20280x^6 - 74250x^4 - 249300x^2 - 18150$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & 7 & 2 \\ & 23 & 6 \\ & 23 & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} + 8x^8 + 4x^6 + 8x^4 + 8x^2 - 6$ | $x^{12} - 2x^8 + 88x^6 - 164x^4 + 176x^2 - 88$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \\ & 8 & 3 \\ & 7 & 2 \\ & 23 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} - 2x^8 + 4x^6 - 6x^4 + 8x^2 - 2$ | $x^{12} - 6x^{10} - 12x^8 + 88x^6 + 150x^4 - 492x^2 - 1250$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \\ & 23 & 6 \\ & 23 & 6 \end{array} \right]_3^2$ | T: 12,61 | $\frac{169}{48}$ |
| $x^{12} + 6x^{10} + 4x^8 + 4x^6 - 6x^4 + 8x^2 + 6$ | $x^{12} - 12x^{10} - 12x^9 + 45x^8 + 96x^7 - 120x^6 - 552x^5 - 717x^4 - 480x^3 - 180x^2 - 36x - 3$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & 7 & 2 \\ & 23 & 6 \\ & 23 & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 8x^8 + 8x^6 + 6x^4 + 8x^2 - 6$ | $x^{12} - 42x^{10} + 696x^8 - 600x^6 - 100890x^4 - 538200x^2 - 799350$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & 7 & 2 \\ & 23 & 6 \\ & 23 & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} + 8x^6 - 2x^4 + 4x^2 - 2$ | $x^{12} + 18x^{10} + 264x^8 + 1628x^6 + 7890x^4 - 2700x^2 + 6750$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \\ & 8 & 3 \\ & 3 & 3 \\ & 23 & 6 \\ & 23 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 6x^{10} + 8x^8 - 4x^6 + 4x^4 + 8x^2 + 2$ | $x^{12} - 6x^{10} + 12x^8 - 8x^6 + 2$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & \frac{23}{6} & \\ & \frac{23}{6} & \\ & & 3 \end{array} \right]^2_3$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} + 4x^8 - 4x^6 - 2x^4 + 8x^2 + 2$ | $x^{12} + 6x^{10} + 18x^8 + 32x^6 + 30x^4 + 12x^2 + 2$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & \frac{23}{6} & \\ & \frac{23}{6} & \\ & & 3 \end{array} \right]^2_3$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 2x^8 + 4x^6 + 2x^4 + 8x^2 - 6$ | $x^{12} - 2x^{10} - 100x^8 + 160x^6 + 2430x^4 - 2484x^2 - 1350$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ \frac{23}{6} & \frac{23}{6} & \\ & \frac{23}{6} & \\ & & 3 \end{array} \right]^2_3$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} + 6x^8 - 4x^6 - 2x^4 + 6$ | $x^{12} - 10x^{10} + 54x^8 - 44x^6 - 66x^4 + 72x^2 + 54$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ \frac{23}{6} & \frac{23}{6} & \\ & \frac{23}{6} & \\ & & 3 \end{array} \right]^2_3$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} + 4x^6 - 2x^4 + 8x^2 - 6$ | $x^{12} - 4x^{10} - 6x^8 + 8x^6 + 28x^4 - 16x^2 - 88$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 7 \\ \frac{23}{6} & \frac{23}{6} & \\ & \frac{23}{6} & \\ & & 3 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} - 2x^8 - 4x^6 + 2x^4 + 8x^2 - 2$ | $x^{12} + 6x^{10} + 12x^8 + 8x^6 + 6x^4 + 12x^2 - 2$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & \frac{23}{6} & \\ & \frac{23}{6} & \\ & & 3 \end{array} \right]^2_3$ | T: 12,92 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} + 2x^8 - 4x^6 - 2x^4 + 8x^2 + 6$ | $x^{12} - 10x^{10} + 88x^8 - 484x^6 + 1694x^4 - 3388x^2 + 2662$ | $\left[\begin{array}{ccc} 8 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & \frac{23}{6} & \\ & \frac{23}{6} & \\ & & 3 \end{array} \right]^2_3$ | T: 12,61 | $\frac{169}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 6x^{10} + 2x^8 + 8x^6 - 4x^4 + 8x^2 - 2$ | $x^{12} + 2x^{10} - 12x^8 - 8x^4 + 108x^2 - 98$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 23 & & \\ 6 & & \\ & & 3 \end{array} \right]^2_3$ | T: 12,88 | $\frac{85}{24}$ |
| $x^{12} + 6x^{10} + 8x^8 + 2x^4 - 4x^2 - 6$ | $x^{12} + 20x^{10} + 158x^8 + 592x^6 + 1300x^4 + 1600x^2 + 1000$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 23 & & \\ 6 & & \\ & & 3 \end{array} \right]^2_3$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} - 4x^8 - 4x^6 - 2x^4 + 8x^2 + 2$ | $x^{12} + 6x^{10} + 36x^8 + 68x^6 + 342x^4 + 1248x^2 + 1250$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 7 & 23 & \\ 2 & 6 & \\ & & 3 \end{array} \right]^2_3$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 6x^8 - 4x^6 - 6x^4 - 6$ | $x^{12} - 30x^{10} + 374x^8 - 2376x^6 + 7502x^4 - 8712x^2 - 2662$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 23 & & \\ 6 & & \\ & & 3 \end{array} \right]^2_3$ | T: 12,61 | $\frac{169}{48}$ |
| $x^{12} + 6x^{10} + 8x^8 - 4x^6 - 6x^4 + 8x^2 + 6$ | $x^{12} - 24x^{10} - 630x^8 - 3560x^6 - 6300x^4 - 2400x^2 - 1000$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 7 & 23 & \\ 2 & 6 & \\ & & 3 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} + 6x^8 + 4x^6 - 6x^4 + 8x^2 - 6$ | $x^{12} - 6x^{10} + 22x^8 + 132x^6 - 726x^4 - 2904x^2 - 2662$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 23 & & \\ 6 & & \\ & & 3 \end{array} \right]^2_3$ | T: 12,92 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} + 4x^6 + 2x^4 + 8x^2 - 2$ | $x^{12} + 30x^{10} + 330x^8 + 1600x^6 + 2850x^4 - 1500x^2 - 1250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 7 & 23 & \\ 2 & 6 & \\ & & 3 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 2x^{10} - 4x^6 - 4x^4 + 8x^2 - 6$ | $x^{12} + 36x^{10} + 576x^8 + 2304x^6 - 157680x^4 + 23328x^2 - 864$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right] \frac{7}{2} \frac{23}{6} \frac{23}{6} \left]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 8x^8 + 4x^4 - 6$ | $x^{12} + 126x^{10} + 6444x^8 + 167820x^6 + 2224800x^4 + 11844000x^2 - 5133750$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right] \frac{7}{2} \frac{23}{6} \frac{23}{6} \left]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 2x^8 + 8x^4 + 6$ | $x^{12} + 10x^{10} - 16x^8 - 212x^6 - 336x^4 - 36x^2 + 54$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right] \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{3}{3} \frac{23}{6} \frac{23}{6} \left]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - 6x^8 + 4x^6 + 6x^4 + 8x^2 + 6$ | $x^{12} - 12x^{10} + 22x^8 + 1452x^4 - 7744x^2 + 10648$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right] \frac{23}{6} \frac{23}{6} \left]_3^2$ | T: 12,92 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} + 8x^6 + 6x^4 + 4x^2 + 6$ | $x^{12} - 2x^{10} + 2x^8 + 4x^6 - 6x^4 + 54$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right] \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{3}{3} \frac{23}{6} \frac{23}{6} \left]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + 8x^8 + 8x^6 - 4x^4 + 2$ | $x^{12} + 6x^{10} + 46x^8 + 176x^6 + 396x^4 + 484x^2 + 242$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right] \frac{7}{2} \frac{23}{6} \frac{23}{6} \left]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} - 4x^8 + 8x^6 + 2x^4 + 6$ | $x^{12} - 6x^{10} + 6x^8 + 12x^6 + 10x^4 - 44x^2 + 22$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ & 2 & 3 \\ & & 3 \end{array} \right] \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{3}{3} \frac{7}{2} \frac{23}{6} \frac{23}{6} \left]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 6x^{10} + 8x^8 + 8x^6 - 4x^4 + 8x^2 - 6$ | $x^{12} - 42x^{10} + 486x^8 + 1080x^6 - 48300x^4 + 238500x^2 - 453750$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & 7 & 23 \\ & & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} - 4x^6 + 8x^4 + 2$ | $x^{12} - 4x^{11} - 8x^{10} - 8x^9 + 37x^8 + 264x^7 + 632x^6 + 1024x^5 + 1375x^4 + 1492x^3 + 1224x^2 + 616x + 121$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \\ & 8 & 3 \\ & 7 & 23 \\ & & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + 2x^8 + 8x^6 + 8x^4 + 6$ | $x^{12} - 12x^{10} + 26x^8 + 104x^6 - 276x^4 + 216$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \\ & 8 & 3 \\ & 3 & 3 \\ & 23 & 23 \\ & & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + 4x^8 + 4x^6 - 6x^4 + 8x^2 + 6$ | $x^{12} + 6x^{10} + 36x^8 + 144x^6 + 270x^4 + 216x^2 + 54$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & 7 & 23 \\ & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 8x^8 + 4x^6 + 2$ | $x^{12} + 2x^{10} + 12x^8 - 132x^4 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \\ & 8 & 3 \\ & 7 & 23 \\ & & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} - 6x^8 - 4x^6 + 4x^4 + 8x^2 + 6$ | $x^{12} - 26x^{10} + 264x^8 - 1320x^6 + 3388x^4 - 4356x^2 + 2662$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 23 \\ & & 6 \end{array} \right]_3^2$ | T: 12,59 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} + 2x^8 + 8x^6 + 8x^2 - 2$ | $x^{12} - 18x^{10} - 36x^8 + 1512x^6 - 4860x^4 + 4860x^2 - 1458$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \\ & 8 & 3 \\ & 3 & 3 \\ & 23 & 23 \\ & & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 2x^{10} + 8x^6 - 4x^4 - 2$ | $x^{12} + 14x^{10} + 16x^8 - 264x^6 + 396x^4 - 242$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & \\ & 2 & 6 \\ & & 6 \end{array} \right]^2_3$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} - 2x^8 + 4x^6 - 2x^4 - 2$ | $x^{12} - 34x^{10} - 200x^9 - 228x^8 + 3144x^7 + 16916x^6 + 40824x^5 + 51082x^4 - 5256x^3 - 130764x^2 - 175912x - 74630$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ & 23 & 6 \\ & & 6 \end{array} \right]^2_3$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} + 8x^8 + 6$ | $x^{12} + 36x^{10} + 360x^8 + 1280x^6 - 9600x^2 - 16000$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 2 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & \\ & 2 & 6 \\ & & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + 8x^8 - 4x^6 + 8x^4 + 2$ | $x^{12} - 12x^{10} + 102x^8 - 528x^6 + 1452x^4 - 1936x^2 + 968$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 2 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & \\ & 2 & 6 \\ & & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + 6x^8 - 4x^6 - 6x^4 + 8x^2 + 2$ | $x^{12} - 42x^{10} + 597x^8 - 528x^7 - 5676x^6 + 2728x^5 + 12055x^4 - 67936x^3 - 118714x^2 + 76296x + 160183$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 6 & \\ & 2 & 6 \\ & & 6 \end{array} \right]^2_3$ | T: 12,61 | $\frac{169}{48}$ |
| $x^{12} + 6x^{10} + 4x^8 + 8x^6 + 2x^4 + 6$ | $x^{12} - 18x^{10} + 158x^8 - 1100x^6 + 4642x^4 - 6292x^2 + 2662$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 2 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & \\ & 2 & 6 \\ & & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 2x^{10} + 2$ | $x^{12} - 10x^{10} + 44x^8 - 132x^6 + 308x^4 - 440x^2 + 242$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 & 3 & 7 & 23 \\ 3 & 3 & 3 & 3 & 3 & 3 & 2 & 6 \end{bmatrix}_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} - 2x^8 - 4x^6 + 2x^4 - 6$ | $x^{12} + 30x^{10} + 374x^8 + 2376x^6 + 7502x^4 + 8712x^2 - 2662$ | $\begin{bmatrix} 2 & 8 & 8 & 3 & 23 \\ 3 & 3 & 3 & 3 & 6 \end{bmatrix}_3^2$ | T: 12,92 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} - 6x^8 + 4x^6 + 2x^4 + 8x^2 + 2$ | $x^{12} - 20x^{10} + 162x^8 - 736x^6 + 2268x^4 - 4576x^2 + 4232$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 & 23 \\ 3 & 3 & 3 & 3 & 3 & 3 & 6 \end{bmatrix}_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - 6x^8 + 4x^6 - 4x^4 - 2$ | $x^{12} - 24x^{10} - 44x^9 + 131x^8 + 352x^7 + 352x^6 + 2728x^5 + 6757x^4 - 11968x^3 - 74644x^2 - 120780x - 72643$ | $\begin{bmatrix} 8 & 8 & 3 & 23 \\ 3 & 3 & 3 & 6 \end{bmatrix}_3^2$ | T: 12,59 | $\frac{169}{48}$ |
| $x^{12} + 6x^{10} + 8x^8 - 4x^6 - 2x^4 + 8x^2 - 6$ | $x^{12} - 4x^{10} + 6x^8 + 8x^6 - 60x^4 + 144x^2 - 88$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 & 3 & 7 & 23 \\ 3 & 3 & 3 & 3 & 3 & 3 & 2 & 6 \end{bmatrix}_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + 6x^8 - 4x^6 + 6x^4 + 8x^2 - 2$ | $x^{12} + 6x^{10} - 810x^8 - 18468x^6 - 161514x^4 - 629856x^2 - 911250$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 & 23 \\ 3 & 3 & 3 & 3 & 3 & 3 & 6 \end{bmatrix}_3^2$ | T: 12,188 | $\frac{1375}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} - 2x^{10} + 8x^6 - 6x^4 + 6$ | $x^{12} - 44x^{10} + 726x^8 - 4840x^6 + 15004x^4 - 21296x^2 + 10648$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 7 & 23 \\ 2 & 6 & 6 \end{array} \Bigg]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} + 2x^8 + 4x^6 - 4x^4 + 2$ | $x^{12} - 26x^{10} + 210x^8 - 524x^6 + 300x^4 + 200x^2 + 2$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \Bigg]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + 2x^8 + 4x^4 + 8x^2 - 2$ | $x^{12} - 2x^{10} - 12x^8 - 8x^4 - 108x^2 - 98$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right] \begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \Bigg]_3^2$ | T: 12,59 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} + 4x^8 + 8x^6 + 2x^4 + 6$ | $x^{12} - 8x^{10} + 18x^8 + 8x^6 - 60x^4 + 88$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \Bigg]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 8x^8 + 4x^4 + 2$ | $x^{12} - 4x^{10} - 4x^9 + 15x^8 + 32x^7 + 88x^6 + 200x^5 + 241x^4 + 160x^3 + 60x^2 + 12x + 1$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 7 & 23 \\ 2 & 6 & 6 \end{array} \Bigg]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 8x^6 + 8x^4 + 8x^2 - 2$ | $x^{12} + 24x^{10} + 306x^8 - 4136x^6 - 14964x^4 - 84240x^2 - 105800$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \Bigg]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + 6x^8 + 4x^6 + 2x^4 + 2$ | $x^{12} + 14x^{10} + 70x^8 + 180x^6 + 322x^4 + 440x^2 + 242$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right] \begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \Bigg]_3^2$ | T: 12,61 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} + 6x^8 - 4x^4 + 8x^2 - 6$ | $x^{12} + 6x^{10} + 6x^8 - 16x^6 - 12x^4 + 24x^2 - 6$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right] \begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \Bigg]_3^2$ | T: 12,59 | $\frac{169}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 2x^{10} + 4x^6 - 4x^4 - 6$ | $x^{12} + 54x^{10} - 756x^8 + 7320x^6 - 30600x^4 - 72000x^2 - 183750$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ & 3 & 3 & 7 \\ & & 2 & 23 \\ & & & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} + 8x^8 + 4x^6 - 2x^4 + 8x^2 + 2$ | $x^{12} - 4x^{11} + 4x^{10} - 64x^9 + 101x^8 + 32x^7 + 452x^6 + 1568x^5 + 1945x^4 + 2244x^3 + 1804x^2 + 440x - 77$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \\ & 7 & 3 & 3 \\ & & 2 & 23 \\ & & & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 8x^8 - 2x^4 + 2$ | $x^{12} - 16x^{10} - 4x^9 + 125x^8 - 32x^7 - 420x^6 + 280x^5 + 967x^4 - 2608x^3 + 3460x^2 - 2356x + 617$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ & 3 & 3 & 7 \\ & & 2 & 23 \\ & & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 8x^8 - 4x^6 + 8x^2 - 6$ | $x^{12} + 10x^{10} + 30x^8 + 36x^6 - 24x^4 - 44x^2 - 22$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \\ & 7 & 3 & 3 \\ & & 2 & 23 \\ & & & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 8x^8 + 2x^4 + 4x^2 + 2$ | $x^{12} - 6x^{10} + 16x^8 - 24x^6 + 10x^4 + 12x^2 + 2$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \\ & 3 & 3 & 3 \\ & & 7 & 23 \\ & & & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + 8x^8 + 6x^4 + 2$ | $x^{12} + 6x^{10} + 14x^8 + 16x^6 + 10x^4 + 4x^2 + 2$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ & 3 & 3 & 7 \\ & & 2 & 23 \\ & & & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 6x^{10} + 4x^8 - 4x^6 + 6x^4 - 6$ | $x^{12} - 90x^{10} - 1950x^8 - 17100x^6 - 75150x^4 - 175500x^2 - 183750$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & 3 & \frac{7}{2} \\ & \frac{8}{3} & 3 & \frac{23}{6} \\ & & \frac{7}{2} & \frac{23}{6} \\ & & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} - 4x^8 + 8x^6 - 6x^4 + 6$ | $x^{12} + 6x^{10} + 6x^8 - 12x^6 + 10x^4 + 44x^2 + 22$ | $\left[\begin{array}{cccc} \frac{4}{3} & \frac{4}{3} & 2 & \frac{8}{3} \\ & \frac{4}{3} & \frac{8}{3} & \frac{7}{2} \\ & & \frac{8}{3} & 3 \\ & & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} - 6x^8 + 8x^6 + 8x^2 - 2$ | $x^{12} + 90x^{10} + 1008x^8 + 3564x^6 + 1944x^4 - 6804x^2 - 1458$ | $\left[\begin{array}{cccc} \frac{4}{3} & \frac{4}{3} & \frac{8}{3} & 3 \\ & \frac{4}{3} & \frac{8}{3} & 3 \\ & & \frac{8}{3} & 3 \\ & & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} + 8x^6 + 2x^4 + 8x^2 + 6$ | $x^{12} - 18x^{10} + 106x^8 - 236x^6 + 258x^4 - 132x^2 + 22$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & 3 & \frac{7}{2} \\ & \frac{8}{3} & 3 & \frac{23}{6} \\ & & \frac{7}{2} & \frac{23}{6} \\ & & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} - 6x^8 + 4x^6 - 4x^4 + 8x^2 - 6$ | $x^{12} - 2x^{10} - 52x^8 + 160x^6 + 36x^4 - 252x^2 - 54$ | $\left[\begin{array}{cccc} \frac{4}{3} & \frac{4}{3} & \frac{8}{3} & 3 \\ & \frac{4}{3} & \frac{8}{3} & 3 \\ & & \frac{8}{3} & 3 \\ & & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} + 8x^8 + 4x^6 + 8x^4 + 8x^2 - 2$ | $x^{12} + 90x^{10} + 3420x^8 - 10800x^6 - 166500x^4 + 675000x^2 - 281250$ | $\left[\begin{array}{cccc} \frac{4}{3} & \frac{4}{3} & 2 & \frac{8}{3} \\ & \frac{4}{3} & \frac{8}{3} & 3 \\ & & \frac{8}{3} & 3 \\ & & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} + 4x^6 + 2$ | $x^{12} + 12x^{10} + 102x^8 + 528x^6 + 1452x^4 + 1936x^2 + 968$ | $\left[\begin{array}{cccc} \frac{4}{3} & \frac{4}{3} & 2 & \frac{8}{3} \\ & \frac{4}{3} & \frac{8}{3} & 3 \\ & & \frac{8}{3} & 3 \\ & & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 6x^{10} + 4x^6 + 4x^4 + 8x^2 - 6$ | $x^{12} - 54x^{10} - 756x^8 - 7320x^6 - 30600x^4 + 72000x^2 - 183750$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 7 \\ 2 \end{array} \left[\begin{array}{cc} 23 & 23 \\ 6 & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} - 4x^8 + 4x^6 - 4x^4 - 4x^2 + 6$ | $x^{12} + 22x^{10} + 88x^8 - 440x^6 - 352x^4 + 2420x^2 + 2662$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{cc} 23 & 23 \\ 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + 8x^8 + 2x^4 - 4x^2 - 6$ | $x^{12} - 6x^{10} + 16x^8 - 4x^6 - 50x^4 + 100x^2 + 250$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{cc} 23 & 23 \\ 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} - 6x^8 + 8x^6 + 4x^4 + 8x^2 - 2$ | $x^{12} - 6x^{10} - 6x^8 + 64x^6 - 84x^4 + 24x^2 - 2$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{cc} 23 & 23 \\ 6 & 6 \end{array} \right]_3^2$ | T: 12,59 | $\frac{169}{48}$ |
| $x^{12} - 6x^{10} + 8x^8 + 4x^4 + 6$ | $x^{12} + 44x^{10} + 594x^8 + 3872x^6 + 13068x^4 + 21296x^2 + 10648$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \left[\begin{array}{cc} 23 & 23 \\ 6 & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} - 6x^8 - 4x^6 + 6x^4 + 8x^2 - 2$ | $x^{12} - 14x^{10} + 56x^8 - 286x^4 + 484x^2 - 242$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{cc} 23 & 23 \\ 6 & 6 \end{array} \right]_3^2$ | T: 12,61 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} - 6x^8 + 8x^4 + 6$ | $x^{12} + 6x^{10} - 4x^8 - 56x^6 - 60x^4 + 36x^2 + 54$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{cc} 23 & 23 \\ 6 & 6 \end{array} \right]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} + 2x^{10} + 8x^8 + 8x^6 - 4x^4 - 6$ | $x^{12} - 108x^{10} + 5526x^8 - 5400x^6 - 4500x^4 - 15000$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 7 & \frac{23}{6} & \frac{23}{6} \\ & \frac{23}{6} & \frac{23}{6} \\ & & \frac{23}{6} \end{array} \Bigg]_3^2$ | T: 12,142 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 6x^8 + 4x^6 + 2x^4 - 2$ | $x^{12} + 18x^{10} + 252x^8 + 348x^6 - 54x^4 - 324x^2 - 162$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 3 & \frac{23}{6} & \frac{23}{6} \\ & \frac{23}{6} & \frac{23}{6} \\ & & \frac{23}{6} \end{array} \Bigg]_3^2$ | T: 12,92 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} + 2x^4 - 4x^2 - 6$ | $x^{12} + 16x^{10} + 130x^8 + 592x^6 + 1580x^4 + 2000x^2 + 1000$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ & \frac{4}{3} & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 3 & 3 & 3 \\ & \frac{23}{6} & \frac{23}{6} \\ & & \frac{23}{6} \end{array} \Bigg]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 8x^6 - 2x^4 + 4x^2 + 6$ | $x^{12} - 4x^{10} + 2x^8 - 16x^6 + 132x^4 - 288x^2 + 216$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ & \frac{4}{3} & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 3 & 3 & 3 \\ & \frac{23}{6} & \frac{23}{6} \\ & & \frac{23}{6} \end{array} \Bigg]_3^2$ | T: 12,188 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + 6x^4 + 2$ | $x^{12} + 22x^{10} + 198x^8 + 484x^6 - 1210x^4 - 5324x^2 + 29282$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 3 & \frac{7}{2} & \frac{23}{6} \\ & \frac{23}{6} & \frac{23}{6} \\ & & \frac{23}{6} \end{array} \Bigg]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 2x^{11} + 2x^{10} + 4x^9 + 2x^8 + 4x^7 - 2x^6 + 4x^5 - 2x^4 + 4x^3 - 2$ | $x^{12} - 18x^{10} - 45x^8 - 60x^6 - 45x^4 - 18x^2 - 3$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ & \frac{4}{3} & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 2 & 2 & \frac{7}{3} \\ & \frac{7}{3} & \frac{7}{3} \\ & & \frac{7}{3} \end{array} \Bigg]_3^2$ | T: 12,87 | $\frac{211}{96}$ |
| $x^{12} + 2x^{11} - 2x^{10} + 2x^8 + 4x^7 - 2x^6 + 4x^5 + 2x^2 - 2$ | $x^{12} - 8x^{10} + 25x^8 - 44x^6 + 275x^4 - 1100x^2 + 1375$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ & \frac{4}{3} & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 2 & 2 & \frac{8}{3} \\ & \frac{8}{3} & \frac{8}{3} \\ & & \frac{8}{3} \end{array} \Bigg]_3^2$ | T: 12,92 | $\frac{235}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-------------------|
| $x^{12} - 2x^{11} + 2x^{10} + 4x^9 - 2x^8 - 2x^6 - 2x^4 + 4x^3 + 2x^2 + 4x + 2$ | $x^{12} + 6x^{10} + 3x^8 - 28x^6 - 45x^4 - 18x^2 - 3$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,31 | $\frac{55}{24}$ |
| $x^{12} - 2x^{11} + 2x^{10} + 4x^9 + 4x^7 - 2x^6 + 4x^5 + 2x^4 + 4x^3 + 2x^2 + 2$ | $x^{12} + 14x^{10} + 49x^8 + 88x^6 + 99x^4 + 66x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,61 | $\frac{115}{48}$ |
| $x^{12} + 2x^{11} + 4x^{10} + 2x^8 - 2x^6 - 2x^4 + 2x^2 + 4x - 2$ | $x^{12} - 6x^{10} - 12x^8 + 4x^6 + 24x^4 + 12x^2 + 4$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,31 | $\frac{55}{24}$ |
| $x^{12} + 2x^{11} + 4x^9 - 2x^8 + 4x^6 + 4x^4 - 2x^2 - 2$ | $x^{12} - 56x^{10} + 1015x^8 - 6768x^6 + 13179x^4 - 9360x^2 + 2205$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{115}{48}$ |
| $x^{12} - 2x^{11} + 4x^{10} - 2x^8 + 4x^6 + 4x^4 + 2$ | $x^{12} - 18x^{10} - 696x^9 + 1179x^8 + 36792x^7 - 112596x^6 - 3960x^5 - 4115169x^4 + 32049256x^3 - 85563738x^2 + 94617936x - 37328667$ | $\left[\begin{array}{ccc} 20 & 20 & 20 \\ 9 & 9 & 9 \end{array} \right]_9^6$ | T: 12,166 | $\frac{317}{144}$ |
| $x^{12} + 2x^{11} + 4x^{10} + 2x^8 + 4x^7 - 2x^6 + 4x^5 - 2x^4 + 4x^3 + 2x^2 - 2$ | $x^{12} - 11x^8 + 55x^4 - 121$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,61 | $\frac{115}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{12} - 2x^{11} + 4x^8 - 2x^6 + 4x^5 - 2x^4 - 2x^2 - 2$ | $x^{12} - 14x^{10} + 49x^8 - 88x^6 + 99x^4 - 66x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,61 | $\frac{115}{48}$ |
| $x^{12} + 2x^{11} + 2x^{10} + 4x^9 - 2x^8 + 4x^7 + 4x^3 + 2x^2 + 4x - 2$ | $x^{12} - 10x^{10} + 48x^8 - 140x^6 + 252x^4 - 252x^2 + 108$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{235}{96}$ |
| $x^{12} + 2x^{11} + 4x^{10} + 2x^8 + 4x^6 + 4x^5 + 4x^3 + 2x^2 + 4x + 2$ | $x^{12} - 2x^{11} - 6x^{10} - 24x^9 + 104x^8 + 172x^7 - 472x^6 - 676x^5 + 1264x^4 + 1112x^3 - 1898x^2 - 420x + 1318$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{235}{96}$ |
| $x^{12} + 2x^{11} + 4x^9 - 2x^8 + 4x^7 + 4x^4 + 4x^3 + 4x - 2$ | $x^{12} - 126x^{10} - 60x^9 + 5931x^8 + 13860x^7 - 47868x^6 - 161172x^5 + 49635x^4 + 576236x^3 + 428130x^2 - 633960x - 921795$ | $\left[\begin{array}{ccc} 20 & 20 & 20 \\ 9 & 9 & 9 \end{array} \right]_9^6$ | T: 12,166 | $\frac{317}{144}$ |
| $x^{12} + 2x^{11} + 2x^{10} + 4x^9 + 2x^8 + 2x^6 + 4x^5 - 2$ | $x^{12} - 4x^{11} + 4x^{10} + 28x^9 - 45x^8 - 8x^7 + 168x^6 + 40x^5 - 269x^4 + 28x^3 + 68x^2 - 20x + 1$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,60 | $\frac{103}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{12} - 2x^{11} + 4x^9 - 2x^8 - 2x^6 - 2x^2 + 4x - 2$ | $x^{12} - 2x^{11} - 2x^{10} + 18x^9 - 5x^8 - 48x^7 + 84x^6 + 92x^5 - 237x^4 + 146x^3 + 320x^2 - 442x + 289$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \right]_3^2$ | T: 12,32 | $\frac{55}{24}$ |
| $x^{12} + 2x^{11} + 2x^{10} + 4x^9 + 4x^7 + 2x^6 + 4x^3 - 2x^2 - 2$ | $x^{12} - 2x^{11} - 4x^{10} + 14x^9 + 37x^8 - 220x^7 + 6x^6 + 968x^5 - 295x^4 - 1730x^3 + 80x^2 + 1246x + 557$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{235}{96}$ |
| $x^{12} + 2x^{11} + 2x^{10} + 2x^8 + 4x^7 - 2x^6 + 2x^4 + 4x^2 + 4x - 2$ | $x^{12} + 24x^{10} + 60x^8 + 80x^6 + 60x^4 + 24x^2 + 4$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 7 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \right]_3^2$ | T: 12,58 | $\frac{103}{48}$ |
| $x^{12} + 2x^{11} + 2x^{10} - 2x^4 + 4x^3 + 2x^2 + 4x - 2$ | $x^{12} - 12x^8 + 48x^4 - 16$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \right]_3^2$ | T: 12,61 | $\frac{115}{48}$ |
| $x^{12} + 2x^{11} + 2x^{10} + 2x^8 + 2$ | $x^{12} - 6x^{11} + 18x^{10} + 18x^9 - 295x^8 - 612x^7 + 1204x^6 + 8552x^5 + 20333x^4 + 30078x^3 + 25346x^2 + 12126x + 2631$ | $\left[\begin{array}{c} 20 \\ 9 \end{array} \begin{array}{c} 20 \\ 9 \end{array} \begin{array}{c} 20 \\ 9 \end{array} \begin{array}{c} 20 \\ 9 \end{array} \begin{array}{c} 20 \\ 9 \end{array} \right]_9^6$ | T: 12,166 | $\frac{317}{144}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{12} + 2x^{11} + 4x^8 + 4x^7 + 4x^5 + 4x^3 - 2x^2 - 2$ | $x^{12} - 18x^{10} + 144x^8 - 632x^6 + 1476x^4 - 1380x^2 + 20$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 4 \\ 8 \\ 3 \end{array} \right]_3 \left[\begin{array}{c} 4 \\ 8 \\ 3 \end{array} \right]_3$ | T: 12,32 | $\frac{55}{24}$ |
| $x^{12} - 2x^{11} + 2x^{10} + 4x^8 + 4x^7 + 2x^4 + 4x^2 + 4x - 2$ | $x^{12} - 6x^{11} - 10x^{10} + 556x^9 - 3108x^8 + 11712x^7 - 39228x^6 + 96720x^5 - 153964x^4 + 152996x^3 - 92516x^2 + 31752x - 4878$ | $\left[\begin{array}{c} 20 \\ 9 \end{array} \right]_9 \left[\begin{array}{c} 20 \\ 9 \end{array} \right]_9 \left[\begin{array}{c} 20 \\ 9 \end{array} \right]_9 \left[\begin{array}{c} 20 \\ 9 \end{array} \right]_9 \left[\begin{array}{c} 20 \\ 9 \end{array} \right]_9 \left[\begin{array}{c} 20 \\ 9 \end{array} \right]_9$ | T: 12,166 | $\frac{317}{144}$ |
| $x^{12} + 2x^{11} + 4x^{10} + 4x^9 - 2x^8 + 4x^6 + 2x^4 + 4x^2 + 4x + 2$ | $x^{12} + 90x^{10} - 120x^9 + 2205x^8 + 3600x^7 + 24780x^6 + 94680x^5 + 245655x^4 + 1004480x^3 + 1080450x^2 + 2743200x - 101925$ | $\left[\begin{array}{c} 20 \\ 9 \end{array} \right]_9 \left[\begin{array}{c} 20 \\ 9 \end{array} \right]_9 \left[\begin{array}{c} 20 \\ 9 \end{array} \right]_9 \left[\begin{array}{c} 20 \\ 9 \end{array} \right]_9 \left[\begin{array}{c} 20 \\ 9 \end{array} \right]_9 \left[\begin{array}{c} 20 \\ 9 \end{array} \right]_9$ | T: 12,166 | $\frac{317}{144}$ |
| $x^{12} + 2x^{11} + 2x^{10} - 2x^8 + 4x^7 + 4x^6 + 4x^5 - 2x^4 + 4x^2 + 4x + 2$ | $x^{12} + 8x^{10} - 12x^9 - 106x^8 - 280x^7 + 1820x^6 + 9584x^5 + 18008x^4 + 6216x^3 - 21552x^2 - 25416x - 9684$ | $\left[\begin{array}{c} 20 \\ 9 \end{array} \right]_9 \left[\begin{array}{c} 20 \\ 9 \end{array} \right]_9 \left[\begin{array}{c} 20 \\ 9 \end{array} \right]_9 \left[\begin{array}{c} 20 \\ 9 \end{array} \right]_9 \left[\begin{array}{c} 20 \\ 9 \end{array} \right]_9 \left[\begin{array}{c} 20 \\ 9 \end{array} \right]_9$ | T: 12,166 | $\frac{317}{144}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|------------------|
| $x^{12} + 2x^{11} - 2x^{10} + 2x^8 + 4x^7 + 2x^6 + 4x^5 + 4x^4 - 2x^2 + 4x + 2$ | $x^{12} + 4x^{10} + 11x^8 + 16x^6 + 19x^4 + 4x^2 + 1$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{115}{48}$ |
| $x^{12} - 2x^{11} - 2x^{10} + 4x^9 - 2x^8 - 2x^6 + 4x^5 + 4x^4 + 2x^2 - 2$ | $x^{12} + 5x^8 + 11x^4 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{235}{96}$ |
| $x^{12} - 2x^{11} + 4x^{10} + 4x^9 + 2x^8 + 4x^7 - 2x^6 + 4x^4 + 4x^3 - 2x^2 - 2$ | $x^{12} - 2x^{11} + 16x^{10} - 30x^9 + 65x^8 - 100x^7 + 264x^6 - 636x^5 + 1151x^4 - 1522x^3 + 1366x^2 - 870x + 311$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{235}{96}$ |
| $x^{12} - 2x^{11} + 4x^9 + 4x^8 + 4x^7 + 2x^4 + 4x^3 - 2x^2 - 2$ | $x^{12} - 14x^{10} + 72x^8 - 168x^6 + 184x^4 - 108x^2 + 4$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,32 | $\frac{55}{24}$ |
| $x^{12} - 2x^{11} + 2x^{10} + 4x^9 + 4x^8 + 4x^7 + 4x^6 + 4x^5 - 2x^2 + 4x - 2$ | $x^{12} - 2x^{11} + 6x^{10} - 28x^9 - 6x^8 - 24x^7 + 58x^6 + 400x^5 + 244x^4 + 32x^3 + 122x^2 - 88x + 34$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,92 | $\frac{235}{96}$ |
| $x^{12} + 2x^{11} + 2x^8 + 2x^6 + 2$ | $x^{12} - 6x^{10} + 15x^8 - 20x^6 + 15x^4 - 6x^2 - 27$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{211}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|------------------|
| $x^{12} - 2x^{11} + 2x^{10} - 2x^6 - 2x^4 + 4x^3 + 4x - 2$ | $x^{12} - 2x^{11} + 6x^{10} + 6x^9 - 25x^8 + 52x^7 - 38x^6 - 64x^5 + 171x^4 - 130x^3 + 120x^2 + 134x + 47$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 7 & 7 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,60 | $\frac{103}{48}$ |
| $x^{12} + 2x^{11} - 2x^{10} + 4x^8 + 4x^7 + 4x^6 + 4x^5 - 2x^4 + 2x^2 + 4x - 2$ | $x^{12} + 14x^{10} + 65x^8 + 128x^6 + 147x^4 + 90x^2 + 27$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,59 | $\frac{115}{48}$ |
| $x^{12} - 2x^{11} - 2x^{10} + 4x^7 - 2x^6 + 4x^2 + 4x + 2$ | $x^{12} - 6x^{11} + 8x^{10} + 8x^9 - 20x^8 - 76x^7 - 62x^6 + 84x^5 - 462x^4 - 1596x^3 - 1680x^2 - 756x - 126$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 7 & 7 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,87 | $\frac{211}{96}$ |
| $x^{12} - 2x^{11} + 4x^{10} + 2x^8 - 2x^6 - 2x^4 + 4x^3 - 2$ | $x^{12} - 2x^{11} + 6x^{10} + 6x^9 + 63x^8 + 52x^7 + 138x^6 - 636x^5 + 171x^4 + 310x^3 + 32x^2 - 174x + 47$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 7 & 7 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,60 | $\frac{103}{48}$ |
| $x^{12} + 2x^{11} + 4x^9 + 4x^5 - 2x^4 + 2x^2 + 4x - 2$ | $x^{12} - 6x^{11} + 30x^{10} - 88x^9 + 236x^8 - 424x^7 + 670x^6 - 560x^5 + 358x^4 + 240x^3 - 186x^2 + 32x + 58$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,59 | $\frac{115}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-------------------|
| $x^{12} - 2x^{11} + 4x^{10} - 2x^8 + 4x^7 + 2x^6 + 2x^4 + 4x + 2$ | $x^{12} - 2x^{11} + 4x^9 + 4x^8 - 20x^7 - 10x^6 + 32x^5 + 12x^4 - 28x^3 + 8x - 2$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 7 \\ 7 \\ 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{211}{96}$ |
| $x^{12} + 2x^{11} - 2x^{10} - 2x^8 + 4x^7 + 4x^6 + 4x^5 + 2x^4 - 2x^2 - 2$ | $x^{12} + 23x^8 + 68x^6 + 47x^4 + 12x^2 + 1$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 8 \\ 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \\ 3 \end{array} \right]_3^2$ | T: 12,32 | $\frac{55}{24}$ |
| $x^{12} + 2x^{11} + 2x^8 + 2$ | $x^{12} - 6x^{11} + 12x^{10} + 64x^9 - 54x^8 - 648x^7 + 18576x^6 + 24840x^5 - 65610x^4 - 110460x^3 + 12600x^2 + 53100x + 51450$ | $\left[\begin{array}{c} 20 \\ 9 \end{array} \begin{array}{c} 20 \\ 9 \end{array} \begin{array}{c} 20 \\ 9 \end{array} \begin{array}{c} 20 \\ 9 \end{array} \begin{array}{c} 20 \\ 9 \end{array} \right]_9^6$ | T: 12,166 | $\frac{317}{144}$ |
| $x^{12} + 2x^{11} - 2x^{10} + 4x^9 + 4x^7 + 2x^6 + 4x^5 + 4x^4 + 2x^2 + 4x - 2$ | $x^{12} - 2x^{11} - 2x^{10} + 2x^9 + 83x^8 + 148x^7 + 212x^6 + 148x^5 + 59x^4 + 34x^3 + 12x^2 + 2x + 1$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 8 \\ 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \\ 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{115}{48}$ |
| $x^{12} + 2x^{11} + 2x^6 + 2x^4 + 2$ | $x^{12} - 6x^{11} + 30x^{10} - 86x^9 + 219x^8 - 444x^7 + 714x^6 - 912x^5 + 897x^4 - 662x^3 + 348x^2 - 114x + 17$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 7 \\ 7 \\ 3 \end{array} \begin{array}{c} 7 \\ 3 \\ 3 \end{array} \right]_3^2$ | T: 12,58 | $\frac{103}{48}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|------------------|
| $x^{12} + 2x^{11} + 4x^9 - 2x^8 + 4x^7 + 2x^6 + 4x^5 + 4x^4 - 2$ | $x^{12} + 18x^{10} - 45x^8 + 60x^6 - 45x^4 + 18x^2 - 3$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \end{array} \right]_3^2$ | T: 12,87 | $\frac{211}{96}$ |
| $x^{12} + 2x^{11} + 4x^{10} + 4x^9 + 2x^8 + 4x^7 + 2x^6 + 4x^5 + 4x^4 + 4x^3 + 2x^2 + 4x + 2$ | $x^{12} + 18x^{10} + 144x^8 + 632x^6 + 1476x^4 + 1380x^2 + 20$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \end{array} \right]_3^2$ | T: 12,56 | $\frac{115}{48}$ |
| $x^{12} + 2x^{11} - 2x^{10} + 2x^8 + 4x^7 + 2x^6 + 2x^4 - 2x^2 + 4x + 2$ | $x^{12} + 6x^{10} - 12x^8 - 4x^6 + 24x^4 - 12x^2 + 4$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \end{array} \right]_3^2$ | T: 12,55 | $\frac{115}{48}$ |
| $x^{12} - 2x^{11} + 2x^{10} + 4x^9 + 4x^7 + 2x^6 + 2x^4 - 2$ | $x^{12} - 4x^9 - 21x^8 - 40x^7 - 36x^6 + 8x^5 - x^4 - 24x^3 - 4x^2 + 4x + 1$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \end{array} \right]_3^2$ | T: 12,89 | $\frac{211}{96}$ |
| $x^{12} - 2x^{11} + 2x^{10} + 4x^7 - 2x^6 + 4x^3 + 4x^2 - 2$ | $x^{12} - 24x^{10} + 60x^8 - 80x^6 + 60x^4 - 24x^2 + 4$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \end{array} \right]_3^2$ | T: 12,58 | $\frac{103}{48}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{12} + 2x^{11} + 4x^{10} - 2x^8 + 4x^7 + 4x^4 - 2x^2 - 2$ | $x^{12} - 2x^{11} - 108x^{10} + 218x^9 + 3931x^8 - 8912x^7 - 55486x^6 + 140924x^5 + 230005x^4 - 562226x^3 - 286992x^2 + 304934x + 16219$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{115}{48}$ |
| $x^{12} - 2x^{11} - 2x^{10} + 4x^9 + 4x^8 + 2x^6 - 2x^4 + 4x^3 + 2$ | $x^{12} - 2x^{11} + 16x^9 - 50x^8 + 52x^7 + 26x^6 - 180x^5 + 246x^4 - 24x^3 - 264x^2 + 284x - 94$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{211}{96}$ |
| $x^{12} + 2x^{11} + 2x^8 + 4x^6 + 4x^3 + 2x^2 + 4x - 2$ | $x^{12} + 10x^{10} + 48x^8 + 140x^6 + 252x^4 + 252x^2 + 108$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,88 | $\frac{235}{96}$ |
| $x^{12} + 2x^{11} + 2x^{10} + 2x^8 + 2x^4 + 2$ | $x^{12} + 10x^{10} - 136x^9 + 113x^8 - 1000x^7 + 6972x^6 - 15784x^5 + 54719x^4 - 132136x^3 + 174178x^2 - 298752x + 302079$ | $\left[\begin{array}{ccc} 20 & 20 & 20 \\ 9 & 9 & 9 \end{array} \right]_9^6$ | T: 12,166 | $\frac{317}{144}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|------------------|
| $x^{12} + 2x^{11} + 2x^4 + 2x^2 + 2$ | $x^{12} - 10x^{10} + 32x^8 - 24x^6 - 40x^4 + 44x^2 - 44$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{115}{48}$ |
| $x^{12} + 2x^{11} - 2x^{10} + 2x^8 + 4x^7 + 4x^5 - 2x^4 + 4x^3 + 2x^2 + 4x - 2$ | $x^{12} + 18x^{10} + 120x^8 + 376x^6 + 624x^4 + 660x^2 + 300$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,59 | $\frac{115}{48}$ |
| $x^{12} - 2x^{11} + 4x^8 - 2x^6 + 2x^4 + 4x^3 + 4x^2 + 2$ | $x^{12} - 6x^{11} + 18x^{10} - 26x^9 + 33x^8 - 24x^7 + 62x^6 - 192x^5 + 375x^4 - 454x^3 + 360x^2 - 174x + 37$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,58 | $\frac{103}{48}$ |
| $x^{12} + 2x^{11} + 2x^2 + 2$ | $x^{12} - 12x^{10} + 60x^8 - 112x^6 + 96x^4 - 48x^2 + 16$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{115}{48}$ |
| $x^{12} - 2x^{11} - 2x^{10} + 4x^7 + 4x^6 + 4x^5 + 2x^4 - 2x^2 + 4x + 2$ | $x^{12} - 6x^{10} - 3x^8 + 72x^6 - 117x^4 + 54x^2 - 9$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,59 | $\frac{115}{48}$ |
| $x^{12} + 2x^{11} + 4x^9 - 2x^8 + 4x^7 - 2x^4 - 2x^2 + 2$ | $x^{12} - 6x^{10} + 3x^8 + 28x^6 - 45x^4 + 18x^2 - 3$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{115}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|------------------|
| $x^{12} - 2x^{11} - 2x^{10} + 4x^9 + 4x^7 + 2x^6 + 2x^4 + 4x^3 - 2x^2 + 4x + 2$ | $x^{12} + 10x^{10} + 32x^8 + 24x^6 - 40x^4 - 44x^2 - 44$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \right]_3^2$ | T: 12,32 | $\frac{55}{24}$ |
| $x^{12} + 2x^{11} + 4x^9 - 2x^8 - 2x^6 - 2x^4 + 4x^3 + 4x - 2$ | $x^{12} + 6x^{10} + 3x^8 - 28x^6 - 25x^4 + 22x^2 + 37$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 7 \\ 3 \end{array} \begin{array}{c} 7 \\ 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{211}{96}$ |
| $x^{12} + 2x^{11} + 4x^{10} + 4x^8 - 2x^6 + 4x^3 + 4x - 2$ | $x^{12} - 6x^{11} + 28x^{10} - 80x^9 + 186x^8 - 312x^7 + 422x^6 - 416x^5 + 302x^4 - 164x^3 + 64x^2 - 16x + 2$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 7 \\ 3 \end{array} \begin{array}{c} 7 \\ 3 \end{array} \right]_3^2$ | T: 12,60 | $\frac{103}{48}$ |
| $x^{12} + 2x^{11} - 2x^{10} + 4x^9 + 4x^8 + 4x^7 + 2x^6 + 4x^5 + 2x^4 - 2x^2 + 4x - 2$ | $x^{12} - 6x^{11} + 6x^{10} + 4x^9 - 30x^8 + 120x^7 - 20x^6 - 396x^5 + 54x^4 + 492x^3 + 306x^2 + 72x + 6$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \right]_3^2$ | T: 12,55 | $\frac{115}{48}$ |
| $x^{12} - 2x^{11} - 2x^{10} + 4x^9 + 4x^8 + 2x^6 + 2x^4 + 4x^3 + 2x^2 + 4x + 2$ | $x^{12} - 6x^{11} + 24x^{10} - 32x^9 + 24x^8 + 84x^7 + 100x^6 + 270x^4 + 300x^3 + 234x^2 + 144x + 174$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \right]_3^2$ | T: 12,31 | $\frac{55}{24}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-----------------|
| $x^{12} - 2x^{11} + 2x^{10} + 4x^7 - 2x^6 + 4x^5 + 4x^3 + 2x^2 + 4x - 2$ | $x^{12} + 12x^{10} + 60x^8 + 112x^6 + 96x^4 + 48x^2 + 16$ | $\begin{bmatrix} 4 & 4 & 8 \\ 3 & 3 & 3 \end{bmatrix}^2_3$ | T: 12,31 | $\frac{55}{24}$ |
| $x^{12} + 2x^{11} + 4x^{10} - 2x^8 + 2x^6 + 4x^5 + 4x^4 + 2x^2 + 4x - 2$ | $x^{12} - 4x^{10} + 11x^8 - 16x^6 + 19x^4 - 4x^2 + 1$ | $\begin{bmatrix} 4 & 4 & 8 \\ 3 & 3 & 3 \end{bmatrix}^2_3$ | T: 12,32 | $\frac{55}{24}$ |
| $x^{12} - 2x^{11} - 2x^{10} + 4x^8 + 2x^6 + 4x^5 + 4x^4 + 4x^3 - 2x^2 + 4x + 2$ | $x^{12} - 6930x^{10} + 19512339x^8 - 28515051180x^6 + 22782650719059x^4 - 943576836777290x^2 + 1584311259015628605$ | $\begin{bmatrix} 4 & 4 & 8 \\ 3 & 3 & 3 \end{bmatrix}^4_3$ | T: 12,31 | $\frac{55}{24}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|------------------|
| $x^{12} - 2x^{11} + 2x^{10} + 4x^7 + 4x^6 + 4x^5 + 4x^4 + 2x^2 + 2$ | $x^{12} - 2x^{11} - 8248x^{10} + 24892x^9 + 25715284x^8 - 120598852x^7 - 37614320884x^6 + 255177411860x^5 + 25800233488768x^4 - 216540854889060x^3 - 6993211695112842x^2 + 50305300440070608x + 556604809102742346$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \right]_3^4$ | T: 12,31 | $\frac{55}{24}$ |
| $x^{12} + 2x^{11} + 2x^{10} + 4x^9 - 2x^8 + 4x^7 + 4x^6 + 4x^5 + 2x^4 + 4x^3 - 2x^2 - 2$ | $x^{12} + 14x^{10} + 72x^8 + 168x^6 + 184x^4 + 108x^2 + 4$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{115}{48}$ |
| $x^{12} - 2x^{11} - 2x^{10} + 4x^9 + 2x^8 + 4x^7 + 2x^6 + 4x^5 + 2x^4 - 2x^2 + 4x + 2$ | $x^{12} + 23x^8 - 68x^6 + 47x^4 - 12x^2 + 1$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \right]_3^2$ | T: 12,56 | $\frac{115}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 6x^{10} + 7x^8 + 8x^6 - x^4 + 6x^2 + 3$ | $x^{12} - 2x^{10} - 43x^8 - 44x^6 + 121x^4 - 66x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} - x^8 - x^4 - 2x^2 - 1$ | $x^{12} - 1170x^8 + 26100x^6 - 220500x^4 + 675000x^2 - 562500$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} + 5x^8 + 4x^6 - 5x^4 - 6x^2 + 5$ | $x^{12} + 6x^{10} + 21x^8 + 44x^6 + 51x^4 + 30x^2 + 5$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 23 \\ 3 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} - x^8 + 4x^6 + x^4 - 2x^2 + 5$ | $x^{12} - 6x^{10} - 27x^8 - 12x^6 - 21x^4 + 30x^2 + 5$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 23 \\ 3 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + 3x^8 - 4x^6 + 5x^4 - 6x^2 + 1$ | $x^{12} + 2x^{10} + x^8 + 8x^6 + 19x^4 - 22x^2 + 49$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,60 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} + 5x^8 + 7x^4 + 6x^2 - 7$ | $x^{12} + 6x^{10} + 9x^8 - 4x^6 - 9x^4 + 6x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,87 | $\frac{85}{24}$ |
| $x^{12} + 6x^{10} + 7x^8 - 4x^6 - 3x^4 + 2x^2 + 1$ | $x^{12} + 6x^{10} + 15x^8 + 20x^6 + 21x^4 + 18x^2 + 9$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,60 | $\frac{169}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 6x^{10} - 5x^8 - 7x^4 + 6x^2 - 3$ | $x^{12} - 18x^{10} + 387x^8 - 504x^6 + 42993x^4 + 30510x^2 - 180075$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - 5x^8 + 8x^6 + 7x^4 + 6x^2 + 3$ | $x^{12} + 2x^{10} - 3x^8 - 8x^6 + 9x^4 + 22x^2 + 11$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 7 & 23 \\ 3 & 2 & 6 \end{array} \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} - x^8 - 4x^6 + x^4 - 2x^2 - 7$ | $x^{12} - 6x^{10} + 9x^8 + 20x^6 + 15x^4 + 6x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 23 & 23 \\ 3 & 6 & 6 \end{array} \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,89 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} - 3x^8 + 5x^4 - 6x^2 + 3$ | $x^{12} - 2x^{10} + 7x^8 + 16x^6 + 31x^4 + 22x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 3 & 7 \\ 3 & 3 & 2 \end{array} \begin{array}{ccc} 3 & 3 & 23 \\ 3 & 3 & 6 \end{array} \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} - 5x^8 + 8x^6 - 5x^4 - 6x^2 - 5$ | $x^{12} + 18x^{10} + 161x^8 + 800x^6 + 2209x^4 + 3174x^2 + 1859$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 3 & 7 \\ 3 & 3 & 2 \end{array} \begin{array}{ccc} 3 & 3 & 23 \\ 3 & 3 & 6 \end{array} \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} - x^8 - 4x^6 + 7x^4 + 2x^2 - 5$ | $x^{12} + 16x^{10} + 66x^8 - 28x^6 - 384x^4 - 352x^2 + 44$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 7 & 23 \\ 3 & 2 & 6 \end{array} \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 2x^{10} + 5x^8 + 8x^6 + 5x^4 + 2x^2 + 7$ | $x^{12} - 120x^9 - 966x^8 + 4320x^7 - 8064x^6 + 101040x^5 - 105396x^4 - 672960x^3 + 423072x^2 + 21120x - 71416$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} - 3x^8 + x^4 - 2x^2 - 5$ | $x^{12} - 22x^{10} + 253x^8 - 1496x^6 + 3729x^4 - 3630x^2 + 1331$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} - 3x^8 + 8x^6 - 5x^4 + 2x^2 + 1$ | $x^{12} - 22x^{10} + 165x^8 - 968x^6 + 9075x^4 - 39930x^2 + 14641$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,58 | $\frac{169}{48}$ |
| $x^{12} + 6x^{10} - 5x^8 + 8x^6 - 5x^4 - 6x^2 - 1$ | $x^{12} + 10x^{10} + 37x^8 + 84x^6 + 137x^4 + 106x^2 - 1$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} + 5x^8 + 4x^6 - 5x^4 + 6x^2 + 1$ | $x^{12} - 6x^{10} + x^8 + 200x^6 + 555x^4 + 506x^2 + 121$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,60 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} + 5x^8 + 8x^6 + x^4 - 2x^2 - 1$ | $x^{12} + 66x^{10} - 891x^8 + 2280x^6 - 4455x^4 + 4050x^2 - 2025$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 6x^{10} + 5x^8 + 8x^6 - 3x^4 + 2x^2 - 1$ | $x^{12} + 18x^{10} + 61x^8 - 576x^6 - 4443x^4 - 9174x^2 - 5929$ | $\left[\begin{array}{c} 4 & 4 & 2 & 8 & 8 & 3 & 7 & 23 \\ 3 & 3 & 3 & 3 & 3 & 3 & 2 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} - 3x^8 + 4x^6 - 5x^4 - 6x^2 + 1$ | $x^{12} - 18x^{10} - 8x^9 + 131x^8 + 96x^7 - 652x^6 - 1032x^5 + 1435x^4 + 5872x^3 + 7366x^2 + 4424x + 1123$ | $\left[\begin{array}{c} 8 & 8 & 3 & 3 & 23 \\ 3 & 3 & 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,58 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} + 3x^8 - 3x^4 + 2x^2 + 1$ | $x^{12} + 6x^{10} + 19x^8 + 36x^6 + 33x^4 + 10x^2 + 1$ | $\left[\begin{array}{c} 8 & 8 & 3 & 3 & 23 \\ 3 & 3 & 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,60 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} + 3x^8 - x^4 + 6x^2 - 5$ | $x^{12} + 6x^{10} + 15x^8 + 20x^6 + 15x^4 + 6x^2 + 3$ | $\left[\begin{array}{c} 2 & 8 & 8 & 3 & 7 & 23 \\ & 3 & 3 & 3 & 2 & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 3x^8 - 5x^4 + 2x^2 + 7$ | $x^{12} - 10x^{10} + 37x^8 - 84x^6 + 137x^4 - 106x^2 - 1$ | $\left[\begin{array}{c} 4 & 4 & 2 & 8 & 8 & 3 & 7 & 23 \\ 3 & 3 & 3 & 3 & 3 & 3 & 2 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} - 7x^8 + 4x^6 + 7x^4 + 6x^2 + 1$ | $x^{12} + 18x^{10} + 125x^8 + 416x^6 + 671x^4 + 462x^2 + 121$ | $\left[\begin{array}{c} 8 & 8 & 3 & 3 & 23 \\ 3 & 3 & 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,58 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} - 7x^8 - 7x^4 - 2x^2 - 5$ | $x^{12} - 10x^{10} + 23x^8 + 4x^6 + 35x^4 - 6x^2 + 11$ | $\left[\begin{array}{c} 4 & 4 & 2 & 8 & 8 & 3 & 7 & 23 \\ 3 & 3 & 3 & 3 & 3 & 3 & 2 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 2x^{10} - 5x^8 + 3x^4 + 2x^2 + 3$ | $x^{12} + 14x^{10} + 57x^8 + 56x^6 - 39x^4 + 66x^2 + 11$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} - x^8 + 8x^6 + 7x^4 + 6x^2 + 3$ | $x^{12} + 22x^{10} + 165x^8 + 924x^6 + 10329x^4 + 70422x^2 + 161051$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} + x^8 + 4x^6 - 5x^4 + 2x^2 - 3$ | $x^{12} - 18x^{10} + 159x^8 - 1000x^6 + 3225x^4 - 2190x^2 + 5$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} - 7x^8 + 8x^6 + 3x^4 + 2x^2 - 7$ | $x^{12} + 10x^{10} + 13x^8 + 52x^6 + 35x^4 + 10x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ & 6 & 6 \end{array} \right]^2$ | T: 12,87 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} + 7x^8 + 8x^6 + 7x^4 + 6x^2 + 7$ | $x^{12} - 90x^{10} - 975x^8 - 2300x^6 + 4725x^4 + 15750x^2 - 5625$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} - x^8 - 4x^6 - x^4 + 2x^2 - 1$ | $x^{12} + 18x^{10} + 127x^8 + 444x^6 + 783x^4 + 594x^2 - 81$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ & 6 & 6 \end{array} \right]^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} + 3x^8 + 4x^6 - 7x^4 - 2x^2 - 3$ | $x^{12} + 12x^{10} - 54x^8 - 1300x^6 - 7200x^4 - 27000x^2 - 67500$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ & 6 & 6 \end{array} \right]^2$ | T: 12,187 | $\frac{1375}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 6x^{10} - 5x^8 - 4x^6 + 5x^4 + 2x^2 - 7$ | $x^{12} + 10x^{10} + 51x^8 + 128x^6 + 137x^4 + 18x^2 + 1$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,60 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} - 3x^8 + 8x^6 - 5x^4 + 2x^2 - 7$ | $x^{12} - 6x^{10} + 75x^8 - 176x^6 + 1045x^4 + 726x^2 + 121$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,58 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} - 3x^8 + 4x^6 + 3x^4 + 2x^2 - 3$ | $x^{12} - 6x^{10} - 39x^8 - 336x^6 + 4611x^4 + 4710x^2 + 845$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 3 \end{array} \right]_3$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 5x^8 + 4x^6 + 3x^4 - 6x^2 - 7$ | $x^{12} + 14x^{10} + 83x^8 + 216x^6 + 113x^4 - 286x^2 + 121$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,87 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} + 7x^8 - 4x^6 + x^4 + 6x^2 + 1$ | $x^{12} + 6x^8 + 4x^6 + 48x^4 + 24x^2 + 4$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,89 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} - x^8 + 4x^6 - 3x^4 + 2x^2 + 1$ | $x^{12} - 6x^{10} + 15x^8 + 40x^6 - 39x^4 - 6x^2 + 25$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,60 | $\frac{169}{48}$ |
| $x^{12} + 6x^{10} - x^8 + 3x^4 - 6x^2 + 3$ | $x^{12} - 6x^{10} + 33x^8 - 176x^6 + 605x^4 - 1210x^2 + 1331$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2 \left[\begin{array}{ccc} 7 & 23 & 6 \\ 2 & 6 & 3 \end{array} \right]_3$ | T: 12,134 | $\frac{175}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 6x^{10} - 7x^8 - 4x^6 - 3x^4 + 6x^2 - 1$ | $x^{12} - 30x^{10} - 45x^8 + 10500x^6 + 78975x^4 + 141750x^2 - 50625$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} - x^8 + 7x^4 + 6x^2 - 1$ | $x^{12} + 36x^{10} + 486x^8 + 3060x^6 + 7920x^4 - 22500$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 3x^8 - 4x^6 - 5x^4 + 6x^2 + 7$ | $x^{12} + 2x^{10} + 3x^8 + 68x^6 - 285x^4 + 330x^2 - 121$ | $\left[\begin{array}{cccc} 2 & 8 & 3 & 3 \\ & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} - 3x^8 + 8x^6 + 5x^4 + 2x^2 + 7$ | $x^{12} - 10x^{10} + 31x^8 - 12x^6 - 85x^4 + 122x^2 - 49$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 3x^8 - 4x^6 + 3x^4 - 2x^2 + 3$ | $x^{12} + 18x^{10} + 87x^8 + 32x^6 - 13x^4 + 22x^2 + 11$ | $\left[\begin{array}{cccc} 2 & 8 & 3 & 3 \\ & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} - 3x^8 + 4x^6 - x^4 - 2x^2 - 3$ | $x^{12} + 22x^{10} - 363x^8 + 1804x^6 - 3817x^4 + 3630x^2 - 1331$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} - x^8 + 8x^6 - x^4 + 6x^2 + 7$ | $x^{12} + 30x^{10} + 225x^8 + 300x^6 + 4725x^4 + 6750x^2 - 5625$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 2x^{10} - 5x^8 + 5x^4 + 2x^2 - 7$ | $x^{12} - 26x^{10} + 411x^8 - 1452x^6 + 1705x^4 - 726x^2 + 121$ | $\left[\begin{array}{ccc} 8 & 8 & 23 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,60 | $\frac{169}{48}$ |
| $x^{12} - 6x^{10} + x^8 - 4x^6 + 5x^4 - 2x^2 - 1$ | $x^{12} + 30x^{10} - 135x^8 + 300x^6 + 4725x^4 - 6750x^2 - 5625$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} - x^8 + 4x^6 + x^4 + 6x^2 + 1$ | $x^{12} + 12x^{10} - 30x^8 - 68x^6 + 60x^4 + 192x^2 + 4$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,89 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} + 3x^8 + x^4 - 2x^2 - 3$ | $x^{12} + 30x^{10} + 225x^8 + 1500x^6 - 20625x^4 + 56250x^2 - 46875$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 3 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + 3x^8 - 4x^6 - 3x^4 + 2x^2 + 1$ | $x^{12} - 10x^{10} + 51x^8 - 128x^6 + 137x^4 - 18x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,89 | $\frac{85}{24}$ |
| $x^{12} + 6x^{10} - 7x^8 - 4x^6 - x^4 + 6x^2 - 3$ | $x^{12} - 198x^{10} + 3267x^8 + 15972x^6 - 395307x^4 - 2898918x^2 - 5314683$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 3 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + 3x^8 - 4x^6 + 3x^4 + 6x^2 + 3$ | $x^{12} + 44x^{10} + 682x^8 + 4356x^6 + 8228x^4 - 10648x^2 + 5324$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 2x^{10} + 7x^8 + 8x^6 + 3x^4 - 6x^2 - 5$ | $x^{12} + 6x^{10} + 19x^8 + 36x^6 + 43x^4 + 30x^2 + 11$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 7 & 23 \\ & & & 23 \\ & & & & 6 \\ & & & & & 3 \end{array} \right]^2_3$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 5x^8 + 4x^6 + 7x^4 + 6x^2 + 5$ | $x^{12} - 18x^{10} + 147x^8 - 616x^6 + 1221x^4 - 242x^2 - 1331$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 8 & 3 \\ & & 8 & 3 \\ & & & 3 \\ & & & & 3 \\ & & & & & 3 \end{array} \right]^2_3$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - x^8 - x^4 + 6x^2 - 1$ | $x^{12} + 90x^{10} + 1395x^8 - 6300x^6 - 68625x^4 - 168750x^2 - 140625$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 2 & 3 \\ & & 8 & 3 \\ & & & 3 \\ & & & & 7 & 23 \\ & & & & & 23 \\ & & & & & & 6 \\ & & & & & & & 3 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 3x^8 + 3x^4 - 6x^2 + 7$ | $x^{12} + 30x^{10} + 255x^8 + 1132x^6 + 2843x^4 + 3278x^2 - 121$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 2 & 3 \\ & & 8 & 3 \\ & & & 3 \\ & & & & 7 & 23 \\ & & & & & 23 \\ & & & & & & 6 \\ & & & & & & & 3 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 5x^8 - 5x^4 - 6x^2 + 1$ | $x^{12} + 2x^{10} + 13x^8 - 8x^6 + 27x^4 - 10x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 8 & 3 \\ & & & 3 \\ & & & & 23 \\ & & & & & 23 \\ & & & & & & 6 \\ & & & & & & & 3 \end{array} \right]^2_3$ | T: 12,87 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} - 3x^8 + 8x^6 + x^4 - 2x^2 + 3$ | $x^{12} - 6x^{10} + 15x^8 - 4x^6 + 39x^4 + 6x^2 + 3$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 8 & 3 \\ & & & 3 \\ & & & & 7 & 23 \\ & & & & & 23 \\ & & & & & & 6 \\ & & & & & & & 3 \end{array} \right]^2_3$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} + 5x^8 + 8x^6 - 5x^4 + 2x^2 + 1$ | $x^{12} - 2x^{10} + 13x^8 + 8x^6 + 27x^4 + 10x^2 + 1$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ & 3 & 3 \\ & & 8 & 3 \\ & & & 3 \\ & & & & 23 \\ & & & & & 23 \\ & & & & & & 6 \\ & & & & & & & 3 \end{array} \right]^2_3$ | T: 12,58 | $\frac{169}{48}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 2x^{10} - x^8 - 4x^6 + 7x^4 - 6x^2 - 1$ | $x^{12} + 6x^{10} + 15x^8 + 20x^6 + 15x^4 + 6x^2 - 1$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & \frac{23}{6} & \\ & \frac{23}{6} & \\ & & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + x^8 + x^4 + 2x^2 - 1$ | $x^{12} - 12x^{10} - 54x^8 + 420x^6 + 2160x^4 + 5400x^2 - 900$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{4}{3} & 3 \\ & & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & \frac{23}{6} & \\ & \frac{23}{6} & \\ & & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} + 5x^8 - 3x^4 - 6x^2 - 5$ | $x^{12} + 2x^{10} + 7x^8 - 16x^6 + 31x^4 - 22x^2 + 11$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{4}{3} & 3 \\ & & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & \frac{23}{6} & \\ & \frac{23}{6} & \\ & & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + x^8 + 8x^6 + 7x^4 + 6x^2 - 7$ | $x^{12} + 42x^{10} + 543x^8 + 2160x^6 + 3825x^4 + 6750x^2 + 5625$ | $\left[\begin{array}{ccc} 8 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & \frac{23}{6} & \\ & \frac{23}{6} & \\ & & 3 \end{array} \right]_3^2$ | T: 12,58 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} - 7x^8 + 5x^4 - 6x^2 - 1$ | $x^{12} - 18x^{10} + 171x^8 - 456x^6 - 513x^4 - 162x^2 - 9$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & \frac{23}{6} & \\ & \frac{23}{6} & \\ & & 3 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} + 3x^8 + 5x^4 - 6x^2 - 7$ | $x^{12} + 18x^{10} + 107x^8 + 256x^6 + 389x^4 + 330x^2 + 121$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & \frac{23}{6} & \\ & \frac{23}{6} & \\ & & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{85}{24}$ |
| $x^{12} + 6x^{10} + 5x^8 + 8x^6 - 7x^4 - 2x^2 - 5$ | $x^{12} + 6x^{10} + 69x^8 + 32x^6 + 33x^4 + 6x^2 + 3$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & \frac{23}{6} & \\ & \frac{23}{6} & \\ & & 3 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 2x^{10} - 3x^8 + 4x^6 + 7x^4 + 6x^2 - 3$ | $x^{12} - 2x^{10} + x^8 - 9x^4 + 22x^2 - 11$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \quad \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} - 7x^8 + 3x^4 - 6x^2 - 7$ | $x^{12} + 6x^{10} + 43x^8 + 160x^6 + 265x^4 + 194x^2 + 49$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \quad \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,58 | $\frac{169}{48}$ |
| $x^{12} - 6x^{10} + x^8 + 5x^4 + 2x^2 - 1$ | $x^{12} - 36x^{10} - 120x^9 + 1206x^8 + 1152x^7 - 11916x^6 - 57456x^5 + 440316x^4 - 1057968x^3 + 1202256x^2 - 635040x + 115740$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \quad \left[\begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} - 3x^8 + 4x^6 - 5x^4 + 2x^2 + 1$ | $x^{12} - 10x^{10} + 49x^8 - 88x^6 + 11x^4 + 242x^2 + 121$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \quad \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,58 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} - 7x^8 + 4x^6 + 5x^4 - 2x^2 + 7$ | $x^{12} - 30x^{10} - 135x^8 - 300x^6 + 4725x^4 + 6750x^2 - 5625$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \quad \left[\begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} - x^8 + 4x^6 + x^4 - 2x^2 + 1$ | $x^{12} + 6x^8 - 4x^6 + 48x^4 - 24x^2 + 4$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \quad \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,60 | $\frac{169}{48}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 2x^{10} - x^8 + 4x^6 + x^4 + 6x^2 - 3$ | $x^{12} + 30x^{10} + 513x^8 - 2400x^6 - 16389x^4 + 1350x^2 + 45$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - 7x^8 + 7x^4 - 2x^2 - 7$ | $x^{12} + 6x^{10} - 153x^8 - 1512x^6 - 3807x^4 - 4374x^2 + 729$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,87 | $\frac{85}{24}$ |
| $x^{12} + 6x^{10} + 7x^8 - 4x^6 - 3x^4 + 2x^2 + 5$ | $x^{12} + 42x^{10} + 207x^8 + 456x^6 + 729x^4 + 810x^2 + 405$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 5x^8 + 8x^6 - x^4 + 6x^2 - 7$ | $x^{12} - 4x^{10} - 18x^8 + 132x^6 - 176x^4 + 484$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,87 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} - 7x^8 - 4x^6 - x^4 - 2x^2 + 1$ | $x^{12} - 20x^{10} + 158x^8 - 612x^6 + 1232x^4 - 1232x^2 + 484$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,58 | $\frac{169}{48}$ |
| $x^{12} + 6x^{10} + 3x^8 + 8x^6 - 5x^4 - 6x^2 - 5$ | $x^{12} - 16x^{10} + 74x^8 - 300x^6 + 388x^4 - 264x^2 + 44$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 3x^8 + 8x^6 + 3x^4 + 2x^2 - 5$ | $x^{12} + 16x^{10} + 74x^8 + 300x^6 + 388x^4 + 264x^2 + 44$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 6x^{10} - 3x^8 + 4x^6 - 5x^4 - 6x^2 + 5$ | $x^{12} + 12x^{10} + 36x^8 + 200x^6 + 360x^4 + 2880x^2 + 720$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} - 7x^8 + 4x^6 + x^4 - 6x^2 + 3$ | $x^{12} + 44x^{10} + 594x^8 + 3388x^6 + 8712x^4 + 10648x^2 + 5324$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 7 & 23 \\ 3 & 2 & 6 \end{array} \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} - 5x^8 - 3x^4 - 6x^2 + 1$ | $x^{12} + 14x^{10} + 59x^8 + 44x^6 + 121x^4 + 242x^2 + 121$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,60 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} - 3x^8 + 4x^6 + 7x^4 + 6x^2 + 5$ | $x^{12} - 108x^{10} + 5526x^8 - 8460x^6 + 4320x^4 - 2700$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 6 \end{array} \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + x^8 - 3x^4 + 2x^2 + 7$ | $x^{12} - 6x^{10} + 9x^8 + 4x^6 - 15x^4 + 6x^2 - 1$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} - 5x^8 + 4x^6 - 5x^4 - 2x^2 - 5$ | $x^{12} - 22x^{10} + 231x^8 - 968x^6 + 363x^4 + 2662x^2 + 1331$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} + 5x^8 + 4x^6 - x^4 - 2x^2 - 3$ | $x^{12} + 18x^{10} + 147x^8 + 616x^6 + 1221x^4 + 242x^2 - 1331$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 6 \end{array} \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 6x^{10} + 5x^8 + 4x^6 + 7x^4 - 2x^2 + 5$ | $x^{12} + 6x^{10} + 9x^8 - 209x^4 - 1210x^2 - 1331$ | $\left[\begin{array}{cccc} 4 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} - x^8 - 5x^4 - 6x^2 + 3$ | $x^{12} + 2x^{10} + x^8 + 4x^6 + 9x^4 - 6x^2 + 11$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 7 & 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} - 7x^8 + 8x^6 + x^4 - 2x^2 - 5$ | $x^{12} - 2x^{10} + 9x^8 + 24x^6 + 33x^4 + 30x^2 + 11$ | $\left[\begin{array}{cccc} 4 & 2 & 8 & 3 \\ 3 & 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + 5x^8 + 4x^6 + 3x^4 - 6x^2 - 3$ | $x^{12} - 30x^{10} + 327x^8 - 1540x^6 + 2961x^4 - 2430x^2 + 405$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 7x^8 + 4x^6 + x^4 + 6x^2 - 7$ | $x^{12} + 6x^{10} + 9x^8 + 12x^6 + 15x^4 + 18x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} - x^8 - 4x^6 - x^4 - 6x^2 + 7$ | $x^{12} - 6x^{10} + 15x^8 - 20x^6 + 15x^4 - 6x^2 - 9$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 7 & 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} - 5x^8 - 5x^4 - 6x^2 + 7$ | $x^{12} - 90x^{10} - 1665x^8 - 4500x^6 - 49725x^4 - 290250x^2 - 275625$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 2x^{10} + x^8 + x^4 + 6x^2 + 3$ | $x^{12} - 4x^{10} + 6x^8 - 36x^6 + 72x^4 + 56x^2 + 44$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} - 7x^8 + 4x^6 + 5x^4 - 2x^2 - 1$ | $x^{12} - 60x^{10} + 1380x^8 - 15200x^6 + 75600x^4 - 72000x^2 - 360000$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + 5x^8 + 8x^6 - 3x^4 - 6x^2 - 1$ | $x^{12} - 10x^{10} - 67x^8 + 64x^6 + 301x^4 - 682x^2 - 121$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} - 7x^8 + 4x^6 - x^4 + 6x^2 - 3$ | $x^{12} - 2178x^8 + 66132x^6 - 812592x^4 + 4077216x^2 - 10781100$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + x^8 + 4x^6 - x^4 - 2x^2 + 1$ | $x^{12} - 2x^{10} + 7x^8 - 8x^6 + 77x^4 - 110x^2 + 121$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]^2_3$ | T: 12,87 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} + 5x^8 - 4x^6 - x^4 + 6x^2 - 3$ | $x^{12} - 72x^{10} + 1026x^8 + 15660x^6 - 97200x^4 - 24300$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - 7x^8 - 4x^6 - 3x^4 - 2x^2 - 1$ | $x^{12} - 30x^{10} + 345x^8 - 1900x^6 + 4725x^4 - 2250x^2 - 5625$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 2x^{10} - 5x^8 + 8x^6 + 3x^4 - 6x^2 - 1$ | $x^{12} - 2x^{10} + 11x^8 + 8x^6 - 29x^4 + 10x^2 - 1$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 7 & 23 \\ 2 & 6 \end{array} \left. \vphantom{\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} - x^8 - 4x^6 + 7x^4 + 2x^2 + 7$ | $x^{12} + 6x^8 - 28x^6 - 16x^4 + 16x^2 - 4$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \end{array} \right]_3 \begin{array}{cc} 7 & 23 \\ 2 & 6 \end{array} \left. \vphantom{\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} - x^8 + 4x^6 + x^4 - 2x^2 - 3$ | $x^{12} + 54x^{10} + 1089x^8 + 10440x^6 + 48075x^4 + 85590x^2 + 5$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 3 & 23 \\ 3 & 6 \end{array} \left. \vphantom{\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} - 3x^8 + 7x^4 - 2x^2 + 1$ | $x^{12} - 12x^{10} + 30x^8 - 28x^6 + 4$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \end{array} \right]_3 \begin{array}{cc} 3 & 23 \\ 6 & 6 \end{array} \left. \vphantom{\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,87 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} + 3x^8 + 3x^4 + 2x^2 + 7$ | $x^{12} + 2x^{10} + 11x^8 - 8x^6 - 29x^4 - 10x^2 - 1$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 7 & 23 \\ 2 & 6 \end{array} \left. \vphantom{\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} - 6x^{10} + x^8 + 4x^6 + 3x^4 - 6x^2 + 5$ | $x^{12} - 48x^{10} - 594x^8 - 660x^6 + 1620x^4 + 3240x^2 + 1620$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 3 & 23 \\ 3 & 6 \end{array} \left. \vphantom{\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,187 | $\frac{1375}{384}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 6x^{10} + 5x^8 - 5x^4 + 2x^2 - 7$ | $x^{12} - 10x^{10} + 45x^8 - 176x^6 + 539x^4 - 726x^2 + 121$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & & \\ 23 & & \\ 6 & & \end{array} \right]_3^2$ | T: 12,87 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} - 3x^8 + 4x^6 + 3x^4 - 6x^2 + 5$ | $x^{12} + 48x^{10} + 954x^8 + 10100x^6 + 60660x^4 + 197640x^2 + 273780$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \\ & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & & \\ 23 & & \\ 6 & & \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} + 5x^8 + 4x^6 + 7x^4 - 2x^2 - 3$ | $x^{12} + 6x^{10} - 171x^8 + 1980x^6 - 6225x^4 + 6750x^2 - 1875$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \\ & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & & \\ 23 & & \\ 6 & & \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - x^8 - 4x^6 + x^4 - 2x^2 - 3$ | $x^{12} + 18x^{10} + 159x^8 + 440x^6 - 195x^4 - 30x^2 + 5$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \\ & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & & \\ 23 & & \\ 6 & & \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} - 7x^8 + 3x^4 + 2x^2 - 7$ | $x^{12} + 26x^{10} + 235x^8 + 880x^6 + 1177x^4 + 726x^2 + 121$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \\ & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & & \\ 23 & & \\ 6 & & \end{array} \right]_3^2$ | T: 12,58 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} - 3x^8 + 8x^6 - 3x^4 - 6x^2 - 1$ | $x^{12} - 30x^{10} - 1065x^8 - 10500x^6 - 46725x^4 - 104250x^2 - 105625$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \\ & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & & \\ 23 & & \\ 2 & & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 3x^8 - 4x^6 - 5x^4 - 2x^2 + 7$ | $x^{12} - 2x^{10} - 75x^8 - 308x^6 - 451x^4 - 242x^2 - 121$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & & \\ 23 & & \\ 2 & & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 6x^{10} - 7x^8 - x^4 - 2x^2 + 1$ | $x^{12} - 6x^{10} + 39x^8 - 124x^6 + 165x^4 - 78x^2 + 1$ | $\begin{bmatrix} 8 & 8 & 3 \\ 3 & 3 & 3 \end{bmatrix} \begin{bmatrix} 23 & 23 \\ 6 & 6 \end{bmatrix}^2_3$ | T: 12,58 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} - 5x^8 + 4x^6 - 5x^4 + 6x^2 - 1$ | $x^{12} + 22x^{10} + 451x^8 + 3388x^6 + 9075x^4 + 2662x^2 - 14641$ | $\begin{bmatrix} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{bmatrix} \begin{bmatrix} 7 & 23 \\ 2 & 6 \end{bmatrix}^2_3$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 5x^8 + 4x^6 + 3x^4 - 6x^2 + 5$ | $x^{12} - 12x^{10} + 84x^8 - 352x^6 + 816x^4 - 960x^2 + 320$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 & 3 \end{bmatrix} \begin{bmatrix} 23 & 23 \\ 6 & 6 \end{bmatrix}^2_3$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - 3x^8 + 4x^6 - 5x^4 + 2x^2 + 5$ | $x^{12} - 48x^{10} + 954x^8 - 10100x^6 + 60660x^4 - 197640x^2 + 273780$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 & 3 \end{bmatrix} \begin{bmatrix} 23 & 23 \\ 6 & 6 \end{bmatrix}^2_3$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} + x^8 + 7x^4 + 6x^2 + 1$ | $x^{12} - 2x^{10} - 17x^8 + 56x^6 - 47x^4 + 18x^2 + 1$ | $\begin{bmatrix} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{bmatrix} \begin{bmatrix} 23 & 23 \\ 6 & 6 \end{bmatrix}^2_3$ | T: 12,87 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} - x^8 - x^4 - 2x^2 - 1$ | $x^{12} + 48x^{10} + 306x^8 - 420x^6 - 900$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix} \begin{bmatrix} 7 & 23 \\ 2 & 6 \end{bmatrix}^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + 7x^8 + 7x^4 - 2x^2 - 5$ | $x^{12} + 10x^{10} + 71x^8 + 264x^6 + 671x^4 + 902x^2 + 539$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix} \begin{bmatrix} 7 & 23 \\ 2 & 6 \end{bmatrix}^2_3$ | T: 12,222 | $\frac{2803}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 6x^{10} + x^8 + 3x^4 + 2x^2 + 1$ | $x^{12} - 10x^{10} + 13x^8 - 52x^6 + 35x^4 - 10x^2 + 1$ | $\left[\begin{array}{ccc} 8 & 8 & 23 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,58 | $\frac{169}{48}$ |
| $x^{12} - 6x^{10} + 7x^8 + 7x^4 + 6x^2 - 1$ | $x^{12} - 36x^{10} + 324x^8 - 1280x^6 + 3600x^4 - 4800x^2 - 1600$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} - x^8 - 4x^6 + 5x^4 + 2x^2 - 3$ | $x^{12} - 42x^{10} + 207x^8 - 456x^6 + 729x^4 - 810x^2 + 405$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 3 & 23 \\ 3 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} - 7x^8 + 4x^6 + 7x^4 - 2x^2 - 3$ | $x^{12} - 2178x^8 - 66132x^6 - 812592x^4 - 4077216x^2 - 10781100$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 3 & 23 \\ 3 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 3x^8 + 4x^6 - 5x^4 + 6x^2 + 7$ | $x^{12} + 22x^{10} - 451x^8 + 2420x^6 - 5203x^4 + 7986x^2 - 14641$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 2 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} + x^8 - x^4 - 2x^2 + 1$ | $x^{12} + 6x^{10} + 15x^8 + 16x^6 + 57x^4 - 6x^2 + 1$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,58 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} - 7x^8 + 4x^6 + 3x^4 + 2x^2 + 5$ | $x^{12} + 18x^{10} + 159x^8 + 1000x^6 + 3225x^4 + 2190x^2 + 5$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 3 & 23 \\ 3 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 2x^{10} - 7x^8 + 4x^6 + 7x^4 - 2x^2 + 5$ | $x^{12} + 24x^{10} + 174x^8 - 580x^6 - 18000x^4 - 176400x^2 - 720300$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 7x^8 - 4x^6 + x^4 - 2x^2 + 5$ | $x^{12} - 30x^{10} + 513x^8 + 2400x^6 - 16389x^4 - 1350x^2 + 45$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + x^8 + 4x^6 - 3x^4 + 6x^2 - 1$ | $x^{12} - 84x^{10} - 126x^8 + 1580x^6 - 2160x^4 + 600x^2 - 100$ | $\left[\begin{array}{ccc} 4 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 7x^8 + 8x^6 + 3x^4 + 2x^2 - 5$ | $x^{12} + 6x^{10} + 33x^8 + 176x^6 + 605x^4 + 1210x^2 + 1331$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 7 \\ & & 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + x^8 + 4x^6 - 5x^4 - 6x^2 + 5$ | $x^{12} + 12x^{10} + 66x^8 + 60x^6 - 1260x^4 - 3480x^2 + 20$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} - 3x^8 + 8x^6 + x^4 + 6x^2 + 3$ | $x^{12} - 6x^{10} + 31x^8 - 132x^6 + 495x^4 - 1122x^2 + 1859$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 7 \\ & & 2 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 3x^8 + 8x^6 - 7x^4 - 2x^2 + 5$ | $x^{12} + 18x^{10} + 387x^8 + 504x^6 + 42993x^4 - 30510x^2 - 180075$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 2x^{10} + 5x^8 + 4x^6 - 5x^4 + 2x^2 - 7$ | $x^{12} - 2x^{10} + 3x^8 + 12x^6 + 13x^4 + 6x^2 + 1$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,58 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} + 5x^8 + 4x^6 - 5x^4 + 2x^2 + 5$ | $x^{12} + 12x^{10} + 84x^8 + 352x^6 + 816x^4 + 960x^2 + 320$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} - 5x^8 + 4x^6 + 3x^4 + 6x^2 + 7$ | $x^{12} + 6x^{10} + 15x^8 - 720x^6 - 2205x^4 - 2214x^2 - 729$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} - 5x^8 + 8x^6 - x^4 - 2x^2 + 3$ | $x^{12} - 6x^{10} + 15x^8 - 20x^6 + 15x^4 - 6x^2 + 3$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} - x^8 + 4x^6 + 5x^4 - 6x^2 - 3$ | $x^{12} - 24x^{10} + 198x^8 - 628x^6 + 504x^4 - 360x^2 + 180$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + x^8 + 4x^6 + 7x^4 - 2x^2 - 7$ | $x^{12} + 2x^{10} + 7x^8 + 8x^6 + 77x^4 + 110x^2 + 121$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,58 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} - 3x^8 + 4x^6 - 5x^4 - 2x^2 - 7$ | $x^{12} - 2x^{10} - 3x^8 - 4x^6 + 11x^4 - 6x^2 + 1$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,60 | $\frac{169}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 6x^{10} - 7x^8 + 4x^6 + 3x^4 - 6x^2 + 5$ | $x^{12} + 18x^{10} + 69x^8 - 8x^6 - 69x^4 + 30x^2 + 5$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 3 & 3 \\ 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} - 5x^8 + 4x^6 - 3x^4 + 2x^2 - 7$ | $x^{12} + 6x^{10} + 53x^8 + 308x^6 + 1243x^4 + 4114x^2 + 5929$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 2 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,60 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} + x^8 + 8x^6 - x^4 - 2x^2 - 7$ | $x^{12} - 6x^{10} + 39x^8 - 108x^6 + 117x^4 - 54x^2 + 9$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,87 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} - x^8 - 4x^6 + x^4 - 2x^2 + 1$ | $x^{12} + 6x^{10} - 33x^8 + 72x^6 - 99x^4 + 54x^2 + 9$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 2 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,60 | $\frac{169}{48}$ |
| $x^{12} + 6x^{10} + x^8 + 8x^6 + x^4 + 6x^2 - 5$ | $x^{12} - 4x^{10} + 6x^8 + 172x^6 - 604x^4 + 1584x^2 + 2156$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 7 \\ 3 & 3 & 2 \\ 23 & 23 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + 5x^8 + 4x^6 - 5x^4 - 2x^2 + 1$ | $x^{12} - 22x^{10} + 187x^8 - 4719x^4 - 2662x^2 + 14641$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 2 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,60 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} + x^8 + 7x^4 - 2x^2 - 7$ | $x^{12} + 6x^{10} - x^8 - 20x^6 + 53x^4 - 66x^2 + 9$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,87 | $\frac{85}{24}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 2x^{10} - 3x^8 - 3x^4 + 2x^2 - 1$ | $x^{12} + 150x^{10} - 1035x^8 - 1200x^6 + 15525x^4 - 20250x^2 - 50625$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 7 & 23 \\ 2 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 3x^8 + 3x^4 + 2x^2 - 1$ | $x^{12} + 90x^{10} + 3015x^8 + 45900x^6 + 301275x^4 + 533250x^2 - 5625$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 7 & 23 \\ 2 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} - x^8 + 4x^6 + x^4 - 2x^2 + 1$ | $x^{12} - 6x^{10} - 33x^8 - 72x^6 - 99x^4 - 54x^2 + 9$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 23 & 23 \\ 6 & 6 \end{array} \right]^2_3$ | T: 12,89 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} + x^8 + x^4 - 2x^2 + 3$ | $x^{12} - 2x^{10} - 15x^8 + 60x^6 + 141x^4 - 990x^2 + 539$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 7 & 23 \\ 2 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} - 7x^8 - 4x^6 - 3x^4 + 6x^2 + 7$ | $x^{12} + 84x^{10} - 126x^8 - 1580x^6 - 2160x^4 - 600x^2 - 100$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 7 & 23 \\ 2 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} - 5x^8 + 4x^6 + 7x^4 - 2x^2 - 5$ | $x^{12} - 14x^{10} + 75x^8 - 188x^6 + 207x^4 - 66x^2 + 11$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 7 & 23 \\ 2 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} - x^8 - 4x^6 - x^4 - 6x^2 - 5$ | $x^{12} - 18x^{10} + 117x^8 - 324x^6 + 309x^4 + 54x^2 + 3$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 7 & 23 \\ 2 & 6 \end{array} \right]^2_3$ | T: 12,134 | $\frac{175}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 2x^{10} - 3x^8 - 3x^4 + 2x^2 + 7$ | $x^{12} - 18x^{10} + 61x^8 + 576x^6 - 4443x^4 + 9174x^2 - 5929$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} + 7x^8 + 4x^6 + 7x^4 - 6x^2 + 7$ | $x^{12} + 10x^{10} + 49x^8 + 144x^6 + 221x^4 + 126x^2 - 9$ | $\left[\begin{array}{ccc} 2 & 8 & 23 \\ 3 & 3 & 6 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} - 7x^8 - 4x^6 - 7x^4 + 2x^2 + 3$ | $x^{12} - 22x^{10} + 143x^8 - 968x^6 + 2299x^4 - 2662x^2 + 1331$ | $\left[\begin{array}{ccc} 2 & 8 & 23 \\ 3 & 3 & 6 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} - 3x^8 + x^4 - 2x^2 + 7$ | $x^{12} + 36x^{10} + 468x^8 + 1152x^6 - 26352x^4 - 250560x^2 - 705600$ | $\left[\begin{array}{ccc} 2 & 8 & 23 \\ 3 & 3 & 6 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} - 3x^8 - 5x^4 - 6x^2 + 1$ | $x^{12} + 22x^{10} + 165x^8 + 968x^6 + 9075x^4 + 39930x^2 + 14641$ | $\left[\begin{array}{ccc} 2 & 8 & 23 \\ 3 & 3 & 6 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 6 \end{array} \right]^2_3$ | T: 12,87 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} - x^8 - 4x^6 + x^4 + 6x^2 - 3$ | $x^{12} - 18x^{10} + 69x^8 - 100x^6 + 75x^4 - 30x^2 + 5$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 23 & 23 \\ 3 & 6 & 6 \end{array} \right]^2_3$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} - 3x^8 - 5x^4 + 2x^2 + 1$ | $x^{12} + 6x^{10} + 17x^8 + 28x^6 + 27x^4 + 14x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 8 & 23 \\ 3 & 3 & 6 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 6 \end{array} \right]^2_3$ | T: 12,87 | $\frac{85}{24}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 2x^{10} - 5x^8 + 4x^6 - 5x^4 + 6x^2 - 5$ | $x^{12} + 6x^{10} + 17x^8 - 108x^6 + 137x^4 - 66x^2 + 11$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & \frac{8}{3} & 3 \\ & 3 & 3 & \frac{7}{2} \\ & & \frac{23}{6} & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 3x^8 + 4x^6 - x^4 - 2x^2 + 3$ | $x^{12} + 10x^{10} - 19x^8 - 572x^6 + 825x^4 + 2662x^2 + 1331$ | $\left[\begin{array}{cccc} \frac{4}{3} & \frac{4}{3} & 2 & \frac{8}{3} \\ & \frac{8}{3} & \frac{8}{3} & 3 \\ & & 3 & \frac{7}{2} \\ & & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} - 7x^8 + 4x^6 - 5x^4 + 2x^2 - 3$ | $x^{12} - 6x^{10} - 441x^8 - 2460x^6 + 645x^4 - 150x^2 + 5$ | $\left[\begin{array}{cccc} \frac{4}{3} & \frac{4}{3} & \frac{8}{3} & \frac{8}{3} \\ & \frac{8}{3} & \frac{8}{3} & 3 \\ & & 3 & 3 \\ & & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} - 3x^8 + 8x^6 - x^4 - 2x^2 + 1$ | $x^{12} - 14x^{10} + 71x^8 - 176x^6 + 253x^4 - 242x^2 + 121$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & \frac{8}{3} & 3 \\ & 3 & 3 & \frac{23}{6} \\ & & 3 & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,87 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} + 7x^8 + 8x^6 - x^4 + 6x^2 + 7$ | $x^{12} - 1170x^8 - 26100x^6 - 220500x^4 - 675000x^2 - 562500$ | $\left[\begin{array}{cccc} \frac{4}{3} & \frac{4}{3} & 2 & \frac{8}{3} \\ & \frac{8}{3} & \frac{8}{3} & 3 \\ & & 3 & \frac{7}{2} \\ & & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} - 7x^8 + 4x^6 + x^4 - 6x^2 - 5$ | $x^{12} + 2x^{10} - 33x^8 - 88x^6 + 363x^4 + 1210x^2 + 1331$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & \frac{8}{3} & 3 \\ & 3 & 3 & \frac{7}{2} \\ & & \frac{23}{6} & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} - 7x^8 - 3x^4 - 6x^2 + 7$ | $x^{12} - 78x^{10} + 1521x^8 - 10140x^6 - 63855x^4 - 101250x^2 - 50625$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & \frac{8}{3} & 3 \\ & 3 & 3 & \frac{7}{2} \\ & & \frac{23}{6} & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} + 6x^{10} - 5x^8 + 8x^6 + x^4 + 6x^2 + 5$ | $x^{12} - 60x^{10} + 768x^8 + 6424x^6 - 43560x^4 - 383328x^2 - 702768$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{23}{6} \frac{23}{6} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + 5x^8 - 4x^6 - x^4 + 6x^2 + 5$ | $x^{12} + 2x^{10} - 45x^8 + 132x^6 - 143x^4 + 66x^2 - 11$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{23}{6} \frac{23}{6} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} - x^8 + 7x^4 + 6x^2 - 5$ | $x^{12} - 8x^{10} - 6x^8 + 220x^6 + 396x^4 + 264x^2 + 44$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{7}{2} \frac{23}{6} \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} - x^8 - x^4 - 2x^2 + 3$ | $x^{12} + 2x^{10} - 43x^8 + 44x^6 + 121x^4 + 66x^2 + 11$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{7}{2} \frac{23}{6} \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} - 7x^8 + 8x^6 + x^4 + 6x^2 - 5$ | $x^{12} + 8x^{10} + 34x^8 + 60x^6 + 100x^4 + 64x^2 + 44$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{7}{2} \frac{23}{6} \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + x^8 - 4x^6 + 5x^4 + 6x^2 - 1$ | $x^{12} - 30x^{10} + 135x^8 + 1000x^6 - 2025x^4 + 2250x^2 - 625$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{7}{2} \frac{23}{6} \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 3x^8 + 8x^6 + x^4 + 6x^2 + 5$ | $x^{12} - 30x^{10} + 225x^8 - 1500x^6 - 20625x^4 - 56250x^2 - 46875$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{23}{6} \frac{23}{6} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 2x^{10} + x^8 + 8x^6 + 5x^4 + 2x^2 + 7$ | $x^{12} - 6x^{10} + 9x^8 + 24x^6 - 27x^4 + 18x^2 - 9$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \Big]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + x^8 + 4x^6 - 7x^4 + 2x^2 - 5$ | $x^{12} + 22x^{10} + 143x^8 + 968x^6 + 2299x^4 + 2662x^2 + 1331$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \Big]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} + x^8 + 8x^6 - x^4 + 6x^2 + 1$ | $x^{12} - 6x^{10} + 15x^8 - 16x^6 + 57x^4 + 6x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 3 & 23 & 23 \\ 3 & 6 & 6 \end{array} \Big]_3^2$ | T: 12,87 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} + 3x^8 + 5x^4 + 2x^2 - 7$ | $x^{12} + 22x^{10} + 121x^8 + 484x^6 + 7139x^4 + 18634x^2 + 14641$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 3 & 23 & 23 \\ 3 & 6 & 6 \end{array} \Big]_3^2$ | T: 12,89 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} - 5x^8 + 5x^4 + 2x^2 + 1$ | $x^{12} - 6x^{10} + 19x^8 - 36x^6 + 33x^4 - 10x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 3 & 23 & 23 \\ 3 & 6 & 6 \end{array} \Big]_3^2$ | T: 12,89 | $\frac{85}{24}$ |
| $x^{12} + 6x^{10} + 7x^8 + 4x^6 + 5x^4 + 2x^2 - 7$ | $x^{12} + 24x^{10} + 186x^8 + 620x^6 + 924x^4 + 528x^2 + 100$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 3 & 23 & 23 \\ 3 & 6 & 6 \end{array} \Big]_3^2$ | T: 12,89 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} + x^8 - 4x^6 - x^4 - 2x^2 - 3$ | $x^{12} - 18x^{10} - 639x^8 + 17700x^6 - 105705x^4 - 36450x^2 - 735075$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \\ & & 3 \end{array} \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \Big]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} + 2x^{10} + 7x^8 + 7x^4 - 2x^2 - 1$ | $x^{12} - 6x^{10} + 819x^8 + 10740x^6 - 12825x^4 + 4050x^2 - 225$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} - 5x^8 + 8x^6 - x^4 + 6x^2 + 3$ | $x^{12} + 6x^{10} + 15x^8 + 20x^6 + 23x^4 + 22x^2 + 11$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 5x^8 + x^4 - 2x^2 - 5$ | $x^{12} + 6x^{10} + 15x^8 + 4x^6 + 39x^4 - 6x^2 + 3$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} + x^8 + 4x^6 - x^4 - 2x^2 - 3$ | $x^{12} + 198x^{10} + 3267x^8 - 15972x^6 - 395307x^4 + 2898918x^2 - 5314683$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - x^8 + 8x^6 + 7x^4 + 6x^2 + 7$ | $x^{12} + 6x^{10} + 819x^8 - 10740x^6 - 12825x^4 - 4050x^2 - 225$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 7 \\ 3 & 3 & 2 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} + 3x^8 - 3x^4 + 2x^2 + 1$ | $x^{12} + 6x^{10} - 5x^8 + 21x^4 + 14x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,89 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} - 5x^8 - 3x^4 + 2x^2 - 7$ | $x^{12} + 26x^{10} + 411x^8 + 1452x^6 + 1705x^4 + 726x^2 + 121$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,89 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} - 5x^8 + 5x^4 - 6x^2 - 7$ | $x^{12} - 2x^{10} + 59x^8 + 120x^6 + 69x^4 + 14x^2 + 1$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,60 | $\frac{169}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 2x^{10} + 3x^8 - 4x^6 + 7x^4 - 2x^2 + 3$ | $x^{12} - 10x^{10} - 19x^8 + 572x^6 + 825x^4 - 2662x^2 + 1331$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} - 7x^8 - 4x^6 - 7x^4 - 6x^2 - 5$ | $x^{12} + 6x^{10} + 9x^8 - 4x^6 - 7x^4 + 10x^2 + 11$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 2 & 8 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 7x^8 + 8x^6 + 7x^4 + 6x^2 + 3$ | $x^{12} + 16x^{10} + 86x^8 + 132x^6 - 176x^4 + 44$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} - 3x^8 - 3x^4 - 6x^2 + 7$ | $x^{12} + 10x^{10} - 67x^8 - 64x^6 + 301x^4 + 682x^2 - 121$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} - x^8 + 4x^6 + x^4 + 6x^2 - 7$ | $x^{12} + 10x^{10} + 55x^8 + 176x^6 + 341x^4 + 330x^2 + 121$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,60 | $\frac{169}{48}$ |
| $x^{12} + 6x^{10} + x^8 - 4x^6 - x^4 + 6x^2 - 7$ | $x^{12} + 6x^{10} + 33x^8 + 92x^6 + 111x^4 + 54x^2 + 9$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,58 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} - 3x^8 + x^4 + 6x^2 + 7$ | $x^{12} - 54x^{10} + 855x^8 - 1104x^6 - 64989x^4 - 18630x^2 - 2025$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 2 & 8 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 2x^{10} - 3x^8 - 3x^4 + 2x^2 + 3$ | $x^{12} + 4x^{10} - 2x^8 - 12x^6 + 64x^4 - 88x^2 + 44$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} - x^8 + 4x^6 - 3x^4 + 2x^2 - 7$ | $x^{12} + 90x^8 + 12x^6 + 2268x^4 + 864x^2 + 10404$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,89 | $\frac{85}{24}$ |
| $x^{12} + 6x^{10} + 3x^8 - 5x^4 + 2x^2 + 3$ | $x^{12} + 16x^{10} + 90x^8 + 220x^6 + 292x^4 + 184x^2 + 44$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 5x^8 - 4x^6 + 7x^4 - 2x^2 + 5$ | $x^{12} - 22x^{10} + 99x^8 + 528x^6 - 3619x^4 + 5566x^2 - 1331$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad \frac{4}{3} \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} + 7x^8 + 4x^6 + x^4 - 2x^2 + 1$ | $x^{12} - 8x^{10} + 22x^8 + 44x^6 - 440x^2 + 484$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,60 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} - x^8 - 4x^6 - 3x^4 - 6x^2 - 7$ | $x^{12} - 6x^{10} + 21x^8 - 60x^6 + 135x^4 - 162x^2 + 81$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,60 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} - x^8 + 4x^6 - 3x^4 + 2x^2 - 3$ | $x^{12} + 54x^{10} + 1041x^8 + 10084x^6 + 53451x^4 + 148050x^2 + 167445$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad \frac{4}{3} \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 6x^{10} + 5x^8 + 5x^4 + 2x^2 - 1$ | $x^{12} + 10x^{10} + 31x^8 + 12x^6 - 85x^4 - 122x^2 - 49$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} - 5x^8 - 4x^6 + 7x^4 - 2x^2 - 5$ | $x^{12} + 14x^{10} + 75x^8 + 188x^6 + 207x^4 + 66x^2 + 11$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} - 5x^8 + 8x^6 - 7x^4 - 2x^2 + 5$ | $x^{12} - 36x^{10} + 918x^8 + 11748x^6 - 39204x^4 - 1581228$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} + x^8 + 4x^6 - 7x^4 + 2x^2 + 3$ | $x^{12} + 10x^{10} + 33x^8 - 88x^6 - 363x^4 + 242x^2 + 1331$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} - x^8 + 3x^4 + 2x^2 + 3$ | $x^{12} - 6x^{10} + 19x^8 - 36x^6 + 43x^4 - 30x^2 + 11$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} - 7x^8 + 4x^6 - x^4 + 6x^2 + 5$ | $x^{12} - 24x^{10} + 174x^8 + 580x^6 - 18000x^4 + 176400x^2 - 720300$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + x^8 - 4x^6 + x^4 - 6x^2 - 5$ | $x^{12} - 44x^{10} + 594x^8 - 3388x^6 + 8712x^4 - 10648x^2 + 5324$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,141 | $\frac{175}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 2x^{10} - 7x^8 + x^4 + 6x^2 + 3$ | $x^{12} + 16x^{10} + 74x^8 + 212x^6 + 872x^4 + 2376x^2 + 2156$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} - 7x^8 + 8x^6 + 3x^4 - 6x^2 - 7$ | $x^{12} + 30x^{10} + 379x^8 + 2244x^6 + 6765x^4 + 10406x^2 + 5929$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,87 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} - 7x^8 + 8x^6 - x^4 + 6x^2 + 1$ | $x^{12} + 6x^{10} + 39x^8 + 124x^6 + 165x^4 + 78x^2 + 1$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,87 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} - x^8 - 4x^6 - x^4 + 2x^2 - 5$ | $x^{12} - 14x^{10} + 77x^8 - 196x^6 + 229x^4 - 110x^2 + 11$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} - x^8 - 4x^6 + 7x^4 - 6x^2 - 5$ | $x^{12} - 18x^{10} + 135x^8 - 540x^6 + 1215x^4 - 1458x^2 + 675$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} + 3x^8 + x^4 + 6x^2 + 5$ | $x^{12} + 36x^{10} + 486x^8 + 2796x^6 + 3276x^4 - 29520x^2 - 86700$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad \frac{4}{3} \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 7x^8 + 4x^6 + 7x^4 + 2x^2 - 1$ | $x^{12} - 12x^{10} + 60x^8 - 160x^6 + 240x^4 - 192x^2 - 576$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 6x^{10} + 7x^8 + 4x^6 + 5x^4 + 2x^2 + 5$ | $x^{12} - 54x^{10} + 1041x^8 - 10084x^6 + 53451x^4 - 148050x^2 + 167445$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} + 7x^8 + 4x^6 + 7x^4 - 6x^2 + 3$ | $x^{12} - 16x^{10} + 66x^8 + 28x^6 - 384x^4 + 352x^2 + 44$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 7 \\ & & & 2 \end{array} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} - 3x^8 - 7x^4 + 6x^2 + 3$ | $x^{12} + 18x^{10} + 147x^8 + 352x^6 + 1727x^4 + 242x^2 + 11$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 7 \\ & & & 2 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} - 5x^8 + 8x^6 + 3x^4 + 2x^2 - 1$ | $x^{12} - 4x^{11} - 22x^{10} + 116x^9 + 81x^8 - 1296x^7 + 2336x^6 + 360x^5 - 4281x^4 + 3092x^3 - 2202x^2 - 4748x + 2491$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} - x^8 - 4x^6 - 3x^4 - 6x^2 - 3$ | $x^{12} - 6x^{10} + 183x^8 - 692x^6 + 909x^4 - 450x^2 + 45$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} + x^8 + 4x^6 - 5x^4 + 2x^2 + 5$ | $x^{12} - 30x^{10} + 207x^8 - 560x^6 + 801x^4 - 810x^2 + 405$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 6x^{10} - 7x^8 + 8x^6 - 7x^4 - 2x^2 + 3$ | $x^{12} + 14x^{10} + 79x^8 + 276x^6 + 643x^4 + 946x^2 + 539$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} - 5x^8 - 7x^4 - 2x^2 + 5$ | $x^{12} + 66x^{10} + 363x^8 - 37268x^6 - 395307x^4 + 2898918x^2 - 5314683$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} + 3x^8 + 7x^4 + 6x^2 - 5$ | $x^{12} - 2x^{10} + 23x^8 + 44x^6 - 209x^4 - 242x^2 + 1331$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 3x^8 - 4x^6 + 3x^4 - 2x^2 + 7$ | $x^{12} + 2x^{10} - 75x^8 + 308x^6 - 451x^4 + 242x^2 - 121$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} + 7x^8 + 4x^6 + x^4 - 2x^2 - 7$ | $x^{12} - 22x^{10} + 231x^8 - 1056x^6 + 517x^4 + 242x^2 + 121$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,89 | $\frac{85}{24}$ |
| $x^{12} + 6x^{10} - 5x^8 + 4x^6 - 5x^4 - 2x^2 + 7$ | $x^{12} + 6x^{10} - 5x^8 - 60x^6 - 5x^4 + 126x^2 - 169$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} + 5x^8 + 4x^6 + 3x^4 + 6x^2 - 7$ | $x^{12} + 22x^{10} + 187x^8 - 4719x^4 + 2662x^2 + 14641$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,89 | $\frac{85}{24}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 6x^{10} - 5x^8 - 5x^4 + 2x^2 + 7$ | $x^{12} - 90x^{10} + 3015x^8 - 45900x^6 + 301275x^4 - 533250x^2 - 5625$ | $\left[\begin{array}{ccccccc} 4 & 4 & 2 & 8 & 8 & 3 & 7 \\ 3 & 3 & 3 & 3 & 3 & 3 & 2 \\ & & & & & & 23 \\ & & & & & & 6 \\ & & & & & & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} - 3x^8 + 4x^6 + 7x^4 + 6x^2 - 3$ | $x^{12} + 10x^{10} + 41x^8 + 88x^6 + 55x^4 + 22x^2 - 11$ | $\left[\begin{array}{ccccccc} 4 & 4 & 8 & 8 & 8 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 & 3 \\ & & & & & & 23 \\ & & & & & & 6 \\ & & & & & & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} - x^8 + 4x^6 + x^4 - 2x^2 - 3$ | $x^{12} - 36x^{10} + 276x^8 - 800x^6 + 1200x^4 - 960x^2 + 320$ | $\left[\begin{array}{ccccccc} 4 & 4 & 8 & 8 & 8 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 & 3 \\ & & & & & & 23 \\ & & & & & & 6 \\ & & & & & & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + x^8 - x^4 + 6x^2 - 7$ | $x^{12} + 6x^{10} + 39x^8 + 108x^6 + 117x^4 + 54x^2 + 9$ | $\left[\begin{array}{cccc} 8 & 8 & 3 & 23 \\ 3 & 3 & 3 & 6 \\ & & & 6 \\ & & & 6 \end{array} \right]_3^2$ | T: 12,58 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} - 5x^8 - 3x^4 - 6x^2 - 7$ | $x^{12} + 2x^{10} + 59x^8 - 120x^6 + 69x^4 - 14x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \\ & & & 23 \\ & & & 6 \\ & & & 6 \end{array} \right]_3^2$ | T: 12,89 | $\frac{85}{24}$ |
| $x^{12} + 6x^{10} + x^8 + 4x^6 - x^4 - 2x^2 + 5$ | $x^{12} - 132x^{10} + 6930x^8 - 143220x^6 + 1077120x^4 - 836352x^2 - 1197900$ | $\left[\begin{array}{ccccccc} 4 & 4 & 8 & 8 & 8 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 & 3 \\ & & & & & & 23 \\ & & & & & & 6 \\ & & & & & & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + x^8 + 4x^6 - 3x^4 + 6x^2 + 7$ | $x^{12} + 30x^{10} - 45x^8 - 10500x^6 + 78975x^4 - 141750x^2 - 50625$ | $\left[\begin{array}{ccccccc} 4 & 4 & 2 & 8 & 8 & 3 & 7 \\ 3 & 3 & 3 & 3 & 3 & 3 & 2 \\ & & & & & & 23 \\ & & & & & & 6 \\ & & & & & & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 2x^{10} + 7x^8 + 4x^6 - x^4 - 6x^2 + 7$ | $x^{12} - 10x^{10} + 49x^8 - 144x^6 + 221x^4 - 126x^2 - 9$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 7 & 23 \\ & & & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} - 3x^8 - 4x^6 - x^4 - 2x^2 - 3$ | $x^{12} + 22x^{10} + 99x^8 - 528x^6 - 3619x^4 - 5566x^2 - 1331$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 8 & 3 \\ & & 8 & 3 \\ & & & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} + 3x^8 + 3x^4 - 6x^2 + 3$ | $x^{12} - 16x^{10} + 90x^8 - 220x^6 + 292x^4 - 184x^2 + 44$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 2 & 8 \\ & & 3 & 3 \\ & & & 7 & 23 \\ & & & & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + x^8 + x^4 - 2x^2 + 3$ | $x^{12} + 10x^{10} + 23x^8 - 4x^6 + 35x^4 + 6x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 2 & 8 \\ & & 3 & 3 \\ & & & 7 & 23 \\ & & & & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} - 5x^8 + 4x^6 + 3x^4 - 2x^2 - 5$ | $x^{12} - 44x^{10} + 682x^8 - 4356x^6 + 8228x^4 + 10648x^2 + 5324$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 7 & 23 \\ & & & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 7x^8 + 4x^6 + 7x^4 + 2x^2 + 7$ | $x^{12} - 6x^{10} + 9x^8 - 24x^6 + 45x^4 - 18x^2 - 9$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 7 & 23 \\ & & & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} - 7x^8 + 8x^6 - x^4 - 2x^2 - 7$ | $x^{12} - 6x^{10} + 21x^8 - 44x^6 + 63x^4 - 54x^2 + 25$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 7 & 23 \\ & & & 6 \end{array} \right]_3^2$ | T: 12,87 | $\frac{85}{24}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 6x^{10} + 7x^8 + 4x^6 + x^4 - 2x^2 - 3$ | $x^{12} + 12x^{10} + 30x^8 + 28x^6 + 756x^4 + 3600x^2 + 4500$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} - 3x^8 + 3x^4 + 2x^2 + 1$ | $x^{12} - 6x^{10} + 17x^8 - 28x^6 + 27x^4 - 14x^2 + 1$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,58 | $\frac{169}{48}$ |
| $x^{12} - 6x^{10} + 3x^8 + 4x^6 + 3x^4 - 2x^2 - 1$ | $x^{12} - 14x^{10} + 51x^8 - 36x^6 - 21x^4 - 66x^2 - 121$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} - x^8 + 8x^6 - x^4 - 2x^2 + 7$ | $x^{12} - 48x^{10} + 306x^8 + 420x^6 - 900$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} - 3x^8 + 4x^6 - x^4 - 2x^2 + 5$ | $x^{12} - 6x^{10} - 171x^8 - 1980x^6 - 6225x^4 - 6750x^2 - 1875$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} + 5x^8 - 7x^4 + 6x^2 + 3$ | $x^{12} - 6x^{10} + 21x^8 - 15x^4 + 18x^2 + 3$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} + 3x^8 - 3x^4 + 2x^2 - 7$ | $x^{12} - 22x^{10} + 121x^8 - 484x^6 + 7139x^4 - 18634x^2 + 14641$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,60 | $\frac{169}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 2x^{10} - 5x^8 + x^4 + 6x^2 + 5$ | $x^{12} - 18x^{10} - 264x^9 - 261x^8 + 4752x^7 - 5388x^6 - 35640x^5 + 115335x^4 - 116512x^3 - 49590x^2 + 186120x - 125913$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} - x^8 - 4x^6 - x^4 - 6x^2 - 1$ | $x^{12} - 6x^{10} + 15x^8 - 20x^6 + 15x^4 - 6x^2 - 1$ | $\begin{bmatrix} 2 & 8 & 8 & 3 & 3 & 7 & 23 & 23 \\ & 3 & 3 & 3 & 2 & 2 & 6 & 6 \end{bmatrix}_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + x^8 - 4x^6 + x^4 + 2x^2 - 5$ | $x^{12} + 18x^{10} + 113x^8 + 288x^6 + 333x^4 + 154x^2 + 11$ | $\begin{bmatrix} 2 & 8 & 8 & 3 & 3 & 7 & 23 & 23 \\ & 3 & 3 & 3 & 2 & 2 & 6 & 6 \end{bmatrix}_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} - 3x^8 - 4x^6 + 7x^4 + 6x^2 - 3$ | $x^{12} - 2x^{10} - 45x^8 - 132x^6 - 143x^4 - 66x^2 - 11$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 & 3 & 23 \\ 3 & 3 & 3 & 3 & 3 & 3 & 6 & 6 \end{bmatrix}_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} + 7x^8 + 4x^6 + 5x^4 + 2x^2 - 3$ | $x^{12} + 6x^{10} + 15x^8 - 104x^6 - 159x^4 - 1650x^2 + 845$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 & 3 & 23 \\ 3 & 3 & 3 & 3 & 3 & 3 & 6 & 6 \end{bmatrix}_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 5x^8 + 8x^6 + 7x^4 - 2x^2 - 7$ | $x^{12} + 12x^{10} + 30x^8 + 28x^6 + 4$ | $\begin{bmatrix} 8 & 8 & 3 & 23 \\ 3 & 3 & 3 & 6 \end{bmatrix}_3^2$ | T: 12,58 | $\frac{169}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 2x^{10} - 5x^8 + 8x^6 + x^4 - 2x^2 - 3$ | $x^{12} - 36x^{10} + 486x^8 - 2796x^6 + 3276x^4 + 29520x^2 - 86700$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 3 & 3 \\ 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + 5x^8 - 5x^4 - 6x^2 - 7$ | $x^{12} - 14x^{10} + 75x^8 - 248x^6 + 477x^4 - 506x^2 + 121$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 3 & 3 \\ 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,87 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} + 7x^8 + 4x^6 + x^4 + 6x^2 + 5$ | $x^{12} - 18x^{10} + 159x^8 - 440x^6 - 195x^4 + 30x^2 + 5$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 3 & 3 \\ 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} + 7x^8 - 4x^6 + 5x^4 - 6x^2 - 7$ | $x^{12} - 6x^{10} - 15x^8 + 16x^6 + 15x^4 - 30x^2 + 1$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 2 & 2 & 2 \\ 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,60 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} + 3x^8 + 4x^6 + 3x^4 - 2x^2 + 3$ | $x^{12} - 6x^{10} + 17x^8 + 108x^6 + 137x^4 + 66x^2 + 11$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 7 & 7 \\ 23 & 23 & 23 \\ 2 & 2 & 2 \end{array} \right]_3 \left[\begin{array}{ccc} 2 & 2 & 2 \\ 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + x^8 + 5x^4 - 6x^2 - 1$ | $x^{12} + 78x^{10} + 1521x^8 + 10140x^6 - 63855x^4 + 101250x^2 - 50625$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 7 & 7 \\ 23 & 23 & 23 \\ 2 & 2 & 2 \end{array} \right]_3 \left[\begin{array}{ccc} 2 & 2 & 2 \\ 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 7x^8 + 4x^6 + 5x^4 + 2x^2 + 1$ | $x^{12} + 6x^{10} + 39x^8 + 116x^6 + 405x^4 + 594x^2 + 1521$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 2 & 2 & 2 \\ 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,60 | $\frac{169}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 6x^{10} - x^8 - x^4 - 2x^2 - 5$ | $x^{12} + 8x^{10} - 6x^8 - 220x^6 + 396x^4 - 264x^2 + 44$ | $\left[\begin{array}{ccccccc} 4 & 4 & 2 & 8 & 8 & 3 & 7 \\ 3 & 3 & 3 & 3 & 3 & 3 & 2 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + 7x^8 + 8x^6 - x^4 - 2x^2 + 7$ | $x^{12} - 102x^{10} - 240x^9 + 891x^8 + 1680x^7 + 8464x^6 - 19440x^5 - 43179x^4 + 15120x^3 + 150750x^2 - 40200x - 124691$ | $\left[\begin{array}{ccccccc} 4 & 4 & 2 & 8 & 8 & 3 & 7 \\ 3 & 3 & 3 & 3 & 3 & 3 & 2 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} - 3x^8 + 8x^6 - 7x^4 - 2x^2 + 7$ | $x^{12} - 66x^{10} - 891x^8 - 2280x^6 - 4455x^4 - 4050x^2 - 2025$ | $\left[\begin{array}{ccccccc} 2 & 8 & 8 & 3 & 3 & 7 & 23 \\ & 3 & 3 & 3 & 3 & 2 & 6 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} - 7x^8 + 7x^4 + 6x^2 + 1$ | $x^{12} - 2x^{10} - 7x^8 + 96x^6 + 351x^4 + 378x^2 + 81$ | $\left[\begin{array}{ccccccc} 2 & 8 & 8 & 3 & 3 & 3 & 23 \\ & 3 & 3 & 3 & 3 & 3 & 6 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,87 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} - 5x^8 + 4x^6 + 7x^4 + 6x^2 - 5$ | $x^{12} + 10x^{10} + 39x^8 + 88x^6 + 111x^4 + 66x^2 + 11$ | $\left[\begin{array}{ccccccc} 4 & 4 & 2 & 8 & 8 & 3 & 7 \\ 3 & 3 & 3 & 3 & 3 & 3 & 2 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} + 7x^8 + 4x^6 + 7x^4 - 6x^2 - 1$ | $x^{12} + 54x^8 - 756x^6 - 1296x^4 + 3888x^2 - 2916$ | $\left[\begin{array}{ccccccc} 2 & 8 & 8 & 3 & 3 & 7 & 23 \\ & 3 & 3 & 3 & 3 & 2 & 6 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 2x^{10} + 3x^8 + 4x^6 + x^4 - 2x^2 - 3$ | $x^{12} + 6x^{10} - 21x^8 - 160x^6 - 675x^4 + 6750x^2 - 16875$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} + x^8 - 4x^6 + 5x^4 - 2x^2 + 7$ | $x^{12} + 60x^{10} + 1380x^8 + 15200x^6 + 75600x^4 + 72000x^2 - 360000$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 7 \\ 3 & 3 & 2 \end{array} \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 3x^8 - 4x^6 + 3x^4 + 6x^2 + 7$ | $x^{12} - 2x^{10} + 3x^8 - 68x^6 - 285x^4 - 330x^2 - 121$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 7 \\ 2 & 2 & 6 \end{array} \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} + 3x^8 + 8x^6 - 5x^4 + 2x^2 - 5$ | $x^{12} - 2x^{10} + 7x^8 - 116x^6 + 251x^4 - 154x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 7 \\ 3 & 3 & 2 \end{array} \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + x^8 - 4x^6 + 7x^4 + 6x^2 + 5$ | $x^{12} + 36x^{10} + 522x^8 - 29172x^6 + 313632x^4 - 958320x^2 - 175692$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} + 3x^8 + 5x^4 - 6x^2 + 1$ | $x^{12} + 30x^{10} + 49x^8 - 44x^6 - 341x^4 + 242x^2 + 121$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,60 | $\frac{169}{48}$ |
| $x^{12} + 6x^{10} + 7x^8 + 4x^6 - 3x^4 - 6x^2 - 3$ | $x^{12} - 6x^{10} - 81x^8 + 440x^6 + 2385x^4 - 12150x^2 + 5$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} + 2x^{10} + 7x^8 - 4x^6 + x^4 - 2x^2 - 3$ | $x^{12} + 54x^{10} + 1089x^8 + 11160x^6 + 61155x^4 + 167670x^2 + 178605$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} + x^8 - 7x^4 + 6x^2 - 5$ | $x^{12} - 16x^{10} + 74x^8 - 212x^6 + 872x^4 - 2376x^2 + 2156$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} - 3x^8 + 4x^6 - x^4 - 2x^2 + 5$ | $x^{12} + 2x^{10} + x^8 - 9x^4 - 22x^2 - 11$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - 3x^8 + 4x^6 - x^4 - 2x^2 - 3$ | $x^{12} + 6x^{10} + 11x^8 + 4x^6 - 15x^4 - 22x^2 - 11$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - 7x^8 - 3x^4 + 2x^2 + 7$ | $x^{12} + 36x^{10} + 558x^8 + 5220x^6 + 38988x^4 + 89856x^2 - 19044$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} - 7x^8 + 5x^4 + 2x^2 - 1$ | $x^{12} + 6x^{10} + 9x^8 - 4x^6 - 15x^4 - 6x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 5x^8 - 3x^4 + 2x^2 + 7$ | $x^{12} + 30x^{10} + 135x^8 - 6900x^6 - 85725x^4 - 222750x^2 - 50625$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 6x^{10} + 7x^8 - 4x^6 - 3x^4 + 2x^2 - 7$ | $x^{12} + 6x^{10} - 15x^8 - 16x^6 + 15x^4 + 30x^2 + 1$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,89 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} + 3x^8 - 5x^4 - 6x^2 + 3$ | $x^{12} - 10x^{10} + 49x^8 - 124x^6 + 165x^4 - 58x^2 + 11$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & \frac{8}{3} & 3 \\ & & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} + 7x^8 - x^4 - 2x^2 - 5$ | $x^{12} + 22x^{10} + 165x^8 + 704x^6 + 5357x^4 + 31218x^2 + 65219$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & \frac{8}{3} & 3 \\ & & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} + x^8 + 8x^6 - 3x^4 + 2x^2 - 1$ | $x^{12} + 18x^{10} - 9x^8 - 900x^6 + 1575x^4 - 14850x^2 - 65025$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} + x^8 + 4x^6 - 7x^4 - 6x^2 + 3$ | $x^{12} - 6x^{10} + 9x^8 + 4x^6 - 7x^4 - 10x^2 + 11$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} - 5x^8 + 4x^6 - 5x^4 - 2x^2 - 1$ | $x^{12} + 2x^{10} + 5x^8 - 4x^6 - 11x^4 - 6x^2 - 1$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} - x^8 + 4x^6 - x^4 + 2x^2 + 3$ | $x^{12} + 18x^{10} + 117x^8 + 324x^6 + 309x^4 - 54x^2 + 3$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 6x^{10} + 5x^8 - 5x^4 + 2x^2 + 1$ | $x^{12} + 4x^{10} + 114x^8 + 308x^6 + 2200x^4 + 1936x^2 + 484$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{4}{3} & \frac{8}{3} & \frac{23}{6} \\ & 3 & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,87 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} - 5x^8 + 8x^6 - 5x^4 + 2x^2 - 5$ | $x^{12} + 6x^{10} + 3x^8 - 16x^6 + 51x^4 + 50x^2 + 11$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ \frac{4}{3} & \frac{8}{3} & 3 \\ & 3 & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} - 5x^8 + 3x^4 - 6x^2 + 7$ | $x^{12} - 30x^{10} - 195x^8 + 2600x^6 + 10125x^4 - 56250x^2 - 140625$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ \frac{4}{3} & \frac{8}{3} & 3 \\ & 3 & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} - 3x^8 + 8x^6 - 3x^4 + 2x^2 + 3$ | $x^{12} - 4x^{10} + 22x^8 - 36x^6 + 92x^4 + 44$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ \frac{4}{3} & \frac{8}{3} & 3 \\ & 3 & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + 5x^8 - x^4 - 2x^2 - 7$ | $x^{12} + 14x^{10} + 71x^8 + 176x^6 + 253x^4 + 242x^2 + 121$ | $\left[\begin{array}{ccc} 8 & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{23}{6} \\ & 3 & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,58 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} + x^8 - 3x^4 + 2x^2 - 1$ | $x^{12} + 60x^{10} + 390x^8 + 5780x^6 - 7200x^4 - 5400x^2 - 900$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{7}{2} \\ & 3 & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} - x^8 - 4x^6 + 5x^4 + 2x^2 + 1$ | $x^{12} + 6x^{10} + 15x^8 + 40x^6 + 33x^4 + 6x^2 + 1$ | $\left[\begin{array}{ccc} 8 & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{23}{6} \\ & 3 & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,60 | $\frac{169}{48}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 6x^{10} - x^8 - 4x^6 + x^4 + 6x^2 + 1$ | $x^{12} - 12x^{10} - 30x^8 + 68x^6 + 60x^4 - 192x^2 + 4$ | $\left[\begin{array}{ccc} 8 & 8 & 23 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,60 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} - x^8 - x^4 + 6x^2 - 5$ | $x^{12} + 14x^{10} + 27x^8 - 220x^6 + 319x^4 - 154x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 7 \\ 3 & 3 & 2 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + 5x^8 + 4x^6 - x^4 + 6x^2 - 3$ | $x^{12} - 6x^{10} + 9x^8 - 209x^4 + 1210x^2 - 1331$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} - 5x^8 + 8x^6 + 3x^4 + 2x^2 - 5$ | $x^{12} - 18x^{10} + 161x^8 - 800x^6 + 2209x^4 - 3174x^2 + 1859$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 7 \\ 3 & 3 & 2 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + 3x^8 + 7x^4 - 2x^2 - 5$ | $x^{12} - 2x^{10} - 3x^8 + 8x^6 + 9x^4 - 22x^2 + 11$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} + 3x^8 - 7x^4 - 2x^2 + 5$ | $x^{12} + 72x^{10} + 1944x^8 + 22368x^6 + 52416x^4 - 944640x^2 - 5548800$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} - 3x^8 + 4x^6 + 3x^4 + 6x^2 + 1$ | $x^{12} + 2x^{10} - 3x^8 + 4x^6 + 11x^4 + 6x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,89 | $\frac{85}{24}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 2x^{10} - 7x^8 + 4x^6 - 5x^4 - 6x^2 + 5$ | $x^{12} + 42x^{10} - 123x^8 - 64x^6 - 21x^4 + 30x^2 + 5$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix} \begin{matrix} 3 \\ 3 \\ 3 \\ 3 \\ 6 \\ 6 \end{matrix} \begin{matrix} 2 \\ 2 \\ 2 \\ 2 \\ 3 \\ 3 \end{matrix}$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} + 5x^8 + 4x^6 - x^4 + 6x^2 + 5$ | $x^{12} - 10x^{10} + 41x^8 - 88x^6 + 55x^4 - 22x^2 - 11$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix} \begin{matrix} 3 \\ 3 \\ 3 \\ 3 \\ 6 \\ 6 \end{matrix} \begin{matrix} 2 \\ 2 \\ 2 \\ 2 \\ 3 \\ 3 \end{matrix}$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} - 3x^8 - 7x^4 - 2x^2 + 3$ | $x^{12} - 6x^{10} + 69x^8 - 32x^6 + 33x^4 - 6x^2 + 3$ | $\begin{bmatrix} 2 & 8 & 8 & 3 & 3 & 7 \\ 3 & 3 & 3 & 3 & 2 & 2 \end{bmatrix} \begin{matrix} 3 \\ 3 \\ 3 \\ 3 \\ 6 \\ 6 \end{matrix} \begin{matrix} 2 \\ 2 \\ 2 \\ 2 \\ 3 \\ 3 \end{matrix}$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} - 3x^8 + 4x^6 - 5x^4 + 6x^2 - 7$ | $x^{12} + 2x^{10} - 39x^8 + 187x^4 + 242x^2 + 121$ | $\begin{bmatrix} 8 & 8 & 3 & 3 & 23 \\ 3 & 3 & 6 & 6 & 6 \end{bmatrix} \begin{matrix} 2 \\ 2 \\ 2 \\ 2 \\ 3 \\ 3 \end{matrix}$ | T: 12,60 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} + 5x^8 + 4x^6 + 3x^4 - 2x^2 - 7$ | $x^{12} + 6x^{10} + x^8 - 200x^6 + 555x^4 - 506x^2 + 121$ | $\begin{bmatrix} 2 & 8 & 8 & 3 & 3 & 23 \\ 3 & 3 & 3 & 3 & 6 & 6 \end{bmatrix} \begin{matrix} 2 \\ 2 \\ 2 \\ 2 \\ 3 \\ 3 \end{matrix}$ | T: 12,89 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} + 3x^8 - x^4 - 2x^2 + 3$ | $x^{12} - 4x^{11} + 12x^{10} - 8x^9 + 56x^8 - 152x^7 - 44x^6 - 264x^5 + 984x^4 + 1816x^3 + 3656x^2 + 2912x + 1862$ | $\begin{bmatrix} 2 & 8 & 8 & 3 & 3 & 7 \\ 3 & 3 & 3 & 3 & 2 & 2 \end{bmatrix} \begin{matrix} 2 \\ 2 \\ 2 \\ 2 \\ 3 \\ 3 \end{matrix}$ | T: 12,134 | $\frac{175}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 6x^{10} - 5x^8 + 4x^6 + 5x^4 - 6x^2 - 7$ | $x^{12} - 26x^{10} + 301x^8 - 1892x^6 + 6787x^4 - 13310x^2 + 14641$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]^2_3$ | T: 12,89 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} + 7x^8 - 4x^6 + x^4 + 6x^2 - 3$ | $x^{12} + 6x^{10} - 27x^8 + 12x^6 - 21x^4 - 30x^2 + 5$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]^2_3$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} - 7x^8 + 4x^6 + x^4 + 2x^2 - 5$ | $x^{12} + 8x^{10} + 22x^8 + 12x^6 - 40x^4 - 40x^2 + 44$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 7x^8 - x^4 + 6x^2 - 5$ | $x^{12} - 10x^{10} + 71x^8 - 264x^6 + 671x^4 - 902x^2 + 539$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + 5x^8 - 3x^4 + 2x^2 - 5$ | $x^{12} + 6x^{10} + 13x^8 + 12x^6 - 7x^4 - 22x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 3x^8 - 4x^6 + 3x^4 - 2x^2 - 1$ | $x^{12} - 22x^{10} + 75x^8 - 60x^6 - 405x^4 + 18x^2 - 81$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} + 3x^8 + 8x^6 + 3x^4 - 6x^2 - 5$ | $x^{12} + 2x^{10} + 7x^8 + 116x^6 + 251x^4 + 154x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|------------|--------------------|
| $x^{12} - 6x^{10} - 5x^8 + 5x^4 - 6x^2 + 1$ | $x^{12} - 14x^{10} + 59x^8 - 44x^6 + 121x^4 - 242x^2 + 121$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} & & 23 \\ & & 6 \\ & & 6 \end{array} \right]^2_3$ | T: 12, 89 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} - 3x^8 + 4x^6 - 5x^4 - 6x^2 - 3$ | $x^{12} - 18x^{10} + 741x^8 + 3100x^6 + 195x^4 - 450x^2 + 125$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} & & 23 \\ & & 6 \\ & & 6 \end{array} \right]^2_3$ | T: 12, 187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - 5x^8 + 4x^6 - 5x^4 + 6x^2 - 1$ | $x^{12} - 2x^{10} - 5x^8 - 12x^6 - 13x^4 - 6x^2 - 1$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} & & 23 \\ & & 6 \\ & & 6 \end{array} \right]^2_3$ | T: 12, 141 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} + x^8 + 4x^6 - 3x^4 - 2x^2 + 7$ | $x^{12} + 30x^{10} + 345x^8 + 1900x^6 + 4725x^4 + 2250x^2 - 5625$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} & & 7 \\ & & 2 \\ & & 6 \end{array} \right]^2_3$ | T: 12, 222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} + 7x^8 + 7x^4 + 6x^2 - 5$ | $x^{12} - 22x^{10} + 165x^8 - 704x^6 + 5357x^4 - 31218x^2 + 65219$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} & & 7 \\ & & 2 \\ & & 6 \end{array} \right]^2_3$ | T: 12, 222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} + x^8 + 4x^6 + 3x^4 - 6x^2 - 3$ | $x^{12} - 42x^{10} - 123x^8 + 64x^6 - 21x^4 - 30x^2 + 5$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} & & 23 \\ & & 6 \\ & & 6 \end{array} \right]^2_3$ | T: 12, 187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 5x^8 + 8x^6 + 5x^4 + 2x^2 - 5$ | $x^{12} + 4x^{10} + 22x^8 + 36x^6 + 92x^4 + 44$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} & & 7 \\ & & 2 \\ & & 6 \end{array} \right]^2_3$ | T: 12, 222 | $\frac{2803}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 2x^{10} + 3x^8 - 4x^6 + 3x^4 - 2x^2 - 1$ | $x^{12} + 14x^{10} + 51x^8 + 36x^6 - 21x^4 + 66x^2 - 121$ | $\begin{bmatrix} 2 & 8 & 8 & 3 & 3 & 7 & 23 & 23 \\ & 3 & 3 & 3 & 2 & 6 & 6 & 3 \end{bmatrix}_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} - 3x^8 + 4x^6 + 3x^4 - 2x^2 + 1$ | $x^{12} - 2x^{10} - 39x^8 + 187x^4 - 242x^2 + 121$ | $\begin{bmatrix} 2 & 8 & 8 & 3 & 3 & 23 & 23 \\ & 3 & 3 & 3 & 6 & 6 & 3 \end{bmatrix}_3^2$ | T: 12,89 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} + 5x^8 + 8x^6 + x^4 - 2x^2 + 3$ | $x^{12} + 22x^{10} + 253x^8 + 1496x^6 + 3729x^4 + 3630x^2 + 1331$ | $\begin{bmatrix} 2 & 8 & 8 & 3 & 3 & 7 & 23 & 23 \\ & 3 & 3 & 3 & 2 & 6 & 6 & 3 \end{bmatrix}_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} - x^8 - 4x^6 - 3x^4 - 6x^2 + 5$ | $x^{12} - 36x^{10} - 24x^8 - 184x^6 - 264x^4 + 80$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 & 23 & 23 \\ & 3 & 3 & 3 & 3 & 6 & 6 & 3 \end{bmatrix}_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - 3x^8 + 4x^6 - 5x^4 + 2x^2 - 3$ | $x^{12} - 18x^{10} + 135x^8 - 252x^6 + 81x^4 - 810x^2 + 405$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 & 23 & 23 \\ & 3 & 3 & 3 & 3 & 6 & 6 & 3 \end{bmatrix}_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + x^8 + 4x^6 + 3x^4 + 2x^2 + 5$ | $x^{12} - 6x^{10} - 171x^8 - 120x^6 - 21x^4 + 30x^2 + 5$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 & 23 & 23 \\ & 3 & 3 & 3 & 3 & 6 & 6 & 3 \end{bmatrix}_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} - 5x^8 + 4x^6 - 7x^4 - 2x^2 + 5$ | $x^{12} - 6x^{10} - 21x^8 + 160x^6 - 675x^4 - 6750x^2 - 16875$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 & 23 & 23 \\ & 3 & 3 & 3 & 3 & 6 & 6 & 3 \end{bmatrix}_3^2$ | T: 12,187 | $\frac{1375}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 2x^{10} - x^8 + 4x^6 - 3x^4 + 2x^2 + 5$ | $x^{12} - 18x^{10} + 111x^8 - 320x^6 + 465x^4 - 450x^2 + 845$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - x^8 + x^4 + 2x^2 + 1$ | $x^{12} + 6x^{10} + 21x^8 + 60x^6 + 135x^4 + 162x^2 + 81$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,89 | $\frac{85}{24}$ |
| $x^{12} + 6x^{10} + x^8 + 4x^6 - x^4 - 2x^2 - 3$ | $x^{12} + 6x^{10} - 2301x^8 + 14060x^6 - 25875x^4 + 66150x^2 - 180075$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} + 7x^8 - 4x^6 + 5x^4 - 6x^2 + 5$ | $x^{12} + 6x^{10} + 183x^8 + 692x^6 + 909x^4 + 450x^2 + 45$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} - 5x^8 + 8x^6 + 3x^4 - 6x^2 - 5$ | $x^{12} - 6x^{10} + 3x^8 + 16x^6 + 51x^4 - 50x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} - 5x^8 - 4x^6 + 3x^4 - 2x^2 + 7$ | $x^{12} + 6x^{10} + 43x^8 + 220x^6 + 451x^4 + 242x^2 - 121$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 7x^8 - 4x^6 + x^4 - 2x^2 - 7$ | $x^{12} + 22x^{10} + 231x^8 + 1056x^6 + 517x^4 - 242x^2 + 121$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,60 | $\frac{169}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 6x^{10} - x^8 + 8x^6 + 7x^4 - 2x^2 + 3$ | $x^{12} + 6x^{10} + 37x^8 + 88x^6 + 253x^4 + 242x^2 + 539$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} - 3x^8 + 4x^6 + 3x^4 + 2x^2 + 1$ | $x^{12} + 2x^{10} + 3x^8 - 12x^6 + 13x^4 - 6x^2 + 1$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,87 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} + x^8 + 4x^6 + 3x^4 + 2x^2 - 3$ | $x^{12} - 18x^{10} + 69x^8 - 80x^6 + 75x^4 - 150x^2 + 5$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 3x^8 - 3x^4 - 6x^2 - 7$ | $x^{12} - 18x^{10} + 107x^8 - 256x^6 + 389x^4 - 330x^2 + 121$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,60 | $\frac{169}{48}$ |
| $x^{12} + 6x^{10} + 7x^8 + 4x^6 - 3x^4 - 6x^2 - 7$ | $x^{12} - 24x^{10} + 186x^8 - 620x^6 + 924x^4 - 528x^2 + 100$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,60 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} - 3x^8 + 8x^6 - 3x^4 - 6x^2 + 3$ | $x^{12} - 4x^{10} - 2x^8 + 12x^6 + 64x^4 + 88x^2 + 44$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} - 5x^8 + 3x^4 - 6x^2 + 3$ | $x^{12} + 24x^{10} + 62x^8 + 116x^6 - 200x^4 + 44$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{7}{2} \quad \frac{23}{6} \quad \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 6x^{10} - 5x^8 - 4x^6 - 7x^4 + 6x^2 + 5$ | $x^{12} - 48x^9 + 558x^8 + 1440x^7 - 22944x^6 - 43776x^5 - 41364x^4 - 22720x^3 - 8064x^2 - 1728x - 216$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - x^8 - 4x^6 + x^4 - 2x^2 + 5$ | $x^{12} - 54x^{10} + 1089x^8 - 10440x^6 + 48075x^4 - 85590x^2 + 5$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} - 5x^8 + 4x^6 + 3x^4 - 2x^2 + 7$ | $x^{12} - 6x^{10} - 5x^8 + 60x^6 - 5x^4 - 126x^2 - 169$ | $\begin{bmatrix} 2 & 8 & 8 & 3 & 3 & 7 & 23 & 23 \\ 3 & 3 & 3 & 3 & 2 & 6 & 6 & 6 \end{bmatrix}_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 5x^8 + 4x^6 + 7x^4 - 2x^2 + 5$ | $x^{12} - 22x^{10} - 363x^8 - 1804x^6 - 3817x^4 - 3630x^2 - 1331$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - 7x^8 - x^4 + 6x^2 - 7$ | $x^{12} + 6x^{10} + 21x^8 + 44x^6 + 63x^4 + 54x^2 + 25$ | $\begin{bmatrix} 8 & 8 & 3 & 3 & 23 & 23 \\ 3 & 3 & 3 & 3 & 6 & 6 \end{bmatrix}_3^2$ | T: 12,58 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} + x^8 + 4x^6 + x^4 + 2x^2 + 3$ | $x^{12} - 10x^{10} + 33x^8 + 88x^6 - 363x^4 - 242x^2 + 1331$ | $\begin{bmatrix} 2 & 8 & 8 & 3 & 3 & 7 & 23 & 23 \\ 3 & 3 & 3 & 3 & 2 & 6 & 6 & 6 \end{bmatrix}_3^2$ | T: 12,141 | $\frac{175}{48}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 2x^{10} + 3x^8 - 3x^4 - 6x^2 + 1$ | $x^{12} - 30x^{10} + 49x^8 + 44x^6 - 341x^4 - 242x^2 + 121$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \Big]_3^2$ | T: 12,89 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} + x^8 + 8x^6 + 7x^4 - 2x^2 + 1$ | $x^{12} + 18x^{10} + 207x^8 + 220x^6 + 2925x^4 + 2250x^2 + 625$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \Big]_3^2$ | T: 12,58 | $\frac{169}{48}$ |
| $x^{12} + 6x^{10} + 5x^8 + 8x^6 + x^4 + 6x^2 + 3$ | $x^{12} - 6x^{10} + 15x^8 - 36x^6 + 39x^4 - 18x^2 + 3$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \Big]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 3x^8 + 4x^6 - 7x^4 + 6x^2 - 3$ | $x^{12} - 18x^{10} - 69x^8 + 3160x^6 - 21075x^4 + 45750x^2 - 1875$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 3 & 23 \\ 6 & 6 & 6 \end{array} \Big]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} - 5x^8 + 4x^6 + 3x^4 - 2x^2 - 1$ | $x^{12} - 2x^{10} + 5x^8 + 4x^6 - 11x^4 + 6x^2 - 1$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \Big]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} + 5x^8 + 4x^6 + 3x^4 + 2x^2 + 5$ | $x^{12} - 6x^{10} + 21x^8 - 44x^6 + 51x^4 - 30x^2 + 5$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 3 & 23 \\ 6 & 6 & 6 \end{array} \Big]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} - 5x^8 + 4x^6 + 3x^4 + 6x^2 - 1$ | $x^{12} - 22x^{10} + 451x^8 - 3388x^6 + 9075x^4 - 2662x^2 - 14641$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \Big]_3^2$ | T: 12,134 | $\frac{175}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 2x^{10} + x^8 + 8x^6 + 3x^4 + 2x^2 + 1$ | $x^{12} - 26x^{10} + 235x^8 - 880x^6 + 1177x^4 - 726x^2 + 121$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,87 | $\frac{85}{24}$ |
| $x^{12} + 6x^{10} + x^8 + 4x^6 + 7x^4 + 6x^2 - 3$ | $x^{12} - 6x^{10} - 2301x^8 - 14060x^6 - 25875x^4 - 66150x^2 - 180075$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 3 & 3 \\ 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} - 5x^8 + 8x^6 - 7x^4 + 6x^2 - 3$ | $x^{12} - 72x^{10} + 1944x^8 - 22368x^6 + 52416x^4 + 944640x^2 - 5548800$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 3 & 3 \\ 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} - 3x^8 + 4x^6 + 3x^4 + 2x^2 - 3$ | $x^{12} + 30x^{10} + 111x^8 + 64x^6 + 69x^4 - 30x^2 + 5$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 3 & 3 \\ 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} - x^8 + 8x^6 - x^4 + 6x^2 + 3$ | $x^{12} - 6x^{10} + 37x^8 - 88x^6 + 253x^4 - 242x^2 + 539$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 7 \\ 3 & 3 & 2 \\ 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 7x^8 + 4x^6 - 3x^4 - 6x^2 + 5$ | $x^{12} + 24x^{10} + 198x^8 + 628x^6 + 504x^4 + 360x^2 + 180$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 3 & 3 \\ 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} + 7x^8 - 4x^6 + x^4 + 6x^2 + 5$ | $x^{12} - 42x^{10} + 687x^8 - 5516x^6 + 21849x^4 - 34230x^2 + 5$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 3 & 3 \\ 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 2x^{10} + 3x^8 + 4x^6 + 3x^4 - 2x^2 - 1$ | $x^{12} + 22x^{10} + 75x^8 + 60x^6 - 405x^4 - 18x^2 - 81$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 5x^8 + 4x^6 - 5x^4 + 2x^2 - 3$ | $x^{12} + 30x^{10} + 327x^8 + 1540x^6 + 2961x^4 + 2430x^2 + 405$ | $\left[\begin{array}{ccc} 4 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]^2_3$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} + 3x^8 - 4x^6 - 5x^4 + 6x^2 + 3$ | $x^{12} + 22x^{10} + 231x^8 + 968x^6 + 363x^4 - 2662x^2 + 1331$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} - 7x^8 + 4x^6 + x^4 + 2x^2 + 3$ | $x^{12} - 18x^{10} + 113x^8 - 288x^6 + 333x^4 - 154x^2 + 11$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 5x^8 - 7x^4 + 6x^2 - 1$ | $x^{12} + 54x^{10} + 855x^8 + 1104x^6 - 64989x^4 + 18630x^2 - 2025$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} - 7x^8 - 4x^6 - x^4 + 6x^2 + 5$ | $x^{12} - 18x^{10} + 1611x^8 - 60x^6 - 29835x^4 - 4050x^2 - 675$ | $\left[\begin{array}{ccc} 4 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]^2_3$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} - x^8 - 4x^6 + x^4 + 6x^2 + 5$ | $x^{12} - 12x^{10} + 30x^8 - 28x^6 + 756x^4 - 3600x^2 + 4500$ | $\left[\begin{array}{ccc} 4 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]^2_3$ | T: 12,187 | $\frac{1375}{384}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|------------------|
| $x^{12} + 6x^{10} + x^8 - 4x^6 + x^4 + 2x^2 + 3$ | $x^{12} - 8x^{10} + 22x^8 - 12x^6 - 40x^4 + 40x^2 + 44$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right] \begin{array}{c} 7 \\ 2 \end{array} \left[\begin{array}{ccc} 23 & & \\ 6 & & \\ & & 3 \end{array} \right]^2_3$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} - 5x^8 - 4x^6 - 5x^4 + 6x^2 - 1$ | $x^{12} + 2x^{10} - 5x^8 + 12x^6 - 13x^4 + 6x^2 - 1$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right] \begin{array}{c} 7 \\ 2 \end{array} \left[\begin{array}{ccc} 23 & & \\ 6 & & \\ & & 3 \end{array} \right]^2_3$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} + 5x^8 + 4x^6 + 3x^4 + 2x^2 - 7$ | $x^{12} + 10x^{10} + 49x^8 + 88x^6 + 11x^4 - 242x^2 + 121$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right] \begin{array}{c} 3 \\ 3 \end{array} \left[\begin{array}{ccc} 23 & & \\ 6 & & \\ & & 3 \end{array} \right]^2_3$ | T: 12,87 | $\frac{85}{24}$ |
| $x^{12} + 6x^{10} - 3x^8 + 8x^6 - 5x^4 - 6x^2 - 7$ | $x^{12} - 2x^{10} - 13x^8 + 32x^6 + 53x^4 - 214x^2 + 169$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \end{array} \left[\begin{array}{ccc} 23 & & \\ 6 & & \\ & & 3 \end{array} \right]^2_3$ | T: 12,58 | $\frac{169}{48}$ |
| $x^{12} + 6x^{10} - 7x^8 - 4x^6 - 7x^4 - 6x^2 + 3$ | $x^{12} + 14x^{10} + 67x^8 + 148x^6 + 147x^4 + 66x^2 + 11$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right] \begin{array}{c} 7 \\ 2 \end{array} \left[\begin{array}{ccc} 23 & & \\ 6 & & \\ & & 3 \end{array} \right]^2_3$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} + 3x^8 + 4x^6 - 3x^4 - 6x^2 + 1$ | $x^{12} + 26x^{10} + 301x^8 + 1892x^6 + 6787x^4 + 13310x^2 + 14641$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \end{array} \left[\begin{array}{ccc} 23 & & \\ 6 & & \\ & & 3 \end{array} \right]^2_3$ | T: 12,60 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} + 3x^8 + 5x^4 + 2x^2 + 1$ | $x^{12} - 6x^{10} - 5x^8 + 21x^4 - 14x^2 + 1$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \end{array} \left[\begin{array}{ccc} 23 & & \\ 6 & & \\ & & 3 \end{array} \right]^2_3$ | T: 12,60 | $\frac{169}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 2x^{10} + 3x^8 + 3x^4 + 2x^2 + 3$ | $x^{12} + 10x^{10} + 49x^8 + 124x^6 + 165x^4 + 58x^2 + 11$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 3x^8 + 8x^6 + 3x^4 + 2x^2 - 1$ | $x^{12} + 30x^{10} - 195x^8 - 2600x^6 + 10125x^4 + 56250x^2 - 140625$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 7x^8 + 8x^6 - 5x^4 + 2x^2 - 5$ | $x^{12} - 2x^{10} + x^8 - 4x^6 + 9x^4 + 6x^2 + 11$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + x^8 + 4x^6 + 7x^4 + 6x^2 + 5$ | $x^{12} + 24x^{10} - 568x^9 + 2328x^8 - 10224x^7 + 89464x^6 - 404544x^5 + 714432x^4 + 377376x^3 - 4682880x^2 + 7929792x - 4147824$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + 5x^8 - 4x^6 + 7x^4 - 2x^2 - 3$ | $x^{12} - 54x^{10} + 459x^8 + 19740x^6 - 474615x^4 + 3820050x^2 - 10773075$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} - x^8 + 4x^6 + 5x^4 - 6x^2 + 5$ | $x^{12} + 6x^{10} - 51x^8 + 80x^6 - 21x^4 + 30x^2 + 5$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 2x^{10} - x^8 + 7x^4 - 2x^2 - 5$ | $x^{12} - 14x^{10} + 27x^8 + 220x^6 + 319x^4 + 154x^2 + 11$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 & 3 & 7 & 23 \\ 3 & 3 & 3 & 3 & 3 & 3 & 2 & 6 \end{bmatrix}_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} - 5x^8 + 3x^4 + 2x^2 + 7$ | $x^{12} - 18x^{10} - 801x^8 + 3636x^6 + 126099x^4 + 14742x^2 - 9$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 & 3 & 7 & 23 \\ 3 & 3 & 3 & 3 & 3 & 3 & 2 & 6 \end{bmatrix}_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} + 7x^8 + 4x^6 - x^4 - 6x^2 - 1$ | $x^{12} + 54x^8 + 756x^6 - 1296x^4 - 3888x^2 - 2916$ | $\begin{bmatrix} 2 & 8 & 8 & 3 & 7 & 23 \\ 3 & 3 & 3 & 3 & 2 & 6 \end{bmatrix}_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} - x^8 + 8x^6 + 7x^4 - 2x^2 + 7$ | $x^{12} + 36x^{10} + 324x^8 + 1280x^6 + 3600x^4 + 4800x^2 - 1600$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 & 3 & 7 & 23 \\ 3 & 3 & 3 & 3 & 3 & 3 & 2 & 6 \end{bmatrix}_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} - 7x^8 + 4x^6 - 5x^4 + 2x^2 + 5$ | $x^{12} + 18x^{10} + 69x^8 + 80x^6 + 75x^4 + 150x^2 + 5$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 & 3 & 23 \\ 3 & 3 & 3 & 3 & 3 & 3 & 6 & 6 \end{bmatrix}_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 3x^8 - 4x^6 - 7x^4 - 2x^2 - 3$ | $x^{12} - 12x^{10} - 54x^8 + 1300x^6 - 7200x^4 + 27000x^2 - 67500$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 & 3 & 23 \\ 3 & 3 & 3 & 3 & 3 & 3 & 6 & 6 \end{bmatrix}_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} - 3x^8 + x^4 - 2x^2 + 3$ | $x^{12} + 6x^{10} + 21x^8 - 15x^4 - 18x^2 + 3$ | $\begin{bmatrix} 2 & 8 & 8 & 3 & 7 & 23 \\ 3 & 3 & 3 & 3 & 2 & 6 \end{bmatrix}_3^2$ | T: 12,141 | $\frac{175}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 2x^{10} - 3x^8 - 5x^4 - 6x^2 - 7$ | $x^{12} + 6x^{10} + 75x^8 + 176x^6 + 1045x^4 - 726x^2 + 121$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,87 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} - 5x^8 - 4x^6 + 7x^4 + 6x^2 - 5$ | $x^{12} - 10x^{10} + 39x^8 - 88x^6 + 111x^4 - 66x^2 + 11$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{8}{3} & 3 \\ & & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} - x^8 + 8x^6 - x^4 - 2x^2 + 3$ | $x^{12} - 22x^{10} + 165x^8 - 924x^6 + 10329x^4 - 70422x^2 + 161051$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{8}{3} & 3 \\ & & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} - 5x^8 + 4x^6 - 5x^4 + 6x^2 + 7$ | $x^{12} - 6x^{10} + 15x^8 + 720x^6 - 2205x^4 + 2214x^2 - 729$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} - 5x^8 + 4x^6 + 3x^4 - 2x^2 + 7$ | $x^{12} - 6x^{10} + 43x^8 - 220x^6 + 451x^4 - 242x^2 - 121$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} - 7x^8 + 4x^6 + 5x^4 + 6x^2 - 1$ | $x^{12} + 90x^{10} + 3105x^8 + 51300x^6 + 382725x^4 + 546750x^2 - 4100625$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{8}{3} & 3 \\ & & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} - x^8 - 4x^6 + x^4 + 6x^2 - 7$ | $x^{12} - 10x^{10} + 55x^8 - 176x^6 + 341x^4 - 330x^2 + 121$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,89 | $\frac{85}{24}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 6x^{10} + 3x^8 - 4x^6 - 5x^4 + 6x^2 - 1$ | $x^{12} + 18x^{10} - 45x^8 - 1620x^6 - 405x^4 + 30618x^2 - 123201$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ & 3 & 3 & 7 \\ & & 2 & 23 \\ & & & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} - 3x^8 - 5x^4 + 2x^2 - 7$ | $x^{12} + 2x^{10} - 13x^8 - 32x^6 + 53x^4 + 214x^2 + 169$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ & 3 & 3 & 23 \\ & & 3 & 6 \end{array} \right]_3^2$ | T: 12,87 | $\frac{85}{24}$ |
| $x^{12} + 6x^{10} - 7x^8 - 7x^4 + 6x^2 - 5$ | $x^{12} + 4x^{10} + 6x^8 + 36x^6 + 72x^4 - 56x^2 + 44$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \\ & 7 & 23 & 23 \\ & & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} + 3x^8 - 4x^6 - 7x^4 + 6x^2 - 3$ | $x^{12} + 18x^{10} - 69x^8 - 3160x^6 - 21075x^4 - 45750x^2 - 1875$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \\ & 3 & 3 & 23 \\ & & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} + 3x^8 - 4x^6 + 7x^4 + 6x^2 + 3$ | $x^{12} - 30x^{10} + 269x^8 - 1188x^6 + 2761x^4 - 3146x^2 + 1331$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \\ & 7 & 23 & 23 \\ & & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 7x^8 - 4x^6 - 3x^4 + 2x^2 - 3$ | $x^{12} + 6x^{10} + 111x^8 + 404x^6 + 501x^4 + 210x^2 + 5$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \\ & 3 & 3 & 23 \\ & & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - 7x^8 + 4x^6 - 5x^4 - 6x^2 - 3$ | $x^{12} + 48x^{10} - 594x^8 + 660x^6 + 1620x^4 - 3240x^2 + 1620$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \\ & 3 & 3 & 23 \\ & & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 2x^{10} + 3x^8 + 8x^6 + 3x^4 - 6x^2 - 1$ | $x^{12} + 18x^{10} - 801x^8 - 3636x^6 + 126099x^4 - 14742x^2 - 9$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} + 5x^8 + 4x^6 - 5x^4 - 6x^2 - 7$ | $x^{12} - 22x^{10} + 11x^8 + 968x^6 + 5929x^4 + 13310x^2 + 14641$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,58 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} + 7x^8 + 4x^6 + 7x^4 + 2x^2 + 3$ | $x^{12} + 18x^{10} + 135x^8 + 540x^6 + 1215x^4 + 1458x^2 + 675$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 3x^8 + 4x^6 + 7x^4 + 6x^2 + 3$ | $x^{12} + 30x^{10} + 269x^8 + 1188x^6 + 2761x^4 + 3146x^2 + 1331$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + 5x^8 + 8x^6 - 5x^4 - 6x^2 + 1$ | $x^{12} - 4x^{10} + 114x^8 - 308x^6 + 2200x^4 - 1936x^2 + 484$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,58 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} - x^8 + 4x^6 + x^4 + 6x^2 + 5$ | $x^{12} - 54x^{10} + 1089x^8 - 11160x^6 + 61155x^4 - 167670x^2 + 178605$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 23 \\ 3 & 6 & 6 \end{array} \right]_3$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + 3x^8 + 8x^6 + x^4 - 2x^2 - 3$ | $x^{12} + 30x^{10} + 291x^8 - 1144x^6 - 22143x^4 - 7986x^2 - 43923$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 3 & 23 \\ 3 & 6 & 6 \end{array} \right]_3$ | T: 12,187 | $\frac{1375}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 2x^{10} + x^8 + 4x^6 - 5x^4 - 6x^2 - 3$ | $x^{12} - 18x^{10} + 69x^8 + 8x^6 - 69x^4 - 30x^2 + 5$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \quad \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - 7x^8 + 4x^6 + 3x^4 + 2x^2 - 3$ | $x^{12} + 30x^{10} + 207x^8 + 560x^6 + 801x^4 + 810x^2 + 405$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \quad \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 7x^8 - 4x^6 + x^4 - 2x^2 + 1$ | $x^{12} + 8x^{10} + 22x^8 - 44x^6 + 440x^2 + 484$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \quad \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,89 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} + x^8 + 4x^6 - x^4 + 6x^2 - 7$ | $x^{12} - 18x^{10} + 125x^8 - 416x^6 + 671x^4 - 462x^2 + 121$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \quad \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,87 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} + 5x^8 + 8x^6 - 5x^4 + 2x^2 - 7$ | $x^{12} + 14x^{10} + 75x^8 + 248x^6 + 477x^4 + 506x^2 + 121$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \quad \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,58 | $\frac{169}{48}$ |
| $x^{12} - 6x^{10} - 7x^8 + 4x^6 + 3x^4 - 6x^2 - 3$ | $x^{12} - 12x^{10} + 66x^8 - 60x^6 - 1260x^4 + 3480x^2 + 20$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \quad \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} - 3x^8 + 5x^4 + 2x^2 + 3$ | $x^{12} - 6x^{10} + 13x^8 - 12x^6 - 7x^4 + 22x^2 + 11$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \quad \left[\begin{array}{ccc} 8 & 8 & 3 \\ 2 & 2 & 6 \end{array} \right]_3 \quad \left[\begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 2x^{10} + 3x^8 + 8x^6 - 5x^4 + 2x^2 - 1$ | $x^{12} - 72x^{10} - 120x^9 + 1926x^8 + 10560x^7 - 22496x^6 - 344160x^5 + 69516x^4 + 4694400x^3 + 148320x^2 - 21531360x + 7936264$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} + 7x^8 + 4x^6 + x^4 - 2x^2 + 5$ | $x^{12} + 18x^{10} + 69x^8 + 100x^6 + 75x^4 + 30x^2 + 5$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 23 \\ 3 & 6 & 6 \end{array} \right]^2_3$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - 3x^8 + 5x^4 - 6x^2 - 1$ | $x^{12} - 150x^{10} - 1035x^8 + 1200x^6 + 15525x^4 + 20250x^2 - 50625$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} - x^8 - 4x^6 - 3x^4 - 6x^2 + 1$ | $x^{12} - 6x^{10} + 15x^8 - 40x^6 + 33x^4 - 6x^2 + 1$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 23 & 23 \\ & 6 & 6 \end{array} \right]^2_3$ | T: 12,89 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} - 3x^8 + 8x^6 - 3x^4 + 2x^2 - 1$ | $x^{12} - 30x^{10} + 135x^8 + 6900x^6 - 85725x^4 + 222750x^2 - 50625$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} + 3x^8 - 4x^6 - 5x^4 + 6x^2 + 7$ | $x^{12} - 22x^{10} - 451x^8 - 2420x^6 - 5203x^4 - 7986x^2 - 14641$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ & 6 & 6 \end{array} \right]^2_3$ | T: 12,141 | $\frac{175}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 2x^{10} - x^8 + 7x^4 - 2x^2 - 1$ | $x^{12} + 90x^{10} - 975x^8 + 2300x^6 + 4725x^4 - 15750x^2 - 5625$ | $\left[\begin{matrix} 4 & 4 & 2 & 8 & 8 & 3 & 7 & 23 \\ 3 & 3 & 3 & 3 & 3 & 3 & 2 & 6 \end{matrix} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + x^8 - 7x^4 - 2x^2 - 5$ | $x^{12} + 2x^{10} - 15x^8 - 60x^6 + 141x^4 + 990x^2 + 539$ | $\left[\begin{matrix} 4 & 4 & 2 & 8 & 8 & 3 & 7 & 23 \\ 3 & 3 & 3 & 3 & 3 & 3 & 2 & 6 \end{matrix} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 3x^8 - 5x^4 - 6x^2 + 7$ | $x^{12} - 18x^{10} + 83x^8 + 48x^6 - 549x^4 - 22x^2 - 121$ | $\left[\begin{matrix} 4 & 4 & 2 & 8 & 8 & 3 & 7 & 23 \\ 3 & 3 & 3 & 3 & 3 & 3 & 2 & 6 \end{matrix} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} + x^8 + 8x^6 + 5x^4 - 6x^2 + 7$ | $x^{12} + 6x^{10} + 297x^8 - 244x^6 - 135x^4 + 114x^2 - 1$ | $\left[\begin{matrix} 2 & 8 & 8 & 3 & 3 & 7 & 23 \\ & 3 & 3 & 3 & 3 & 2 & 6 \end{matrix} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} - 7x^8 + 8x^6 - 7x^4 + 6x^2 + 3$ | $x^{12} + 4x^{10} + 6x^8 - 172x^6 - 604x^4 - 1584x^2 + 2156$ | $\left[\begin{matrix} 4 & 4 & 2 & 8 & 8 & 3 & 7 & 23 \\ 3 & 3 & 3 & 3 & 3 & 3 & 2 & 6 \end{matrix} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 6x^{10} + 5x^8 + 4x^6 - 5x^4 - 6x^2 - 3$ | $x^{12} + 6x^{10} - 39x^8 + 336x^6 + 4611x^4 - 4710x^2 + 845$ | $\left[\begin{matrix} 4 & 4 & 8 & 8 & 8 & 3 & 3 & 23 \\ 3 & 3 & 3 & 3 & 3 & 3 & 6 \end{matrix} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + 5x^8 - 7x^4 - 2x^2 - 1$ | $x^{12} - 36x^{10} + 468x^8 - 1152x^6 - 26352x^4 + 250560x^2 - 705600$ | $\left[\begin{matrix} 2 & 8 & 8 & 3 & 3 & 7 & 23 \\ & 3 & 3 & 3 & 3 & 2 & 6 \end{matrix} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|------------|--------------------|
| $x^{12} + 6x^{10} - 5x^8 - 5x^4 + 2x^2 + 3$ | $x^{12} - 24x^{10} + 62x^8 - 116x^6 - 200x^4 + 44$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12, 222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} - 7x^8 + 8x^6 - 3x^4 - 6x^2 - 1$ | $x^{12} - 6x^{10} + 297x^8 + 244x^6 - 135x^4 - 114x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 7 \\ 3 & 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12, 141 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} + x^8 - 3x^4 - 6x^2 + 7$ | $x^{12} + 18x^{10} + 171x^8 + 456x^6 - 513x^4 + 162x^2 - 9$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 7 \\ 3 & 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12, 141 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} - x^8 + 4x^6 + 5x^4 - 6x^2 + 1$ | $x^{12} + 6x^{10} + 15x^8 - 40x^6 - 39x^4 + 6x^2 + 25$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12, 89 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} + 3x^8 - x^4 - 2x^2 - 5$ | $x^{12} - 6x^{10} + 15x^8 - 20x^6 + 23x^4 - 22x^2 + 11$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 7 \\ 3 & 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12, 134 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} - 5x^8 - 5x^4 - 6x^2 + 3$ | $x^{12} - 14x^{10} + 57x^8 - 56x^6 - 39x^4 - 66x^2 + 11$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12, 222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} - x^8 - 5x^4 + 2x^2 + 3$ | $x^{12} - 10x^{10} + 55x^8 - 176x^6 + 363x^4 - 726x^2 + 1331$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 7 \\ 3 & 3 & 3 & 2 \end{array} \right]_3^2$ | T: 12, 134 | $\frac{175}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 6x^{10} + 5x^8 + 8x^6 + x^4 + 6x^2 - 1$ | $x^{12} + 54x^{10} + 1071x^8 + 9000x^6 + 22275x^4 - 74250x^2 - 275625$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 7x^8 - 4x^6 + 5x^4 - 6x^2 + 1$ | $x^{12} - 6x^{10} + 15x^8 - 20x^6 + 21x^4 - 18x^2 + 9$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]^2_3$ | T: 12,89 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} + x^8 - 4x^6 - x^4 - 2x^2 + 5$ | $x^{12} - 36x^{10} + 522x^8 + 29172x^6 + 313632x^4 + 958320x^2 - 175692$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 6 & 6 \end{array} \right]^2_3$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 6x^{10} - x^8 - 4x^6 + 7x^4 + 2x^2 - 1$ | $x^{12} - 18x^{10} + 127x^8 - 444x^6 + 783x^4 - 594x^2 - 81$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} - 3x^8 + 4x^6 + 3x^4 + 2x^2 + 5$ | $x^{12} - 12x^{10} + 36x^8 - 200x^6 + 360x^4 - 2880x^2 + 720$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 6 & 6 \end{array} \right]^2_3$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} + 3x^8 - 7x^4 + 6x^2 - 3$ | $x^{12} + 36x^{10} + 918x^8 - 11748x^6 - 39204x^4 - 1581228$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 6 & 6 \end{array} \right]^2_3$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} - x^8 - 4x^6 + 5x^4 + 2x^2 + 5$ | $x^{12} - 6x^{10} + 111x^8 - 404x^6 + 501x^4 - 210x^2 + 5$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 8 & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 6 & 6 \end{array} \right]^2_3$ | T: 12,187 | $\frac{1375}{384}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 2x^{10} - 3x^8 + 4x^6 + 3x^4 - 6x^2 + 1$ | $x^{12} + 22x^{10} + 11x^8 - 968x^6 + 5929x^4 - 13310x^2 + 14641$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 23 & & \\ & \frac{23}{6} & \\ & & 6 \end{array} \right]_3$ | T: 12,87 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} - 7x^8 + 8x^6 - 3x^4 + 2x^2 - 1$ | $x^{12} + 6x^{10} + 9x^8 - 24x^6 - 27x^4 - 18x^2 - 9$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 7 & & \\ & \frac{23}{6} & \\ & & 6 \end{array} \right]_3$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + x^8 + 8x^6 - 7x^4 - 2x^2 + 3$ | $x^{12} + 2x^{10} + 9x^8 - 24x^6 + 33x^4 - 30x^2 + 11$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{4}{3} & 3 \\ & & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 7 & & \\ & \frac{23}{6} & \\ & & 6 \end{array} \right]_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + x^8 + 4x^6 - 7x^4 - 6x^2 - 5$ | $x^{12} - 14x^{10} + 67x^8 - 148x^6 + 147x^4 - 66x^2 + 11$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 7 & & \\ & \frac{23}{6} & \\ & & 6 \end{array} \right]_3$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 5x^8 + 8x^6 - 5x^4 - 6x^2 - 7$ | $x^{12} + 10x^{10} + 45x^8 + 176x^6 + 539x^4 + 726x^2 + 121$ | $\left[\begin{array}{ccc} 8 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 23 & & \\ & \frac{23}{6} & \\ & & 6 \end{array} \right]_3$ | T: 12,58 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} - 3x^8 + x^4 - 2x^2 - 1$ | $x^{12} - 54x^{10} + 1071x^8 - 9000x^6 + 22275x^4 + 74250x^2 - 275625$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 7 & & \\ & \frac{23}{6} & \\ & & 6 \end{array} \right]_3$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} + 7x^8 - 4x^6 + x^4 + 6x^2 - 7$ | $x^{12} - 6x^{10} + 9x^8 - 12x^6 + 15x^4 - 18x^2 + 1$ | $\left[\begin{array}{ccc} 8 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 23 & & \\ & \frac{23}{6} & \\ & & 6 \end{array} \right]_3$ | T: 12,60 | $\frac{169}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 6x^{10} + x^8 + 8x^6 + 3x^4 - 6x^2 + 1$ | $x^{12} - 6x^{10} + 43x^8 - 160x^6 + 265x^4 - 194x^2 + 49$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,87 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} + 5x^8 - 3x^4 - 6x^2 + 7$ | $x^{12} + 30x^{10} - 1065x^8 + 10500x^6 - 46725x^4 + 104250x^2 - 105625$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & \frac{8}{3} & 3 \\ & & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + x^8 + 8x^6 - 7x^4 + 6x^2 + 3$ | $x^{12} - 8x^{10} + 34x^8 - 60x^6 + 100x^4 - 64x^2 + 44$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & \frac{8}{3} & 3 \\ & & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + 5x^8 + 8x^6 - 7x^4 + 6x^2 - 5$ | $x^{12} - 18x^{10} + 147x^8 - 352x^6 + 1727x^4 - 242x^2 + 11$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} - 3x^8 - x^4 + 6x^2 + 1$ | $x^{12} + 4x^{10} - 18x^8 - 132x^6 - 176x^4 + 484$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,58 | $\frac{169}{48}$ |
| $x^{12} + 6x^{10} - 7x^8 - 4x^6 + 7x^4 - 2x^2 + 5$ | $x^{12} - 18x^{10} - 240x^9 + 477x^8 + 1584x^7 + 6540x^6 - 55296x^5 + 60723x^4 + 218952x^3 - 702594x^2 + 791208x - 343251$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & \frac{8}{3} & 3 \\ & & \frac{7}{2} \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 2x^{10} + 3x^8 + 8x^6 - 7x^4 + 6x^2 - 3$ | $x^{12} - 90x^{10} - 528x^9 + 1359x^8 + 28512x^7 + 99600x^6 - 146520x^5 - 2185713x^4 - 8059568x^3 - 16486074x^2 - 19706544x - 11962665$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{3}{3} \frac{3}{3} \frac{23}{6} \frac{23}{6} \frac{23}{6} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + x^8 + 8x^6 + x^4 - 2x^2 - 5$ | $x^{12} - 14x^{10} + 79x^8 - 276x^6 + 643x^4 - 946x^2 + 539$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{3}{3} \frac{7}{2} \frac{23}{6} \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} - x^8 + 4x^6 + 5x^4 - 6x^2 - 7$ | $x^{12} + 90x^8 - 12x^6 + 2268x^4 - 864x^2 + 10404$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{3}{3} \frac{23}{6} \frac{23}{6} \right]_3^2$ | T: 12,60 | $\frac{169}{48}$ |
| $x^{12} + 2x^{10} - x^8 - 4x^6 - x^4 + 2x^2 + 7$ | $x^{12} + 6x^8 + 28x^6 - 16x^4 - 16x^2 - 4$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{3}{3} \frac{7}{2} \frac{23}{6} \frac{23}{6} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} - 5x^8 + 8x^6 - 5x^4 + 2x^2 - 1$ | $x^{12} + 18x^{10} + 83x^8 - 48x^6 - 549x^4 + 22x^2 - 121$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{7}{2} \frac{23}{6} \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 6x^{10} - 7x^8 + 4x^6 + 5x^4 + 6x^2 + 7$ | $x^{12} + 30x^{10} + 135x^8 - 1000x^6 - 2025x^4 - 2250x^2 - 625$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 7 & 23 \\ 2 & 6 \end{array} \left. \vphantom{\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} + x^8 - 4x^6 + 7x^4 - 2x^2 - 7$ | $x^{12} + 20x^{10} + 158x^8 + 612x^6 + 1232x^4 + 1232x^2 + 484$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 23 & 23 \\ 6 & 6 \end{array} \left. \vphantom{\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,87 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} + 7x^8 + 4x^6 - x^4 + 2x^2 + 7$ | $x^{12} + 6x^{10} + 9x^8 + 24x^6 + 45x^4 + 18x^2 - 9$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 7 & 23 \\ 2 & 6 \end{array} \left. \vphantom{\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} - 7x^8 - 4x^6 + 7x^4 + 6x^2 + 1$ | $x^{12} - 6x^{10} + 33x^8 - 92x^6 + 111x^4 - 54x^2 + 9$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 23 & 23 \\ 6 & 6 \end{array} \left. \vphantom{\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,87 | $\frac{85}{24}$ |
| $x^{12} - 6x^{10} + x^8 + 4x^6 - 3x^4 - 2x^2 - 1$ | $x^{12} + 12x^{10} - 54x^8 - 420x^6 + 2160x^4 - 5400x^2 - 900$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 7 & 23 \\ 2 & 6 \end{array} \left. \vphantom{\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 6x^{10} - 5x^8 + 4x^6 + 3x^4 + 6x^2 - 5$ | $x^{12} - 18x^{10} + 87x^8 - 32x^6 - 13x^4 - 22x^2 + 11$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 7 & 23 \\ 2 & 6 \end{array} \left. \vphantom{\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} + 3x^8 + 4x^6 + 5x^4 + 2x^2 + 1$ | $x^{12} - 6x^{10} + 53x^8 - 308x^6 + 1243x^4 - 4114x^2 + 5929$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 23 & 23 \\ 6 & 6 \end{array} \left. \vphantom{\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3} \right]^2_3$ | T: 12,89 | $\frac{85}{24}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 6x^{10} + 7x^8 + 8x^6 + 7x^4 - 2x^2 + 7$ | $x^{12} - 36x^{10} + 486x^8 - 3060x^6 + 7920x^4 - 22500$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} - x^8 + 4x^6 - x^4 + 2x^2 - 1$ | $x^{12} + 12x^{10} + 60x^8 + 160x^6 + 240x^4 + 192x^2 - 576$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} + 2x^{10} + 7x^8 + 4x^6 - x^4 - 6x^2 + 3$ | $x^{12} + 14x^{10} + 77x^8 + 196x^6 + 229x^4 + 110x^2 + 11$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} - 3x^8 + x^4 + 6x^2 - 5$ | $x^{12} + 6x^{10} + 15x^8 + 36x^6 + 39x^4 + 18x^2 + 3$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]^2_3$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 5x^8 + 4x^6 - x^4 + 6x^2 - 3$ | $x^{12} + 108x^{10} + 5526x^8 + 8460x^6 + 4320x^4 - 2700$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]^2_3$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - 5x^8 + 4x^6 - 7x^4 + 6x^2 + 5$ | $x^{12} + 30x^{10} + 57x^8 - 1400x^6 - 2169x^4 + 16470x^2 - 33075$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \right]^2_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]^2_3$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + x^8 - x^4 - 2x^2 + 1$ | $x^{12} - 18x^{10} + 333x^8 - 1500x^6 + 2775x^4 - 2250x^2 + 625$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]^2_3$ | T: 12,58 | $\frac{169}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 6x^{10} - 3x^8 + 8x^6 - 7x^4 - 2x^2 - 5$ | $x^{12} + 10x^{10} + 45x^8 + 88x^6 + 33x^4 - 22x^2 + 11$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{7}{2} \end{array} \frac{23}{6} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 7x^8 - 4x^6 + 5x^4 - 6x^2 - 3$ | $x^{12} + 36x^{10} - 24x^8 + 184x^6 - 264x^4 + 80$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{8}{3} \end{array} \frac{23}{6} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 5x^8 + 5x^4 - 6x^2 - 1$ | $x^{12} - 2x^{10} - 9x^8 + 4x^6 + 27x^4 - 22x^2 - 1$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{4}{3} & \frac{8}{3} \\ & & \frac{7}{2} \end{array} \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} - 7x^8 + 8x^6 + 5x^4 + 2x^2 + 7$ | $x^{12} - 18x^{10} - 9x^8 + 900x^6 + 1575x^4 + 14850x^2 - 65025$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{7}{2} \end{array} \frac{23}{6} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} - 3x^8 - 4x^6 - x^4 - 2x^2 + 5$ | $x^{12} + 54x^{10} + 459x^8 - 19740x^6 - 474615x^4 - 3820050x^2 - 10773075$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ & \frac{4}{3} & \frac{8}{3} \\ & & \frac{8}{3} \end{array} \frac{23}{6} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} - 5x^8 - 4x^6 - 3x^4 - 6x^2 - 7$ | $x^{12} - 2x^{10} + x^8 - 8x^6 + 19x^4 + 22x^2 + 49$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{23}{6} \end{array} \frac{23}{6} \right]_3^2$ | T: 12,89 | $\frac{85}{24}$ |
| $x^{12} + 2x^{10} + x^8 + 4x^6 - 3x^4 - 2x^2 - 1$ | $x^{12} - 90x^{10} + 3105x^8 - 51300x^6 + 382725x^4 - 546750x^2 - 4100625$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{4}{3} & \frac{8}{3} \\ & & \frac{8}{3} \end{array} \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 6x^{10} - 3x^8 + 5x^4 + 2x^2 - 1$ | $x^{12} - 60x^{10} + 1290x^8 - 3500x^6 - 102600x^4 - 261000x^2 - 22500$ | $\left[\begin{array}{cccc} 4 & 2 & 8 & 7 \\ 3 & 3 & 3 & 2 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} - 3x^8 + 4x^6 - x^4 + 6x^2 + 5$ | $x^{12} - 6x^{10} + 11x^8 - 4x^6 - 15x^4 + 22x^2 - 11$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + x^8 + 8x^6 - 3x^4 - 6x^2 - 1$ | $x^{12} - 60x^{10} + 390x^8 - 5780x^6 - 7200x^4 + 5400x^2 - 900$ | $\left[\begin{array}{cccc} 2 & 8 & 3 & 7 \\ & 3 & 3 & 2 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} + 3x^8 + x^4 - 2x^2 - 3$ | $x^{12} + 60x^{10} + 768x^8 - 6424x^6 - 43560x^4 + 383328x^2 - 702768$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 6x^{10} + 7x^8 + 8x^6 - 5x^4 - 6x^2 - 5$ | $x^{12} + 10x^{10} + 55x^8 + 176x^6 + 363x^4 + 726x^2 + 1331$ | $\left[\begin{array}{cccc} 2 & 8 & 3 & 7 \\ & 3 & 3 & 2 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} - 3x^8 + 8x^6 + 5x^4 - 6x^2 + 7$ | $x^{12} + 2x^{10} - 9x^8 - 4x^6 + 27x^4 + 22x^2 - 1$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \frac{7}{2} \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} + 2x^{10} - 3x^8 - x^4 - 2x^2 + 1$ | $x^{12} - 6x^{10} + 9x^8 + 4x^6 - 9x^4 - 6x^2 + 1$ | $\left[\begin{array}{cccc} 8 & 8 & 3 & 3 \\ 3 & 3 & 3 & 6 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,58 | $\frac{169}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 2x^{10} - 3x^8 + 4x^6 + 3x^4 - 6x^2 - 3$ | $x^{12} + 18x^{10} + 135x^8 + 252x^6 + 81x^4 + 810x^2 + 405$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} - 7x^8 + 8x^6 + 7x^4 + 6x^2 - 7$ | $x^{12} + 6x^{10} - 15x^8 + 200x^6 + 3375x^4 + 11250x^2 + 15625$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,58 | $\frac{169}{48}$ |
| $x^{12} - 2x^{10} + 5x^8 - 7x^4 - 2x^2 + 3$ | $x^{12} - 10x^{10} + 45x^8 - 88x^6 + 33x^4 + 22x^2 + 11$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} + 6x^{10} - 3x^8 - 4x^6 + 7x^4 + 6x^2 + 5$ | $x^{12} + 72x^{10} + 1026x^8 - 15660x^6 - 97200x^4 - 24300$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} - 2x^{10} + 5x^8 + x^4 + 6x^2 - 5$ | $x^{12} + 6x^{10} + 31x^8 + 132x^6 + 495x^4 + 1122x^2 + 1859$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} + 7x^8 - x^4 - 2x^2 - 1$ | $x^{12} - 30x^{10} + 225x^8 - 300x^6 + 4725x^4 - 6750x^2 - 5625$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + x^8 - 4x^6 + x^4 - 6x^2 + 3$ | $x^{12} - 2x^{10} - 33x^8 + 88x^6 + 363x^4 - 1210x^2 + 1331$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 23 & 23 \\ 2 & 6 & 6 \end{array} \right]_3^2$ | T: 12,141 | $\frac{175}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 2x^{10} - x^8 - 4x^6 + 7x^4 - 6x^2 + 7$ | $x^{12} - 10x^{10} - 65x^8 - 180x^6 - 825x^4 - 2250x^2 - 2025$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 7 \\ 2 \\ 6 \end{array} \begin{array}{c} 23 \\ 6 \\ 6 \end{array} \Big]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} - 6x^{10} - x^8 + 4x^6 + x^4 - 2x^2 - 7$ | $x^{12} + 6x^{10} + 9x^8 - 20x^6 + 15x^4 - 6x^2 + 1$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \\ 6 \end{array} \Big]_3^2$ | T: 12,60 | $\frac{169}{48}$ |
| $x^{12} + 6x^{10} + 7x^8 + 4x^6 - 3x^4 - 6x^2 + 1$ | $x^{12} - 6x^{10} + 39x^8 - 116x^6 + 405x^4 - 594x^2 + 1521$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \\ 6 \end{array} \Big]_3^2$ | T: 12,89 | $\frac{85}{24}$ |
| $x^{12} - 2x^{10} + 3x^8 - 4x^6 + 3x^4 + 6x^2 - 1$ | $x^{12} - 18x^{10} - 45x^8 + 1620x^6 - 405x^4 - 30618x^2 - 123201$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 7 \\ 2 \\ 6 \end{array} \begin{array}{c} 23 \\ 6 \\ 6 \end{array} \Big]_3^2$ | T: 12,134 | $\frac{175}{48}$ |
| $x^{12} - 2x^{10} + x^8 - 4x^6 + 7x^4 + 6x^2 - 3$ | $x^{12} + 18x^{10} - 639x^8 - 17700x^6 - 105705x^4 + 36450x^2 - 735075$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \\ 6 \end{array} \Big]_3^2$ | T: 12,187 | $\frac{1375}{384}$ |
| $x^{12} + 2x^{10} + 7x^8 + 8x^6 - x^4 - 2x^2 + 3$ | $x^{12} - 16x^{10} + 86x^8 - 132x^6 - 176x^4 + 44$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \\ 3 \end{array} \begin{array}{c} 7 \\ 2 \\ 6 \end{array} \begin{array}{c} 23 \\ 6 \\ 6 \end{array} \Big]_3^2$ | T: 12,222 | $\frac{2803}{768}$ |
| $x^{12} - 2x^{10} + x^8 + 3x^4 - 6x^2 + 1$ | $x^{12} - 30x^{10} + 379x^8 - 2244x^6 + 6765x^4 - 10406x^2 + 5929$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \\ 6 \end{array} \Big]_3^2$ | T: 12,58 | $\frac{169}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} - 4x^{10} - 4x^8 - 8x^6 + 2x^4 - 4x^2 + 10$ | $x^{12} + 44x^{10} + 748x^8 + 5808x^6 + 14762x^4 - 58564x^2 - 322102$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{23}{6} \\ & \frac{23}{6} & 4 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} - 12x^{10} + 12x^6 + 12x^4 + 12x^2 - 10$ | $x^{12} - 630x^8 - 13200x^6 - 56700x^4 + 499500x^2 - 2756250$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{4}{3} & 2 & \frac{8}{3} \\ \frac{8}{3} & \frac{8}{3} & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 2x^8 + 8x^4 + 8x^2 - 6$ | $x^{12} - 44x^8 + 616x^4 - 2662$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{4}{3} & 2 & \frac{7}{3} \\ \frac{7}{3} & \frac{7}{3} & 3 \end{array} \right]_3^2$ | T: 12,141 | $\frac{631}{192}$ |
| $x^{12} + 16x^8 + 4x^6 - 8x^4 + 8x^2 + 10$ | $x^{12} + 60x^{10} + 546x^8 + 1460x^6 + 1284x^4 + 240x^2 + 10$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & 4 \\ & 3 & 4 \end{array} \right]_3^2$ | T: 12,29 | $\frac{79}{24}$ |
| $x^{12} - 4x^{10} - 4x^8 + 8x^4 + 8x^2 + 6$ | $x^{12} + 28x^{10} + 420x^8 + 3528x^6 + 14688x^4 + 29160x^2 + 39366$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{4}{3} & 2 & 3 \\ \frac{19}{6} & \frac{19}{6} & 4 \end{array} \right]_3^2$ | T: 12,134 | $\frac{667}{192}$ |
| $x^{12} - 8x^{10} - 6x^8 + 4x^6 + 10x^4 - 12x^2 - 14$ | $x^{12} - 4x^{11} - 6x^{10} + 44x^9 - 83x^8 + 184x^7 - 676x^6 + 1888x^5 - 975x^4 - 3940x^3 + 3458x^2 - 1028x + 103$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{4}{3} & 2 & \frac{8}{3} \\ \frac{8}{3} & \frac{8}{3} & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} + 8x^8 + 8x^6 + 4x^2 - 6$ | $x^{12} - 80x^6 + 120x^4 - 60x^2 + 10$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{23}{6} \\ & \frac{23}{6} & 4 \end{array} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 4x^{10} + 4x^8 + 4x^6 + 2$ | $x^{12} + 24x^{10} + 126x^8 + 164x^6 - 36x^4 - 48x^2 + 98$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \begin{array}{ccc} 19 & 19 & 4 \\ 6 & 6 & 4 \end{array} \Big]^2$ | T: 12,105 | $\frac{331}{96}$ |
| $x^{12} + 8x^{10} + 6x^8 - 2x^4 - 4x^2 - 6$ | $x^{12} - 24x^{10} + 210x^8 - 792x^6 + 1452x^4 - 1232x^2 - 88$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \Big]^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 8x^{10} + 14x^8 + 8x^6 - 2x^4 - 12x^2 - 14$ | $x^{12} - 36x^{10} + 550x^8 - 4576x^6 + 22066x^4 - 59180x^2 + 69938$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \Big]^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^8 - 4x^6 - 2x^4 - 4x^2 - 6$ | $x^{12} - 12x^{10} - 42x^8 + 368x^6 + 846x^4 - 900x^2 + 90$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \Big]^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} - 4x^{10} - 4x^8 + 16x^4 + 10$ | $x^{12} - 12x^{10} + 52x^8 - 96x^6 + 64x^4 - 22$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \begin{array}{ccc} 2 & 2 & 3 \\ 3 & 3 & 6 \end{array} \begin{array}{ccc} 19 & 19 & 4 \\ 6 & 6 & 4 \end{array} \Big]^2$ | T: 12,134 | $\frac{667}{192}$ |
| $x^{12} + 8x^{10} + 16x^8 + 8x^6 - 10x^4 - 12x^2 + 14$ | $x^{12} - 8x^{10} + 34x^8 - 84x^6 + 86x^4 - 12x^2 - 18$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \Big]^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} - 4x^{10} + 6x^8 - 4x^6 + 6$ | $x^{12} + 24x^{10} + 240x^8 + 1100x^6 + 2700x^4 + 4200x^2 + 3750$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \begin{array}{ccc} 5 & 5 & 3 \\ 3 & 3 & 4 \end{array} \Big]^2$ | T: 12,94 | $\frac{301}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 4x^{10} + 2x^8 + 6$ | $x^{12} - 12x^{10} + 56x^8 - 128x^6 + 144x^4 - 64x^2 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & \frac{19}{6} \end{array} \right]_3^2$ | T: 12,142 | $\frac{667}{192}$ |
| $x^{12} - 4x^{10} - 4x^8 - 4x^6 - 2x^4 + 6$ | $x^{12} - 120x^{10} + 2070x^8 + 15900x^6 - 4050x^4 - 135000x^2 - 56250$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \\ & 3 & \frac{11}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 8x^{10} + 6x^8 - 4x^6 - 2x^4 - 6$ | $x^{12} - 16x^{10} + 86x^8 + 44x^6 - 1474x^4 + 3872x^2 - 2662$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \\ & 3 & \frac{11}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 4x^{10} + 12x^8 + 8x^6 - 6x^4 - 10$ | $x^{12} + 36x^{10} + 180x^8 + 1000x^6 + 750x^4 - 6250$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & \frac{11}{3} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} - 4x^{10} - 6x^8 - 4x^6 - 6x^4 - 4x^2 + 2$ | $x^{12} - 4x^{10} + 76x^8 - 264x^6 + 506x^4 - 484x^2 + 242$ | $\left[\begin{array}{ccc} 2 & 3 & 3 \\ & 3 & 3 \\ & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} - 4x^{10} + 4x^8 + 4x^6 - 2$ | $x^{12} - 36x^{10} + 434x^8 - 1936x^6 + 3564x^4 - 1936x^2 - 968$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \\ & 3 & \frac{19}{6} \end{array} \right]_3^2$ | T: 12,105 | $\frac{331}{96}$ |
| $x^{12} - 4x^{10} - 4x^8 - 4x^6 - 2x^4 - 2$ | $x^{12} + 60x^{10} + 300x^8 - 100x^6 - 3150x^4 - 9000x^2 - 11250$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \\ & 3 & \frac{11}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} - 12x^{10} - 14x^8 + 16x^6 - 2x^4 + 8x^2 - 10$ | $x^{12} - 36x^{10} + 456x^8 - 2376x^6 + 5962x^4 - 6776x^2 + 2662$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 & 3 & 11 & 4 \\ 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 16x^{10} - 10x^8 - 4x^6 + 12x^4 + 12x^2 + 14$ | $x^{12} - 8x^{10} + 12x^8 - 20x^4 - 12x^2 - 2$ | $\begin{bmatrix} 8 & 8 & 3 & 23 & 23 & 4 \\ 3 & 3 & 3 & 6 & 6 & 3 \end{bmatrix}_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} - 4x^{10} + 6x^8 - 8x^6 + 16x^4 + 4x^2 - 14$ | $x^{12} + 4x^{10} - 2x^8 - 16x^6 + 24x^4 - 12x^2 + 2$ | $\begin{bmatrix} 2 & 8 & 8 & 3 & 23 & 23 & 4 \\ 3 & 3 & 3 & 3 & 6 & 6 & 3 \end{bmatrix}_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} - 4x^{10} + 14x^8 + 16x^6 + 10x^4 + 10$ | $x^{12} - 20x^{10} + 30x^8 + 880x^6 + 2650x^4 + 2400x^2 - 150$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 & 3 & 11 & 4 \\ 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 8x^{10} + 2x^8 + 8x^6 + 8x^4 + 4x^2 - 6$ | $x^{12} - 120x^{10} - 240x^8 + 15200x^6 + 57600x^4 - 432000x^2 - 2160000$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 & 3 & 23 & 4 \\ 3 & 3 & 3 & 3 & 3 & 3 & 6 & 3 \end{bmatrix}_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 4x^{10} + 12x^8 - 8x^6 - 12x^4 + 12x^2 + 4x^2 - 10$ | $x^{12} + 12x^{10} + 30x^8 - 44x^6 - 12x^4 + 12x^2 + 6$ | $\begin{bmatrix} 8 & 8 & 3 & 23 & 23 & 4 \\ 3 & 3 & 3 & 6 & 6 & 3 \end{bmatrix}_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 8x^{10} + 6x^8 - 4x^6 + 2$ | $x^{12} - 12x^{10} + 36x^8 + 12x^6 - 108x^4 - 288x^2 + 18$ | $\begin{bmatrix} 4 & 4 & 3 & 19 & 19 & 4 \\ 3 & 3 & 3 & 6 & 6 & 3 \end{bmatrix}_3^2$ | T: 12,99 | $\frac{331}{96}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 12x^{10} - 8x^8 + 8x^6 + 8x^4 + 12x^2 + 10$ | $x^{12} - 60x^{10} + 1070x^8 - 5200x^6 + 10620x^4 - 9680x^2 + 3240$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]_3$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} - 4x^{10} - 6x^8 + 4x^6 + 6$ | $x^{12} - 4x^{10} - 22x^8 + 308x^6 + 1936x^4 + 3872x^2 + 2662$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 2 \\ 3 & 4 & 4 \end{array} \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]_3$ | T: 12,29 | $\frac{73}{24}$ |
| $x^{12} + 8x^{10} + 2x^4 - 4x^2 - 6$ | $x^{12} - 4x^{10} + 8x^6 - 18x^4 - 44x^2 - 22$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]_3$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 6x^8 + 6x^4 - 4x^2 + 2$ | $x^{12} + 8x^{10} - 132x^6 + 594x^4 - 660x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]_3$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 8x^{10} + 10x^8 + 12x^6 + 2x^4 - 12x^2 + 10$ | $x^{12} + 120x^{10} + 90x^8 - 6900x^6 + 25650x^4 - 13500x^2 - 33750$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]_3$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 4x^{10} - 4x^8 - 4x^6 + 6x^4 - 4x^2 + 2$ | $x^{12} - 4x^{10} + 10x^8 - 24x^6 + 26x^4 - 12x^2 + 2$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]_3$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} - 10x^8 - 12x^6 - 12x^4 - 4x^2 - 10$ | $x^{12} + 8x^{10} + 44x^8 + 264x^6 + 1452x^4 + 3388x^2 + 2662$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]_3$ | T: 12,99 | $\frac{361}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 4x^{10} + 4x^8 - 8x^6 - 4x^2 - 14$ | $x^{12} - 24x^{10} + 198x^8 - 704x^6 + 1452x^4 - 1760x^2 + 968$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3 \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 4x^{10} - 4x^8 - 6x^4 + 2$ | $x^{12} + 4x^{10} - 14x^8 + 56x^6 - 30x^4 + 2$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 8x^{10} - 2x^8 - 4x^6 + 2x^4 + 4x^2 + 2$ | $x^{12} + 16x^{10} + 102x^8 + 332x^6 + 594x^4 + 572x^2 + 242$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3 \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} - 2x^8 - 4x^6 - 4x^4 + 4x^2 + 6$ | $x^{12} + 8x^{10} + 30x^8 + 60x^6 + 76x^4 + 60x^2 + 22$ | $\left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3 \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} - 4x^{10} - 2x^8 - 4x^6 - 2x^4 + 8x^2 - 2$ | $x^{12} - 4x^{10} + 18x^8 + 48x^6 - 92x^4 + 48x^2 - 8$ | $\left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 4x^{10} - 2x^8 + 4x^6 - 2x^4 - 2$ | $x^{12} + 12x^{10} + 190x^8 + 132x^6 - 726x^4 - 968x^2 - 242$ | $\left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} - 4x^{10} + 16x^8 + 4x^6 - 12x^4 + 14$ | $x^{12} + 144x^{10} + 6444x^8 + 53220x^6 + 221400x^4 + 202500x^2 - 101250$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3 \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 4x^{10} + 4x^6 + 6x^4 + 2$ | $x^{12} - 20x^{10} + 144x^8 - 572x^6 + 2046x^4 - 5808x^2 + 11858$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 11 & 11 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 2 & & \\ & 4 & \\ & & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} - 4x^{10} + 2x^8 + 8x^6 + 2$ | $x^{12} - 12x^{10} + 48x^8 - 64x^6 + 44x^4 - 176x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 19 & 19 \\ 6 & 6 & 6 \end{array} \left[\begin{array}{ccc} 2 & & \\ & 4 & \\ & & 4 \end{array} \right]_3^2$ | T: 12,134 | $\frac{667}{192}$ |
| $x^{12} - 10x^8 + 8x^6 - 14x^4 + 4x^2 - 10$ | $x^{12} + 8x^{10} + 28x^8 + 52x^6 + 70x^4 + 60x^2 + 22$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 6 \end{array} \left[\begin{array}{ccc} 2 & & \\ & 4 & \\ & & 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 16x^{10} - 8x^6 - 6x^4 + 8x^2 - 14$ | $x^{12} + 6x^8 + 18x^4 + 18$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 11 & 11 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 2 & & \\ & 4 & \\ & & 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 12x^{10} - 8x^6 - 12x^2 + 10$ | $x^{12} - 24x^{10} + 300x^8 + 1288x^6 + 1764x^4 + 900x^2 + 90$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 6 \end{array} \left[\begin{array}{ccc} 2 & & \\ & 4 & \\ & & 4 \end{array} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} - 4x^{10} - 2x^8 + 4x^6 - 12x^4 + 4x^2 + 10$ | $x^{12} - 4x^{10} - 2x^8 + 36x^6 - 28x^4 - 132x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \left[\begin{array}{ccc} 2 & & \\ & 4 & \\ & & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 2x^8 + 4x^2 + 2$ | $x^{12} + 36x^{10} + 486x^8 + 1728x^6 + 2916x^4 + 2916x^2 + 1458$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \left[\begin{array}{ccc} 2 & & \\ & 4 & \\ & & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 12x^{10} + 4x^8 + 12x^6 + 16x^2 - 14$ | $x^{12} + 36x^{10} + 432x^8 + 2148x^6 + 3996x^4 + 1080x^2 + 882$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{331}{96}$ |
| $x^{12} - 2x^8 + 4x^6 - 2x^4 + 4x^2 - 2$ | $x^{12} + 12x^{10} - 60x^8 - 1376x^6 - 6366x^4 - 11820x^2 - 14450$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 4x^{10} - 4x^8 + 8x^6 + 8x^4 + 8x^2 - 2$ | $x^{12} + 12x^{10} + 46x^8 - 24x^6 - 576x^4 - 1080x^2 - 162$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,134 | $\frac{667}{192}$ |
| $x^{12} - 4x^{10} + 2x^8 + 16x^6 + 14x^4 + 16x^2 - 10$ | $x^{12} + 28x^{10} + 306x^8 + 1672x^6 + 4642x^4 + 5808x^2 + 2662$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 4 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 4x^{10} + 16x^8 + 8x^6 - 14x^4 - 8x^2 + 14$ | $x^{12} + 60x^{10} + 840x^8 - 6400x^6 - 242850x^4 - 1977000x^2 - 5281250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 4 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 12x^{10} - 4x^8 + 8x^6 - 14x^4 + 8x^2 - 10$ | $x^{12} - 84x^{10} + 990x^8 - 3000x^6 - 6750x^4 + 45000x^2 - 56250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 4 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 8x^8 - 4x^6 + 6x^4 - 2$ | $x^{12} - 12x^{10} + 54x^8 - 112x^6 + 108x^4 - 48x^2 - 8$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 4 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} - 6$ | $x^{12} - 12x^8 + 12x^4 - 6$ | $\left[\begin{array}{ccc} 2 & 3 & 4 \\ & & \end{array} \right]_3^2$ | T: 12,14 | $\frac{37}{12}$ |
| $x^{12} + 16x^{10} + 12x^8 - 4x^6 + 14x^4 + 10$ | $x^{12} - 36x^8 - 148x^6 - 186x^4 + 90$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 11 & 11 & 4 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} - 12x^{10} + 10x^8 + 8x^6 - 2x^4 + 4x^2 - 14$ | $x^{12} + 4x^{10} - 38x^8 - 40x^6 + 1574x^4 - 6820x^2 + 11858$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 4x^8 - 4x^6 + 6x^4 + 8x^2 - 6$ | $x^{12} - 20x^{10} + 170x^8 - 580x^6 + 490x^4 + 240x^2 + 90$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 11 & 11 & 4 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 8x^6 - 6x^4 + 8x^2 - 6$ | $x^{12} + 6x^8 + 30x^4 - 6$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 11 & 11 & 4 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 12x^{10} - 12x^8 + 12x^6 + 16x^2 + 14$ | $x^{12} + 36x^{10} + 434x^8 + 1936x^6 + 3564x^4 + 1936x^2 - 968$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 19 & 19 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{331}{96}$ |
| $x^{12} - 4x^{10} - 6x^8 + 8x^6 + 4x^4 - 4x^2 + 6$ | $x^{12} - 16x^{10} + 86x^8 - 264x^6 + 880x^4 - 2420x^2 + 2662$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 2x^8 + 8x^6 + 2x^4 + 4x^2 - 2$ | $x^{12} - 60x^{10} + 360x^8 + 43500x^6 - 1171350x^4 + 12271500x^2 - 50501250$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} + 4x^{10} + 12x^8 - 12x^6 - 10x^4 + 16x^2 + 10$ | $x^{12} - 20x^{10} + 172x^8 - 764x^6 + 1670x^4 - 1408x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 11 & 4 \\ 3 & 3 & 3 \end{array} \right]^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 8x^6 - 4x^4 - 4x^2 + 6$ | $x^{12} + 24x^{10} + 226x^8 + 1056x^6 + 2508x^4 + 2464x^2 + 88$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 23 & 4 \\ 3 & 6 & 6 \end{array} \right]^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 4x^{10} + 6x^8 - 4x^6 + 8x^4 + 8x^2 - 2$ | $x^{12} + 12x^{10} + 186x^8 + 724x^6 + 60x^4 + 48x^2 - 2$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 4 \\ 3 & 3 & 3 \end{array} \right]^2$ | T: 12,94 | $\frac{319}{96}$ |
| $x^{12} - 4x^{10} + 6x^8 + 4x^2 + 2$ | $x^{12} + 16x^{10} + 96x^8 + 220x^6 - 484x^2 + 242$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 23 & 4 \\ 6 & 6 & 6 \end{array} \right]^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} - 8x^{10} + 8x^8 + 16x^6 - 8x^4 - 12x^2 - 14$ | $x^{12} - 12x^{10} + 60x^8 - 152x^6 + 156x^4 - 60x^2 + 50$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 6 \end{array} \right]^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 16x^{10} + 12x^8 + 8x^6 - 8x^4 - 8x^2 - 14$ | $x^{12} - 4x^{10} - 18x^8 + 44x^6 + 220x^4 - 484x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 23 & 4 \\ 3 & 6 & 6 \end{array} \right]^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 12x^{10} - 6x^8 + 10x^4 - 4x^2 - 10$ | $x^{12} - 12x^{10} + 80x^8 - 308x^6 + 902x^4 - 1452x^2 + 2662$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 6 \end{array} \right]^2$ | T: 12,105 | $\frac{361}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} + 4x^{10} + 16x^8 + 4x^6 + 16x^4 - 12x^2 - 14$ | $x^{12} + 96x^8 - 192x^7 + 272x^6 - 432x^5 + 486x^4 - 320x^3 + 120x^2 - 24x + 2$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} + 12x^{10} - 6x^8 - 12x^6 + 12x^4 - 12x^2 - 10$ | $x^{12} - 360x^8 + 5600x^6 - 28800x^4 + 48000x^2 - 16000$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^{10} - 14x^8 - 8x^6 + 8x^4 - 12x^2 + 10$ | $x^{12} + 60x^{10} + 1830x^8 - 1400x^6 - 78900x^4 - 229500x^2 - 183750$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 4x^{10} - 14x^8 + 12x^6 + 2x^4 + 4x^2 - 14$ | $x^{12} - 44x^{10} + 660x^8 - 3872x^6 + 13794x^4 - 26620x^2 + 29282$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 16x^{10} - 10x^8 - 8x^6 + 8x^4 + 8x^2 - 14$ | $x^{12} + 28x^8 + 220x^4 + 242$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ & 2 & 3 \\ & & 4 \end{array} \right]_3^2$ | T: 12,51 | $\frac{151}{48}$ |
| $x^{12} + 4x^{10} - 2x^8 + 8x^6 + 2$ | $x^{12} + 12x^{10} - 72x^9 + 114x^8 - 144x^7 + 124x^6 + 2736x^5 - 8652x^4 + 3648x^3 + 19128x^2 - 30672x + 14812$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ & 2 & 3 \\ & & \frac{19}{6} \end{array} \right]_3^2$ | T: 12,142 | $\frac{667}{192}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} - 4x^{10} + 12x^8 + 8x^4 + 4x^2 - 14$ | $x^{12} - 4x^{10} + 22x^8 + 176x^6 - 132x^4 - 880x^2 + 968$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^4$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 8x^{10} + 16x^8 + 8x^6 - 14x^4 - 14$ | $x^{12} + 6x^8 + 36x^4 + 72$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^4$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 16x^{10} + 2x^8 - 8x^6 + 10x^4 - 8x^2 + 10$ | $x^{12} - 4x^8 + 26x^4 - 22$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^4$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} - 4x^{10} - 2x^8 - 4x^6 - 2x^4 + 8x^2 + 6$ | $x^{12} + 12x^{10} + 62x^8 + 176x^6 + 284x^4 + 240x^2 + 88$ | $\left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^4$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} - 2x^8 + 8x^6 + 6x^4 + 4x^2 - 6$ | $x^{12} - 8x^{10} + 16x^8 + 132x^6 - 374x^4 + 308x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^4$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 4x^{10} + 4x^8 - 4x^6 - 4x^4 - 4x^2 - 10$ | $x^{12} - 44x^{10} + 770x^8 - 6776x^6 + 32912x^4 - 90508x^2 + 130438$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^4$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} + 8x^{10} + 6x^8 + 16x^6 - 10x^4 - 4x^2 - 14$ | $x^{12} + 36x^{10} + 550x^8 + 4576x^6 + 22066x^4 + 59180x^2 + 69938$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^4$ | T: 12,189 | $\frac{1447}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 8x^8 - 8x^6 + 10x^4 - 12x^2 + 10$ | $x^{12} - 24x^8 - 72x^6 - 78x^4 - 36x^2 - 6$ | $\begin{bmatrix} 2 & 8 & 8 & 3 \\ & 3 & 3 & 3 \\ & & 23 & 23 \\ & & & 6 \end{bmatrix}_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 8x^6 - 2x^4 + 4x^2 + 6$ | $x^{12} - 12x^{10} + 72x^8 - 144x^6 + 66x^4 + 36x^2 + 6$ | $\begin{bmatrix} 2 & 8 & 8 & 3 \\ & 3 & 3 & 3 \\ & & 23 & 23 \\ & & & 6 \end{bmatrix}_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} - 4x^{10} - 4x^8 - 8x^4 + 8x^2 + 10$ | $x^{12} - 4x^{10} - 22x^8 - 80x^6 - 128x^4 - 88x^2 - 22$ | $\begin{bmatrix} 4 & 4 & 2 & 3 \\ & 3 & 3 & 3 \\ & & 19 & 19 \\ & & & 6 \end{bmatrix}_3^2$ | T: 12,134 | $\frac{667}{192}$ |
| $x^{12} + 8x^{10} + 2x^8 - 4x^6 + 6$ | $x^{12} + 20x^{10} + 172x^8 + 764x^6 + 1868x^4 + 2288x^2 + 1078$ | $\begin{bmatrix} 4 & 4 & 3 & 3 \\ & 3 & 3 & 3 \\ & & 19 & 19 \\ & & & 6 \end{bmatrix}_3^2$ | T: 12,99 | $\frac{331}{96}$ |
| $x^{12} - 4x^{10} - 2x^8 + 8x^6 + 2x^4 + 8x^2 - 6$ | $x^{12} - 60x^{10} - 690x^8 - 9400x^6 - 31650x^4 - 27000x^2 - 3750$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 & 3 \\ & 3 & 3 & 3 & 3 & 3 \\ & & 11 & 11 & 11 & 3 \\ & & & 4 & 4 & 4 \end{bmatrix}_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 8x^{10} + 2x^8 + 8x^6 + 4x^2 + 2$ | $x^{12} + 12x^{10} + 54x^8 + 64x^6 + 36x^4 + 12x^2 + 2$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 & 3 \\ & 3 & 3 & 3 & 3 & 3 \\ & & 23 & 23 & 23 & 6 \\ & & & 4 & 4 & 4 \end{bmatrix}_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 4x^{10} - 4x^8 - 6x^4 - 6$ | $x^{12} + 60x^{10} + 1020x^8 + 7600x^6 + 23250x^4 - 93750$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 & 3 \\ & 3 & 3 & 3 & 3 & 3 \\ & & 11 & 11 & 11 & 3 \\ & & & 4 & 4 & 4 \end{bmatrix}_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} - 4x^{10} - 4x^8 + 4x^6 - 2x^4 - 4x^2 - 6$ | $x^{12} + 24x^{10} + 90x^8 - 248x^6 - 996x^4 - 720x^2 + 40$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 4 \end{array} \Big]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 4x^{10} + 10x^8 + 16x^6 + 10x^4 + 12x^2 - 10$ | $x^{12} + 8x^{10} + 26x^8 + 48x^6 + 62x^4 + 44x^2 + 22$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 4 \end{array} \Big]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 2x^8 + 8x^6 + 8x^4 + 8x^2 + 2$ | $x^{12} + 22x^8 - 308x^4 + 968$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 7 & 7 & 3 \\ 3 & 3 & 4 \end{array} \Big]_3^2$ | T: 12,141 | $\frac{631}{192}$ |
| $x^{12} + 14x^8 + 4x^6 - 2x^4 + 10$ | $x^{12} + 16x^{10} + 86x^8 - 44x^6 - 1474x^4 - 3872x^2 - 2662$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 11 & 11 \\ 3 & 3 & 4 \end{array} \Big]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} - 8x^{10} - 12x^8 - 8x^6 + 10x^4 - 8x^2 - 10$ | $x^{12} + 22x^8 + 242x^4 + 2662$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 4 \end{array} \Big]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} - 4x^{10} - 2x^8 + 8x^6 + 8x^4 + 8x^2 - 6$ | $x^{12} + 36x^{10} - 312x^9 + 2484x^8 - 8496x^7 + 28548x^6 - 123120x^5 + 481716x^4 - 1347048x^3 + 1424088x^2 - 625104x + 98238$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 19 & 19 \\ 6 & 6 & 4 \end{array} \Big]_3^2$ | T: 12,142 | $\frac{667}{192}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} - 4x^{10} + 8x^8 + 8x^4 - 4x^2 - 6$ | $x^{12} + 24x^{10} + 300x^8 - 1288x^6 + 1764x^4 - 900x^2 + 90$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 2x^8 + 8x^6 - 6x^4 + 8x^2 + 2$ | $x^{12} + 4x^8 + 6x^4 + 2$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 11 \\ 3 \end{array} \begin{array}{c} 11 \\ 3 \end{array} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 8x^{10} + 6x^8 + 4x^6 + 8x^4 + 8x^2 - 14$ | $x^{12} + 24x^{10} + 90x^8 + 164x^6 + 180x^4 + 96x^2 + 50$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 19 \\ 6 \end{array} \begin{array}{c} 19 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,99 | $\frac{331}{96}$ |
| $x^{12} - 4x^{10} + 6x^8 - 4x^6 + 4x^4 + 4x^2 - 6$ | $x^{12} + 8x^{10} + 20x^8 + 56x^6 + 56x^4 + 44x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 8x^{10} + 16x^6 - 14x^4 + 12x^2 + 10$ | $x^{12} + 4x^{10} + 10x^8 + 56x^6 + 108x^4 - 88$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} - 4x^{10} - 2x^8 - 4x^6 + 6x^4 + 6$ | $x^{12} + 24x^{10} + 220x^8 + 1012x^6 + 2662x^4 + 3872x^2 + 2662$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 11 \\ 3 \end{array} \begin{array}{c} 11 \\ 3 \end{array} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 4x^{10} - 2x^8 + 8x^6 - 6x^4 - 6$ | $x^{12} + 20x^{10} + 30x^8 - 880x^6 + 2650x^4 - 2400x^2 - 150$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 11 \\ 3 \end{array} \begin{array}{c} 11 \\ 3 \end{array} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 12x^{10} + 12x^8 - 4x^6 - 10x^4 - 4x^2 - 14$ | $x^{12} + 16x^{10} + 92x^8 + 356x^6 + 746x^4 + 660x^2 + 242$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \\ 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} - 14x^8 + 4x^6 - 12x^4 + 12x^2 - 14$ | $x^{12} + 44x^{10} + 616x^8 + 3872x^6 + 12584x^4 + 26620x^2 + 29282$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \\ 4 \end{array} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 16x^{10} - 2x^8 - 8x^6 + 6x^4 - 12x^2 + 10$ | $x^{12} + 20x^{10} - 98x^8 + 264x^6 - 286x^4 + 132x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 3 \\ 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \\ 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^{10} - 2x^8 + 8x^6 + 10x^4 - 4x^2 - 10$ | $x^{12} + 4x^{10} + 6x^8 - 2x^4 + 12x^2 + 22$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \\ 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} - 2$ | $x^{12} - 4x^8 + 4x^4 - 2$ | $\left[\begin{array}{ccc} 2 & 3 & 4 \\ 2 & 3 & 4 \end{array} \right]_3^2$ | T: 12,14 | $\frac{37}{12}$ |
| $x^{12} - 12x^{10} - 4x^8 - 12x^6 + 6x^4 + 8x^2 + 14$ | $x^{12} - 84x^{10} + 2628x^8 - 38028x^6 + 257094x^4 - 651240x^2 - 36450$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 11 \\ 3 \\ 3 \end{array} \left[\begin{array}{c} 4 \\ 4 \\ 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 4x^{10} - 2x^8 - 8x^6 + 2x^4 + 4x^2 + 14$ | $x^{12} + 30x^8 + 2600x^6 - 2250x^4 - 37500x^2 - 31250$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 3 \\ 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \\ 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} + 4x^{10} + 10x^8 - 12x^6 + 6x^4 + 4x^2 - 10$ | $x^{12} + 48x^{10} + 864x^8 + 192x^6 - 71334x^4 - 368820x^2 - 561690$ | $\left[\begin{array}{ccc} 4 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \begin{array}{c} 4 \\ 4 \\ 4 \end{array} \Bigg]^2_3$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 4x^{10} + 4x^8 + 8x^4 - 4x^2 - 6$ | $x^{12} - 24x^{10} + 254x^8 - 1408x^6 + 3916x^4 - 3168x^2 - 4312$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \begin{array}{c} 4 \\ 4 \\ 4 \end{array} \Bigg]^2_3$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^{10} + 8x^8 + 8x^6 - 4x^4 + 4x^2 - 2$ | $x^{12} + 60x^{10} - 2790x^8 - 73200x^6 - 332100x^4 + 810000x^2 - 405000$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \begin{array}{c} 4 \\ 4 \\ 4 \end{array} \Bigg]^2_3$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^{10} + 6x^8 + 8x^6 + 8x^4 + 8x^2 + 6$ | $x^{12} + 176x^8 + 9856x^4 + 170368$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 7 & 7 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{c} 4 \\ 4 \\ 4 \end{array} \Bigg]^2_3$ | T: 12,141 | $\frac{631}{192}$ |
| $x^{12} + 4x^{10} + 6x^8 - 8x^6 + 10x^4 + 12x^2 + 14$ | $x^{12} - 60x^{10} + 1170x^8 - 11400x^6 + 58500x^4 - 1125000$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \begin{array}{c} 4 \\ 4 \\ 4 \end{array} \Bigg]^2_3$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 12x^{10} - 14x^8 - 12x^6 + 14x^4 - 4x^2 - 10$ | $x^{12} - 96x^{10} + 306x^8 + 5484x^6 - 9774x^4 - 59940x^2 - 334890$ | $\left[\begin{array}{ccc} 4 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \begin{array}{c} 4 \\ 4 \\ 4 \end{array} \Bigg]^2_3$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 4x^{10} - 4x^8 + 4x^6 + 6x^4 - 4x^2 + 2$ | $x^{12} + 4x^{10} + 10x^8 + 24x^6 + 26x^4 + 12x^2 + 2$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \begin{array}{c} 4 \\ 4 \\ 4 \end{array} \Bigg]^2_3$ | T: 12,105 | $\frac{361}{96}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 6x^8 + 14$ | $x^{12} - 22x^8 + 132x^4 - 242$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,141 | $\frac{643}{192}$ |
| $x^{12} + 8x^{10} - 2x^8 - 4x^6 - 4x^4 + 4x^2 + 6$ | $x^{12} - 4x^{10} + 66x^8 - 220x^6 + 968x^4 - 1452x^2 + 2662$ | $\left[\begin{array}{ccc} 8 & 8 & 23 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 4x^{10} - 4x^8 - 4x^4 + 4x^2 - 2$ | $x^{12} + 32x^8 + 16x^6 - 16x^4 - 12x^2 - 2$ | $\left[\begin{array}{ccc} 8 & 8 & 23 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} - 4x^{10} + 2x^8 + 16x^6 + 14x^4 + 12x^2 + 10$ | $x^{12} - 4x^{10} - 38x^8 + 216x^6 - 274x^4 + 132x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 4x^{10} + 2x^8 + 8x^6 + 2x^4 + 4x^2 + 6$ | $x^{12} + 128x^6 - 384x^5 + 480x^4 - 320x^3 + 120x^2 - 24x + 2$ | $\left[\begin{array}{ccc} 8 & 8 & 23 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 4x^{10} - 4x^8 - 12x^6 + 14x^4 + 16x^2 - 10$ | $x^{12} - 810x^8 + 15300x^6 - 117450x^4 + 405000x^2 - 506250$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 8x^{10} + 2x^8 + 4x^6 + 8x^4 + 8x^2 + 6$ | $x^{12} - 36x^{10} + 442x^8 - 2256x^6 + 5868x^4 - 7568x^2 + 4312$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,99 | $\frac{331}{96}$ |
| $x^{12} + 4x^{10} - 6x^8 - 12x^6 + 16x^4 + 16x^2 + 10$ | $x^{12} - 36x^{10} + 366x^8 - 1824x^6 + 4572x^4 - 5040x^2 + 360$ | $\left[\begin{array}{ccc} 4 & 4 & 5 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,94 | $\frac{301}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|------------------|
| $x^{12} + 16x^{10} - 2x^8 + 12x^6 - 12x^4 + 4x^2 + 14$ | $x^{12} + 8x^{10} - 34x^8 + 36x^6 - 4x^4 - 4x^2 - 2$ | $\begin{bmatrix} 8 & 8 & 3 \\ 3 & 3 & 3 \end{bmatrix} \begin{bmatrix} 23 & 23 \\ 6 & 6 \end{bmatrix} \begin{bmatrix} 2 \\ 4 \end{bmatrix}_3$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} - 4x^{10} - 6x^8 - 4x^6 + 6$ | $x^{12} + 4x^{10} + 22x^8 + 68x^6 + 100x^4 + 72x^2 + 22$ | $\begin{bmatrix} 3 & 4 \end{bmatrix}_3^2$ | T: 12,1 | $\frac{35}{12}$ |
| $x^{12} + 8x^{10} + 8x^8 - 4x^6 + 2x^4 - 12x^2 + 14$ | $x^{12} + 12x^{10} + 42x^8 + 16x^6 - 126x^4 - 156x^2 - 2$ | $\begin{bmatrix} 8 & 8 & 3 \\ 3 & 3 & 3 \end{bmatrix} \begin{bmatrix} 23 & 23 \\ 6 & 6 \end{bmatrix} \begin{bmatrix} 2 \\ 4 \end{bmatrix}_3$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 8x^{10} + 8x^8 + 6x^4 - 4x^2 + 6$ | $x^{12} - 12x^{10} - 82x^8 - 104x^6 + 108x^4 + 288x^2 + 216$ | $\begin{bmatrix} 2 & 8 & 8 & 3 \\ & 3 & 3 & 3 \end{bmatrix} \begin{bmatrix} 23 & 23 \\ 6 & 6 \end{bmatrix} \begin{bmatrix} 2 \\ 4 \end{bmatrix}_3$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 8x^{10} - 6x^8 - 4x^6 + 4x^4 - 4x^2 - 14$ | $x^{12} + 16x^{10} + 90x^8 + 220x^6 + 308x^4 + 484x^2 + 242$ | $\begin{bmatrix} 8 & 8 & 3 \\ 3 & 3 & 3 \end{bmatrix} \begin{bmatrix} 23 & 23 \\ 6 & 6 \end{bmatrix} \begin{bmatrix} 2 \\ 4 \end{bmatrix}_3$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 8x^{10} + 6x^8 + 4x^6 + 16x^2 - 14$ | $x^{12} - 12x^{10} - 20x^6 + 48x^4 - 24x^2 + 2$ | $\begin{bmatrix} 4 & 4 & 3 \\ 3 & 3 & 3 \end{bmatrix} \begin{bmatrix} 19 & 19 \\ 6 & 6 \end{bmatrix} \begin{bmatrix} 2 \\ 4 \end{bmatrix}_3$ | T: 12,99 | $\frac{331}{96}$ |
| $x^{12} + 4x^{10} + 6x^8 + 4x^6 + 8x^4 + 8x^2 + 6$ | $x^{12} - 12x^{10} + 66x^8 - 208x^6 + 396x^4 - 432x^2 + 600$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 \\ 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix} \begin{bmatrix} 2 \\ 4 \end{bmatrix}_3$ | T: 12,94 | $\frac{319}{96}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} - 2x^8 + 8x^6 + 4x^4 + 4x^2 - 2$ | $x^{12} - 48x^{10} + 932x^8 - 352x^7 - 6480x^6 - 2904x^5 + 26698x^4 + 31680x^3 - 34328x^2 - 90904x - 50882$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 23 & & \\ 6 & & \\ & & 4 \end{array} \Bigg]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} + 8x^8 + 16x^6 - 2x^4 - 4x^2 + 14$ | $x^{12} - 12x^{10} + 42x^8 - 12x^6 - 54x^4 - 36x^2 - 18$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{ccc} 23 & & \\ 6 & & \\ & & 4 \end{array} \Bigg]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} - 6x^8 + 4x^6 + 6x^4 + 8x^2 + 6$ | $x^{12} - 510x^8 + 10300x^6 - 92550x^4 + 378000x^2 - 552250$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \\ & 3 & 3 \end{array} \right] \begin{array}{ccc} 11 & & \\ 3 & & \\ & & 4 \end{array} \Bigg]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 4x^{10} + 10x^8 + 12x^6 + 16x^4 + 16x^2 - 14$ | $x^{12} + 48x^{10} + 864x^8 + 9328x^6 + 60768x^4 - 158208x^2 + 1568$ | $\left[\begin{array}{ccc} 4 & 4 & 5 \\ 3 & 3 & 3 \\ & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & & \\ 4 & & \\ & & 4 \end{array} \Bigg]_3^2$ | T: 12,94 | $\frac{301}{96}$ |
| $x^{12} + 16x^{10} - 6x^8 - 8x^6 - 4x^2 + 10$ | $x^{12} - 60x^{10} + 990x^8 - 1600x^6 - 54900x^4 - 162000x^2 - 135000$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \\ & 3 & 3 \end{array} \right] \begin{array}{ccc} 23 & & \\ 6 & & \\ & & 4 \end{array} \Bigg]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 4x^{10} - 2x^8 + 2x^4 + 8x^2 + 2$ | $x^{12} + 12x^{10} + 54x^8 + 112x^6 + 102x^4 + 24x^2 + 2$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \\ & 3 & 3 \end{array} \right] \begin{array}{ccc} 11 & & \\ 3 & & \\ & & 4 \end{array} \Bigg]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 8x^{10} - 14x^8 - 4x^6 + 16x^2 + 14$ | $x^{12} - 12x^{10} - 22x^8 - 80x^6 - 100x^4 - 48x^2 - 8$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right] \begin{array}{c} 19 \\ 6 \end{array} \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3$ | T: 12,99 | $\frac{331}{96}$ |
| $x^{12} + 4x^6 + 2x^4 + 4x^2 - 2$ | $x^{12} - 16x^{10} + 64x^8 - 220x^6 - 286x^4 - 484x^2 - 242$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right] \begin{array}{c} 23 \\ 6 \end{array} \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 8x^{10} - 8x^8 - 2x^4 + 12x^2 + 14$ | $x^{12} + 8x^{10} + 34x^8 + 84x^6 + 86x^4 + 12x^2 - 18$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \end{array} \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 4x^{10} - 6x^8 - 4x^6 + 6x^4 + 8x^2 + 2$ | $x^{12} - 20x^{10} + 162x^8 - 708x^6 + 1830x^4 - 2376x^2 + 242$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 11 \\ 3 \end{array} \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 4x^{10} - 4x^8 - 4x^6 - 2x^4 + 6$ | $x^{12} - 810x^8 - 15300x^6 - 117450x^4 - 405000x^2 - 506250$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \left[\begin{array}{c} 11 \\ 3 \end{array} \right] \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 2x^8 + 8x^6 - 6x^4 + 8x^2 - 6$ | $x^{12} + 6x^8 + 20x^4 - 88$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 11 \\ 3 \end{array} \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 8x^{10} - 12x^8 - 12x^6 + 4x^4 + 12x^2 + 14$ | $x^{12} + 16x^{10} + 82x^8 + 128x^6 + 8x^4 - 12x^2 - 2$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \end{array} \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3$ | T: 12,142 | $\frac{181}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} - 4x^{10} - 14x^8 - 2x^4 + 8x^2 - 10$ | $x^{12} + 36x^{10} + 456x^8 + 2376x^6 + 5962x^4 + 6776x^2 + 2662$ | $\left[\begin{array}{cccc} 4 & 2 & 8 & 11 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} - 4x^{10} + 4x^6 - 8x^4 + 4x^2 + 10$ | $x^{12} - 180x^{10} - 720x^9 + 9000x^8 + 70560x^7 + 5196x^6 - 1563840x^5 - 6388020x^4 - 9785280x^3 - 3110760x^2 + 2936160x - 2673276$ | $\left[\begin{array}{cccc} 2 & 8 & 23 & 23 \\ 3 & 3 & 6 & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} + 8x^{10} + 8x^8 + 4x^6 + 6x^4 + 6$ | $x^{12} - 20x^6 + 42x^4 - 24x^2 + 6$ | $\left[\begin{array}{cccc} 8 & 8 & 11 & 11 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 4x^{10} - 4x^8 - 4x^6 - 2x^4 - 4x^2 - 6$ | $x^{12} + 12x^{10} - 90x^8 - 616x^6 - 636x^4 + 40$ | $\left[\begin{array}{cccc} 8 & 8 & 23 & 23 \\ 3 & 3 & 6 & 6 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 2x^4 - 2$ | $x^{12} + 12x^8 + 48x^4 - 32$ | $\left[\begin{array}{cccc} 2 & 8 & 11 & 11 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 4x^{10} + 2x^8 - 2x^4 + 4x^2 + 2$ | $x^{12} - 32x^{10} + 450x^8 - 3544x^6 + 16394x^4 - 40524x^2 + 40898$ | $\left[\begin{array}{cccc} 4 & 4 & 23 & 23 \\ 3 & 3 & 6 & 6 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^{10} - 4x^8 - 4x^6 + 4x^4 + 4x^2 - 10$ | $x^{12} + 4x^{10} + 16x^8 + 36x^6 + 72x^4 + 60x^2 + 22$ | $\left[\begin{array}{cccc} 2 & 8 & 23 & 23 \\ 3 & 3 & 6 & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 8x^{10} + 6x^8 + 12x^6 + 12x^4 + 12x^2 + 14$ | $x^{12} - 8x^{10} - 28x^8 + 264x^6 + 836x^4 + 484x^2 - 242$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 4 \end{array} \Big]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 8x^8 - 4x^6 - 2x^4 + 8x^2 - 2$ | $x^{12} + 12x^{10} + 42x^8 - 116x^6 - 714x^4 - 744x^2 - 242$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 4 \end{array} \Big]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} - 4x^6 + 8x^4 + 8x^2 + 2$ | $x^{12} - 4x^{10} + 14x^8 - 28x^6 + 16x^4 - 8x^2 + 2$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 3 & 4 \\ 3 & 3 & 4 \end{array} \Big]_3^2$ | T: 12,29 | $\frac{79}{24}$ |
| $x^{12} - 2x^8 - 4x^6 - 14x^4 - 12x^2 - 14$ | $x^{12} + 54x^8 + 60x^6 + 242x^4 + 132x^2 + 242$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 4 \end{array} \Big]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 2x^8 - 14x^4 + 4x^2 + 14$ | $x^{12} - 72x^{10} - 240x^9 - 414x^8 + 240x^7 - 4316x^6 - 84240x^5 + 350856x^4 + 577440x^3 - 2798640x^2 + 17978160x - 12587876$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right] \begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 4 \end{array} \Big]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 4x^{10} - 4x^8 + 8x^6 + 2x^4 + 8x^2 - 6$ | $x^{12} - 36x^{10} + 234x^8 + 2728x^6 - 18834x^4 - 55800x^2 - 68694$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 4 \end{array} \Big]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 8x^{10} + 8x^8 + 8x^6 - 10x^4 - 4x^2 - 10$ | $x^{12} - 20x^{10} + 154x^8 - 556x^6 + 954x^4 - 612x^2 + 54$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & 3 \\ & \frac{23}{6} & 4 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 8x^{10} + 6x^8 + 2x^4 + 4x^2 + 6$ | $x^{12} - 8x^{10} + 28x^8 - 52x^6 + 70x^4 - 60x^2 + 22$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{23}{6} \\ & \frac{23}{6} & 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 8x^{10} + 4x^6 + 8x^4 + 8x^2 + 2$ | $x^{12} + 12x^{10} + 54x^8 + 92x^6 + 72x^4 + 24x^2 + 2$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & 4 \\ & 3 & 4 \end{array} \right]_3^2$ | T: 12,29 | $\frac{79}{24}$ |
| $x^{12} + 6x^8 - 12x^6 - 10$ | $x^{12} - 8x^{10} + 42x^8 - 108x^6 + 140x^4 - 88x^2 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 4 & 3 & \frac{19}{6} \\ 3 & \frac{19}{6} & 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{331}{96}$ |
| $x^{12} - 4x^{10} - 4x^8 - 4x^6 + 6x^4 + 8x^2 - 2$ | $x^{12} + 60x^{10} + 1350x^8 + 16800x^6 - 180900x^4 + 486000x^2 - 405000$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 4 & 3 & 3 \\ 3 & 3 & \frac{11}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} - 4x^{10} + 8x^8 - 4x^6 + 4x^4 + 4x^2 + 6$ | $x^{12} - 630x^8 + 13200x^6 - 56700x^4 - 499500x^2 - 2756250$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 4 & 2 & 3 \\ 3 & 3 & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} + 8x^8 - 4x^6 + 6x^4 + 6$ | $x^{12} + 20x^6 + 42x^4 + 24x^2 + 6$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{11}{3} \\ & \frac{11}{3} & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 8x^{10} + 8x^6 + 8x^4 + 8x^2 - 2$ | $x^{12} - 18x^8 - 12x^4 - 2$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & 4 \\ & 3 & 4 \end{array} \right]_3^2$ | T: 12,51 | $\frac{10}{3}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 12x^{10} + 12x^8 - 6x^4 - 14$ | $x^{12} + 28x^{10} + 250x^8 + 888x^6 + 1114x^4 + 880x^2 + 242$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \frac{11}{3}$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} - 10x^8 + 4x^6 + 6x^4 - 12x^2 - 10$ | $x^{12} - 72x^{10} + 1620x^8 - 5400x^6 - 182250x^4 + 1822500x^2 - 4556250$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \frac{23}{6}$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} + 8x^4 + 8x^2 + 6$ | $x^{12} + 6x^8 + 12x^4 + 6$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,51 | $\frac{10}{3}$ |
| $x^{12} + 2x^8 + 8x^4 + 4x^2 - 6$ | $x^{12} - 60x^{10} + 1830x^8 + 1400x^6 - 78900x^4 + 229500x^2 - 183750$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \frac{23}{6}$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 4x^{10} - 2x^8 - 4x^6 + 6x^4 - 2$ | $x^{12} + 12x^{10} + 46x^8 + 48x^6 - 36x^4 - 16x^2 - 8$ | $\left[\begin{array}{cccc} 8 & 8 & 3 & 11 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2 \frac{11}{3}$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 8x^{10} + 2x^4 + 6$ | $x^{12} + 18x^8 + 84x^4 + 24$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2 \frac{11}{3}$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 4x^{10} - 4x^8 + 8x^6 + 2x^4 + 8x^2 + 2$ | $x^{12} - 12x^{10} + 52x^8 - 96x^6 + 70x^4 - 24x^2 + 2$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \frac{11}{3}$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 4x^{10} + 4x^8 + 4x^6 + 8x^4 + 8x^2 - 2$ | $x^{12} + 20x^{10} + 144x^8 + 396x^6 + 220x^4 - 242$ | $\left[\begin{array}{cccc} 4 & 4 & 3 & 19 \\ 3 & 3 & 3 & 6 \end{array} \right]_3^2 \frac{19}{6}$ | T: 12,105 | $\frac{331}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 4x^{10} - 4x^8 + 4x^4 + 4x^2 + 6$ | $x^{12} + 32x^{10} + 450x^8 + 3588x^6 + 17032x^4 + 45276x^2 + 52822$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 8x^{10} + 14x^8 - 12x^6 - 2x^4 + 12x^2 - 10$ | $x^{12} + 72x^{10} + 1620x^8 + 5400x^6 - 182250x^4 - 1822500x^2 - 4556250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 6x^8 - 4x^6 + 4x^4 - 4x^2 + 2$ | $x^{12} + 12x^{10} + 96x^8 + 448x^6 + 1032x^4 + 1012x^2 + 242$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 8x^{10} - 6x^4 + 8x^2 - 6$ | $x^{12} - 6x^8 + 44x^4 - 88$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 10$ | $x^{12} - 54$ | $\left[\begin{array}{ccc} 2 & 3 & 4 \\ 3 & 4 & 3 \end{array} \right]_3^2$ | T: 12,14 | $\frac{37}{12}$ |
| $x^{12} - 4x^6 - 6x^4 - 4x^2 - 2$ | $x^{12} + 12x^{10} + 48x^8 + 92x^6 + 78x^4 + 36x^2 - 2$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 4x^{10} + 4x^8 - 2$ | $x^{12} + 12x^{10} + 60x^8 + 160x^6 + 240x^4 + 192x^2 - 98$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 19 & 19 & 6 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,134 | $\frac{667}{192}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 16x^{10} - 2x^8 - 12x^6 - 2x^4 - 4x^2 - 10$ | $x^{12} - 48x^{10} - 72x^9 + 204x^8 + 2160x^7 + 11468x^6 - 2088x^5 - 129216x^4 - 244320x^3 - 186672x^2 - 65448x - 8750$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 16x^{10} - 4x^8 - 12x^6 - 2x^4 + 16x^2 + 10$ | $x^{12} - 36x^8 + 148x^6 - 186x^4 + 90$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 11 & 11 & 4 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 4x^{10} - 2x^8 - 4x^6 + 6x^4 + 6$ | $x^{12} - 8x^{10} + 36x^8 - 84x^6 + 106x^4 - 72x^2 + 22$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 11 & 11 & 4 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 6x^8 + 2$ | $x^{12} + 18x^8 - 12x^4 + 2$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 4 \\ 4 & 4 & 4 \end{array} \right]_3^2$ | T: 12,51 | $\frac{10}{3}$ |
| $x^{12} + 2x^8 + 8x^6 + 2$ | $x^{12} + 22x^8 + 132x^4 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{643}{192}$ |
| $x^{12} + 2x^8 + 4x^6 + 8x^4 + 8x^2 + 6$ | $x^{12} - 4x^{11} - 14x^{10} + 108x^9 - 87x^8 - 728x^7 + 1996x^6 - 168x^5 - 6461x^4 + 9700x^3 + 986x^2 - 14284x + 13997$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 19 & 19 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,99 | $\frac{331}{96}$ |
| $x^{12} - 4x^{10} + 4x^8 + 6x^4 - 4x^2 + 6$ | $x^{12} + 198x^8 - 1452x^6 + 1210x^4 + 5324x^2 + 2662$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 4x^{10} - 4x^6 - 2x^4 + 8x^2 + 2$ | $x^{12} + 4x^{10} + 224x^8 + 924x^6 + 1430x^4 + 968x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 2 & 4 & 4 \\ 3 & 4 & 3 \end{array} \right]_3$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} - 4x^{10} + 4x^8 + 8x^6 - 4x^4 - 4x^2 + 6$ | $x^{12} + 12x^{10} + 76x^8 + 504x^6 + 2292x^4 + 4708x^2 + 3718$ | $\left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 2 & 4 & 4 \\ 3 & 4 & 3 \end{array} \right]_3$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} - 4x^{10} + 2x^8 + 4x^6 + 12x^4 + 12x^2 + 14$ | $x^{12} + 60x^{10} + 810x^8 + 2400x^6 - 8100x^4 - 162000x^2 - 405000$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 2 & 4 & 4 \\ 3 & 4 & 3 \end{array} \right]_3$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^{10} + 16x^8 - 8x^4 + 8x^2 + 14$ | $x^{12} - 2x^8 + 44x^4 - 242$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 3 & 3 \\ 4 & 4 & 4 \end{array} \right]_3$ | T: 12,51 | $\frac{10}{3}$ |
| $x^{12} + 2x^8 + 4x^6 + 4x^4 - 4x^2 + 2$ | $x^{12} - 16x^{10} + 90x^8 - 220x^6 + 308x^4 - 484x^2 + 242$ | $\left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 2 & 4 & 4 \\ 3 & 4 & 3 \end{array} \right]_3$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 4x^{10} + 12x^8 + 4x^6 - 10x^4 + 12x^2 - 14$ | $x^{12} - 16x^{10} + 106x^8 - 352x^6 + 550x^4 - 484x^2 + 242$ | $\left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 2 & 4 & 4 \\ 3 & 4 & 3 \end{array} \right]_3$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} - 8x^8 - 4x^6 + 6x^4 + 8x^2 - 14$ | $x^{12} - 180x^8 - 1200x^6 + 17280x^2 + 34848$ | $\left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 2 & 4 & 4 \\ 3 & 4 & 3 \end{array} \right]_3$ | T: 12,94 | $\frac{355}{96}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 4x^{10} + 4x^6 + 8x^4 + 4x^2 - 6$ | $x^{12} + 12x^{10} + 72x^8 + 252x^6 + 480x^4 + 396x^2 - 6$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} & & 2 \\ & & \frac{23}{6} \\ & & 4 \end{array} \begin{array}{c}]^2 \\ 4 \\]_3$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} - 12x^{10} + 2x^8 + 14x^4 + 16x^2 - 10$ | $x^{12} - 28x^{10} + 306x^8 - 1672x^6 + 4642x^4 - 5808x^2 + 2662$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{4}{3} & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} & & \frac{8}{3} \\ & & 3 \\ & & 3 \end{array} \begin{array}{ccc} & & 3 \\ & & \frac{11}{3} \\ & & 4 \end{array} \begin{array}{c}]^2 \\ 4 \\]_3$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 12x^{10} - 14x^8 + 16x^6 + 8x^4 - 8x^2 - 10$ | $x^{12} + 4x^{10} + 22x^8 - 24x^6 - 12x^4 + 40x^2 + 22$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{4}{3} & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} & & 3 \\ & & \frac{19}{6} \\ & & 6 \end{array} \begin{array}{ccc} & & 4 \\ & & \frac{19}{6} \\ & & 4 \end{array} \begin{array}{c}]^2 \\ 4 \\]_3$ | T: 12,142 | $\frac{667}{192}$ |
| $x^{12} - 4x^{10} + 2x^8 + 8x^6 + 8x^4 + 8x^2 + 2$ | $x^{12} - 20x^{10} + 156x^8 - 592x^6 + 1056x^4 - 616x^2 + 242$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{4}{3} & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} & & 3 \\ & & \frac{19}{6} \\ & & 6 \end{array} \begin{array}{ccc} & & 4 \\ & & \frac{19}{6} \\ & & 4 \end{array} \begin{array}{c}]^2 \\ 4 \\]_3$ | T: 12,134 | $\frac{667}{192}$ |
| $x^{12} - 8x^{10} + 8x^8 - 8x^6 + 4x^4 - 12x^2 - 10$ | $x^{12} - 44x^{10} + 660x^8 - 3168x^6 - 7832x^4 + 62436x^2 + 130438$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 8 \\ & \frac{4}{3} & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} & & \frac{8}{3} \\ & & 3 \\ & & 3 \end{array} \begin{array}{ccc} & & 3 \\ & & \frac{23}{6} \\ & & 6 \end{array} \begin{array}{ccc} & & 4 \\ & & \frac{23}{6} \\ & & 4 \end{array} \begin{array}{c}]^2 \\ 4 \\]_3$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 2x^4 + 6$ | $x^{12} - 66x^4 + 2662$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} & & \frac{11}{3} \\ & & 3 \\ & & 4 \end{array} \begin{array}{c}]^2 \\ 4 \\]_3$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 4x^{10} - 2x^8 + 2x^4 + 8x^2 - 6$ | $x^{12} - 36x^{10} + 414x^8 - 1000x^6 - 13110x^4 + 99000x^2 - 205350$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{4}{3} & 3 \\ & & 3 \end{array} \right]_3 \begin{array}{ccc} & & \frac{8}{3} \\ & & 3 \\ & & 3 \end{array} \begin{array}{ccc} & & 3 \\ & & \frac{11}{3} \\ & & 4 \end{array} \begin{array}{c}]^2 \\ 4 \\]_3$ | T: 12,222 | $\frac{2851}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 4x^6 - 2$ | $x^{12} - 12x^{10} + 34x^8 - 60x^6 + 48x^4 - 16x^2 - 2$ | $\begin{bmatrix} 3 & 4 \\ 3 & 4 \end{bmatrix}_3^2$ | T: 12,1 | $\frac{35}{12}$ |
| $x^{12} - 4x^{10} - 4x^8 + 8x^6 + 2x^4 + 8x^2 + 2$ | $x^{12} + 12x^{10} + 52x^8 + 96x^6 + 70x^4 + 24x^2 + 2$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 & 3 & 3 & 11 & 11 & 4 \\ 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} - 4x^{10} + 8x^8 + 4x^6 + 8x^4 - 4x^2 + 2$ | $x^{12} + 6x^8 - 8x^6 + 24x^4 - 36x^2 + 18$ | $\begin{bmatrix} 2 & 8 & 8 & 3 & 3 & 23 & 23 & 4 \\ 3 & 3 & 3 & 3 & 3 & 6 & 6 & 3 \end{bmatrix}_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} + 4x^6 + 2$ | $x^{12} + 8x^{10} + 32x^8 + 52x^6 + 40x^4 + 16x^2 + 2$ | $\begin{bmatrix} 3 & 4 \\ 3 & 4 \end{bmatrix}_3^2$ | T: 12,1 | $\frac{35}{12}$ |
| $x^{12} + 4x^{10} + 4x^8 + 4x^6 - 2x^4 + 4x^2 + 2$ | $x^{12} - 44x^{10} + 660x^8 - 4356x^6 + 12342x^4 - 15972x^2 + 29282$ | $\begin{bmatrix} 8 & 8 & 3 & 3 & 23 & 23 & 4 \\ 3 & 3 & 3 & 3 & 6 & 6 & 3 \end{bmatrix}_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} - 4x^{10} - 4x^6 + 6x^4 + 2$ | $x^{12} + 20x^{10} + 144x^8 + 572x^6 + 2046x^4 + 5808x^2 + 11858$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 & 11 & 11 & 4 \\ 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 4x^8 + 4x^6 + 4x^4 + 12x^2 + 14$ | $x^{12} - 12x^8 - 84x^6 - 180x^4 - 252x^2 - 18$ | $\begin{bmatrix} 2 & 8 & 8 & 3 & 3 & 23 & 23 & 4 \\ 3 & 3 & 3 & 3 & 3 & 6 & 6 & 3 \end{bmatrix}_3^2$ | T: 12,142 | $\frac{181}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 12x^{10} - 14x^8 + 4x^6 - 12x^4 - 4x^2 - 10$ | $x^{12} - 60x^{10} + 1170x^8 - 10500x^6 + 45900x^4 - 67500x^2 - 56250$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_4 \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]_3$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^8 - 12x^6 + 14x^4 + 12x^2 + 10$ | $x^{12} - 20x^{10} + 110x^8 - 280x^6 + 420x^4 - 480x^2 + 360$ | $\left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_4 \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]_3$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 4x^{10} + 4x^8 - 2x^4 + 4x^2 - 2$ | $x^{12} + 44x^{10} + 814x^8 + 8712x^6 + 57596x^4 + 170368x^2 - 117128$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_4 \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]_3$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 16x^{10} + 2x^8 - 8x^6 + 8x^4 + 8x^2 + 10$ | $x^{12} + 14x^8 + 44x^4 - 88$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 7 & 7 \\ 3 & 3 & 3 \end{array} \right]_4 \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]_3$ | T: 12,141 | $\frac{631}{192}$ |
| $x^{12} + 8x^{10} + 8x^6 - 4x^4 - 4x^2 + 6$ | $x^{12} - 16x^{10} + 98x^8 - 308x^6 + 484x^4 - 308x^2 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_4 \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]_3$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 4x^{10} + 2x^8 - 8x^6 + 14x^4 - 4x^2 + 10$ | $x^{12} - 20x^{10} + 150x^8 - 456x^6 + 372x^4 - 88$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_4 \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]_3$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 4x^8 + 4x^6 + 4x^4 + 4x^2 - 2$ | $x^{12} + 12x^{10} + 24x^8 + 28x^6 + 24x^4 + 12x^2 - 2$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_4 \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]_3$ | T: 12,142 | $\frac{181}{48}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} - 4x^{10} + 12x^8 + 12x^6 + 14x^4 + 12x^2 + 10$ | $x^{12} + 12x^{10} - 30x^8 - 56x^6 + 114x^4 - 60x^2 + 10$ | $\left[\begin{array}{ccc} 8 & 3 & 23 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} - 4x^{10} + 6x^8 - 4x^6 + 8x^4 + 8x^2 + 6$ | $x^{12} + 12x^{10} + 66x^8 + 208x^6 + 396x^4 + 432x^2 + 600$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,94 | $\frac{319}{96}$ |
| $x^{12} + 4x^{10} - 2x^8 + 4x^6 + 6x^4 + 6$ | $x^{12} - 24x^{10} + 220x^8 - 1012x^6 + 2662x^4 - 3872x^2 + 2662$ | $\left[\begin{array}{ccc} 8 & 3 & 11 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} - 2x^8 + 8x^6 - 2x^4 + 4x^2 + 2$ | $x^{12} - 8x^{10} + 132x^6 + 594x^4 + 660x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 4x^{10} - 6x^8 - 4x^6 + 2$ | $x^{12} - 24x^{10} + 180x^8 - 788x^6 + 2808x^4 - 6000x^2 + 50$ | $\left[\begin{array}{ccc} 4 & 4 & 5 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,94 | $\frac{301}{96}$ |
| $x^{12} + 4x^{10} + 4x^8 + 4x^4 + 4x^2 - 2$ | $x^{12} + 8x^{10} + 26x^8 + 20x^6 - 8x^4 - 4x^2 - 2$ | $\left[\begin{array}{ccc} 8 & 3 & 23 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} - 4x^{10} + 2x^8 + 16x^6 + 6x^4 - 4x^2 - 14$ | $x^{12} - 4x^{10} - 38x^8 + 40x^6 + 1574x^4 + 6820x^2 + 11858$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 4x^{10} - 6x^8 - 12x^6 + 6x^4 - 12x^2 - 10$ | $x^{12} + 96x^{10} + 306x^8 - 5484x^6 - 9774x^4 + 59940x^2 - 334890$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 & 3 & 23 & 23 & 4 \\ 3 & 3 & 3 & 3 & 3 & 6 & 6 & 6 & 3 \end{bmatrix}_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 4x^{10} - 4x^8 + 4x^6 - 2x^4 + 8x^2 - 6$ | $x^{12} + 28x^{10} + 250x^8 + 976x^6 + 1884x^4 + 1936x^2 - 88$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 11 & 4 \\ 3 & 3 & 3 & 3 & 3 & 3 & 4 \end{bmatrix}_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 4x^{10} - 2x^8 + 4x^6 - 6x^4 + 4x^2 + 2$ | $x^{12} - 4x^{11} - 54x^{10} + 260x^9 + 1003x^8 - 6792x^7 - 3144x^6 + 79464x^5 - 108915x^4 - 303396x^3 + 1062630x^2 - 1162596x + 441453$ | $\begin{bmatrix} 4 & 4 & 2 & 8 & 8 & 3 & 23 & 23 & 4 \\ 3 & 3 & 3 & 3 & 3 & 6 & 6 & 6 & 3 \end{bmatrix}_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} - 6x^8 + 2x^4 - 4x^2 + 6$ | $x^{12} + 4x^{10} + 90x^8 + 264x^6 + 286x^4 + 132x^2 + 22$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 23 & 23 & 4 \\ 3 & 3 & 3 & 3 & 3 & 6 & 6 & 3 \end{bmatrix}_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 4x^{10} - 14x^8 - 8x^6 + 16x^4 + 16x^2 - 10$ | $x^{12} - 8x^{10} + 2x^8 + 64x^6 + 140x^4 + 32x^2 + 88$ | $\begin{bmatrix} 4 & 4 & 2 & 3 & 19 & 4 \\ 3 & 3 & 6 & 6 & 6 & 3 \end{bmatrix}_3^2$ | T: 12,142 | $\frac{667}{192}$ |
| $x^{12} - 4x^6 - 2x^4 - 12x^2 - 14$ | $x^{12} + 24x^{10} + 72x^8 + 84x^6 + 54x^4 + 36x^2 + 18$ | $\begin{bmatrix} 8 & 8 & 3 & 23 & 23 & 4 \\ 3 & 3 & 6 & 6 & 6 & 3 \end{bmatrix}_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 4x^{10} - 10x^8 + 12x^6 - 12x^4 - 4x^2 + 10$ | $x^{12} - 16x^{10} + 20x^8 + 352x^6 - 352x^4 - 4356x^2 - 2662$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 4 \\ 6 \end{array} \Big]^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 4x^{10} + 6x^8 + 4x^2 + 2$ | $x^{12} - 4x^{10} - 2x^8 + 16x^6 + 24x^4 + 12x^2 + 2$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 4 \\ 6 \end{array} \Big]^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} - 12x^{10} + 10x^8 + 8x^6 + 6x^4 - 12x^2 + 10$ | $x^{12} + 4x^{10} - 38x^8 - 216x^6 - 274x^4 - 132x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 4 \\ 6 \end{array} \Big]^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 2x^8 - 2x^4 - 2$ | $x^{12} + 22x^8 - 1210x^4 - 29282$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{c} 11 \\ 3 \end{array} \begin{array}{c} 4 \\ 6 \end{array} \Big]^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} - 12x^{10} + 2x^8 - 8x^6 + 16x^4 + 16x^2 - 10$ | $x^{12} + 8x^{10} + 2x^8 - 64x^6 + 140x^4 - 32x^2 + 88$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{c} 19 \\ 6 \end{array} \begin{array}{c} 4 \\ 6 \end{array} \Big]^2$ | T: 12,142 | $\frac{667}{192}$ |
| $x^{12} - 4x^{10} + 2x^8 - 4x^6 - 4x^4 - 4x^2 - 2$ | $x^{12} + 48x^{10} + 918x^8 + 13980x^6 + 21240x^4 - 1001700x^2 - 4774050$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 4 \\ 6 \end{array} \Big]^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 4x^{10} - 2x^8 + 4x^6 - 2x^4 + 8x^2 + 6$ | $x^{12} - 12x^{10} + 62x^8 - 176x^6 + 284x^4 - 240x^2 + 88$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{c} 11 \\ 3 \end{array} \begin{array}{c} 4 \\ 6 \end{array} \Big]^2$ | T: 12,94 | $\frac{355}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 4x^{10} - 4x^8 + 8x^6 + 8x^4 + 8x^2 - 2$ | $x^{12} - 12x^{10} + 46x^8 + 24x^6 - 576x^4 + 1080x^2 - 162$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 2 & 3 & 19 \\ 3 & 6 & 6 \end{array} \begin{array}{c}]^2 \\ 4 \\]_3$ | T: 12,134 | $\frac{667}{192}$ |
| $x^{12} + 4x^{10} + 6x^8 - 4x^6 + 4x^4 - 4x^2 - 6$ | $x^{12} + 4x^{10} - 2x^8 - 36x^6 - 28x^4 + 132x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \begin{array}{c}]^2 \\ 4 \\]_3$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^8 + 4x^6 + 6x^4 - 4x^2 + 2$ | $x^{12} - 24x^{10} + 156x^8 - 192x^7 - 648x^6 + 264x^5 - 1188x^4 - 3072x^3 - 840x^2 - 24x - 2$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \begin{array}{c}]^2 \\ 4 \\]_3$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} - 12x^{10} - 4x^8 - 4x^6 - 10x^4 + 12x^2 - 14$ | $x^{12} + 16x^{10} + 106x^8 + 352x^6 + 550x^4 + 484x^2 + 242$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \begin{array}{c}]^2 \\ 4 \\]_3$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} - 4x^{10} - 4x^8 + 8x^6 - 2x^4 + 4x^2 + 6$ | $x^{12} + 20x^{10} + 158x^8 + 536x^6 + 764x^4 + 352x^2 + 88$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \begin{array}{c}]^2 \\ 4 \\]_3$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} - 4x^{10} + 6x^8 + 4x^6 + 6$ | $x^{12} + 12x^{10} + 210x^8 + 2140x^6 + 17820x^4 - 29448x^2 + 13254$ | $\left[\begin{array}{ccc} 4 & 4 & 5 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 5 & 3 & 4 \\ 3 & 3 & 3 \end{array} \begin{array}{c}]^2 \\ 4 \\]_3$ | T: 12,94 | $\frac{301}{96}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} - 8x^{10} + 2x^8 - 8x^6 + 4x^2 - 14$ | $x^{12} - 36x^{10} + 486x^8 - 1728x^6 + 2916x^4 - 2916x^2 + 1458$ | $\left[\begin{array}{cccc} 4 & 2 & 8 & 23 \\ 3 & 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 2x^8 + 6x^4 + 8x^2 - 2$ | $x^{12} - 4x^8 + 6x^4 - 2$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 11 \\ & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} - 4x^{10} - 4x^8 + 4x^6 - 2x^4 + 8x^2 + 2$ | $x^{12} + 12x^{10} + 62x^8 + 176x^6 + 244x^4 + 80x^2 + 8$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 11 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 4x^{10} + 8x^8 + 4x^6 - 4x^4 + 4x^2 - 2$ | $x^{12} - 144x^{10} - 48x^9 + 7632x^8 + 17424x^7 - 60672x^6 - 43848x^5 + 1246968x^4 + 4330440x^3 + 6164748x^2 + 4059072x + 943866$ | $\left[\begin{array}{cccc} 4 & 2 & 8 & 23 \\ 3 & 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 8x^{10} - 8x^8 + 8x^6 + 16x^4 - 12x^2 + 10$ | $x^{12} - 12x^{10} + 42x^8 - 916x^6 + 1644x^4 - 1020x^2 + 10$ | $\left[\begin{array}{cccc} 8 & 8 & 3 & 23 \\ 3 & 3 & 6 & 6 \end{array} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} - 4x^{10} - 6x^8 - 8x^6 + 4x^4 - 12x^2 - 10$ | $x^{12} + 4x^{10} + 4x^8 + 4x^6 + 24x^4 + 44x^2 + 22$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 23 \\ 3 & 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} + 8x^{10} - 10x^8 + 12x^6 - 2x^4 + 4x^2 + 14$ | $x^{12} + 60x^{10} - 930x^8 - 1100x^6 + 17850x^4 - 109500x^2 - 31250$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{23}{6} \quad 3 \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} + 16x^8 + 10$ | $x^{12} - 8x^8 + 16x^4 - 22$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad 3 \quad 4 \right]_3^2$ | T: 12,51 | $\frac{151}{48}$ |
| $x^{12} - 4x^{10} - 4x^8 - 12x^6 + 2x^4 - 12x^2 + 14$ | $x^{12} + 4x^{10} - 4x^8 - 44x^6 - 62x^4 - 20x^2 - 2$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad 3 \quad \frac{19}{6} \quad 4 \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 4x^{10} - 2x^8 + 8x^6 - 6$ | $x^{12} - 36x^{10} - 144x^8 - 264x^6 - 288x^4 - 144x^2 - 6$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad 3 \quad \frac{19}{6} \quad 3 \quad 4 \right]_3^2$ | T: 12,142 | $\frac{667}{192}$ |
| $x^{12} + 4x^{10} + 6x^8 - 4x^6 + 6$ | $x^{12} - 12x^{10} + 210x^8 - 2140x^6 + 17820x^4 + 29448x^2 + 13254$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 3 \quad \frac{5}{3} \quad 3 \quad 4 \right]_3^2$ | T: 12,94 | $\frac{301}{96}$ |
| $x^{12} - 8x^{10} + 2x^8 - 12x^6 - 8x^4 + 8x^2 + 14$ | $x^{12} - 20x^{10} + 128x^8 - 236x^6 + 64x^4 - 1232x^2 - 242$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 3 \quad \frac{19}{6} \quad 3 \quad 4 \right]_3^2$ | T: 12,99 | $\frac{331}{96}$ |
| $x^{12} + 4x^{10} + 2x^8 - 2x^4 + 8x^2 + 6$ | $x^{12} + 12x^{10} + 56x^8 + 128x^6 + 150x^4 + 88x^2 + 22$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{11}{3} \quad 3 \quad \frac{11}{3} \quad 4 \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 8x^{10} + 6x^8 - 4x^6 + 4x^4 - 4x^2 + 6$ | $x^{12} - 8x^{10} + 44x^8 - 264x^6 + 1452x^4 - 3388x^2 + 2662$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 23 \\ & & 6 \end{array} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 6x^8 - 4x^6 + 4x^4 - 4x^2 + 6$ | $x^{12} + 4x^{10} + 8x^8 + 24x^6 + 56x^4 + 52x^2 + 22$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 23 \\ & & 6 \end{array} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 8x^{10} + 8x^8 + 4x^6 - 2x^4 + 2$ | $x^{12} + 12x^{10} + 42x^8 + 16x^6 - 84x^4 + 48x^2 + 8$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 11 \\ & & 3 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 16x^8 - 12x^6 - 8x^4 + 8x^2 - 14$ | $x^{12} - 20x^{10} + 158x^8 - 580x^6 + 984x^4 - 792x^2 + 242$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \\ & & 4 \end{array} \right]_3^2$ | T: 12,29 | $\frac{79}{24}$ |
| $x^{12} + 4x^{10} + 6x^8 + 4x^6 + 8x^4 + 8x^2 - 2$ | $x^{12} - 12x^{10} + 42x^8 - 16x^6 - 84x^4 - 48x^2 - 392$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,94 | $\frac{319}{96}$ |
| $x^{12} + 4x^{10} - 2x^8 + 8x^6 - 6x^4 + 4x^2 + 6$ | $x^{12} - 810x^8 - 12600x^6 - 72900x^4 - 162000x^2 - 81000$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \\ & & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 6x^8 - 12x^4 + 12x^2 + 14$ | $x^{12} - 4x^{10} - 44x^8 + 316x^6 - 700x^4 + 660x^2 - 242$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 2x^8 + 4x^6 + 4x^4 + 4x^2 - 2$ | $x^{12} + 16x^{10} + 86x^8 + 132x^6 - 220x^4 + 484x^2 - 242$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 4 \\ 6 \end{array} \Big]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 8x^8 - 4x^6 + 4x^4 - 4x^2 - 2$ | $x^{12} - 36x^{10} - 2196x^8 + 66660x^6 + 1690200x^4 - 31900500x^2 - 463601250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 4 \\ 6 \end{array} \Big]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} + 6x^8 - 4x^6 - 2x^4 + 8x^2 - 6$ | $x^{12} + 20x^{10} + 144x^8 + 396x^6 - 66x^4 - 1936x^2 - 2662$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 11 \\ 3 \end{array} \begin{array}{c} 11 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \Big]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} - 4x^{10} - 6x^8 + 4x^6 - 2x^4 + 4x^2 - 2$ | $x^{12} + 108x^{10} + 4356x^8 + 78960x^6 + 555120x^4 - 648000x^2 - 18727200$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 4 \\ 6 \end{array} \Big]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} + 2x^8 + 8x^6 - 6x^4 + 8x^2 + 2$ | $x^{12} + 30x^8 + 308x^4 + 968$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 11 \\ 3 \end{array} \begin{array}{c} 11 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \Big]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 4x^{10} - 6x^8 + 4x^6 + 6$ | $x^{12} - 4x^{10} + 22x^8 - 68x^6 + 100x^4 - 72x^2 + 22$ | $\left[\begin{array}{ccc} 3 & 4 & 3 \end{array} \right]_3^2$ | T: 12,1 | $\frac{35}{12}$ |
| $x^{12} + 4x^8 - 4x^6 - 4x^4 - 4x^2 + 6$ | $x^{12} - 96x^8 - 192x^7 + 240x^6 + 1104x^5 + 1434x^4 + 960x^3 + 360x^2 + 72x + 6$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 4 \\ 6 \end{array} \Big]_3^2$ | T: 12,142 | $\frac{181}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 4x^{10} + 4x^2 - 6$ | $x^{12} - 12x^{10} + 30x^8 + 116x^6 - 216x^4 + 180x^2 + 90$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \\ 3 \end{array} \right]^2_3$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 4x^{10} + 4x^8 + 4x^6 - 6x^4 - 4x^2 - 2$ | $x^{12} - 20x^{10} + 188x^8 - 396x^6 - 22x^4 + 484x^2 - 242$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \\ 3 \end{array} \right]^2_3$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 12x^{10} - 8x^6 - 14x^4 + 8x^2 + 14$ | $x^{12} - 60x^{10} + 840x^8 + 6400x^6 - 242850x^4 + 1977000x^2 - 5281250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \\ 3 \end{array} \begin{array}{c} 11 \\ 11 \\ 3 \end{array} \left[\begin{array}{c} 4 \\ 4 \\ 3 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} - 4x^{10} - 2x^8 + 8x^6 + 2x^4 + 8x^2 + 2$ | $x^{12} - 12x^{10} + 54x^8 + 120x^6 + 18x^4 - 72x^2 + 18$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \\ 3 \end{array} \begin{array}{c} 11 \\ 11 \\ 3 \end{array} \left[\begin{array}{c} 4 \\ 4 \\ 3 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 4x^{10} + 2x^8 + 8x^4 + 8x^2 - 2$ | $x^{12} - 4x^{10} - 26x^8 + 92x^4 - 200x^2 - 2$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 19 \\ 19 \\ 6 \end{array} \begin{array}{c} 4 \\ 4 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \\ 3 \end{array} \right]^2_3$ | T: 12,142 | $\frac{667}{192}$ |
| $x^{12} - 6x^8 + 2x^4 - 4x^2 + 6$ | $x^{12} + 44x^{10} + 770x^8 + 5720x^6 + 16852x^4 + 15488x^2 + 10648$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 23 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \\ 3 \end{array} \right]^2_3$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 4x^{10} + 6x^8 - 8x^4 + 4x^2 + 10$ | $x^{12} - 4x^{10} - 28x^8 + 196x^6 - 404x^4 + 308x^2 - 22$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 23 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \\ 3 \end{array} \right]^2_3$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} - 2x^4 + 4x^2 - 2$ | $x^{12} + 24x^8 - 8x^6 - 18x^4 + 12x^2 - 2$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 23 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \\ 3 \end{array} \right]^2_3$ | T: 12,134 | $\frac{181}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} + 4x^{10} - 4x^8 + 8x^6 + 8x^4 + 8x^2 - 10$ | $x^{12} + 4x^{10} + 50x^8 + 176x^6 + 260x^4 + 184x^2 + 54$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & \frac{19}{6} \end{array} \right]_3^2 \left[\begin{array}{ccc} 19 & 4 & 4 \\ 6 & & \end{array} \right]_3$ | T: 12,134 | $\frac{667}{192}$ |
| $x^{12} + 4x^{10} + 2x^8 + 4x^6 + 2$ | $x^{12} + 24x^{10} + 180x^8 + 788x^6 + 2808x^4 + 6000x^2 + 50$ | $\left[\begin{array}{ccc} 4 & 4 & 5 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 5 & 3 & 4 \\ 3 & & \end{array} \right]_3$ | T: 12,94 | $\frac{301}{96}$ |
| $x^{12} + 4x^{10} - 2x^8 + 4x^6 - 2x^4 + 8x^2 - 2$ | $x^{12} + 4x^{10} + 18x^8 - 48x^6 - 92x^4 - 48x^2 - 8$ | $\left[\begin{array}{ccc} 8 & 3 & 3 \\ 3 & 3 & \frac{11}{3} \end{array} \right]_3^2 \left[\begin{array}{ccc} 11 & 4 & 4 \\ 3 & & \end{array} \right]_3$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} - 4x^{10} + 2x^8 - 4x^6 + 4x^4 - 4x^2 + 6$ | $x^{12} + 60x^{10} + 1170x^8 + 10500x^6 + 45900x^4 + 67500x^2 - 56250$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & \end{array} \right]_3$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 6x^8 + 4x^6 + 6x^4 + 8x^2 - 2$ | $x^{12} + 120x^{10} - 630x^8 - 8700x^6 - 23850x^4 - 27000x^2 - 11250$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 11 & 4 & 4 \\ 3 & & \end{array} \right]_3$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} - 8x^{10} + 6x^8 - 8x^6 + 6x^4 + 8x^2 + 14$ | $x^{12} - 30x^8 + 308x^4 - 968$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 11 & 4 & 4 \\ 3 & & \end{array} \right]_3$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} - 4x^{10} + 6x^8 + 8x^4 + 4x^2 - 6$ | $x^{12} - 44x^{10} + 814x^8 - 7744x^6 + 36300x^4 - 63888x^2 - 10648$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 23 & 4 & 4 \\ 6 & 6 & \end{array} \right]_3$ | T: 12,142 | $\frac{181}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 4x^{10} - 4x^8 - 4x^6 - 2x^4 + 8x^2 - 6$ | $x^{12} - 28x^{10} + 250x^8 - 976x^6 + 1884x^4 - 1936x^2 - 88$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 4 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 16x^8 + 12x^6 - 8x^4 + 8x^2 - 14$ | $x^{12} + 20x^{10} + 158x^8 + 580x^6 + 984x^4 + 792x^2 + 242$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 3 & 3 & 4 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,29 | $\frac{79}{24}$ |
| $x^{12} - 4x^{10} + 8x^6 + 4x^2 - 6$ | $x^{12} - 12x^{10} + 48x^8 - 80x^6 + 120x^4 - 300x^2 + 250$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 6 \end{array} \right]_3^2 \left[\begin{array}{ccc} 4 & 4 & 4 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 4x^{10} + 4x^8 + 4x^6 + 16x^2 + 10$ | $x^{12} + 20x^{10} + 110x^8 - 80x^6 - 180x^4 - 240x^2 + 360$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 6 \\ 6 & 6 & 6 \end{array} \right]_3^2 \left[\begin{array}{ccc} 4 & 4 & 4 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,105 | $\frac{331}{96}$ |
| $x^{12} - 8x^8 - 4x^6 + 2x^4 + 4x^2 + 14$ | $x^{12} + 16x^{10} + 64x^8 + 220x^6 - 286x^4 + 484x^2 - 242$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 6 \end{array} \right]_3^2 \left[\begin{array}{ccc} 4 & 4 & 4 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 8x^{10} + 4x^6 - 4x^4 + 4x^2 - 2$ | $x^{12} - 60x^{10} + 2490x^8 + 200x^6 - 68100x^4 + 145500x^2 - 31250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 6 \end{array} \right]_3^2 \left[\begin{array}{ccc} 4 & 4 & 4 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 4x^{10} - 14x^8 + 16x^6 + 2x^4 - 12x^2 - 10$ | $x^{12} - 4x^{10} + 8x^8 - 12x^6 + 30x^4 - 44x^2 + 22$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 6 \end{array} \right]_3^2 \left[\begin{array}{ccc} 4 & 4 & 4 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} + 8x^{10} - 6$ | $x^{12} - 2x^8 + 12x^4 - 88$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,51 | $\frac{151}{48}$ |
| $x^{12} + 8x^{10} + 8x^6 - 2x^4 + 4x^2 + 6$ | $x^{12} + 8x^{10} + 18x^8 - 104x^6 - 492x^4 - 432x^2 + 216$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} - 8x^{10} + 6x^8 + 4x^6 + 6x^4 + 4x^2 - 10$ | $x^{12} + 36x^{10} - 180x^8 - 6000x^6 - 33750x^4 - 67500x^2 - 56250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 8x^8 + 16x^6 + 10x^4 + 4x^2 + 10$ | $x^{12} - 12x^{10} + 42x^8 - 72x^6 + 12x^4 - 24$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 8x^{10} - 10x^8 + 16x^6 - 8x^4 + 8x^2 - 10$ | $x^{12} + 44x^8 + 616x^4 + 2662$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,141 | $\frac{631}{192}$ |
| $x^{12} + 4x^6 - 2x^4 + 4x^2 + 2$ | $x^{12} + 12x^{10} + 30x^8 + 40x^6 + 30x^4 + 12x^2 + 2$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 8x^8 + 8x^4 + 4x^2 + 2$ | $x^{12} - 18x^8 + 12x^6 + 72x^4 + 36x^2 + 18$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 6x^8 + 2x^4 + 4x^2 + 6$ | $x^{12} + 16x^{10} + 110x^8 + 440x^6 + 1210x^4 + 2420x^2 + 2662$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 4x^{10} - 4x^8 + 12x^6 + 14x^4 - 4x^2 + 10$ | $x^{12} - 24x^{10} - 300x^8 - 812x^6 - 606x^4 - 60x^2 + 10$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \\ 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} - 4x^{10} + 14x^8 - 8x^6 + 16x^4 + 16x^2 + 10$ | $x^{12} - 18x^8 - 96x^6 - 756x^4 - 2880x^2 - 24$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 3 \\ 3 \\ 3 \end{array} \left[\begin{array}{c} 19 \\ 19 \\ 4 \end{array} \right]_3^2$ | T: 12,142 | $\frac{667}{192}$ |
| $x^{12} - 4x^{10} - 10x^8 - 8x^6 + 8x^4 + 4x^2 + 10$ | $x^{12} - 20x^{10} + 158x^8 - 624x^6 + 1292x^4 - 1232x^2 - 88$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 3 \\ 3 \\ 3 \end{array} \left[\begin{array}{c} 23 \\ 23 \\ 4 \end{array} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} + 8x^{10} + 6x^8 + 4x^6 - 2x^4 + 4x^2 - 2$ | $x^{12} - 60x^{10} + 510x^8 + 2500x^6 + 2850x^4 - 1500x^2 - 1250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 8 \\ 3 \end{array} \left[\begin{array}{c} 3 \\ 3 \\ 3 \end{array} \right] \begin{array}{c} 23 \\ 23 \\ 4 \end{array} \left[\begin{array}{c} 4 \\ 4 \\ 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} + 6x^8 - 4x^6 + 6$ | $x^{12} + 8x^{10} + 42x^8 + 108x^6 + 140x^4 + 88x^2 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 3 \\ 3 \\ 3 \end{array} \left[\begin{array}{c} 19 \\ 19 \\ 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{331}{96}$ |
| $x^{12} + 8x^8 - 4x^6 + 6x^4 - 4x^2 + 2$ | $x^{12} + 12x^{10} + 160x^8 + 612x^6 + 882x^4 + 540x^2 + 162$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 23 \\ 23 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \\ 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} - 4x^6 - 2x^4 + 4x^2 + 2$ | $x^{12} - 128x^6 - 384x^5 - 480x^4 - 320x^3 - 120x^2 - 24x - 2$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 23 \\ 23 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \\ 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 4x^{10} + 12x^8 + 12x^6 + 6x^4 + 16x^2 + 10$ | $x^{12} + 20x^{10} + 172x^8 + 764x^6 + 1670x^4 + 1408x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 4 \\ 3 & 4 & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} - 4x^{10} - 4x^8 - 4x^6 + 4x^4 + 4x^2 + 6$ | $x^{12} - 12x^{10} + 90x^8 - 456x^6 + 1312x^4 - 1892x^2 + 1078$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} + 8x^{10} + 8x^8 - 4x^6 - 2x^4 + 8x^2 + 6$ | $x^{12} - 24x^{10} + 264x^8 - 1460x^6 + 4878x^4 - 9288x^2 + 9126$ | $\left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 4 \\ 3 & 4 & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} - 8x^{10} + 16x^6 + 14x^4 + 4x^2 - 10$ | $x^{12} - 12x^{10} + 56x^8 - 136x^6 + 186x^4 - 180x^2 + 54$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 8x^{10} + 6x^8 + 6$ | $x^{12} + 10x^8 + 44x^4 + 88$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 4 & 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{643}{192}$ |
| $x^{12} + 4x^{10} - 2x^8 + 4x^6 + 4x^4 + 4x^2 - 6$ | $x^{12} + 16x^{10} + 20x^8 - 352x^6 - 352x^4 + 4356x^2 - 2662$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^{10} + 8x^8 + 8x^6 + 8x^4 + 4x^2 + 2$ | $x^{12} - 12x^{10} - 6x^8 + 44x^6 - 12x^4 - 60x^2 + 50$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} - 4x^{10} + 2x^8 - 8x^6 + 6x^4 + 12x^2 - 14$ | $x^{12} + 8x^{10} + 20x^8 - 4x^6 - 74x^4 - 36x^2 + 98$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \left[\begin{array}{cc} 2 & 4 \\ 3 & 4 \end{array} \right]_3$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 16x^{10} - 10x^8 - 2x^4 - 4x^2 + 10$ | $x^{12} - 20x^{10} - 98x^8 - 264x^6 - 286x^4 - 132x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \left[\begin{array}{cc} 2 & 4 \\ 3 & 4 \end{array} \right]_3$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 4x^{10} + 2x^8 + 4x^6 - 2x^4 + 4x^2 - 2$ | $x^{12} - 36x^{10} + 954x^8 - 8580x^6 - 128250x^4 + 1784700x^2 - 1080450$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 23 \\ 3 & 3 & 6 \end{array} \left[\begin{array}{cc} 2 & 4 \\ 3 & 4 \end{array} \right]_3$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 16x^8 + 4x^6 - 10x^4 + 4x^2 + 10$ | $x^{12} + 60x^{10} + 150x^8 + 200x^6 + 150x^4 + 60x^2 + 10$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \left[\begin{array}{cc} 2 & 4 \\ 3 & 4 \end{array} \right]_3$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 4x^{10} + 4x^6 - 2x^4 + 2$ | $x^{12} + 8x^{10} + 38x^8 + 308x^6 + 1166x^4 + 968x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{cc} 2 & 4 \\ 3 & 4 \end{array} \right]_3$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} - 8x^{10} + 12x^8 + 4x^6 + 16x^4 - 4x^2 + 10$ | $x^{12} + 12x^{10} + 126x^8 - 160x^6 - 4500x^4 - 10800x^2 - 5400$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 23 \\ 3 & 3 & 6 \end{array} \left[\begin{array}{cc} 2 & 4 \\ 3 & 4 \end{array} \right]_3$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} + 4x^8 + 4x^6 + 4x^2 + 2$ | $x^{12} - 330x^8 + 3840x^6 - 17700x^4 + 36000x^2 - 27000$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 23 \\ 3 & 3 & 6 \end{array} \left[\begin{array}{cc} 2 & 4 \\ 3 & 4 \end{array} \right]_3$ | T: 12,222 | $\frac{2899}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} + 4x^{10} - 2x^8 - 4x^6 - 2x^4 + 8x^2 + 6$ | $x^{12} - 20x^{10} + 198x^8 - 1056x^6 + 3388x^4 - 5808x^2 + 10648$ | $\left[\begin{array}{cccc} 8 & 8 & 3 & 11 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 2x^8 + 2x^4 + 4x^2 - 2$ | $x^{12} + 60x^{10} - 4700x^6 - 29430x^4 - 72900x^2 - 36450$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 12x^{10} - 14x^8 - 12x^6 + 2x^4 + 4x^2 - 14$ | $x^{12} + 12x^{10} + 90x^8 + 324x^6 + 674x^4 + 660x^2 + 242$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 8x^8 + 8x^6 + 8x^4 + 4x^2 + 2$ | $x^{12} - 18x^8 - 12x^6 + 72x^4 - 36x^2 + 18$ | $\left[\begin{array}{cccc} 8 & 8 & 3 & 23 \\ 3 & 3 & 6 & 6 \end{array} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} - 4x^{10} - 6x^8 - 8x^6 - 12x^4 + 12x^2 - 10$ | $x^{12} + 8x^{10} + 22x^8 + 32x^6 + 40x^4 + 44x^2 + 22$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 4x^{10} - 6x^8 - 4x^6 - 4x^4 + 4x^2 + 6$ | $x^{12} - 360x^8 - 5600x^6 - 28800x^4 - 48000x^2 - 16000$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 12x^{10} + 10x^8 + 12x^6 - 2x^4 - 12x^2 + 14$ | $x^{12} - 12x^{10} + 36x^8 + 2400x^6 - 40320x^4 + 388800x^2 - 1216800$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} + 16x^{10} - 2x^8 - 12x^6 - 14x^4 - 12x^2 - 14$ | $x^{12} - 16x^{10} + 102x^8 - 332x^6 + 594x^4 - 572x^2 + 242$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & & \\ 6 & & \\ & & 4 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 6x^8 + 8x^4 + 8x^2 + 2$ | $x^{12} + 4x^8 - 84x^4 + 242$ | $\left[\begin{array}{ccc} 2 & & \\ 3 & 3 & 4 \\ & & 4 \end{array} \right]_3^2$ | T: 12,14 | $\frac{37}{12}$ |
| $x^{12} + 8x^{10} + 16x^8 + 8x^6 - 10$ | $x^{12} + 8x^8 + 16x^4 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & \\ 3 & 3 & 2 \\ & & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 2 & & \\ 3 & 3 & 4 \\ & & 4 \end{array} \right]_3^2$ | T: 12,51 | $\frac{151}{48}$ |
| $x^{12} + 4x^{10} + 2x^8 + 4x^6 + 6x^4 + 8x^2 + 2$ | $x^{12} - 12x^{10} + 34x^8 - 44x^6 + 34x^4 - 16x^2 + 2$ | $\left[\begin{array}{ccc} 8 & 8 & \\ 3 & 3 & 11 \\ & & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & & \\ 3 & & 4 \\ & & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 8x^{10} + 8x^8 - 4x^6 - 2x^4 + 8x^2 - 2$ | $x^{12} + 12x^{10} - 54x^8 + 112x^6 - 108x^4 + 48x^2 - 8$ | $\left[\begin{array}{ccc} 8 & 8 & \\ 3 & 3 & 11 \\ & & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & & \\ 3 & & 4 \\ & & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 8x^8 + 4x^6 - 10x^4 - 4x^2 - 14$ | $x^{12} + 24x^{10} + 238x^8 + 1224x^6 + 3330x^4 + 4212x^2 + 1458$ | $\left[\begin{array}{ccc} 8 & 8 & \\ 3 & 3 & 23 \\ & & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & & \\ 6 & & 4 \\ & & 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 8x^{10} + 12x^8 + 16x^6 + 8x^4 - 12x^2 - 14$ | $x^{12} - 12x^{10} + 80x^8 - 264x^6 + 484x^4 - 484x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & \\ 3 & 3 & 8 \\ & & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & & \\ 3 & 3 & 23 \\ & & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & & \\ 6 & & 4 \\ & & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 12x^{10} - 12x^8 + 12x^6 - 4x^4 - 4x^2 - 10$ | $x^{12} + 12x^{10} + 90x^8 + 456x^6 + 1312x^4 + 1892x^2 + 1078$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & & \\ 6 & & 4 \\ & & 4 \end{array} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 2x^8 - 4x^6 + 2x^4 + 4x^2 + 2$ | $x^{12} + 6x^8 - 28x^6 + 42x^4 - 36x^2 + 18$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ & 3 & 3 & 3 \\ & & 23 & 23 \\ & & & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} - 12x^{10} - 14x^8 - 12x^6 + 12x^4 + 12x^2 + 14$ | $x^{12} - 36x^{10} - 240x^9 - 756x^8 + 3840x^7 + 13792x^6 + 25920x^5 - 214704x^4 - 103680x^3 + 1293120x^2 - 1697280x + 684352$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ & 3 & 3 & 3 \\ & & 3 & 3 \\ & & & 23 \\ & & & & 23 \\ & & & & & 6 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 16x^{10} + 4x^8 + 8x^6 + 10x^4 + 8x^2 - 10$ | $x^{12} - 2x^8 - 10x^4 + 22$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ & 3 & 3 & 3 \\ & & 11 & 11 \\ & & & 3 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} - 4x^{10} - 2x^8 + 4x^6 + 4x^4 - 4x^2 - 6$ | $x^{12} + 24x^{10} + 100x^8 - 792x^6 - 352x^4 + 3388x^2 - 2662$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ & 3 & 3 & 3 \\ & & 3 & 3 \\ & & & 23 \\ & & & & 23 \\ & & & & & 6 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 12x^{10} + 12x^8 + 8x^6 + 16x^4 - 10$ | $x^{12} + 36x^{10} + 432x^8 + 1728x^6 - 972x^4 - 11664x^2 + 12150$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 3 \\ & 3 & 3 & 3 \\ & & 19 & 19 \\ & & & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{667}{192}$ |
| $x^{12} + 16x^{10} + 2x^8 - 4x^6 + 16x^2 + 14$ | $x^{12} - 8x^{10} + 2x^8 - 340x^6 + 808x^4 - 352x^2 - 242$ | $\left[\begin{array}{cccc} 4 & 4 & 3 & 3 \\ & 3 & 3 & 3 \\ & & 19 & 19 \\ & & & 6 \end{array} \right]_3^2$ | T: 12,99 | $\frac{331}{96}$ |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 4x^{10} - 12x^8 - 12x^6 - 8x^4 + 10$ | $x^{12} - 12x^{10} - 372x^8 + 1028x^6 - 264x^4 - 120x^2 + 10$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right] \begin{array}{c} 19 \\ 4 \end{array} \begin{array}{c} 6 \\ 6 \end{array} \left. \vphantom{\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array}} \right]_3^2$ | T: 12,105 | $\frac{331}{96}$ |
| $x^{12} + 14x^8 - 8x^6 + 10x^4 + 12x^2 - 10$ | $x^{12} + 8x^{10} + 44x^8 + 44x^6 - 242x^4 - 484x^2 + 2662$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right] \begin{array}{c} 23 \\ 4 \end{array} \begin{array}{c} 6 \\ 6 \end{array} \left. \vphantom{\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array}} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 4x^{10} - 4x^8 + 4x^6 + 6x^4 - 4x^2 + 2$ | $x^{12} + 44x^{10} + 660x^8 + 4356x^6 + 12342x^4 + 15972x^2 + 29282$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right] \begin{array}{c} 23 \\ 4 \end{array} \begin{array}{c} 6 \\ 6 \end{array} \left. \vphantom{\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array}} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 8x^6 - 6x^4 + 8x^2 + 2$ | $x^{12} + 6x^8 + 6x^4 + 2$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 11 \\ 4 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \left. \vphantom{\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array}} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} - 4x^8 - 12x^6 - 10x^4 + 8x^2 + 10$ | $x^{12} - 20x^{10} + 130x^8 - 380x^6 + 470x^4 + 120x^2 + 10$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right] \begin{array}{c} 11 \\ 4 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \left. \vphantom{\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array}} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 8x^{10} + 4x^8 + 4x^6 + 8x^4 + 4x^2 - 6$ | $x^{12} - 12x^{10} - 24x^9 - 378x^8 + 2832x^7 - 4052x^6 - 2400x^5 + 2448x^4 + 12864x^3 - 12024x^2 - 2160x + 900$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 4 \end{array} \begin{array}{c} 6 \\ 6 \end{array} \left. \vphantom{\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array}} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 6x^8 + 8x^6 + 8x^4 + 8x^2 + 6$ | $x^{12} - 4x^8 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 7 \\ 3 \end{array} \begin{array}{c} 7 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \left. \vphantom{\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array}} \right]_3^2$ | T: 12,141 | $\frac{631}{192}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 4x^{10} + 4x^8 - 4x^2 + 2$ | $x^{12} - 8x^{10} + 88x^6 + 132x^4 + 132x^2 + 242$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 4x^{10} - 4x^8 - 4x^6 - 2x^4 - 2$ | $x^{12} - 60x^{10} + 2700x^8 - 32100x^6 + 136350x^4 - 162000x^2 - 101250$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} - 4x^{10} - 4x^8 + 8x^6 - 2$ | $x^{12} - 12x^{10} + 60x^8 - 160x^6 + 240x^4 - 192x^2 - 98$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 3 \\ 3 & 3 & 6 & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{667}{192}$ |
| $x^{12} + 4x^{10} - 6x^8 - 12x^6 - 8x^4 + 8x^2 - 14$ | $x^{12} + 36x^{10} + 126x^8 + 384x^6 + 972x^4 + 3888x^2 + 72$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,94 | $\frac{319}{96}$ |
| $x^{12} + 4x^{10} + 2x^8 - 2x^4 + 6$ | $x^{12} - 4x^{10} + 18x^8 + 16x^6 - 42x^4 + 22$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 8x^8 + 8x^6 + 8x^4 - 12x^2 - 14$ | $x^{12} + 16x^6 + 24x^4 + 12x^2 + 2$ | $\left[\begin{array}{cccc} 8 & 8 & 3 & 23 \\ 3 & 3 & 6 & 6 \end{array} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} - 12x^{10} + 4x^8 - 12x^6 + 16x^2 - 14$ | $x^{12} - 48x^{10} + 708x^8 - 576x^7 - 4324x^6 + 7992x^5 + 4884x^4 - 27264x^3 + 31848x^2 - 16560x + 3346$ | $\left[\begin{array}{cccc} 4 & 4 & 3 & 3 \\ 3 & 3 & 6 & 6 \end{array} \right]_3^2$ | T: 12,105 | $\frac{331}{96}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 4x^8 + 4x^2 + 2$ | $x^{12} + 12x^{10} + 80x^8 + 264x^6 + 484x^4 + 484x^2 + 242$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{23}{6} \frac{23}{6} \frac{4}{6} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 12x^{10} + 2x^8 - 4x^6 + 6x^4 - 4x^2 + 14$ | $x^{12} + 12x^{10} + 36x^8 - 2400x^6 - 40320x^4 - 388800x^2 - 1216800$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{23}{6} \frac{23}{6} \frac{4}{6} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 4x^{10} + 2x^8 + 8x^6 + 8x^4 - 8x^2 + 14$ | $x^{12} + 4x^{10} + 12x^8 - 88x^6 - 60x^4 + 24x^2 - 2$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{4}{3} \frac{2}{3} \frac{3}{3} \frac{19}{6} \frac{19}{6} \frac{4}{6} \right]_3^2$ | T: 12,142 | $\frac{667}{192}$ |
| $x^{12} - 4x^{10} - 6x^8 + 8x^6 + 4x^4 + 4x^2 + 6$ | $x^{12} + 4x^{10} + 4x^8 - 132x^6 - 352x^4 - 484x^2 + 2662$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{23}{6} \frac{23}{6} \frac{4}{6} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 10x^8 - 14$ | $x^{12} + 2x^8 + 44x^4 + 242$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{3}{3} \frac{4}{6} \right]_3^2$ | T: 12,51 | $\frac{10}{3}$ |
| $x^{12} + 4x^{10} - 4x^6 + 4x^4 - 4x^2 - 2$ | $x^{12} - 108x^{10} + 3816x^8 - 44400x^6 + 43200x^4 + 648000x^2 - 1620000$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{23}{6} \frac{23}{6} \frac{4}{6} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 2x^8 + 4x^6 - 2x^4 - 2$ | $x^{12} - 60x^{10} - 630x^8 + 1200x^6 + 36900x^4 + 54000x^2 - 45000$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{11}{3} \frac{11}{3} \frac{4}{6} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 4x^{10} - 4x^8 + 8x^6 + 16x^4 - 10$ | $x^{12} - 36x^{10} + 432x^8 - 1728x^6 - 972x^4 + 11664x^2 + 12150$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad 3 \quad 3 \quad \frac{19}{6} \quad \frac{19}{6} \quad 4 \right]_3^2$ | T: 12,134 | $\frac{667}{192}$ |
| $x^{12} + 4x^{10} + 8x^8 + 4x^6 + 8x^4 + 12x^2 - 14$ | $x^{12} - 20x^{10} + 160x^8 - 400x^6 - 640x^4 + 4160x^2 - 480$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} + 8x^{10} - 2x^8 + 8x^6 + 6x^4 + 4x^2 - 6$ | $x^{12} + 24x^{10} + 210x^8 + 792x^6 + 1452x^4 + 1232x^2 - 88$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 12x^{10} - 6x^8 - 8x^6 + 4x^4 - 10$ | $x^{12} - 8x^{10} + 22x^8 - 32x^6 + 40x^4 - 44x^2 + 22$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 2x^8 + 4x^4 + 4x^2 - 2$ | $x^{12} + 4x^{10} - 44x^8 - 316x^6 - 700x^4 - 660x^2 - 242$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} + 8x^{10} + 6$ | $x^{12} + 2x^8 + 12x^4 + 88$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad 3 \quad 3 \quad 4 \right]_3^2$ | T: 12,51 | $\frac{151}{48}$ |
| $x^{12} + 8x^{10} + 8x^6 + 2x^4 - 2$ | $x^{12} - 6x^8 + 36x^4 - 72$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{11}{3} \quad \frac{11}{3} \quad 4 \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} - 4x^{10} - 4x^8 + 8x^6 + 2x^4 - 4x^2 - 6$ | $x^{12} - 44x^{10} + 506x^8 - 1452x^6 - 2662x^4 - 5324x^2 - 2662$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} + 8x^{10} + 8x^8 + 4x^6 + 2x^4 + 4x^2 - 2$ | $x^{12} - 12x^{10} + 42x^8 - 16x^6 - 126x^4 + 156x^2 - 2$ | $\left[\begin{array}{cccc} \frac{8}{3} & \frac{8}{3} & 3 & \frac{23}{6} \\ & & & 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 16x^8 + 2x^4 - 14$ | $x^{12} + 22x^8 + 132x^4 + 968$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & 3 & \frac{11}{3} \\ & & & 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} - 4x^{10} + 8x^6 - 6x^4 + 16x^2 + 14$ | $x^{12} + 48x^{10} + 846x^8 + 6240x^6 + 14220x^4 - 21600x^2 - 45000$ | $\left[\begin{array}{cccc} \frac{4}{3} & \frac{4}{3} & 2 & \frac{8}{3} \\ & & \frac{8}{3} & 3 \\ & & & \frac{11}{3} \\ & & & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 4x^{10} - 2x^8 + 2x^4 + 2$ | $x^{12} + 12x^{10} + 72x^8 + 264x^6 + 558x^4 + 144x^2 + 18$ | $\left[\begin{array}{cccc} \frac{4}{3} & \frac{4}{3} & 2 & \frac{8}{3} \\ & & \frac{8}{3} & 3 \\ & & & \frac{11}{3} \\ & & & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} - 8x^{10} + 16x^8 - 8x^6 + 10x^4 - 8x^2 - 10$ | $x^{12} + 6x^8 + 12x^4 + 24$ | $\left[\begin{array}{cccc} 2 & \frac{8}{3} & 3 & \frac{11}{3} \\ & & & 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} - 2x^8 - 4x^6 - 2x^4 - 4x^2 + 6$ | $x^{12} + 24x^{10} + 180x^8 + 200x^6 - 2250x^4 - 7500x^2 - 6250$ | $\left[\begin{array}{cccc} \frac{4}{3} & \frac{4}{3} & 2 & \frac{8}{3} \\ & & \frac{8}{3} & 3 \\ & & & \frac{23}{6} \\ & & & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^8 - 4x^6 - 2x^4 + 8x^2 + 6$ | $x^{12} + 12x^{10} + 54x^8 + 112x^6 + 108x^4 + 48x^2 + 24$ | $\left[\begin{array}{cccc} \frac{8}{3} & \frac{8}{3} & 3 & \frac{11}{3} \\ & & & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} + 4x^{10} + 2x^4 + 8x^2 - 2$ | $x^{12} - 342x^8 - 5280x^6 - 35964x^4 - 116640x^2 - 145800$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 11 & & \\ 3 & & \end{array} \begin{array}{c}]^2 \\ 4 \\]_3$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 4x^{10} - 2x^8 + 8x^6 + 8x^4 + 8x^2 + 2$ | $x^{12} + 20x^{10} + 130x^8 + 280x^6 - 340x^4 - 3560x^2 - 270$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 3 \\ 3 & 3 & 3 & 6 \end{array} \right]_3 \begin{array}{ccc} 19 & & \\ 6 & & \end{array} \begin{array}{c}]^2 \\ 4 \\]_3$ | T: 12,142 | $\frac{667}{192}$ |
| $x^{12} + 8x^{10} + 4x^8 + 2x^4 + 6$ | $x^{12} + 4x^8 + 26x^4 + 22$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 11 & & \\ 3 & & \end{array} \begin{array}{c}]^2 \\ 4 \\]_3$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 8x^4 + 8x^2 - 6$ | $x^{12} + 22x^8 - 2662$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & & \\ 4 & & \end{array} \begin{array}{c}]^2 \\ 4 \\]_3$ | T: 12,51 | $\frac{10}{3}$ |
| $x^{12} - 4x^{10} + 4x^6 - 2x^4 + 8x^2 + 2$ | $x^{12} - 4x^{10} + 224x^8 - 924x^6 + 1430x^4 - 968x^2 + 242$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 11 & & \\ 3 & & \end{array} \begin{array}{c}]^2 \\ 4 \\]_3$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} - 4x^{10} + 12x^8 + 16x^4 + 14$ | $x^{12} + 36x^{10} - 288x^8 + 696x^6 - 756x^4 + 864x^2 - 882$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 3 \\ 3 & 3 & 3 & 6 \end{array} \right]_3 \begin{array}{ccc} 19 & & \\ 6 & & \end{array} \begin{array}{c}]^2 \\ 4 \\]_3$ | T: 12,134 | $\frac{667}{192}$ |
| $x^{12} + 8x^{10} + 14x^8 + 8x^6 + 4x^4 + 12x^2 + 14$ | $x^{12} + 4x^{10} + 2x^8 - 16x^6 - 24x^4 - 12x^2 - 2$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 6 \end{array} \right]_3 \begin{array}{ccc} 23 & & \\ 6 & & \end{array} \begin{array}{c}]^2 \\ 4 \\]_3$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} - 8x^{10} - 10x^8 + 12x^6 + 8x^4 + 8x^2 + 10$ | $x^{12} - 20x^{10} + 110x^8 - 80x^6 - 340x^4 + 1840x^2 + 40$ | $\left[\begin{array}{cccc} 4 & 4 & 3 & 3 \\ 3 & 3 & 3 & 6 \end{array} \right]_3 \begin{array}{ccc} 19 & & \\ 6 & & \end{array} \begin{array}{c}]^2 \\ 4 \\]_3$ | T: 12,99 | $\frac{331}{96}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|------------|--------------------|
| $x^{12} + 8x^{10} + 4x^6 + 8x^4 + 8x^2 - 6$ | $x^{12} - 60x^{10} + 1230x^8 - 320x^6 - 1380x^4 + 1200x^2 + 40$ | $\left[\begin{smallmatrix} 8 & 8 & 3 & 4 \\ 3 & 3 & 3 & 3 \end{smallmatrix} \right]_3^2$ | T: 12, 29 | $\frac{79}{24}$ |
| $x^{12} - 12x^{10} - 4x^8 - 8x^6 - 14x^4 + 8x^2 - 14$ | $x^{12} + 36x^{10} + 420x^8 + 1816x^6 + 3866x^4 + 3608x^2 + 242$ | $\left[\begin{smallmatrix} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{smallmatrix} \right]_3^2 \left[\begin{smallmatrix} 11 & 11 \\ 3 & 3 \end{smallmatrix} \right]_3$ | T: 12, 222 | $\frac{2851}{768}$ |
| $x^{12} + 12x^6 - 10x^4 + 4x^2 + 10$ | $x^{12} - 60x^{10} + 150x^8 - 200x^6 + 150x^4 - 60x^2 + 10$ | $\left[\begin{smallmatrix} 8 & 8 & 3 & 23 \\ 3 & 3 & 3 & 6 \end{smallmatrix} \right]_3^2$ | T: 12, 105 | $\frac{361}{96}$ |
| $x^{12} + 4x^{10} - 4x^8 + 2x^4 + 8x^2 - 2$ | $x^{12} - 60x^{10} + 1380x^8 - 15200x^6 + 65850x^4 + 123000x^2 - 781250$ | $\left[\begin{smallmatrix} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{smallmatrix} \right]_3^2 \left[\begin{smallmatrix} 11 & 11 \\ 3 & 3 \end{smallmatrix} \right]_3$ | T: 12, 222 | $\frac{2851}{768}$ |
| $x^{12} - 12x^{10} + 2x^8 - 8x^6 - 8x^4 - 8x^2 - 14$ | $x^{12} - 4x^{10} - 6x^8 + 152x^6 + 528x^4 + 616x^2 + 242$ | $\left[\begin{smallmatrix} 4 & 4 & 2 & 3 \\ 3 & 3 & 3 & 6 \end{smallmatrix} \right]_3^2 \left[\begin{smallmatrix} 19 & 19 \\ 6 & 6 \end{smallmatrix} \right]_3$ | T: 12, 134 | $\frac{667}{192}$ |
| $x^{12} + 8x^{10} - 4x^8 + 12x^6 + 12x^4 - 12x^2 + 14$ | $x^{12} - 8x^{10} + 28x^8 - 52x^6 - 36x^4 + 460x^2 - 722$ | $\left[\begin{smallmatrix} 2 & 8 & 3 & 23 \\ 3 & 3 & 3 & 6 \end{smallmatrix} \right]_3^2 \left[\begin{smallmatrix} 11 & 11 \\ 3 & 3 \end{smallmatrix} \right]_3$ | T: 12, 142 | $\frac{181}{48}$ |
| $x^{12} + 8x^8 + 4x^6 + 6x^4 + 8x^2 + 2$ | $x^{12} - 12x^{10} + 54x^8 - 172x^6 + 342x^4 - 408x^2 + 242$ | $\left[\begin{smallmatrix} 8 & 8 & 3 & 11 \\ 3 & 3 & 3 & 3 \end{smallmatrix} \right]_3^2$ | T: 12, 94 | $\frac{355}{96}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} + 8x^{10} - 4x^8 - 4x^6 - 2x^4 - 6$ | $x^{12} + 36x^{10} + 390x^8 + 1968x^6 + 5076x^4 + 6480x^2 + 3240$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{11}{3} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} - 4x^{10} - 2x^8 - 6x^4 + 2$ | $x^{12} + 12x^{10} + 48x^8 - 40x^6 + 6x^4 + 2$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \frac{8}{3} \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{11}{3} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} - 12x^{10} + 2x^8 - 12x^6 + 14x^4 + 12x^2 - 10$ | $x^{12} - 48x^{10} + 864x^8 - 192x^6 - 71334x^4 + 368820x^2 - 561690$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \frac{8}{3} \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{23}{6} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} + 4x^6 - 8x^4 + 8x^2 + 10$ | $x^{12} + 60x^{10} + 1230x^8 + 2540x^6 + 2040x^4 + 600x^2 + 10$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{8}{3} \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{23}{6} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,29 | $\frac{79}{24}$ |
| $x^{12} - 4x^{10} + 6x^8 + 8x^6 + 8x^4 + 4x^2 - 6$ | $x^{12} + 4x^{10} - 28x^8 - 196x^6 - 404x^4 - 308x^2 - 22$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \frac{8}{3} \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{23}{6} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} + 16x^{10} - 6x^8 - 12x^6 + 14x^4 + 14$ | $x^{12} + 60x^{10} + 1320x^8 + 8300x^6 + 9150x^4 - 21000x^2 - 1250$ | $\left[\begin{array}{ccc} 4 & 4 & 4 \\ 3 & 3 & 3 \end{array} \right] \frac{8}{3} \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{11}{3} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 4x^6 + 8x^4 + 8x^2 - 6$ | $x^{12} - 60x^{10} + 774x^8 - 3300x^6 + 3744x^4 - 1080x^2 + 90$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{8}{3} \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{23}{6} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,29 | $\frac{79}{24}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 12x^{10} + 12x^8 - 12x^6 + 2x^4 + 4x^2 + 14$ | $x^{12} - 24x^{10} + 166x^8 - 88x^6 - 1892x^4 + 1936x^2 - 968$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 4 \\ 4 \end{array} \Big]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} - 12x^{10} - 6x^8 + 4x^6 + 16x^4 + 16x^2 - 14$ | $x^{12} - 36x^{10} + 342x^8 - 3216x^6 + 26028x^4 - 118800x^2 + 1800$ | $\left[\begin{array}{ccc} 4 & 4 & 5 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 5 \\ 3 \end{array} \begin{array}{c} 3 \\ 4 \end{array} \Big]_3^2$ | T: 12,94 | $\frac{301}{96}$ |
| $x^{12} - 4x^{10} + 10x^8 - 12x^6 - 8x^4 + 8x^2 - 14$ | $x^{12} + 360x^8 + 2928x^6 + 9072x^4 + 15552x^2 + 14112$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 4 \end{array} \Big]_3^2$ | T: 12,94 | $\frac{319}{96}$ |
| $x^{12} - 8x^{10} - 14x^8 + 8x^6 + 10x^4 + 8x^2 + 10$ | $x^{12} - 44x^8 + 726x^4 - 2662$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 11 \\ 3 \end{array} \begin{array}{c} 4 \\ 4 \end{array} \Big]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 4x^{10} - 4x^8 + 8x^6 + 4x^2 - 6$ | $x^{12} - 4x^{10} + 180x^8 - 1936x^6 - 968x^4 - 220x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 4 \\ 4 \end{array} \Big]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 4x^{10} - 6x^8 + 8x^6 + 4x^4 - 4x^2 + 6$ | $x^{12} - 4x^{10} + 4x^8 + 132x^6 - 352x^4 + 484x^2 + 2662$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 4 \\ 4 \end{array} \Big]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 4x^{10} + 2x^8 + 4x^6 + 6x^4 + 2$ | $x^{12} + 24x^{10} + 244x^8 + 1276x^6 + 3454x^4 + 3872x^2 + 242$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 11 \\ 3 \end{array} \begin{array}{c} 4 \\ 4 \end{array} \Big]_3^2$ | T: 12,94 | $\frac{355}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 4x^{10} - 2x^8 + 2x^4 + 4x^2 - 2$ | $x^{12} + 30x^8 - 2600x^6 - 2250x^4 + 37500x^2 - 31250$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 \\ 3 & 3 & 3 & 3 & 6 & 6 \end{bmatrix}^2_3$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^8 + 8x^6 - 4x^4 + 4x^2 - 2$ | $x^{12} - 60x^{10} + 1050x^8 - 4880x^6 - 15780x^4 + 174000x^2 - 441800$ | $\begin{bmatrix} 4 & 4 & 8 & 8 & 3 & 3 \\ 3 & 3 & 3 & 3 & 6 & 6 \end{bmatrix}^2_3$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 4x^8 + 2x^4 + 6$ | $x^{12} + 44x^8 + 726x^4 + 2662$ | $\begin{bmatrix} 2 & 8 & 8 & 3 & 11 & 11 \\ 3 & 3 & 3 & 3 & 3 & 4 \end{bmatrix}^2_3$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} - 12x^6 - 14$ | $x^{12} + 20x^{10} - 16x^9 + 40x^8 - 32x^7 - 424x^6 - 176x^5 - 1182x^4 - 2976x^3 - 2476x^2 - 840x - 98$ | $\begin{bmatrix} 3 & 4 \end{bmatrix}^2_3$ | T: 12,1 | $\frac{35}{12}$ |
| $x^{12} + 8x^{10} - 4x^6 + 2$ | $x^{12} + 4x^{10} - 88x^9 + 268x^8 + 704x^7 - 2336x^6 + 1936x^5 + 5822x^4 - 55264x^3 - 120868x^2 - 62040x + 5614$ | $\begin{bmatrix} 4 & 4 & 3 & 4 \\ 3 & 3 & 3 & 3 \end{bmatrix}^2_3$ | T: 12,29 | $\frac{73}{24}$ |
| $x^{12} + 8x^{10} + 8x^8 - 4x^6 + 6x^4 + 8x^2 - 6$ | $x^{12} + 60x^{10} + 1290x^8 + 11600x^6 + 38700x^4 + 54000x^2 + 9000$ | $\begin{bmatrix} 8 & 8 & 3 & 11 & 11 \\ 3 & 3 & 3 & 3 & 4 \end{bmatrix}^2_3$ | T: 12,94 | $\frac{355}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} - 6x^8 - 4x^6 - 2x^4 - 2$ | $x^{12} + 60x^{10} - 630x^8 - 1200x^6 + 36900x^4 - 54000x^2 - 45000$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{11}{3} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 8x^{10} + 10x^8 - 4x^6 - 10x^4 - 8x^2 - 10$ | $x^{12} - 510x^8 - 10300x^6 - 92550x^4 - 378000x^2 - 552250$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{11}{3} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 4x^{10} - 4x^8 + 8x^6 + 16x^4 - 12x^2 + 10$ | $x^{12} + 24x^{10} + 254x^8 + 1408x^6 + 3916x^4 + 3168x^2 - 4312$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{23}{6} \frac{23}{6} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^{10} - 4x^6 + 8x^4 + 8x^2 - 2$ | $x^{12} + 12x^{10} + 42x^8 - 28x^6 - 24x^4 + 24x^2 - 2$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{8}{3} \right]_3^2$ | T: 12,29 | $\frac{79}{24}$ |
| $x^{12} - 4x^{10} - 4x^8 + 16x^6 - 6x^4 + 16x^2 + 10$ | $x^{12} - 24x^{10} - 924x^8 + 9280x^6 - 30960x^4 + 43200x^2 - 21600$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{11}{3} \frac{11}{3} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 4x^{10} + 8x^8 + 4x^6 - 4x^2 - 6$ | $x^{12} + 36x^{10} - 918x^8 + 45144x^6 - 366444x^4 + 1035180x^2 - 595350$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{23}{6} \frac{23}{6} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} - 4x^{10} - 6x^8 + 12x^6 - 8x^4 + 8x^2 + 10$ | $x^{12} - 36x^8 + 4x^6 + 408x^4 + 360x^2 + 90$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{3}{3} \right]_3^2$ | T: 12,94 | $\frac{319}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} + 8x^{10} - 6x^4 + 8x^2 + 2$ | $x^{12} + 6x^8 - 6x^4 + 2$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ & 3 & 3 & 3 \\ & & 11 & 3 \\ & & & 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} - 6x^8 - 4x^6 + 2x^4 + 4x^2 - 6$ | $x^{12} - 108x^{10} - 344x^9 + 1662x^8 + 456x^7 - 72536x^6 - 253032x^5 - 124902x^4 + 522792x^3 + 453732x^2 - 335040x - 321826$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \\ & 3 & 3 & 3 \\ & & 23 & 23 \\ & & & 6 \\ & & & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 4x^{10} + 4x^6 + 8x^4 + 4x^2 - 6$ | $x^{12} - 108x^{10} - 360x^9 + 3114x^8 + 20880x^7 + 11412x^6 - 253440x^5 - 987480x^4 - 1674240x^3 - 1402344x^2 - 523440x - 78756$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ & 3 & 3 & 3 \\ & & 23 & 23 \\ & & & 6 \\ & & & 4 \end{array} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} - 4x^{10} - 4x^8 + 6x^4 + 4x^2 - 2$ | $x^{12} + 8x^{10} + 14x^8 + 12x^6 + 10x^4 + 4x^2 - 2$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ & 3 & 3 & 3 \\ & & 23 & 23 \\ & & & 6 \\ & & & 4 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} - 2x^8 - 2$ | $x^{12} - 24x^8 + 48x^4 - 32$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \\ & 8 & 3 & 3 \\ & & 3 & 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{643}{192}$ |
| $x^{12} + 16x^{10} + 6x^8 - 4x^6 - 2x^4 + 10$ | $x^{12} - 26x^8 - 92x^6 - 134x^4 - 88x^2 - 22$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \\ & 11 & 3 & 3 \\ & & 11 & 3 \\ & & & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 8x^{10} - 6x^8 - 4x^6 - 2x^4 + 6$ | $x^{12} - 270x^8 - 6300x^6 + 101250x^4 - 81000x^2 - 20250$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 4 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 8x^{10} + 8x^8 + 8x^6 - 2x^4 - 4x^2 - 2$ | $x^{12} - 4x^{10} + 8x^8 - 120x^6 + 162x^4 - 108x^2 - 162$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} - 8x^{10} - 10x^8 - 8x^6 - 8x^4 + 8x^2 + 14$ | $x^{12} + 44x^8 - 29282$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 7 & 3 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{631}{192}$ |
| $x^{12} - 6x^8 + 12x^6 + 2x^4 + 4x^2 + 10$ | $x^{12} - 390x^8 + 3100x^6 - 10350x^4 + 40500x^2 - 33750$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 4x^{10} + 4x^8 + 4x^6 + 8x^4 + 8x^2 - 6$ | $x^{12} - 24x^{10} + 162x^8 - 196x^6 - 504x^4 + 720x^2 + 90$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{331}{96}$ |
| $x^{12} - 4x^{10} + 4x^8 + 16x^6 - 2x^4 - 4x^2 + 14$ | $x^{12} + 16x^{10} + 100x^8 + 352x^6 + 682x^4 + 484x^2 - 242$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} - 4x^{10} - 4x^8 - 4x^4 + 4x^2 - 2$ | $x^{12} - 8x^{10} + 26x^8 - 20x^6 - 8x^4 + 4x^2 - 2$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} + 12x^{10} - 4x^8 + 8x^6 - 8x^4 + 8x^2 + 10$ | $x^{12} - 8x^{10} + 22x^8 - 112x^6 + 108x^4 - 88$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{667}{192}$ |
| $x^{12} + 8x^{10} + 16x^8 + 10x^4 + 8x^2 + 10$ | $x^{12} - 22x^8 + 1100x^4 - 10648$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 11 \\ & & 3 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 12x^{10} - 12x^8 - 8x^6 - 8x^4 + 8x^2 + 10$ | $x^{12} + 16x^{10} + 86x^8 + 220x^6 + 220x^4 - 396x^2 - 1078$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 8 & 3 \\ & 3 & 23 \\ & & 6 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 4x^{10} - 2x^8 - 8x^6 + 16x^4 + 16x^2 - 14$ | $x^{12} - 12x^{10} + 48x^8 - 64x^6 + 162$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 19 \\ & & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{667}{192}$ |
| $x^{12} - 12x^{10} - 2x^8 + 16x^6 + 2x^4 - 8x^2 - 14$ | $x^{12} + 12x^{10} + 54x^8 - 120x^6 + 18x^4 + 72x^2 + 18$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & 8 \\ & & 3 \end{array} \right]_3^2$ $\left[\begin{array}{ccc} 11 & 4 & 3 \\ & 3 & 11 \\ & & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 4x^8 - 6x^4 + 8x^2 + 6$ | $x^{12} + 14x^8 + 60x^4 + 88$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 11 \\ & & 3 \end{array} \right]_3^2$ $\left[\begin{array}{ccc} 11 & 4 & 3 \\ & 3 & 11 \\ & & 3 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 8x^{10} + 2x^8 - 8x^6 - 6x^4 + 4x^2 - 10$ | $x^{12} + 44x^{10} + 704x^8 + 4884x^6 + 12474x^4 + 484x^2 + 2662$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 8 & 3 \\ & 3 & 23 \\ & & 6 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 4x^{10} + 4x^8 + 2x^4 - 2$ | $x^{12} - 36x^{10} - 972x^8 + 9400x^6 - 27630x^4 + 28800x^2 - 8450$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{11}{3} \quad 3 \quad \frac{11}{3} \quad 4 \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 8x^{10} - 12x^8 + 4x^6 - 4x^4 - 4x^2 - 10$ | $x^{12} - 4x^{10} + 18x^8 - 20x^4 + 80x^2 + 88$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad 3 \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} + 8x^{10} + 6x^8 - 4x^6 - 6$ | $x^{12} - 30x^8 - 500x^6 + 300x^4 - 3000x^2 + 250$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 3 \quad \frac{19}{6} \quad 3 \quad \frac{19}{6} \quad 4 \right]_3^2$ | T: 12,99 | $\frac{331}{96}$ |
| $x^{12} + 12x^{10} - 14x^8 - 8x^6 - 8x^4 - 8x^2 - 14$ | $x^{12} + 4x^{10} - 6x^8 - 152x^6 + 528x^4 - 616x^2 + 242$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad 3 \quad \frac{19}{6} \quad 3 \quad \frac{19}{6} \quad 4 \right]_3^2$ | T: 12,134 | $\frac{667}{192}$ |
| $x^{12} - 4x^{10} - 8x^8 + 4x^6 + 16x^4 - 4x^2 + 10$ | $x^{12} - 12x^{10} + 72x^8 - 252x^6 + 480x^4 - 396x^2 - 6$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad 3 \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} + 16x^{10} + 16x^8 + 12x^6 - 4x^4 + 4x^2 + 14$ | $x^{12} + 36x^{10} - 2196x^8 - 66660x^6 + 1690200x^4 + 31900500x^2 - 463601250$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad 3 \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} + 4x^8 - 4x^6 - 4x^4 - 4x^2 + 6$ | $x^{12} - 4x^{10} + 16x^8 - 36x^6 + 72x^4 - 60x^2 + 22$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad 3 \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 4x^6 + 2$ | $x^{12} - 8x^{10} + 32x^8 - 52x^6 + 40x^4 - 16x^2 + 2$ | $\left[\begin{array}{cc} 3 & 4 \\ & 2 \end{array} \right]_3$ | T: 12,1 | $\frac{35}{12}$ |
| $x^{12} + 4x^{10} + 2x^8 + 6$ | $x^{12} + 12x^{10} + 56x^8 + 128x^6 + 144x^4 + 64x^2 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{cc} 19 & 4 \\ 6 & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{667}{192}$ |
| $x^{12} + 8x^{10} + 8x^8 + 12x^6 + 6x^4 - 8x^2 - 14$ | $x^{12} + 12x^{10} + 66x^8 + 208x^6 + 396x^4 + 432x^2 + 200$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{cc} 11 & 4 \\ 3 & 3 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 4x^{10} - 6x^8 - 4x^6 - 10x^4 - 14$ | $x^{12} - 12x^8 + 36x^6 - 42x^4 + 16x^2 + 2$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{cc} 11 & 4 \\ 3 & 3 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} - 6x^8 + 8x^6 + 8x^4 - 4x^2 + 2$ | $x^{12} + 18x^8 + 24x^6 + 216x^4 + 108x^2 + 18$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{cc} 23 & 4 \\ 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 8x^{10} + 8x^6 - 14x^4 + 10$ | $x^{12} - 18x^8 + 84x^4 - 24$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{cc} 11 & 4 \\ 3 & 3 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} - 4x^{10} + 2x^8 - 4x^6 - 2x^4 - 4x^2 + 6$ | $x^{12} - 180x^{10} - 944x^9 + 6390x^8 + 84960x^7 + 394416x^6 + 1008000x^5 + 1487340x^4 + 1084096x^3 + 212400x^2 + 66240x + 75016$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{cc} 23 & 4 \\ 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} + 4x^{10} - 4x^8 + 8x^4 + 8x^2 + 6$ | $x^{12} - 28x^{10} + 420x^8 - 3528x^6 + 14688x^4 - 29160x^2 + 39366$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad 3 \quad \frac{19}{6} \quad \frac{19}{6} \quad 4 \right]_3^2$ | T: 12,134 | $\frac{667}{192}$ |
| $x^{12} - 12x^{10} - 6x^8 + 12x^6 - 2x^4 + 4x^2 + 14$ | $x^{12} - 60x^{10} - 24x^9 + 30x^8 - 8280x^7 - 17384x^6 - 9000x^5 - 402750x^4 - 1011864x^3 - 621540x^2 - 6912000x - 15258654$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 8x^{10} - 14x^8 + 4x^6 - 12x^4 - 4x^2 - 14$ | $x^{12} - 12x^{10} + 96x^8 - 448x^6 + 1032x^4 - 1012x^2 + 242$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \quad 3 \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 4x^{10} + 4x^8 - 6x^4 + 4x^2 - 6$ | $x^{12} + 44x^{10} + 506x^8 + 1452x^6 - 2662x^4 + 5324x^2 - 2662$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} - 4x^{10} + 4x^8 + 4x^6 - 6x^4 - 4x^2 - 2$ | $x^{12} - 12x^{10} + 62x^8 - 40x^6 - 10x^4 + 12x^2 - 2$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \quad 3 \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} - 2x^8 + 4x^6 + 2x^4 + 4x^2 + 2$ | $x^{12} - 20x^{10} + 150x^8 - 492x^6 + 550x^4 + 132x^2 + 242$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} + 8x^{10} - 6x^8 + 12x^6 + 10x^4 - 12x^2 - 14$ | $x^{12} + 4x^{10} - 60x^8 - 128x^6 + 870x^4 - 1012x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_4 \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} + 8x^6 + 2x^4 - 4x^2 - 6$ | $x^{12} - 4x^{10} + 10x^8 - 56x^6 + 108x^4 - 88$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_4 \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 4x^{10} - 4x^8 - 4x^6 - 2x^4 + 8x^2 + 2$ | $x^{12} - 12x^{10} + 62x^8 - 176x^6 + 244x^4 - 80x^2 + 8$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_4 \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 6x^8 + 8x^6 + 6x^4 + 8x^2 - 2$ | $x^{12} + 20x^8 + 78x^4 - 242$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_4 \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 4x^{10} - 12x^8 + 16x^6 + 4x^4 - 4x^2 + 14$ | $x^{12} + 12x^{10} + 76x^8 + 152x^6 - 524x^4 - 572x^2 - 242$ | $\left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_4 \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 8x^6 - 6x^4 + 8x^2 - 2$ | $x^{12} - 22x^8 + 154x^4 - 242$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_4 \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 16x^{10} - 8x^6 - 10x^4 + 4x^2 + 14$ | $x^{12} + 12x^{10} + 42x^8 + 12x^6 - 54x^4 + 36x^2 - 18$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_4 \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} - 4x^{10} - 4x^8 - 12x^6 - 12x^4 + 12x^2 + 4x - 10$ | $x^{12} - 8x^{10} + 112x^8 - 252x^6 + 632x^4 - 220x^2 + 22$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_4 \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} + 6x^8 + 16x^6 - 8x^4 + 8x^2 - 10$ | $x^{12} - 14x^8 + 44x^4 + 88$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 7 & 3 & 4 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,141 | $\frac{631}{192}$ |
| $x^{12} - 4x^{10} + 2x^8 + 8x^6 - 2x^4 - 4x^2 - 6$ | $x^{12} - 12x^{10} + 76x^8 - 196x^6 + 114x^4 - 44x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 23 & 23 \\ 3 & 6 & 6 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^{10} - 4x^6 - 6$ | $x^{12} + 12x^{10} - 330x^8 + 604x^6 + 2304x^4 + 1440x^2 + 90$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,29 | $\frac{73}{24}$ |
| $x^{12} + 4x^{10} - 2x^8 + 12x^6 - 6x^4 + 4x^2 - 14$ | $x^{12} + 24x^{10} + 342x^8 + 2952x^6 + 14340x^4 + 39600x^2 - 27000$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 8 & 3 & 23 \\ 3 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} + 10x^8 + 12x^6 + 6x^4 - 8x^2 + 14$ | $x^{12} - 120x^{10} - 630x^8 + 8700x^6 - 23850x^4 + 27000x^2 - 11250$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 11 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} - 8x^{10} - 6x^8 + 8x^4 + 12x^2 - 14$ | $x^{12} + 18x^8 - 24x^6 + 216x^4 - 108x^2 + 18$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 8 & 3 & 23 \\ 3 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} + 8x^8 + 4x^4 + 4x^2 + 6$ | $x^{12} + 44x^{10} + 660x^8 + 3168x^6 - 7832x^4 - 62436x^2 + 130438$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 23 & 23 \\ 3 & 6 & 6 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} - 6x^8 - 4x^6 - 6x^4 + 4x^2 + 2$ | $x^{12} + 16x^{10} + 74x^8 + 212x^6 - 206x^4 + 220x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 23 & 23 & 3 \\ 6 & 6 & 6 \end{array} \begin{array}{c}]^2 \\ 4 \\]_3$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} - 12x^8 + 8x^6 - 14x^4 - 10$ | $x^{12} - 6x^8 + 20x^4 + 88$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{c}]^2 \\ 4 \\]_3$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 4x^{10} + 4x^8 + 4x^6 - 2$ | $x^{12} - 16x^{10} + 86x^8 + 132x^6 - 880x^4 + 968x^2 - 242$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 19 & 19 & 3 \\ 6 & 6 & 6 \end{array} \begin{array}{c}]^2 \\ 4 \\]_3$ | T: 12,105 | $\frac{331}{96}$ |
| $x^{12} + 4x^{10} + 4x^8 - 4x^6 + 2$ | $x^{12} - 24x^{10} + 126x^8 - 164x^6 - 36x^4 + 48x^2 + 98$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 19 & 19 & 3 \\ 6 & 6 & 6 \end{array} \begin{array}{c}]^2 \\ 4 \\]_3$ | T: 12,105 | $\frac{331}{96}$ |
| $x^{12} - 4x^{10} - 6x^8 - 4x^6 - 10x^4 - 14$ | $x^{12} - 24x^{10} + 244x^8 - 1276x^6 + 3454x^4 - 3872x^2 + 242$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{c}]^2 \\ 4 \\]_3$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} - 4x^6 + 6x^4 + 4x^2 - 6$ | $x^{12} - 640x^6 - 1920x^5 - 2400x^4 - 1600x^3 - 600x^2 - 120x - 10$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 23 & 23 & 3 \\ 6 & 6 & 6 \end{array} \begin{array}{c}]^2 \\ 4 \\]_3$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 16x^{10} - 14x^8 - 4x^6 - 8x^4 + 8x^2 - 10$ | $x^{12} + 36x^{10} + 442x^8 + 2256x^6 + 5868x^4 + 7568x^2 + 4312$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 19 & 19 & 3 \\ 6 & 6 & 6 \end{array} \begin{array}{c}]^2 \\ 4 \\]_3$ | T: 12,99 | $\frac{331}{96}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} + 4x^{10} + 4x^8 - 4x^6 + 8x^4 + 8x^2 - 6$ | $x^{12} + 24x^{10} + 162x^8 + 196x^6 - 504x^4 - 720x^2 + 90$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right] \begin{array}{c} 19 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{331}{96}$ |
| $x^{12} - 4x^{10} + 2x^8 + 8x^6 + 16x^4 + 16x^2 - 14$ | $x^{12} - 12x^{10} + 70x^8 - 240x^6 + 484x^4 - 528x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right] \begin{array}{c} 2 \\ 3 \end{array} \left[\begin{array}{c} 19 \\ 6 \end{array} \right] \begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,134 | $\frac{667}{192}$ |
| $x^{12} + 4x^{10} + 8x^8 + 8x^6 + 8x^4 - 4x^2 - 6$ | $x^{12} + 12x^{10} + 54x^8 + 100x^6 + 240x^4 - 900x^2 + 250$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right] \begin{array}{c} 23 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 4x^{10} + 2x^8 - 4x^6 + 4x^4 - 4x^2 + 6$ | $x^{12} - 60x^{10} - 720x^8 - 2400x^6 + 21600x^4 - 36000$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \left[\begin{array}{c} 23 \\ 6 \end{array} \right] \begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 4x^{10} - 4x^8 - 12x^6 + 14x^4 - 8x^2 + 10$ | $x^{12} + 8x^{10} + 2x^8 + 164x^6 - 446x^4 + 792x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \left[\begin{array}{c} 11 \\ 3 \end{array} \right] \begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} - 4x^{10} + 4x^8 + 16x^6 + 4x^4 - 4x^2 + 14$ | $x^{12} + 16x^6 - 24x^4 + 12x^2 - 2$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right] \begin{array}{c} 23 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} - 4x^{10} + 2x^8 - 2x^4 + 6$ | $x^{12} + 4x^{10} + 18x^8 - 16x^6 - 42x^4 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right] \begin{array}{c} 2 \\ 3 \end{array} \left[\begin{array}{c} 8 \\ 3 \end{array} \right] \begin{array}{c} 11 \\ 3 \end{array} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 8x^{10} - 4x^8 + 8x^6 + 8x^4 + 4x^2 + 2$ | $x^{12} + 20x^{10} + 166x^8 + 704x^6 + 1628x^4 + 1936x^2 + 968$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{23}{6} \frac{23}{6} \frac{4}{3} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 4x^{10} - 2x^8 + 16x^6 + 2x^4 - 8x^2 + 10$ | $x^{12} + 60x^{10} - 690x^8 + 9400x^6 - 31650x^4 + 27000x^2 - 3750$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{11}{3} \frac{11}{3} \frac{4}{3} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 4x^{10} - 4x^8 + 2x^4 + 8x^2 + 6$ | $x^{12} - 450x^8 + 6000x^6 - 38340x^4 + 183168x^2 - 492840$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{11}{3} \frac{11}{3} \frac{4}{3} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} - 4x^{10} + 4x^8 + 10x^4 - 12x^2 + 10$ | $x^{12} + 24x^{10} + 44x^8 + 120x^6 - 250x^4 + 132x^2 - 22$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{23}{6} \frac{23}{6} \frac{4}{3} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 8x^8 + 4x^6 - 2x^4 + 8x^2 + 6$ | $x^{12} - 12x^{10} + 54x^8 - 112x^6 + 108x^4 - 48x^2 + 24$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{11}{3} \frac{11}{3} \frac{4}{3} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 2x^8 + 16x^6 + 8x^4 + 8x^2 - 14$ | $x^{12} + 44x^4 + 242$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{7}{3} \frac{7}{3} \frac{3}{3} \frac{3}{3} \frac{4}{3} \right]_3^2$ | T: 12,141 | $\frac{631}{192}$ |
| $x^{12} + 4x^{10} + 6x^8 - 4x^6 + 8x^4 + 8x^2 + 6$ | $x^{12} + 12x^{10} + 102x^8 + 460x^6 + 2160x^4 + 1944x^2 + 486$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{3}{3} \frac{4}{3} \right]_3^2$ | T: 12,94 | $\frac{319}{96}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 8x^{10} - 4x^8 + 4x^6 - 8x^4 - 4x^2 - 14$ | $x^{12} - 330x^8 - 3840x^6 - 17700x^4 - 36000x^2 - 27000$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad 3 \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} - 4x^6 - 6x^4 - 4x^2 - 2$ | $x^{12} + 32x^{10} + 322x^8 + 704x^6 - 3322x^4 - 484x^2 - 242$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad 3 \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} - 4x^{10} + 4x^6 + 14x^4 + 8x^2 - 14$ | $x^{12} - 4x^{10} + 70x^8 - 528x^6 + 484x^4 + 1936x^2 + 968$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \quad \frac{4}{3} \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{11}{3} \quad 3 \quad \frac{11}{3} \quad 4 \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 4x^{10} + 4x^8 + 4x^6 - 2x^4 - 2$ | $x^{12} - 60x^{10} + 300x^8 + 100x^6 - 3150x^4 + 9000x^2 - 11250$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \quad \frac{4}{3} \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{11}{3} \quad 3 \quad \frac{11}{3} \quad 4 \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 16x^{10} + 12x^8 + 12x^6 + 4x^4 + 4x^2 - 10$ | $x^{12} + 12x^{10} + 54x^8 + 96x^6 + 84x^4 + 36x^2 + 6$ | $\left[2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad 3 \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} - 4x^{10} - 6x^8 - 4x^6 + 6x^4 + 8x^2 + 2$ | $x^{12} + 44x^{10} + 858x^8 + 9196x^6 + 52514x^4 + 127776x^2 + 29282$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \quad \frac{8}{3} \quad 3 \quad \frac{11}{3} \quad 3 \quad \frac{11}{3} \quad 4 \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 8x^{10} + 14x^8 - 4x^6 - 4x^4 + 12x^2 + 14$ | $x^{12} - 16x^{10} + 86x^8 - 132x^6 - 220x^4 - 484x^2 - 242$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad 3 \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 12x^{10} - 8x^8 + 4x^6 + 4x^4 - 12x^2 - 10$ | $x^{12} + 48x^{10} - 180x^8 + 3460x^6 - 48600x^4 + 183900x^2 - 342250$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} + 16x^8 + 14$ | $x^{12} - 28x^8 + 220x^4 - 242$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad 3 \quad 4 \right]_3^2$ | T: 12,51 | $\frac{151}{48}$ |
| $x^{12} + 4x^{10} + 2x^8 - 2$ | $x^{12} - 12x^{10} + 38x^8 + 16x^6 - 156x^4 - 16x^2 - 2$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad 3 \quad \frac{19}{6} \quad \frac{19}{6} \quad 4 \right]_3^2$ | T: 12,142 | $\frac{667}{192}$ |
| $x^{12} + 8x^6 - 8x^4 + 8x^2 - 10$ | $x^{12} - 22x^8 + 1452x^4 + 10648$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad 4 \right]_3^2$ | T: 12,51 | $\frac{10}{3}$ |
| $x^{12} - 4x^{10} + 8x^8 + 12x^6 + 12x^4 + 4x^2 + 14$ | $x^{12} + 108x^{10} + 3816x^8 + 44400x^6 + 43200x^4 - 648000x^2 - 1620000$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 12x^{10} - 4x^8 - 8x^6 + 12x^4 - 12x^2 + 14$ | $x^{12} + 32x^8 - 16x^6 - 16x^4 + 12x^2 - 2$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 4x^4 + 4x^2 - 2$ | $x^{12} + 60x^{10} + 900x^8 + 2200x^6 + 43320x^4 + 332100x^2 - 414050$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 4x^{10} - 4x^8 - 4x^6 + 6x^4 + 2$ | $x^{12} + 20x^{10} + 122x^8 + 176x^6 + 124x^4 + 48x^2 + 8$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{11}{3} \quad \frac{11}{3} \quad 4 \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 12x^{10} - 12x^8 - 4x^6 - 8x^4 - 8x^2 - 14$ | $x^{12} + 8x^{10} + 26x^8 + 68x^6 + 88x^4 + 48x^2 + 18$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right] \begin{array}{c} 19 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{331}{96}$ |
| $x^{12} - 4x^{10} - 6x^8 + 4x^6 - 6x^4 - 4x^2 + 2$ | $x^{12} - 8x^{10} + 28x^8 - 40x^6 + 30x^4 - 12x^2 + 2$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} - 12x^{10} - 14x^8 - 4x^6 + 6x^4 + 12x^2 + 14$ | $x^{12} - 84x^{10} + 1974x^8 - 8920x^6 + 67500x^4 + 129600x^2 - 793800$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \left[\begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 4x^{10} + 6x^8 + 16x^6 - 14x^4 + 12x^2 - 10$ | $x^{12} + 60x^{10} + 1350x^8 + 13200x^6 + 41850x^4 - 67500x^2 - 56250$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \left[\begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 4x^{10} - 6x^8 + 4x^6 + 8x^4 + 8x^2 - 6$ | $x^{12} - 36x^8 - 196x^6 - 432x^4 - 360x^2 + 10$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \left[\begin{array}{ccc} 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{319}{96}$ |
| $x^{12} + 4x^{10} + 6x^8 + 4x^6 - 6x^4 - 4x^2 + 10$ | $x^{12} + 48x^{10} - 1266x^8 + 8600x^6 - 15900x^4 - 3600x^2 - 600$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \left[\begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} - 2x^8 - 4x^6 - 2x^4 - 4x^2 + 6$ | $x^{12} + 48x^{10} + 720x^8 + 1600x^6 - 36000x^4 - 240000x^2 - 400000$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \left[\begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} + 4x^6 + 10$ | $x^{12} - 112x^9 + 4864x^6 - 90408x^3 + 601526$ | $\left[\begin{array}{ccc} & & \\ & & \\ 3 & 4 & \end{array} \right]_3^2$ | T: 12,1 | $\frac{35}{12}$ |
| $x^{12} + 8x^{10} - 2x^8 + 4x^6 - 2x^4 - 6$ | $x^{12} - 26x^8 + 92x^6 - 134x^4 + 88x^2 - 22$ | $\left[\begin{array}{ccc} & & \\ & & \\ 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} & & \\ & & \\ 11 & 4 & \end{array} \right]_3$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 4x^{10} + 8x^8 - 4x^6 + 4x^4 + 4x^2 + 6$ | $x^{12} + 48x^{10} - 3096x^8 + 60672x^6 - 592704x^4 + 3041280x^2 - 6658560$ | $\left[\begin{array}{ccc} & & \\ & & \\ 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} & & \\ & & \\ 23 & 23 & 4 \\ 6 & 6 & \end{array} \right]_3$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 12x^{10} - 14x^8 + 8x^6 + 8x^4 - 8x^2 + 14$ | $x^{12} - 4x^{10} + 12x^8 + 88x^6 - 60x^4 - 24x^2 - 2$ | $\left[\begin{array}{ccc} & & \\ & & \\ 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} & & \\ & & \\ 19 & 19 & 4 \\ 6 & 6 & \end{array} \right]_3$ | T: 12,142 | $\frac{667}{192}$ |
| $x^{12} - 14x^8 + 8x^6 - 6x^4 - 12x^2 - 10$ | $x^{12} + 24x^{10} + 182x^8 + 440x^6 + 396x^4 + 176x^2 + 88$ | $\left[\begin{array}{ccc} & & \\ & & \\ 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} & & \\ & & \\ 23 & 23 & 4 \\ 6 & 6 & \end{array} \right]_3$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^{10} + 12x^6 - 8x^4 + 8x^2 - 14$ | $x^{12} - 4x^{10} + 2x^8 + 220x^6 - 132x^4 + 242$ | $\left[\begin{array}{ccc} & & \\ & & \\ 8 & 8 & 3 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,29 | $\frac{79}{24}$ |
| $x^{12} - 4x^{10} + 8x^8 + 4x^6 - 4x^4 + 4x^2 - 2$ | $x^{12} - 60x^{10} + 750x^8 - 5000x^6 - 135000x^4 + 337500x^2 - 281250$ | $\left[\begin{array}{ccc} & & \\ & & \\ 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} & & \\ & & \\ 23 & 23 & 4 \\ 6 & 6 & \end{array} \right]_3$ | T: 12,222 | $\frac{2899}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 4x^8 - 4x^6 + 4x^2 + 2$ | $x^{12} - 12x^{10} + 48x^8 + 336x^6 - 2400x^4 + 5760x^2 - 4320$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 23 & 23 & 3 \\ 6 & 6 & 6 \end{array} \begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} - 2x^8 - 6x^4 - 4x^2 + 6$ | $x^{12} - 8x^{10} + 44x^8 - 44x^6 - 242x^4 + 484x^2 + 2662$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 3 \\ 6 & 6 & 6 \end{array} \begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} - 12x^{10} + 8x^8 - 12x^6 + 16x^4 - 4x^2 + 10$ | $x^{12} + 72x^{10} + 1638x^8 + 14352x^6 + 40716x^4 + 41760x^2 - 29400$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 3 \\ 6 & 6 & 6 \end{array} \begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} + 12x^{10} + 14x^8 + 8x^6 - 8x^4 - 8x^2 - 14$ | $x^{12} + 20x^{10} + 40x^8 - 1880x^6 - 17800x^4 - 58760x^2 - 66270$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 19 & 19 & 3 \\ 6 & 6 & 6 \end{array} \begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,142 | $\frac{667}{192}$ |
| $x^{12} - 4x^{10} - 6x^8 - 4x^6 + 6x^4 + 4x^2 + 6$ | $x^{12} - 48x^{10} - 126x^8 + 11688x^6 - 182844x^4 + 162000x^2 - 104040$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 23 & 23 & 3 \\ 6 & 6 & 6 \end{array} \begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 2x^4 - 6$ | $x^{12} - 66x^4 - 2662$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 4x^{10} + 6x^8 - 4x^6 - 6x^4 - 4x^2 - 6$ | $x^{12} + 6400x^6 + 69600x^4 + 144000x^2 - 240000$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 23 & 23 & 3 \\ 6 & 6 & 6 \end{array} \begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 8x^{10} + 16x^8 - 12x^6 - 6x^4 + 12x^2 + 14$ | $x^{12} - 4x^{11} + 6x^{10} + 44x^9 - 145x^8 - 608x^7 + 2164x^6 + 1928x^5 - 10199x^4 - 5180x^3 + 45574x^2 - 54140x + 20777$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 23 \\ & & 6 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 16x^8 - 4x^6 - 8x^4 + 8x^2 + 10$ | $x^{12} - 60x^{10} + 546x^8 - 1460x^6 + 1284x^4 - 240x^2 + 10$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,29 | $\frac{79}{24}$ |
| $x^{12} - 6x^8 + 12x^6 - 10x^4 + 8x^2 - 10$ | $x^{12} - 60x^{10} - 270x^8 + 1200x^6 + 40500x^4 - 162000x^2 - 9000$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \\ & & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 11 & 11 & 4 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} - 4x^8 + 8x^4 + 4x^2 + 2$ | $x^{12} + 16x^{10} + 86x^8 - 308x^4 + 968$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \\ & & 23 \end{array} \right]_3^2 \left[\begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 6x^8 + 4x^6 + 8x^4 + 8x^2 + 6$ | $x^{12} - 20x^{10} + 188x^8 - 924x^6 + 2552x^4 - 3872x^2 + 2662$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 19 \\ & & 6 \end{array} \right]_3^2 \left[\begin{array}{ccc} 19 & 19 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{331}{96}$ |
| $x^{12} + 8x^{10} + 2x^8 - 4x^6 - 8x^4 + 8x^2 - 10$ | $x^{12} + 16x^{10} + 74x^8 - 52x^6 - 8x^4 - 88x^2 + 1078$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 19 \\ & & 6 \end{array} \right]_3^2 \left[\begin{array}{ccc} 19 & 19 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,99 | $\frac{331}{96}$ |
| $x^{12} + 4x^{10} - 6x^8 + 8x^6 - 6x^4 - 4x^2 + 6$ | $x^{12} + 12x^{10} + 80x^8 + 308x^6 + 902x^4 + 1452x^2 + 2662$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 23 \\ & & 6 \end{array} \right]_3^2 \left[\begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} + 4x^{10} - 6x^4 - 2$ | $x^{12} + 60x^{10} + 1170x^8 + 7600x^6 + 5250x^4 - 781250$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \frac{8}{3} \quad 3 \frac{8}{3} \quad 3 \frac{11}{3} \quad 3 \frac{11}{3} \quad 4 \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} - 14x^8 + 16x^6 + 8x^4 + 8x^2 + 10$ | $x^{12} + 4x^8 - 22$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \frac{7}{3} \quad 3 \frac{7}{3} \quad 3 \frac{7}{3} \quad 3 \frac{7}{3} \quad 4 \right]_3^2$ | T: 12,141 | $\frac{631}{192}$ |
| $x^{12} + 4x^{10} + 2x^8 + 4x^6 - 2x^4 + 2$ | $x^{12} + 20x^{10} + 154x^8 + 452x^6 + 410x^4 + 88x^2 + 242$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \quad 3 \frac{11}{3} \quad 3 \frac{11}{3} \quad 4 \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 4x^{10} + 2x^8 + 8x^6 + 2x^4 + 4x^2 + 6$ | $x^{12} + 4x^{10} + 8x^8 + 12x^6 + 30x^4 + 44x^2 + 22$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \quad 3 \frac{23}{6} \quad 3 \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 6x^8 + 8x^6 + 2$ | $x^{12} + 14x^8 + 104x^4 + 242$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad 3 \frac{8}{3} \quad 3 \frac{8}{3} \quad 3 \frac{8}{3} \quad 4 \right]_3^2$ | T: 12,51 | $\frac{10}{3}$ |
| $x^{12} - 4x^{10} - 10x^8 + 8x^6 + 10x^4 - 4x^2 + 14$ | $x^{12} + 60x^{10} + 4950x^8 + 114000x^6 + 959850x^4 + 2632500x^2 - 101250$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 3 \frac{8}{3} \quad 3 \frac{8}{3} \quad 3 \frac{23}{6} \quad 3 \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 2x^8 + 10$ | $x^{12} + 22x^8 - 308x^4 - 10648$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \frac{8}{3} \quad 3 \frac{8}{3} \quad 3 \frac{8}{3} \quad 3 \frac{8}{3} \quad 4 \right]_3^2$ | T: 12,141 | $\frac{643}{192}$ |
| $x^{12} + 8x^8 - 4x^4 - 12x^2 + 14$ | $x^{12} + 60x^{10} + 1050x^8 + 4880x^6 - 15780x^4 - 174000x^2 - 441800$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 3 \frac{8}{3} \quad 3 \frac{8}{3} \quad 3 \frac{23}{6} \quad 3 \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 4x^{10} - 14x^8 + 16x^4 + 16x^2 + 14$ | $x^{12} + 12x^{10} + 60x^8 + 160x^6 + 284x^4 + 368x^2 - 2$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 19 & 6 \\ & 4 & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{667}{192}$ |
| $x^{12} - 4x^8 + 4x^6 - 4x^4 + 4x^2 - 2$ | $x^{12} - 12x^8 + 84x^6 - 180x^4 + 252x^2 - 18$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \\ & 23 & 23 \\ & 4 & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} + 4x^6 - 4x^4 + 4x^2 - 2$ | $x^{12} + 12x^{10} - 1086x^8 - 3600x^7 + 3016x^6 + 44280x^5 + 102984x^4 + 100800x^3 + 44772x^2 + 7200x + 166$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 8 & 3 \\ & 3 & 3 \\ & 23 & 23 \\ & 4 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} + 14x^8 + 6x^4 + 8x^2 + 14$ | $x^{12} - 44x^8 + 3146x^4 - 29282$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \\ & 11 & 11 \\ & 4 & 3 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} - 8x^{10} + 14x^8 - 12x^6 - 14x^4 + 4x^2 - 14$ | $x^{12} + 6x^8 + 28x^6 + 42x^4 + 36x^2 + 18$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \\ & 23 & 23 \\ & 4 & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 12x^6 - 14$ | $x^{12} + 8x^{10} + 20x^8 + 236x^6 + 268x^4 + 88x^2 + 242$ | $\left[\begin{array}{ccc} 3 & 4 & 3 \end{array} \right]_3^2$ | T: 12,1 | $\frac{35}{12}$ |
| $x^{12} + 4x^{10} + 6x^8 + 4x^6 + 2x^4 - 4x^2 + 2$ | $x^{12} + 48x^{10} + 888x^8 + 7776x^6 + 30990x^4 + 38700x^2 - 6750$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 8 & 3 \\ & 3 & 3 \\ & 23 & 23 \\ & 4 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} + 4x^{10} + 12x^6 - 2x^4 + 8x^2 - 14$ | $x^{12} + 4x^{10} + 70x^8 + 528x^6 + 484x^4 - 1936x^2 + 968$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 4 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 4x^{10} + 6x^8 + 4x^6 + 6$ | $x^{12} - 24x^{10} + 240x^8 - 1100x^6 + 2700x^4 - 4200x^2 + 3750$ | $\left[\begin{array}{ccc} 4 & 4 & 5 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 5 & 5 & 3 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{301}{96}$ |
| $x^{12} - 4x^{10} + 10x^8 - 12x^6 + 16x^4 + 16x^2 + 10$ | $x^{12} + 12x^{10} + 90x^8 + 484x^6 + 1392x^4 + 1440x^2 + 10$ | $\left[\begin{array}{ccc} 4 & 4 & 5 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 5 & 5 & 3 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{301}{96}$ |
| $x^{12} + 2x^8 + 8x^4 + 8x^2 + 2$ | $x^{12} + 1364x^4 + 29282$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 7 & 3 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{631}{192}$ |
| $x^{12} + 6x^8 + 16x^6 + 8x^4 + 8x^2 - 14$ | $x^{12} + 4x^8 + 4x^4 + 2$ | $\left[\begin{array}{ccc} 2 & 3 & 4 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,14 | $\frac{37}{12}$ |
| $x^{12} - 4x^8 - 4x^6 - 4x^2 - 6$ | $x^{12} + 180x^8 - 1900x^6 - 33000x^4 - 112500x^2 - 93750$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^4 + 8x^2 + 6$ | $x^{12} - 22x^8 + 2662$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 3 & 4 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,51 | $\frac{10}{3}$ |
| $x^{12} + 16x^{10} - 6x^8 + 4x^6 - 2x^4 - 10$ | $x^{12} - 270x^8 + 6300x^6 + 101250x^4 + 81000x^2 - 20250$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 4 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} + 4x^{10} + 12x^8 - 8x^6 - 14x^4 - 8x^2 - 10$ | $x^{12} + 84x^{10} + 990x^8 + 3000x^6 - 6750x^4 - 45000x^2 - 56250$ | $\left[\begin{array}{ccc} 4 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 4 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 12x^{10} + 12x^8 + 4x^6 + 6x^4 - 8x^2 + 14$ | $x^{12} - 60x^{10} + 1350x^8 - 16800x^6 - 180900x^4 - 486000x^2 - 405000$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 4 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} - 4x^{10} - 4x^8 + 2x^4 + 8x^2 - 2$ | $x^{12} + 60x^{10} + 1380x^8 + 15200x^6 + 65850x^4 - 123000x^2 - 781250$ | $\left[\begin{array}{ccc} 4 & 2 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 4 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 8x^{10} + 4x^8 - 4x^6 + 4x^4 - 4x^2 - 2$ | $x^{12} + 8x^{10} + 28x^8 + 52x^6 - 36x^4 - 460x^2 - 722$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} - 4x^{10} - 6x^8 - 4x^6 + 4x^4 + 4x^2 - 2$ | $x^{12} - 210x^8 + 3100x^6 - 21600x^4 + 49500x^2 - 11250$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^{10} + 8x^4 + 8x^2 - 6$ | $x^{12} - 6x^8 + 12x^4 - 6$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 3 & 4 \\ 4 & 4 & 4 \end{array} \right]_3^2$ | T: 12,51 | $\frac{10}{3}$ |
| $x^{12} + 16x^{10} - 14x^8 - 8x^6 + 8x^4 + 8x^2 - 14$ | $x^{12} - 44x^8 + 29282$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 7 & 3 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{631}{192}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} + 12x^{10} + 16x^8 - 4x^6 + 12x^4 + 12x^2 - 10$ | $x^{12} - 48x^{10} - 3096x^8 - 60672x^6 - 592704x^4 - 3041280x^2 - 6658560$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad 3 \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 4x^{10} + 14x^8 - 12x^6 - 14x^4 + 4x^2 + 10$ | $x^{12} - 48x^{10} - 1266x^8 - 8600x^6 - 15900x^4 + 3600x^2 - 600$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad 3 \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} + 4x^8 - 6x^4 + 8x^2 + 6$ | $x^{12} + 22x^8 - 484x^4 + 10648$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{11}{3} \quad 3 \quad \frac{11}{3} \quad 4 \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} - 12x^{10} + 16x^6 + 16x^4 - 12x^2 + 10$ | $x^{12} - 12x^{10} + 54x^8 - 100x^6 + 240x^4 + 900x^2 + 250$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad 3 \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} - 8x^{10} - 4x^6 - 4x^4 + 4x^2 + 14$ | $x^{12} - 24x^{10} - 366x^8 + 18640x^6 - 198900x^4 + 972000x^2 - 2205000$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad 3 \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 2x^8 + 2$ | $x^{12} - 2x^8 + 2$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad 3 \quad 4 \right]_3^2$ | T: 12,51 | $\frac{10}{3}$ |
| $x^{12} - 8x^{10} + 10x^8 - 12x^6 - 2x^4 + 16x^2 - 10$ | $x^{12} - 120x^{10} + 450x^8 + 8700x^6 - 22950x^4 + 27000x^2 - 2250$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{11}{3} \quad 3 \quad \frac{11}{3} \quad 4 \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 4x^{10} + 6x^8 - 4x^6 + 2x^4 - 4x^2 + 2$ | $x^{12} - 36x^{10} + 162x^8 + 312x^6 - 1140x^4 - 2880x^2 - 1080$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad 3 \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} + 8x^{10} + 8x^8 - 4x^6 + 6x^4 - 2$ | $x^{12} - 12x^{10} + 6x^8 + 272x^6 - 372x^4 - 1200x^2 - 5000$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} \frac{11}{3} \\ \frac{11}{3} \\ 4 \end{array} \Bigg]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} - 12x^{10} + 4x^8 + 16x^6 + 16x^4 - 14$ | $x^{12} + 16x^{10} + 110x^8 + 396x^6 + 748x^4 + 660x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 3 \\ 3 \\ \frac{23}{6} \end{array} \frac{23}{6} \frac{4}{6} \Bigg]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 4x^{10} - 6x^8 - 4x^6 + 6x^4 + 2$ | $x^{12} - 24x^{10} - 16x^9 + 230x^8 + 464x^7 - 304x^6 - 2456x^5 - 5028x^4 - 5760x^3 - 3244x^2 - 424x + 158$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} \frac{11}{3} \\ \frac{11}{3} \\ 4 \end{array} \Bigg]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 4x^{10} - 10x^8 - 8x^6 + 16x^4 + 4x^2 - 14$ | $x^{12} - 16x^{10} + 96x^8 - 220x^6 + 484x^2 + 242$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 3 \\ 3 \\ \frac{23}{6} \end{array} \frac{23}{6} \frac{4}{6} \Bigg]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} - 12x^{10} - 12x^8 - 2x^4 + 12x^2 + 14$ | $x^{12} - 4x^{10} - 20x^8 + 224x^6 - 714x^4 + 1012x^2 - 242$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 3 \\ 3 \\ \frac{23}{6} \end{array} \frac{23}{6} \frac{4}{6} \Bigg]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 8x^{10} - 4x^8 - 4x^6 + 6x^4 + 8x^2 - 6$ | $x^{12} - 24x^{10} + 204x^8 - 660x^6 + 774x^4 - 360x^2 + 90$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} \frac{11}{3} \\ \frac{11}{3} \\ 4 \end{array} \Bigg]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 4x^{10} - 2x^8 + 2x^4 + 4x^2 - 2$ | $x^{12} + 48x^{10} + 198x^8 - 18240x^6 - 218250x^4 + 40500x^2 - 450$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_4 \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 8x^{10} + 14x^8 + 8x^6 - 12x^4 + 4x^2 + 14$ | $x^{12} - 4x^{10} + 2x^8 + 16x^6 - 24x^4 + 12x^2 - 2$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_4 \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} + 4x^{10} + 4x^6 + 4x^4 + 4x^2 - 2$ | $x^{12} + 48x^{10} + 324x^8 + 10092x^6 + 32256x^4 - 65340x^2 - 238050$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_4 \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 12x^{10} + 12x^8 + 16x^6 - 2x^4 + 4x^2 - 10$ | $x^{12} - 44x^{10} + 836x^8 - 8712x^6 + 54934x^4 - 218284x^2 + 449878$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_4 \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} - 4x^{10} + 12x^8 + 8x^4 + 8x^2 + 14$ | $x^{12} + 12x^{10} + 6x^8 + 24x^6 - 8x^4 + 24x^2 - 18$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \right]_4 \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3^2$ | T: 12,134 | $\frac{667}{192}$ |
| $x^{12} + 2x^8 + 8x^6 + 8x^4 + 8x^2 - 6$ | $x^{12} - 176x^8 + 9856x^4 - 170368$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 7 & 7 \\ 3 & 3 & 3 \end{array} \right]_4 \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{631}{192}$ |
| $x^{12} + 4x^{10} - 4x^8 - 6x^4 + 6$ | $x^{12} - 12x^{10} - 180x^8 + 4800x^6 - 33750x^4 + 90000x^2 - 56250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_4 \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 4x^{10} - 4x^8 + 4x^6 - 2x^4 - 4x^2 - 6$ | $x^{12} - 12x^{10} - 90x^8 + 616x^6 - 636x^4 + 40$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \end{array} \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 4x^{10} - 4x^8 + 8x^6 - 2x^4 + 4x^2 + 6$ | $x^{12} + 198x^8 + 1452x^6 + 1210x^4 - 5324x^2 + 2662$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \end{array} \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 4x^6 + 4x^4 + 4x^2 - 2$ | $x^{12} - 330x^8 + 2600x^6 + 9000x^4 - 37500x^2 - 31250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 8x^{10} - 10x^8 - 4x^6 + 16x^2 - 14$ | $x^{12} + 12x^{10} + 20x^6 + 48x^4 + 24x^2 + 2$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 19 \\ 6 \end{array} \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3^2$ | T: 12,99 | $\frac{331}{96}$ |
| $x^{12} + 16x^{10} - 8x^6 - 14x^4 + 16x^2 - 10$ | $x^{12} + 8x^8 + 22x^4 + 22$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 11 \\ 3 \end{array} \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 8x^{10} + 16x^8 + 12x^4 - 4x^2 - 10$ | $x^{12} + 16x^{10} + 98x^8 + 308x^6 + 484x^4 + 308x^2 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \end{array} \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 2x^8 - 8x^6 - 2x^4 + 4x^2 - 14$ | $x^{12} + 16x^{10} + 110x^8 + 352x^6 + 374x^4 - 572x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} + 8x^{10} - 10x^8 + 8x^6 - 10x^4 + 16x^2 + 14$ | $x^{12} - 18x^8 + 110x^4 - 242$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{c} 11 \\ 3 \\ 4 \end{array} \Bigg]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 4x^{10} - 2x^8 + 2$ | $x^{12} + 12x^{10} + 48x^8 + 64x^6 + 162$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{c} 19 \\ 6 \\ 4 \end{array} \Bigg]_3^2$ | T: 12,142 | $\frac{667}{192}$ |
| $x^{12} - 12x^{10} + 12x^8 - 12x^6 + 14x^4 - 4x^2 + 10$ | $x^{12} + 24x^{10} - 300x^8 + 812x^6 - 606x^4 + 60x^2 + 10$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \\ 4 \end{array} \Bigg]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 4x^{10} + 4x^8 - 4x^6 + 8x^4 + 8x^2 + 2$ | $x^{12} - 20x^{10} + 140x^8 - 468x^6 + 792x^4 - 648x^2 + 162$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{c} 19 \\ 6 \\ 4 \end{array} \Bigg]_3^2$ | T: 12,105 | $\frac{331}{96}$ |
| $x^{12} + 4x^{10} - 12x^8 + 12x^6 - 8x^4 - 8x^2 + 10$ | $x^{12} + 12x^{10} - 372x^8 - 1028x^6 - 264x^4 + 120x^2 + 10$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{c} 19 \\ 6 \\ 4 \end{array} \Bigg]_3^2$ | T: 12,105 | $\frac{331}{96}$ |
| $x^{12} - 4x^{10} - 4x^8 + 6$ | $x^{12} + 18x^8 - 384x^6 + 1260x^4 - 1152x^2 + 600$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{c} 19 \\ 6 \\ 4 \end{array} \Bigg]_3^2$ | T: 12,134 | $\frac{667}{192}$ |
| $x^{12} + 10x^8 - 8x^6 - 8x^4 + 12x^2 - 14$ | $x^{12} + 12x^{10} + 72x^8 + 256x^6 + 432x^4 + 192x^2 + 32$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \\ 4 \end{array} \Bigg]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 2x^8 + 2x^4 + 2$ | $x^{12} + 2x^8 + 2x^4 + 2$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right] \begin{array}{c} 11 \\ 3 \\ 4 \end{array} \Bigg]_3^2$ | T: 12,141 | $\frac{89}{24}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 4x^{10} - 6x^8 + 4x^6 + 8x^4 + 8x^2 + 6$ | $x^{12} + 12x^8 - 4x^6 + 108x^4 - 48x^2 + 6$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,29 | $\frac{79}{24}$ |
| $x^{12} - 4x^8 + 16x^6 + 8x^4 - 12x^2 - 14$ | $x^{12} + 4x^{10} - 18x^8 - 44x^6 + 220x^4 + 484x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 6 \\ 6 & 4 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^{10} + 16x^8 + 12x^6 - 14$ | $x^{12} + 24x^{10} + 204x^8 + 748x^6 + 1276x^4 + 968x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,29 | $\frac{73}{24}$ |
| $x^{12} + 8x^{10} + 8x^8 + 4x^2 - 6$ | $x^{12} + 80x^6 + 120x^4 + 60x^2 + 10$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 6 \\ 6 & 4 & 3 \end{array} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} - 4x^{10} + 4x^8 + 4x^6 + 8x^4 + 8x^2 - 2$ | $x^{12} - 28x^{10} + 218x^8 - 528x^6 - 660x^4 + 1936x^2 - 968$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 6 \\ 6 & 4 & 3 \end{array} \right]_3^2$ | T: 12,105 | $\frac{331}{96}$ |
| $x^{12} + 8x^{10} - 6x^8 + 8x^6 - 6x^4 - 4x^2 - 2$ | $x^{12} - 60x^{10} + 900x^8 + 14160x^6 - 593280x^4 + 6739200x^2 - 26791200$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 6 \\ 6 & 4 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^{10} + 6x^8 + 8x^6 - 2$ | $x^{12} - 6x^8 + 12x^4 - 2$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{643}{192}$ |
| $x^{12} + 4x^{10} - 4x^8 - 4x^6 + 6x^4 + 8x^2 - 2$ | $x^{12} + 84x^{10} + 2628x^8 + 38028x^6 + 257094x^4 + 651240x^2 - 36450$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 3 \\ 3 & 4 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} + 4x^8 + 12x^6 - 8x^4 - 12x^2 + 10$ | $x^{12} + 180x^8 + 1900x^6 - 33000x^4 + 112500x^2 - 93750$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 4x^{10} + 6x^8 + 12x^6 - 6x^4 - 4x^2 + 10$ | $x^{12} - 24x^{10} + 270x^4 - 324x^2 - 4374$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 8x^{10} + 6x^8 - 8x^6 - 14x^4 - 12x^2 - 10$ | $x^{12} - 16x^{10} + 110x^8 - 440x^6 + 1210x^4 - 2420x^2 + 2662$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 8x^{10} + 8x^8 + 4x^6 - 2x^4 + 8x^2 + 6$ | $x^{12} + 24x^{10} + 264x^8 + 1460x^6 + 4878x^4 + 9288x^2 + 9126$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 4 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} - 2x^8 + 8x^6 + 4x^4 - 4x^2 - 2$ | $x^{12} + 44x^{10} + 748x^8 + 5324x^6 + 15004x^4 + 5324x^2 - 29282$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} + 4x^{10} - 2x^8 + 4x^2 + 2$ | $x^{12} - 4x^{10} - 36x^8 + 36x^6 + 532x^4 + 660x^2 + 242$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} + 12x^{10} - 12x^8 + 8x^6 - 10x^4 + 12x^2 - 10$ | $x^{12} - 4x^{11} - 42x^{10} + 180x^9 + 513x^8 - 2296x^7 - 1860x^6 + 4568x^5 + 8455x^4 + 20076x^3 + 33142x^2 + 23940x + 6359$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{4}{3} & 2 & \frac{8}{3} \\ \frac{4}{3} & \frac{4}{3} & 3 \end{array} \right]_3 \begin{array}{ccc} \frac{23}{6} & \frac{11}{3} & 4 \\ \frac{23}{6} & \frac{11}{3} & 4 \\ \frac{23}{6} & \frac{11}{3} & 4 \end{array} \right]^2_3$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} - 4x^{10} - 6x^4 - 2$ | $x^{12} - 60x^{10} + 1170x^8 - 7600x^6 + 5250x^4 - 781250$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ \frac{4}{3} & 2 & \frac{8}{3} \\ \frac{4}{3} & \frac{4}{3} & 3 \end{array} \right]_3 \begin{array}{ccc} \frac{11}{3} & \frac{11}{3} & 4 \\ \frac{11}{3} & \frac{11}{3} & 4 \\ \frac{11}{3} & \frac{11}{3} & 4 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 4x^{10} + 2x^8 - 4x^6 - 4x^4 - 4x^2 - 2$ | $x^{12} - 60x^{10} + 810x^8 - 2400x^6 - 8100x^4 + 162000x^2 - 405000$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ \frac{4}{3} & 2 & \frac{8}{3} \\ \frac{4}{3} & \frac{4}{3} & 3 \end{array} \right]_3 \begin{array}{ccc} \frac{23}{6} & \frac{11}{3} & 4 \\ \frac{23}{6} & \frac{11}{3} & 4 \\ \frac{23}{6} & \frac{11}{3} & 4 \end{array} \right]^2_3$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 4x^{10} + 4x^8 + 2x^4 + 2$ | $x^{12} - 4x^{10} - 14x^8 - 56x^6 - 30x^4 + 2$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ \frac{4}{3} & 2 & \frac{8}{3} \\ \frac{4}{3} & \frac{4}{3} & 3 \end{array} \right]_3 \begin{array}{ccc} \frac{11}{3} & \frac{11}{3} & 4 \\ \frac{11}{3} & \frac{11}{3} & 4 \\ \frac{11}{3} & \frac{11}{3} & 4 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 8x^8 + 4x^6 - 2x^4 - 4x^2 - 6$ | $x^{12} + 12x^{10} - 42x^8 - 368x^6 + 846x^4 + 900x^2 + 90$ | $\left[\begin{array}{ccc} 8 & \frac{8}{3} & 3 \\ \frac{8}{3} & 2 & \frac{8}{3} \\ \frac{8}{3} & \frac{8}{3} & 3 \end{array} \right]_3 \begin{array}{ccc} \frac{23}{6} & \frac{11}{3} & 4 \\ \frac{23}{6} & \frac{11}{3} & 4 \\ \frac{23}{6} & \frac{11}{3} & 4 \end{array} \right]^2_3$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 4x^8 - 4x^6 + 8x^4 + 4x^2 - 6$ | $x^{12} + 48x^{10} - 186x^8 + 3200x^6 - 24180x^4 + 36000x^2 - 15000$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ \frac{4}{3} & 2 & \frac{8}{3} \\ \frac{4}{3} & \frac{4}{3} & 3 \end{array} \right]_3 \begin{array}{ccc} \frac{23}{6} & \frac{11}{3} & 4 \\ \frac{23}{6} & \frac{11}{3} & 4 \\ \frac{23}{6} & \frac{11}{3} & 4 \end{array} \right]^2_3$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 16x^{10} + 8x^6 + 10x^4 + 8x^2 - 10$ | $x^{12} + 6x^8 + 44x^4 + 88$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & 2 & \frac{8}{3} \\ \frac{8}{3} & \frac{8}{3} & 3 \end{array} \right]_3 \begin{array}{ccc} \frac{11}{3} & \frac{11}{3} & 4 \\ \frac{11}{3} & \frac{11}{3} & 4 \\ \frac{11}{3} & \frac{11}{3} & 4 \end{array} \right]^2_3$ | T: 12,141 | $\frac{89}{24}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 4x^{10} - 4x^8 + 8x^6 - 6$ | $x^{12} + 12x^{10} + 52x^8 + 96x^6 + 64x^4 - 22$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 3 \\ 3 & 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{667}{192}$ |
| $x^{12} - 2x^8 + 4x^6 + 2$ | $x^{12} + 12x^{10} + 36x^8 - 12x^6 - 108x^4 + 288x^2 + 18$ | $\left[\begin{array}{cccc} 4 & 4 & 3 & 19 \\ 3 & 3 & 6 & 6 \end{array} \right]_3^2$ | T: 12,99 | $\frac{331}{96}$ |
| $x^{12} + 16x^{10} + 6x^8 - 8x^6 - 8x^4 + 8x^2 + 14$ | $x^{12} + 1364x^4 - 29282$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 7 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,141 | $\frac{631}{192}$ |
| $x^{12} - 12x^{10} - 4x^8 + 8x^4 + 8x^2 + 14$ | $x^{12} - 12x^{10} + 6x^8 - 24x^6 - 8x^4 - 24x^2 - 18$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 3 \\ 3 & 3 & 6 & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{667}{192}$ |
| $x^{12} - 4x^{10} + 12x^8 - 12x^6 - 10x^4 - 10$ | $x^{12} + 60x^{10} + 90x^8 - 15600x^6 - 110700x^4 - 270000x^2 - 225000$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 6x^8 + 6$ | $x^{12} + 22x^8 - 88x^4 + 2662$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,141 | $\frac{643}{192}$ |
| $x^{12} + 4x^2 + 2$ | $x^{12} + 12x^{10} + 60x^8 + 152x^6 + 156x^4 + 60x^2 + 50$ | $\left[\begin{array}{cccc} 8 & 8 & 3 & 23 \\ 3 & 3 & 6 & 6 \end{array} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} - 4x^{10} - 6x^8 - 4x^6 - 4x^4 + 4x^2 + 6$ | $x^{12} - 120x^{10} - 990x^8 - 1200x^6 + 2700x^4 - 9000$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 8x^{10} + 8x^8 - 4x^6 - 2x^4 - 6$ | $x^{12} - 60x^{10} + 1410x^8 - 16400x^6 + 98700x^4 - 294000x^2 + 289000$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{11}{3} \left[\begin{array}{ccc} 11 & 11 & 4 \\ 3 & 4 & 3 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} - 12x^{10} - 2x^8 + 8x^6 - 8x^4 - 8x^2 - 14$ | $x^{12} - 20x^{10} + 40x^8 + 1880x^6 - 17800x^4 + 58760x^2 - 66270$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \frac{19}{6} \left[\begin{array}{ccc} 19 & 19 & 4 \\ 6 & 4 & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{667}{192}$ |
| $x^{12} - 4x^{10} + 2x^8 - 2x^4 + 8x^2 + 6$ | $x^{12} - 12x^{10} + 56x^8 - 128x^6 + 150x^4 - 88x^2 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \frac{8}{3} \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{11}{3} \left[\begin{array}{ccc} 11 & 11 & 4 \\ 3 & 4 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} - 4x^{10} - 6x^8 - 4x^6 + 2$ | $x^{12} - 24x^{10} + 252x^8 - 1364x^6 + 2808x^4 + 1200x^2 + 2450$ | $\left[\begin{array}{ccc} 4 & 4 & 5 \\ 3 & 3 & 3 \end{array} \right] \frac{5}{3} \left[\begin{array}{ccc} 5 & 5 & 3 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{301}{96}$ |
| $x^{12} + 16x^{10} - 6x^8 + 4x^6 + 2x^4 + 4x^2 + 10$ | $x^{12} + 60x^{10} - 1590x^8 - 2300x^6 + 42150x^4 - 85500x^2 - 3750$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \frac{8}{3} \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{23}{6} \left[\begin{array}{ccc} 23 & 23 & 4 \\ 6 & 4 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} + 6x^8 + 4x^6 + 8x^4 + 8x^2 + 6$ | $x^{12} + 12x^{10} + 56x^8 + 124x^6 + 156x^4 + 88x^2 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{19}{6} \left[\begin{array}{ccc} 19 & 19 & 4 \\ 6 & 4 & 3 \end{array} \right]_3^2$ | T: 12,105 | $\frac{331}{96}$ |
| $x^{12} - 4x^{10} - 6x^8 + 12x^6 + 6x^4 + 8x^2 - 14$ | $x^{12} - 28x^{10} + 194x^8 - 660x^6 + 1166x^4 - 968x^2 + 242$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{11}{3} \left[\begin{array}{ccc} 11 & 11 & 4 \\ 3 & 4 & 3 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 8x^{10} + 2x^8 + 2x^4 - 6$ | $x^{12} - 22x^8 - 484x^4 - 10648$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ & 3 & 3 & 3 \\ & & 11 & 3 \\ & & & 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 4x^{10} + 4x^8 + 8x^6 - 2x^4 - 4x^2 - 2$ | $x^{12} + 8x^{10} - 8x^9 + 2x^8 - 128x^6 + 384x^5 - 480x^4 + 320x^3 - 120x^2 + 24x - 2$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ & 3 & 3 & 3 \\ & & 23 & 6 \\ & & & 4 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} - 4x^{10} - 4x^8 + 8x^6 - 14x^4 + 8x^2 + 14$ | $x^{12} + 60x^{10} + 1470x^8 + 18800x^6 + 124350x^4 + 327000x^2 - 61250$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \\ & & 11 & 3 \\ & & & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} - 12x^{10} + 4x^8 + 12x^6 + 16x^2 + 14$ | $x^{12} + 16x^{10} + 86x^8 - 132x^6 - 880x^4 - 968x^2 - 242$ | $\left[\begin{array}{cccc} 4 & 4 & 3 & 19 \\ 3 & 3 & 6 & 6 \\ & & 19 & 4 \\ & & & 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{331}{96}$ |
| $x^{12} - 4x^{10} - 4x^8 + 12x^6 - 10x^4 + 16x^2 - 14$ | $x^{12} + 16x^{10} + 74x^8 - 140x^6 + 586x^4 + 528x^2 + 242$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \\ & & 11 & 3 \\ & & & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 8x^{10} + 4x^6 + 2$ | $x^{12} - 264x^8 + 2420x^6 + 1936x^4 - 21296x^2 + 29282$ | $\left[\begin{array}{cccc} 4 & 4 & 3 & 4 \\ 3 & 3 & 3 & 4 \\ & & & 4 \end{array} \right]_3^2$ | T: 12,29 | $\frac{73}{24}$ |
| $x^{12} + 16x^{10} - 12x^8 + 12x^6 - 12x^2 - 14$ | $x^{12} - 12x^{10} + 18x^8 - 24x^6 - 240x^4 + 180x^2 - 270$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \\ & & 23 & 6 \\ & & & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 2x^8 - 4x^6 + 8x^4 + 8x^2 - 2$ | $x^{12} + 20x^{10} + 128x^8 + 236x^6 + 64x^4 + 1232x^2 - 242$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \frac{19}{6} \right]_3^2$ | T: 12,99 | $\frac{331}{96}$ |
| $x^{12} + 8x^8 + 4x^6 + 6x^4 + 6$ | $x^{12} + 12x^{10} + 66x^8 + 220x^6 + 738x^4 + 1224x^2 + 1014$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \frac{11}{3} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 16x^{10} + 4x^8 - 8x^6 - 14x^4 + 16x^2 - 10$ | $x^{12} - 22x^8 + 484x^4 + 10648$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \frac{11}{3} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} - 4x^{10} - 6x^8 - 4x^6 - 6$ | $x^{12} - 12x^{10} + 90x^8 - 4x^6 - 168x^4 + 90$ | $\left[\begin{array}{ccc} 4 & 4 & 5 \\ 3 & 3 & 3 \end{array} \frac{5}{3} \right]_3^2$ | T: 12,94 | $\frac{301}{96}$ |
| $x^{12} + 16x^{10} - 2x^8 + 4x^6 - 4x^4 - 12x^2 - 10$ | $x^{12} + 4x^{10} + 66x^8 + 220x^6 + 968x^4 + 1452x^2 + 2662$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} - 4x^{10} + 4x^8 + 8x^6 + 4x^4 - 4x^2 - 2$ | $x^{12} - 16x^6 - 24x^4 - 12x^2 - 2$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 4x^{10} - 6x^8 + 8x^6 + 6x^4 + 4x^2 - 6$ | $x^{12} - 8x^{10} + 2x^8 - 296x^6 - 292x^4 - 176x^2 - 88$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \frac{8}{3} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 4x^{10} - 6x^8 - 4x^6 - 6$ | $x^{12} + 36x^{10} + 462x^8 + 2400x^6 + 3132x^4 - 6480x^2 + 3240$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{5}{3} \frac{5}{3} \frac{3}{3} \frac{4}{3} \right]_3^2$ | T: 12,94 | $\frac{301}{96}$ |
| $x^{12} - 8x^8 - 8x^6 - 10x^4 + 12x^2 - 10$ | $x^{12} + 24x^{10} - 24x^9 + 198x^8 - 384x^7 + 672x^6 - 1248x^5 + 1452x^4 - 960x^3 + 360x^2 - 72x + 6$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{23}{6} \frac{23}{6} \frac{4}{6} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} - 4x^{10} + 6x^8 - 6x^4 - 4x^2 - 2$ | $x^{12} + 60x^{10} + 1170x^8 + 11400x^6 + 58500x^4 - 1125000$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{23}{6} \frac{23}{6} \frac{4}{6} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 2x^4 + 10$ | $x^{12} - 8x^8 + 22x^4 - 22$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{11}{3} \frac{11}{3} \frac{4}{3} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 4x^{10} + 2x^8 + 8x^6 + 2$ | $x^{12} + 12x^{10} + 48x^8 + 64x^6 + 44x^4 + 176x^2 + 242$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{4}{3} \frac{2}{3} \frac{3}{3} \frac{19}{6} \frac{19}{6} \frac{4}{6} \right]_3^2$ | T: 12,134 | $\frac{667}{192}$ |
| $x^{12} - 4x^8 + 8x^6 + 8x^4 + 4x^2 + 2$ | $x^{12} - 16x^{10} + 86x^8 - 308x^4 + 968$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{23}{6} \frac{23}{6} \frac{4}{6} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 12x^{10} + 4x^8 - 4x^6 + 8x^4 - 8x^2 + 14$ | $x^{12} + 28x^{10} + 218x^8 + 528x^6 - 660x^4 - 1936x^2 - 968$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{4}{3} \frac{3}{3} \frac{19}{6} \frac{19}{6} \frac{4}{6} \right]_3^2$ | T: 12,105 | $\frac{331}{96}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} + 4x^{10} - 4x^8 + 4x^4 + 4x^2 + 6$ | $x^{12} - 12x^{10} + 30x^8 + 44x^6 - 12x^4 - 12x^2 + 6$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 3 \end{array} \Bigg]^2_3$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 6x^8 - 2x^4 - 4x^2 - 6$ | $x^{12} + 8x^{10} + 16x^8 - 132x^6 - 374x^4 - 308x^2 - 22$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 3 & 23 \\ 6 & 6 & 6 \end{array} \Bigg]^2_3$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^{10} + 2x^8 - 6x^4 + 4x^2 + 6$ | $x^{12} - 24x^{10} + 182x^8 - 440x^6 + 396x^4 - 176x^2 + 88$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 3 & 23 \\ 6 & 6 & 6 \end{array} \Bigg]^2_3$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 4x^{10} - 6x^8 + 4x^6 + 8x^4 + 8x^2 + 6$ | $x^{12} - 12x^{10} + 50x^8 - 80x^6 + 44x^4 - 48x^2 + 88$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 3 & 4 \\ 3 & 3 & 3 \end{array} \Bigg]^2_3$ | T: 12,29 | $\frac{79}{24}$ |
| $x^{12} - 8x^{10} + 6x^8 + 16x^6 - 2x^4 + 12x^2 + 10$ | $x^{12} - 28x^{10} + 174x^8 - 440x^6 + 308x^4 - 88$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 3 & 3 & 23 \\ 6 & 6 & 6 \end{array} \Bigg]^2_3$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 4x^{10} + 2x^8 + 16x^6 + 8x^4 - 8x^2 - 10$ | $x^{12} - 4x^{10} + 22x^8 + 24x^6 - 12x^4 - 40x^2 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 19 & 19 & 4 \\ 6 & 6 & 3 \end{array} \Bigg]^2_3$ | T: 12,142 | $\frac{667}{192}$ |
| $x^{12} + 8x^8 - 4x^6 - 2x^4 - 6$ | $x^{12} - 24x^{10} + 192x^8 - 908x^6 + 2322x^4 - 3240x^2 + 810$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 11 & 11 & 4 \\ 3 & 3 & 3 \end{array} \Bigg]^2_3$ | T: 12,94 | $\frac{355}{96}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} + 4x^{10} - 6x^8 + 8x^6 + 4x^4 + 4x^2 + 6$ | $x^{12} + 16x^{10} + 86x^8 + 264x^6 + 880x^4 + 2420x^2 + 2662$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad 3 \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^8 + 4x^2 - 6$ | $x^{12} + 20x^{10} + 110x^8 + 320x^6 + 380x^4 + 80x^2 + 40$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad 3 \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 4x^{10} + 4x^8 + 8x^6 + 4x^4 - 4x^2 - 2$ | $x^{12} - 12x^{10} + 76x^8 - 152x^6 - 524x^4 + 572x^2 - 242$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad 3 \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} - 6x^4 - 8x^2 + 14$ | $x^{12} - 6x^8 - 6x^4 - 2$ | $\left[2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{11}{3} \quad 3 \quad \frac{11}{3} \quad 4 \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} - 12x^{10} + 4x^8 + 16x^6 + 12x^4 + 12x^2 - 10$ | $x^{12} + 12x^{10} + 60x^8 + 152x^6 + 180x^4 + 60x^2 + 6$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad 3 \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 4x^{10} + 2x^8 + 2$ | $x^{12} + 12x^{10} + 70x^8 + 240x^6 + 484x^4 + 528x^2 + 242$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \quad \frac{4}{3} \quad 2 \quad 3 \quad \frac{19}{6} \quad 3 \quad \frac{19}{6} \quad 4 \right]_3^2$ | T: 12,134 | $\frac{667}{192}$ |
| $x^{12} + 8x^{10} - 8x^8 - 4x^4 - 12x^2 + 14$ | $x^{12} - 60x^{10} - 2790x^8 + 73200x^6 - 332100x^4 - 810000x^2 - 405000$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \quad \frac{4}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad 3 \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 4x^{10} + 4x^8 + 4x^6 + 8x^4 + 8x^2 + 2$ | $x^{12} + 20x^{10} + 140x^8 + 468x^6 + 792x^4 + 648x^2 + 162$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right] \begin{array}{c} 19 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{331}{96}$ |
| $x^{12} - 4x^{10} - 12x^8 + 12x^6 + 10x^4 + 12x^2 - 2$ | $x^{12} + 12x^{10} + 62x^8 + 40x^6 - 10x^4 - 12x^2 - 2$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right] \begin{array}{c} 23 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 4x^{10} + 2x^8 + 4x^6 + 4x^4 + 4x^2 - 2$ | $x^{12} - 210x^8 - 3100x^6 - 21600x^4 - 49500x^2 - 11250$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 16x^{10} + 6x^8 - 4x^6 + 14x^4 + 8x^2 + 10$ | $x^{12} - 12x^{10} + 46x^8 - 48x^6 - 76x^4 + 176x^2 - 88$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 11 \\ 3 \end{array} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 6x^8 + 8x^6 + 6x^4 - 2$ | $x^{12} - 10x^8 + 58x^4 - 242$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 11 \\ 3 \end{array} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 8x^{10} - 4x^8 + 4x^6 - 4x^2 - 6$ | $x^{12} + 150x^8 + 11200x^6 + 26100x^4 - 40500x^2 - 33750$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 12x^{10} - 6x^8 - 4x^6 + 16x^4 + 16x^2 + 10$ | $x^{12} + 36x^{10} + 366x^8 + 1824x^6 + 4572x^4 + 5040x^2 + 360$ | $\left[\begin{array}{ccc} 4 & 4 & 5 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 5 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{301}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} + 14x^8 + 4x^6 + 14x^4 + 8x^2 + 10$ | $x^{12} - 20x^{10} + 144x^8 - 396x^6 - 66x^4 + 1936x^2 - 2662$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{11}{3} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 12x^8 - 4x^6 + 12x^2 + 10$ | $x^{12} - 48x^{10} - 186x^8 - 3200x^6 - 24180x^4 - 36000x^2 - 15000$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{23}{6} \frac{23}{6} \frac{23}{6} \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 4x^{10} - 6x^8 + 8x^6 - 2x^4 + 4x^2 + 2$ | $x^{12} - 16x^{10} + 100x^8 - 324x^6 + 614x^4 - 660x^2 + 338$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{23}{6} \frac{23}{6} \frac{23}{6} \frac{23}{6} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 12x^{10} + 12x^8 + 8x^6 + 6x^4 + 4x^2 + 14$ | $x^{12} + 4x^{10} - 20x^8 - 224x^6 - 714x^4 - 1012x^2 - 242$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{23}{6} \frac{23}{6} \frac{23}{6} \frac{23}{6} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} - 4x^6 + 8x^4 + 8x^2 - 6$ | $x^{12} + 60x^{10} + 774x^8 + 3300x^6 + 3744x^4 + 1080x^2 + 90$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \right]_3^2$ | T: 12,29 | $\frac{79}{24}$ |
| $x^{12} + 4x^{10} + 6x^8 + 8x^6 + 4x^2 + 2$ | $x^{12} - 44x^{10} + 726x^8 - 4840x^6 + 5808x^4 + 37268x^2 + 29282$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{23}{6} \frac{23}{6} \frac{23}{6} \frac{23}{6} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} - 14x^8 + 16x^4 + 4x^2 - 14$ | $x^{12} - 12x^{10} + 54x^8 - 64x^6 + 36x^4 - 12x^2 + 2$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{23}{6} \frac{23}{6} \frac{23}{6} \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 8x^{10} + 14x^8 - 4x^6 - 14x^4 + 4x^2 - 14$ | $x^{12} + 20x^{10} + 150x^8 + 492x^6 + 550x^4 - 132x^2 + 242$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{23}{6} \end{array} \right]_3^2 \left[\begin{array}{ccc} & & 4 \\ & & & 4 \\ & & & & 4 \end{array} \right]_3$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 8x^{10} - 2x^8 + 8x^6 - 2x^4 + 4x^2 + 2$ | $x^{12} - 12x^{10} + 198x^8 + 792x^6 + 1716x^4 + 1760x^2 + 968$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{23}{6} \end{array} \right]_3^2 \left[\begin{array}{ccc} & & 3 \\ & & & 3 \\ & & & & \frac{23}{6} \end{array} \right]_3$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 4x^{10} - 4x^8 + 8x^6 + 2x^4 + 8x^2 - 6$ | $x^{12} + 36x^{10} + 234x^8 - 2728x^6 - 18834x^4 + 55800x^2 - 68694$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ & 2 & \frac{8}{3} \\ & & \frac{8}{3} \end{array} \right]_3^2 \left[\begin{array}{ccc} & & 3 \\ & & & 3 \\ & & & & \frac{11}{3} \end{array} \right]_3 \left[\begin{array}{ccc} & & 4 \\ & & & 4 \\ & & & & 4 \end{array} \right]_3$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} - 4x^{10} + 6x^8 + 8x^6 + 4x^2 + 2$ | $x^{12} + 4x^{10} - 36x^8 - 36x^6 + 532x^4 - 660x^2 + 242$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{23}{6} \end{array} \right]_3^2 \left[\begin{array}{ccc} & & 4 \\ & & & 4 \\ & & & & 4 \end{array} \right]_3$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} - 4x^{10} + 6x^8 + 8x^6 + 2x^4 - 4x^2 + 6$ | $x^{12} + 60x^{10} + 810x^8 + 4200x^6 + 8100x^4 - 9000$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{23}{6} \end{array} \right]_3^2 \left[\begin{array}{ccc} & & 3 \\ & & & 3 \\ & & & & \frac{23}{6} \end{array} \right]_3 \left[\begin{array}{ccc} & & 4 \\ & & & 4 \\ & & & & 4 \end{array} \right]_3$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^{10} + 6x^8 - 4x^6 + 8x^4 + 8x^2 - 6$ | $x^{12} + 20x^{10} + 80x^8 + 140x^6 + 80x^4 + 80x^2 + 10$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ & 4 & 3 \\ & & \frac{19}{6} \end{array} \right]_3^2 \left[\begin{array}{ccc} & & 4 \\ & & & 4 \\ & & & & 4 \end{array} \right]_3$ | T: 12,99 | $\frac{331}{96}$ |
| $x^{12} + 12x^{10} + 14x^8 + 8x^6 + 2x^4 - 12x^2 + 14$ | $x^{12} - 48x^{10} + 198x^8 + 18240x^6 - 218250x^4 - 40500x^2 - 450$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ & 4 & 3 \\ & & \frac{23}{6} \end{array} \right]_3^2 \left[\begin{array}{ccc} & & 3 \\ & & & 3 \\ & & & & \frac{23}{6} \end{array} \right]_3 \left[\begin{array}{ccc} & & 4 \\ & & & 4 \\ & & & & 4 \end{array} \right]_3$ | T: 12,189 | $\frac{1447}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} + 16x^{10} + 14x^8 + 12x^6 - 10x^4 - 4x^2 + 14$ | $x^{12} - 96x^{10} - 720x^9 - 1686x^8 + 5888x^6 + 79920x^5 + 404076x^4 + 904320x^3 + 1046400x^2 + 621000x + 149686$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ 2 \\ \frac{8}{3} \\ \frac{8}{3} \\ 3 \\ 3 \\ \frac{23}{6} \\ 3 \\ \frac{23}{6} \\ 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 4x^{10} - 6x^8 - 4x^6 + 6$ | $x^{12} - 28x^{10} - 24x^9 + 236x^8 + 128x^7 - 1320x^6 + 1152x^5 + 15954x^4 + 33120x^3 + 32308x^2 + 17560x + 5186$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ 3 \\ 3 \\ 4 \end{array} \right]_3^2$ | T: 12,29 | $\frac{73}{24}$ |
| $x^{12} + 8x^{10} - 4x^6 - 2$ | $x^{12} - 24x^{10} + 188x^8 - 308x^6 - 2508x^4 + 10648x^2 - 11858$ | $\left[\begin{array}{c} \frac{4}{3} \\ \frac{4}{3} \\ 3 \\ 3 \\ 4 \end{array} \right]_3^2$ | T: 12,29 | $\frac{73}{24}$ |
| $x^{12} - 4x^{10} + 4x^6 + 4x^2 + 2$ | $x^{12} + 20x^{10} + 160x^8 + 400x^6 - 640x^4 - 4160x^2 - 480$ | $\left[\begin{array}{c} 2 \\ \frac{8}{3} \\ \frac{8}{3} \\ 3 \\ 3 \\ \frac{23}{6} \\ \frac{23}{6} \\ 4 \end{array} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} + 16x^{10} - 6x^8 - 4x^6 + 4x^4 + 12x^2 - 14$ | $x^{12} - 8x^{10} + 20x^8 - 32x^6 + 28x^4 - 12x^2 + 2$ | $\left[\begin{array}{c} \frac{8}{3} \\ \frac{8}{3} \\ 3 \\ 3 \\ \frac{23}{6} \\ \frac{23}{6} \\ 4 \end{array} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 6x^4 + 4x^2 - 2$ | $x^{12} + 24x^8 + 8x^6 - 18x^4 - 12x^2 - 2$ | $\left[\begin{array}{c} 2 \\ \frac{8}{3} \\ \frac{8}{3} \\ 3 \\ 3 \\ \frac{23}{6} \\ \frac{23}{6} \\ 4 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|------------|--------------------|
| $x^{12} + 8x^{10} - 6x^8 - 4x^6 - 2x^4 - 2$ | $x^{12} - 60x^{10} + 1320x^8 - 8300x^6 + 9150x^4 + 21000x^2 - 1250$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 11 & 11 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{cc} 2 & 4 \\ 3 & 4 \end{array} \right]_3^2$ | T: 12, 189 | $\frac{1423}{384}$ |
| $x^{12} + 4x^{10} + 4x^8 + 4x^6 - 4x^4 - 4x^2 + 6$ | $x^{12} + 8x^{10} + 112x^8 + 252x^6 + 632x^4 + 220x^2 + 22$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \left[\begin{array}{cc} 2 & 4 \\ 3 & 4 \end{array} \right]_3^2$ | T: 12, 142 | $\frac{181}{48}$ |
| $x^{12} - 12x^{10} + 14x^8 + 16x^6 + 10x^4 - 12x^2 - 10$ | $x^{12} - 60x^{10} + 540x^8 + 8400x^6 + 21600x^4 - 36000$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \left[\begin{array}{cc} 2 & 4 \\ 3 & 4 \end{array} \right]_3^2$ | T: 12, 189 | $\frac{1447}{384}$ |
| $x^{12} - 12x^{10} - 4x^8 + 16x^4 + 14$ | $x^{12} - 36x^{10} - 288x^8 - 696x^6 - 756x^4 - 864x^2 - 882$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 19 & 19 \\ 6 & 6 & 6 \end{array} \left[\begin{array}{cc} 2 & 4 \\ 3 & 4 \end{array} \right]_3^2$ | T: 12, 134 | $\frac{667}{192}$ |
| $x^{12} + 4x^{10} - 4x^8 - 8x^6 - 14x^4 + 8x^2 + 10$ | $x^{12} + 60x^{10} + 1860x^8 + 34400x^6 + 267150x^4 + 63000x^2 - 3750$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 8 & 3 \\ 3 & 11 & 3 \end{array} \left[\begin{array}{cc} 2 & 4 \\ 3 & 4 \end{array} \right]_3^2$ | T: 12, 222 | $\frac{2851}{768}$ |
| $x^{12} + 16x^{10} + 8x^8 + 4x^6 - 2x^4 - 14$ | $x^{12} + 12x^{10} + 54x^8 + 172x^6 + 90x^4 - 24x^2 + 2$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 11 & 11 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{cc} 2 & 4 \\ 3 & 4 \end{array} \right]_3^2$ | T: 12, 94 | $\frac{355}{96}$ |
| $x^{12} - 12x^{10} + 14x^8 + 8x^6 - 8x^4 - 8x^2 + 10$ | $x^{12} + 108x^{10} + 4374x^8 + 75000x^6 + 230400x^4 - 8091000x^2 - 72453750$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 19 & 19 \\ 6 & 6 & 6 \end{array} \left[\begin{array}{cc} 2 & 4 \\ 3 & 4 \end{array} \right]_3^2$ | T: 12, 142 | $\frac{667}{192}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 8x^{10} - 6x^8 + 4x^6 - 6x^4 + 4x^2 + 2$ | $x^{12} - 4x^{10} - 6x^8 + 28x^6 + 54x^4 + 28x^2 + 2$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 12x^{10} - 4x^8 - 2x^4 - 12x^2 - 10$ | $x^{12} - 8x^{10} + 108x^8 - 280x^6 + 290x^4 - 132x^2 + 22$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 8x^{10} + 6x^8 + 4x^6 + 8x^4 + 8x^2 + 2$ | $x^{12} + 36x^{10} + 252x^8 - 1284x^6 + 1620x^4 - 648x^2 + 18$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 19 & 19 & 11 \\ 6 & 6 & 3 \end{array} \begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,99 | $\frac{331}{96}$ |
| $x^{12} + 2x^4 + 2$ | $x^{12} - 12x^8 + 48x^4 + 32$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 11 & 11 & 4 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 16x^8 + 14x^4 - 12x^2 - 10$ | $x^{12} - 12x^{10} + 66x^8 - 204x^6 + 354x^4 - 324x^2 + 150$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} - 14x^8 - 12x^6 - 8x^4 + 8x^2 + 14$ | $x^{12} + 4x^{10} + 16x^8 + 52x^6 + 56x^4 + 16x^2 - 2$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 19 & 19 & 11 \\ 6 & 6 & 3 \end{array} \begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,99 | $\frac{331}{96}$ |
| $x^{12} + 4x^{10} + 6x^8 + 8x^6 + 8x^4 + 4x^2 - 6$ | $x^{12} - 44x^{10} + 550x^8 - 2904x^6 + 6776x^4 - 5324x^2 - 2662$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 4x^{10} + 6x^8 - 4x^6 + 8x^4 + 8x^2 - 2$ | $x^{12} + 12x^{10} + 42x^8 + 16x^6 - 84x^4 + 48x^2 - 392$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{319}{96}$ |
| $x^{12} + 8x^{10} + 8x^8 + 4x^6 + 6x^4 + 8x^2 - 6$ | $x^{12} - 60x^{10} + 1290x^8 - 11600x^6 + 38700x^4 - 54000x^2 + 9000$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 3 \\ 4 & 4 & 3 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 4x^{10} - 6x^8 - 4x^6 + 4x^4 + 4x^2 - 2$ | $x^{12} - 60x^{10} - 2520x^8 - 20400x^6 + 36900x^4 + 337500x^2 - 551250$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 6 \\ 4 & 4 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 10x^8 + 4x^6 + 10x^4 + 4x^2 - 14$ | $x^{12} - 8x^{10} - 20x^8 + 8x^6 + 18x^4 - 12x^2 + 2$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 6 \\ 4 & 4 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 12x^{10} + 12x^8 - 8x^6 - 14x^4 - 8x^2 + 14$ | $x^{12} - 60x^{10} + 1470x^8 - 18800x^6 + 124350x^4 - 327000x^2 - 61250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 3 \\ 4 & 4 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} - 4x^{10} - 4x^8 + 8x^4 + 8x^2 - 6$ | $x^{12} + 8x^{10} + 22x^8 + 112x^6 + 108x^4 - 88$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 6 \\ 4 & 4 & 3 \end{array} \right]_3^2$ | T: 12,134 | $\frac{667}{192}$ |
| $x^{12} + 8x^{10} - 6x^8 + 8x^4 - 4x^2 + 2$ | $x^{12} - 12x^{10} + 72x^8 - 256x^6 + 432x^4 - 192x^2 + 32$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 6 \\ 4 & 4 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 4x^{10} + 2x^8 - 12x^6 + 6x^4 + 8x^2 - 14$ | $x^{12} - 44x^{10} + 858x^8 - 9196x^6 + 52514x^4 - 127776x^2 + 29282$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{11}{3} \left[\begin{array}{cc} 4 & 2 \\ 3 & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 4x^8 - 4x^6 + 4x^4 - 4x^2 - 2$ | $x^{12} - 12x^{10} + 24x^8 - 28x^6 + 24x^4 - 12x^2 - 2$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{23}{6} \left[\begin{array}{cc} 4 & 2 \\ 3 & 4 \end{array} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} - 4x^{10} - 4x^8 + 4x^2 - 6$ | $x^{12} - 16x^{10} + 86x^8 - 220x^6 + 220x^4 + 396x^2 - 1078$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{8}{3} \left[\begin{array}{ccc} 3 & 23 & 4 \\ 3 & 6 & 6 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 4x^{10} - 2x^8 + 4x^6 + 6x^4 + 6$ | $x^{12} + 8x^{10} + 36x^8 + 84x^6 + 106x^4 + 72x^2 + 22$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{11}{3} \left[\begin{array}{cc} 4 & 2 \\ 3 & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 4x^{10} - 4x^8 + 4x^6 + 6x^4 - 6$ | $x^{12} - 20x^{10} - 202x^8 - 896x^6 - 1740x^4 - 1232x^2 - 88$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{8}{3} \left[\begin{array}{ccc} 3 & 11 & 4 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} - 4x^{10} - 4x^8 - 6x^4 + 6$ | $x^{12} + 12x^{10} - 180x^8 - 4800x^6 - 33750x^4 - 90000x^2 - 56250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \frac{8}{3} \left[\begin{array}{ccc} 3 & 11 & 4 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} - 4x^{10} + 4x^6 - 4x^4 - 4x^2 + 6$ | $x^{12} - 48x^{10} - 180x^8 - 3460x^6 - 48600x^4 - 183900x^2 - 342250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \frac{8}{3} \left[\begin{array}{ccc} 3 & 23 & 4 \\ 3 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{12} - 4x^{10} + 6x^8 + 4x^6 + 8x^4 + 8x^2 + 6$ | $x^{12} - 12x^{10} + 102x^8 - 460x^6 + 2160x^4 - 1944x^2 + 486$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{4}{4} \right]_3^2$ | T: 12,94 | $\frac{319}{96}$ |
| $x^{12} + 4x^{10} - 2x^8 + 8x^6 + 8x^4 + 8x^2 - 6$ | $x^{12} - 36x^{10} + 1836x^8 - 12960x^6 + 11700x^4 - 189000x^2 - 453750$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{3}{3} \frac{19}{6} \frac{19}{6} \frac{4}{4} \right]_3^2$ | T: 12,142 | $\frac{667}{192}$ |
| $x^{12} + 8x^{10} + 6x^8 - 4x^6 - 8x^4 - 8x^2 - 10$ | $x^{12} + 20x^{10} + 188x^8 + 924x^6 + 2552x^4 + 3872x^2 + 2662$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{3}{3} \frac{19}{6} \frac{19}{6} \frac{4}{4} \right]_3^2$ | T: 12,105 | $\frac{331}{96}$ |
| $x^{12} - 4x^{10} - 6x^8 + 12x^6 + 16x^4 + 16x^2 - 14$ | $x^{12} + 36x^{10} + 342x^8 + 3216x^6 + 26028x^4 + 118800x^2 + 1800$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{5}{3} \frac{5}{3} \frac{3}{3} \frac{4}{4} \right]_3^2$ | T: 12,94 | $\frac{301}{96}$ |
| $x^{12} + 4x^{10} + 2x^8 + 8x^6 + 8x^4 + 8x^2 + 6$ | $x^{12} - 16x^{10} + 114x^8 - 304x^6 + 412x^4 - 288x^2 + 88$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{3}{3} \frac{19}{6} \frac{19}{6} \frac{4}{4} \right]_3^2$ | T: 12,142 | $\frac{667}{192}$ |
| $x^{12} - 4x^{10} + 2x^8 + 4x^6 + 6x^4 + 8x^2 + 2$ | $x^{12} + 28x^{10} + 194x^8 + 660x^6 + 1166x^4 + 968x^2 + 242$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \frac{3}{3} \frac{11}{3} \frac{11}{3} \frac{4}{4} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 2x^8 + 2x^4 - 6$ | $x^{12} - 14x^8 + 60x^4 - 88$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{11}{3} \frac{11}{3} \frac{4}{4} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 4x^{10} + 4x^8 - 4x^6 - 6$ | $x^{12} - 210x^8 - 480x^7 - 880x^6 - 4320x^5 - 4110x^4 + 6880x^3 - 5940x^2 - 39720x - 27910$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \frac{19}{6} \right]_3^2$ | T: 12,105 | $\frac{331}{96}$ |
| $x^{12} - 4x^6 + 10$ | $x^{12} - 1300x^6 + 182250$ | $\left[\begin{array}{cc} 3 & 4 \end{array} \right]_3^2$ | T: 12,1 | $\frac{35}{12}$ |
| $x^{12} + 8x^{10} + 8x^8 + 12x^6 - 2x^4 + 10$ | $x^{12} - 220x^6 + 810x^4 - 1080x^2 + 490$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \frac{11}{3} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} - 12x^{10} + 2x^8 - 12x^6 + 6x^4 + 8x^2 - 14$ | $x^{12} + 20x^{10} + 162x^8 + 708x^6 + 1830x^4 + 2376x^2 + 242$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \frac{11}{3} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 8x^8 + 6x^4 - 4x^2 + 6$ | $x^{12} + 12x^{10} + 72x^8 + 144x^6 + 66x^4 - 36x^2 + 6$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \frac{23}{6} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} - 4x^{10} - 4x^8 + 2x^4 + 8x^2 + 6$ | $x^{12} - 450x^8 - 6000x^6 - 38340x^4 - 183168x^2 - 492840$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \frac{8}{3} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} - 12x^{10} - 10x^8 + 12x^6 + 2x^4 - 4x^2 - 14$ | $x^{12} - 24x^{10} + 342x^8 - 2952x^6 + 14340x^4 - 39600x^2 - 27000$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \frac{8}{3} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} + 12x^{10} + 12x^8 + 8x^6 + 8x^4 + 8x^2 - 10$ | $x^{12} - 4x^{10} + 50x^8 - 176x^6 + 260x^4 - 184x^2 + 54$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 2 & 3 \\ & 3 & \frac{19}{6} \end{array} \right]_3 \left[\begin{array}{ccc} & & 2 \\ & 4 & 4 \\ & & 6 \end{array} \right]_3$ | T: 12,134 | $\frac{667}{192}$ |
| $x^{12} + 8x^{10} + 16x^8 - 12x^6 - 14$ | $x^{12} - 24x^{10} + 204x^8 - 748x^6 + 1276x^4 - 968x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 4 & 3 \\ & 3 & 4 \end{array} \right]_3^2$ | T: 12,29 | $\frac{73}{24}$ |
| $x^{12} - 6x^8 + 4x^6 - 6x^4 + 4x^2 + 2$ | $x^{12} - 4x^{10} - 60x^8 + 128x^6 + 870x^4 + 1012x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \\ & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} & & 2 \\ & 23 & 23 \\ & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 4x^{10} - 4x^6 + 4x^4 - 4x^2 - 2$ | $x^{12} - 48x^{10} + 324x^8 - 10092x^6 + 32256x^4 + 65340x^2 - 238050$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \\ & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} & & 2 \\ & 23 & 23 \\ & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} + 16x^8 + 8x^6 - 14x^4 - 10$ | $x^{12} - 6x^4 + 6$ | $\left[\begin{array}{ccc} 2 & 3 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3 \left[\begin{array}{ccc} & & 2 \\ & 11 & 11 \\ & 3 & 4 \end{array} \right]_3$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 8x^{10} + 8x^8 + 4x^6 - 2x^4 + 8x^2 - 2$ | $x^{12} - 12x^{10} - 54x^8 - 112x^6 - 108x^4 - 48x^2 - 8$ | $\left[\begin{array}{ccc} 8 & 3 & 3 \\ 3 & 3 & 3 \\ & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} & & 2 \\ & 11 & 11 \\ & 3 & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 8x^4 + 8x^2 + 10$ | $x^{12} + 22x^8 + 1452x^4 - 10648$ | $\left[\begin{array}{ccc} 2 & 3 & 3 \\ & 3 & 3 \\ & & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} & & 2 \\ & 4 & 4 \\ & & 3 \end{array} \right]_3$ | T: 12,51 | $\frac{10}{3}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} + 4x^{10} + 4x^8 + 8x^6 - 4x^4 - 4x^2 + 6$ | $x^{12} - 12x^{10} + 60x^8 - 152x^6 + 180x^4 - 60x^2 + 6$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 3 \end{array} \Big]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 8x^8 - 4x^6 - 2x^4 + 2$ | $x^{12} + 36x^{10} + 450x^8 + 1248x^6 + 972x^4 + 432x^2 + 72$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 11 & 11 & 4 \\ 3 & 3 & 3 \end{array} \Big]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 4x^{10} - 2x^8 - 8x^6 + 16x^4 + 16x^2 + 10$ | $x^{12} - 18x^8 + 96x^6 - 756x^4 + 2880x^2 - 24$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 19 & 19 & 4 \\ 6 & 6 & 3 \end{array} \Big]_3^2$ | T: 12,142 | $\frac{667}{192}$ |
| $x^{12} + 8x^{10} - 2x^8 + 12x^6 - 10x^4 + 12x^2 + 14$ | $x^{12} + 18x^8 - 328x^6 + 756x^4 + 720x^2 - 2312$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 3 \end{array} \Big]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 8x^{10} - 8x^8 + 4x^6 + 14x^4 + 16x^2 + 10$ | $x^{12} + 220x^6 + 810x^4 + 1080x^2 + 490$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 11 & 11 & 4 \\ 3 & 3 & 3 \end{array} \Big]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 4x^{10} + 4x^6 - 4x^4 - 4x^2 + 6$ | $x^{12} + 24x^{10} + 3114x^8 + 24360x^6 + 50220x^4 + 29700x^2 - 2250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 3 \end{array} \Big]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} - 14x^8 + 16x^6 - 14x^4 - 12x^2 + 14$ | $x^{12} + 60x^{10} + 360x^8 - 43500x^6 - 1171350x^4 - 12271500x^2 - 50501250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 3 \end{array} \Big]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} - 12x^{10} - 4x^8 + 4x^6 - 2x^4 + 16x^2 + 14$ | $x^{12} + 60x^{10} + 2700x^8 + 32100x^6 + 136350x^4 + 162000x^2 - 101250$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 11 & & \\ 3 & 4 & \end{array} \right]_3$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 8x^{10} + 8x^6 + 2x^4 + 2$ | $x^{12} + 6x^4 + 2$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 11 & & \\ 3 & 4 & \end{array} \right]_3$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 8x^{10} + 8x^6 + 2x^4 - 6$ | $x^{12} - 6x^4 - 6$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 11 & & \\ 3 & 4 & \end{array} \right]_3$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 2x^8 + 4x^6 + 2x^4 + 4x^2 + 2$ | $x^{12} + 8x^{10} - 20x^8 - 8x^6 + 18x^4 + 12x^2 + 2$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 23 & & \\ 6 & 4 & \end{array} \right]_3$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} + 6x^8 - 4x^6 + 6x^4 + 4x^2 + 6$ | $x^{12} - 24x^{10} + 180x^8 - 200x^6 - 2250x^4 + 7500x^2 - 6250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 23 & & \\ 6 & 4 & \end{array} \right]_3$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 16x^{10} - 8x^8 + 12x^6 + 14x^4 + 12x^2 + 10$ | $x^{12} + 20x^{10} + 110x^8 + 280x^6 + 420x^4 + 480x^2 + 360$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 23 & & \\ 6 & 4 & \end{array} \right]_3$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} - 4x^6 - 6$ | $x^{12} - 60x^{10} + 1230x^8 + 20400x^6 - 33300x^4 + 18000x^2 + 9000$ | $\left[\begin{array}{ccc} 3 & & \\ 3 & 4 & \end{array} \right]_3^2$ | T: 12,1 | $\frac{35}{12}$ |
| $x^{12} + 4x^{10} - 4x^8 + 6$ | $x^{12} + 18x^8 + 384x^6 + 1260x^4 + 1152x^2 + 600$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 19 & & \\ 6 & 4 & \end{array} \right]_3$ | T: 12,134 | $\frac{667}{192}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} - 4x^{10} - 6x^8 - 4x^6 + 8x^4 + 8x^2 + 6$ | $x^{12} + 12x^8 + 4x^6 + 108x^4 + 48x^2 + 6$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,29 | $\frac{79}{24}$ |
| $x^{12} + 2x^8 - 6x^4 + 4x^2 + 6$ | $x^{12} - 44x^{10} + 704x^8 - 4884x^6 + 12474x^4 - 484x^2 + 2662$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^{10} + 6x^8 + 4x^6 + 8x^4 + 8x^2 - 6$ | $x^{12} - 20x^{10} + 80x^8 - 140x^6 + 80x^4 - 80x^2 + 10$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,99 | $\frac{331}{96}$ |
| $x^{12} + 8x^{10} - 4x^8 + 4x^6 + 4x^4 + 4x^2 + 6$ | $x^{12} + 4x^{10} + 18x^8 - 20x^4 - 80x^2 + 88$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} - 12x^{10} + 10x^8 - 4x^6 + 16x^4 + 16x^2 + 10$ | $x^{12} - 12x^{10} + 90x^8 - 484x^6 + 1392x^4 - 1440x^2 + 10$ | $\left[\begin{array}{ccc} 4 & 4 & 5 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 3 & 4 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{301}{96}$ |
| $x^{12} - 6x^4 + 8x^2 + 6$ | $x^{12} + 22x^8 + 1100x^4 + 10648$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 4 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} - 4x^{10} + 2x^8 - 12x^6 - 12x^4 - 4x^2 - 10$ | $x^{12} + 60x^{10} - 720x^8 + 2400x^6 + 21600x^4 - 36000$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 16x^{10} - 8x^8 - 4x^6 - 2x^4 + 16x^2 + 10$ | $x^{12} - 12x^{10} + 30x^8 + 164x^6 - 1062x^4 - 3240x^2 + 90$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{11}{3} \left[\begin{array}{ccc} 11 & 11 & 4 \\ 3 & 4 & 3 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 4x^{10} - 2x^8 - 4x^6 - 2x^4 + 8x^2 - 2$ | $x^{12} + 24x^{10} + 188x^8 + 484x^6 + 242x^4 - 242$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{11}{3} \left[\begin{array}{ccc} 11 & 11 & 4 \\ 3 & 4 & 3 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 4x^{10} + 4x^8 + 4x^6 - 6$ | $x^{12} - 24x^{10} - 558x^8 - 1356x^6 + 5256x^4 - 3240x^2 + 90$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{19}{6} \left[\begin{array}{ccc} 19 & 19 & 4 \\ 6 & 4 & 3 \end{array} \right]_3^2$ | T: 12,105 | $\frac{331}{96}$ |
| $x^{12} - 6x^8 - 4x^6 - 2x^4 + 6$ | $x^{12} + 120x^{10} + 450x^8 - 8700x^6 - 22950x^4 - 27000x^2 - 2250$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{8}{3} \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{11}{3} \left[\begin{array}{ccc} 11 & 11 & 4 \\ 3 & 4 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} - 12x^{10} + 16x^8 - 12x^6 - 8x^4 + 4x^2 + 10$ | $x^{12} - 12x^{10} + 42x^8 - 60x^4 - 36x^2 - 6$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{23}{6} \left[\begin{array}{ccc} 23 & 23 & 4 \\ 6 & 4 & 3 \end{array} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} + 8x^{10} + 4x^6 + 8x^4 + 8x^2 - 2$ | $x^{12} - 12x^{10} + 42x^8 + 28x^6 - 24x^4 - 24x^2 - 2$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{11}{3} \left[\begin{array}{ccc} 11 & 11 & 4 \\ 3 & 4 & 3 \end{array} \right]_3^2$ | T: 12,29 | $\frac{79}{24}$ |
| $x^{12} - 4x^{10} - 4x^8 - 4x^6 + 6x^4 - 6$ | $x^{12} + 20x^{10} - 202x^8 + 896x^6 - 1740x^4 + 1232x^2 - 88$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{11}{3} \left[\begin{array}{ccc} 11 & 11 & 4 \\ 3 & 4 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} + 8x^{10} + 8x^6 - 2$ | $x^{12} - 88x^8 + 1936x^4 - 29282$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,51 | $\frac{151}{48}$ |
| $x^{12} + 8x^{10} - 2x^8 + 4x^6 + 4x^4 + 4x^2 - 2$ | $x^{12} - 8x^{10} - 34x^8 - 36x^6 - 4x^4 + 4x^2 - 2$ | $\left[\begin{array}{ccc} 8 & 3 & 23 \\ 3 & 3 & 6 \end{array} \right]_3^2 \left[\begin{array}{ccc} 23 & 4 & 4 \\ 6 & 4 & 3 \end{array} \right]_3$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 8x^{10} + 6x^8 - 12x^6 + 16x^2 + 10$ | $x^{12} + 400x^6 - 1680x^4 + 1920x^2 + 160$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2 \left[\begin{array}{ccc} 19 & 4 & 4 \\ 6 & 4 & 3 \end{array} \right]_3$ | T: 12,99 | $\frac{331}{96}$ |
| $x^{12} + 16x^{10} - 10x^8 - 4x^6 - 8x^4 - 8x^2 - 10$ | $x^{12} - 12x^{10} + 56x^8 - 124x^6 + 156x^4 - 88x^2 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2 \left[\begin{array}{ccc} 19 & 4 & 4 \\ 6 & 4 & 3 \end{array} \right]_3$ | T: 12,105 | $\frac{331}{96}$ |
| $x^{12} + 4x^{10} + 10x^8 + 16x^6 + 6x^4 + 4x^2 + 10$ | $x^{12} + 20x^{10} + 150x^8 + 456x^6 + 372x^4 - 88$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{ccc} 23 & 4 & 4 \\ 6 & 4 & 3 \end{array} \right]_3$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^{10} + 16x^8 - 4x^6 + 10$ | $x^{12} + 12x^{10} - 210x^8 - 2756x^6 - 2856x^4 + 3360x^2 + 10$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 4 \end{array} \right]_3^2 \left[\begin{array}{ccc} 4 & 3 & 4 \\ 3 & 3 & 4 \end{array} \right]_3$ | T: 12,29 | $\frac{73}{24}$ |
| $x^{12} - 4x^{10} - 4x^8 + 4x^6 - 10x^4 - 4x^2 - 14$ | $x^{12} - 4x^{11} - 2x^{10} + 52x^9 - 45x^8 - 88x^7 + 652x^6 + 240x^5 - 1383x^4 - 36x^3 + 846x^2 - 380x + 49$ | $\left[\begin{array}{ccc} 8 & 3 & 23 \\ 3 & 3 & 6 \end{array} \right]_3^2 \left[\begin{array}{ccc} 23 & 4 & 4 \\ 6 & 4 & 3 \end{array} \right]_3$ | T: 12,105 | $\frac{361}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} + 2x^4 + 14$ | $x^{12} - 22x^8 + 132x^4 - 968$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ & 3 & 3 & 3 \\ & & 11 & 11 \\ & & & 3 & 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 2x^8 + 4x^6 - 2$ | $x^{12} + 12x^{10} - 22x^8 + 80x^6 - 100x^4 + 48x^2 - 8$ | $\left[\begin{array}{cccc} 4 & 4 & 3 & 19 \\ 3 & 3 & 3 & 6 \\ & & 19 & 19 \\ & & & 6 & 4 \end{array} \right]_3^2$ | T: 12,99 | $\frac{331}{96}$ |
| $x^{12} + 4x^{10} - 4x^8 + 4x^6 - 10x^4 + 8x^2 - 10$ | $x^{12} - 60x^{10} + 540x^8 - 5900x^6 + 28350x^4 + 3000x^2 - 12250$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \\ & & 11 & 11 \\ & & & 3 & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 4x^{10} - 6x^8 - 4x^6 + 6x^4 + 4x^2 + 6$ | $x^{12} + 108x^{10} - 4230x^8 + 63300x^6 - 479250x^4 + 1822500x^2 - 2756250$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \\ & & 23 & 23 \\ & & & 6 & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 12x^{10} - 4x^8 - 8x^6 - 6x^4 + 16x^2 + 14$ | $x^{12} + 24x^{10} + 18x^8 - 4080x^6 - 45180x^4 - 194400x^2 - 304200$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \\ & & 11 & 11 \\ & & & 3 & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 8x^{10} - 2x^8 + 4x^6 + 6x^4 - 4x^2 - 2$ | $x^{12} + 24x^{10} + 228x^8 + 1160x^6 + 2670x^4 - 3300x^2 - 14450$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \\ & & 23 & 23 \\ & & & 6 & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} + 8x^8 - 4x^6 + 4x^4 - 4x^2 - 2$ | $x^{12} + 24x^{10} - 366x^8 - 18640x^6 - 198900x^4 - 972000x^2 - 2205000$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \\ & & 23 & 23 \\ & & & 6 & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 14$ | $x^{12} - 4x^8 - 84x^4 - 242$ | $\left[\begin{array}{ccc} & & 2 \\ & & 3 \\ & & 4 \end{array} \right]_3^2$ | T: 12,14 | $\frac{37}{12}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 4x^4 - 4x^2 - 2$ | $x^{12} - 60x^{10} - 60x^8 - 5040x^7 + 8100x^6 + 112320x^5 + 159870x^4 - 374400x^3 - 1388400x^2 - 1582200x - 642050$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_4 \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^{10} + 10x^4 + 8x^2 - 14$ | $x^{12} + 22x^8 + 154x^4 + 242$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_4 \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 4x^6 + 6x^4 + 4x^2 - 6$ | $x^{12} - 60x^6 - 810x^4 - 1620x^2 + 90$ | $\left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_4 \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 16x^{10} + 16x^8 - 8x^6 - 6x^4 + 8x^2 + 10$ | $x^{12} - 96x^8 - 432x^6 - 294x^4 - 72x^2 - 6$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_4 \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 8x^8 + 4x^6 - 2x^4 + 8x^2 - 2$ | $x^{12} - 12x^{10} + 42x^8 + 116x^6 - 714x^4 + 744x^2 - 242$ | $\left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \right]_4 \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 16x^{10} + 6x^8 + 12x^6 - 2x^4 - 12x^2 + 14$ | $x^{12} + 18x^8 + 328x^6 + 756x^4 - 720x^2 - 2312$ | $\left[\begin{array}{ccc} 4 & 4 & 4 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_4 \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 8x^4 + 8x^2 + 14$ | $x^{12} - 14x^8 + 104x^4 - 242$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 3 & 3 \\ 4 & 4 & 4 \end{array} \right]_3 \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3^2$ | T: 12,51 | $\frac{10}{3}$ |

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| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 12x^{10} - 2x^8 - 8x^6 - 6x^4 + 10$ | $x^{12} - 12x^{10} - 936x^8 - 10920x^6 - 48330x^4 - 75600x^2 - 1350$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 11 & & \\ 3 & & \\ 3 & & \end{array} \right]^2_4$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 4x^{10} + 2x^8 + 8x^6 + 8x^4 + 8x^2 + 2$ | $x^{12} + 20x^{10} + 156x^8 + 592x^6 + 1056x^4 + 616x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 19 & & \\ 6 & & \\ 6 & & \end{array} \right]^2_4$ | T: 12,134 | $\frac{667}{192}$ |
| $x^{12} + 2x^8 - 12x^6 + 16x^2 - 10$ | $x^{12} - 20x^{10} + 172x^8 - 764x^6 + 1868x^4 - 2288x^2 + 1078$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \begin{array}{ccc} 19 & & \\ 6 & & \\ 6 & & \end{array} \right]^2_4$ | T: 12,99 | $\frac{331}{96}$ |
| $x^{12} + 16x^{10} + 2x^8 + 8x^6 - 14$ | $x^{12} + 6x^8 + 12x^4 + 2$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & & \\ 3 & & \\ 3 & & \end{array} \right]^2_4$ | T: 12,141 | $\frac{643}{192}$ |
| $x^{12} - 4x^{10} + 6x^8 + 4x^6 + 8x^4 + 8x^2 - 2$ | $x^{12} - 12x^{10} + 186x^8 - 724x^6 + 60x^4 - 48x^2 - 2$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & & \\ 3 & & \\ 3 & & \end{array} \right]^2_4$ | T: 12,94 | $\frac{319}{96}$ |
| $x^{12} + 8x^{10} - 2x^8 + 4x^6 + 2x^4 + 4x^2 + 2$ | $x^{12} + 54x^8 - 60x^6 + 242x^4 - 132x^2 + 242$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & & \\ 6 & & \\ 6 & & \end{array} \right]^2_4$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 4x^{10} - 2x^8 - 4x^6 - 6x^4 + 4x^2 + 2$ | $x^{12} + 36x^{10} + 162x^8 - 312x^6 - 1140x^4 + 2880x^2 - 1080$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & & \\ 3 & & \\ 3 & & \end{array} \right]^2_4 \begin{array}{ccc} 23 & & \\ 6 & & \\ 6 & & \end{array} \right]^2_4$ | T: 12,222 | $\frac{2899}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 12x^{10} - 4x^8 + 16x^6 - 6x^4 + 16x^2 - 14$ | $x^{12} - 28x^{10} + 250x^8 - 888x^6 + 1114x^4 - 880x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 4x^{10} + 6x^8 + 4x^6 - 2$ | $x^{12} - 180x^{10} + 10890x^8 - 232080x^6 + 413100x^4 - 205200x^2 - 1800$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 5 & 5 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 4 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,94 | $\frac{301}{96}$ |
| $x^{12} + 12x^{10} - 2x^8 + 8x^6 - 8x^4 - 8x^2 + 10$ | $x^{12} - 108x^{10} + 4374x^8 - 75000x^6 + 230400x^4 + 8091000x^2 - 72453750$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 3 & 3 & 3 \\ 6 & 6 & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 4 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{667}{192}$ |
| $x^{12} + 8x^{10} + 6x^8 - 4x^6 + 8x^4 + 8x^2 + 2$ | $x^{12} - 36x^{10} + 252x^8 + 1284x^6 + 1620x^4 + 648x^2 + 18$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 19 & 19 & 4 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,99 | $\frac{331}{96}$ |
| $x^{12} + 8x^{10} + 8x^8 - 4x^6 - 10x^4 - 8x^2 + 10$ | $x^{12} - 20x^6 - 450x^4 + 1080x^2 + 810$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} - 8x^{10} - 8x^6 + 4x^4 - 4x^2 + 14$ | $x^{12} + 120x^{10} + 5490x^8 + 121980x^6 + 1346220x^4 + 5904900x^2 - 2952450$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^{10} + 16x^8 + 4x^6 + 10$ | $x^{12} - 12x^{10} - 210x^8 + 2756x^6 - 2856x^4 - 3360x^2 + 10$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,29 | $\frac{73}{24}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 4x^{10} + 10x^8 + 4x^6 + 12x^4 - 12x^2 - 10$ | $x^{12} + 120x^{10} - 990x^8 + 1200x^6 + 2700x^4 - 9000$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 23 & 23 \\ 3 & 6 & 6 \end{array} \left. \vphantom{\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array}} \right]^2 \left. \vphantom{\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array}} \right]_3$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^{10} - 8x^8 + 4x^6 - 12x^4 - 4x^2 + 14$ | $x^{12} + 60x^{10} + 2490x^8 - 200x^6 - 68100x^4 - 145500x^2 - 31250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \left. \vphantom{\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array}} \right]^2 \left. \vphantom{\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array}} \right]_3$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 2x^8 - 4x^6 + 6$ | $x^{12} - 28x^{10} + 338x^8 - 2032x^6 + 5932x^4 - 7216x^2 + 4312$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \begin{array}{ccc} 19 & 19 & 4 \\ 6 & 6 & 4 \end{array} \left. \vphantom{\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array}} \right]^2 \left. \vphantom{\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array}} \right]_3$ | T: 12,99 | $\frac{331}{96}$ |
| $x^{12} + 16x^{10} - 4x^8 - 4x^6 + 8x^4 + 12x^2 - 14$ | $x^{12} + 12x^{10} + 48x^8 - 336x^6 - 2400x^4 - 5760x^2 - 4320$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \left. \vphantom{\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array}} \right]^2 \left. \vphantom{\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array}} \right]_3$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 4x^{10} - 4x^8 - 6x^4 - 6$ | $x^{12} - 60x^{10} + 1020x^8 - 7600x^6 + 23250x^4 - 93750$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & 11 & 11 \\ 3 & 3 & 3 \end{array} \left. \vphantom{\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array}} \right]^2 \left. \vphantom{\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array}} \right]_3$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 4x^6 - 2x^4 - 2$ | $x^{12} + 12x^{10} + 6x^8 - 272x^6 - 372x^4 + 1200x^2 - 5000$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \left. \vphantom{\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array}} \right]^2 \left. \vphantom{\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array}} \right]_3$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} - 12x^6 - 6x^4 - 4x^2 + 14$ | $x^{12} - 12x^{10} + 48x^8 - 92x^6 + 78x^4 - 36x^2 - 2$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \begin{array}{ccc} 3 & 23 & 23 \\ 6 & 6 & 6 \end{array} \left. \vphantom{\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array}} \right]^2 \left. \vphantom{\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array}} \right]_3$ | T: 12,105 | $\frac{361}{96}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 4x^6 - 2$ | $x^{12} + 12x^{10} + 34x^8 + 60x^6 + 48x^4 + 16x^2 - 2$ | $\left[\begin{array}{cc} & \\ 3 & 4 \end{array} \right]_3^2$ | T: 12,1 | $\frac{35}{12}$ |
| $x^{12} + 8x^{10} - 6x^8 - 4x^6 + 4x^4 - 4x^2 + 2$ | $x^{12} - 44x^{10} + 616x^8 - 3872x^6 + 12584x^4 - 26620x^2 + 29282$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ & \frac{23}{6} & \frac{23}{6} \\ & & 4 \end{array} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 8x^{10} + 4x^6 - 2$ | $x^{12} + 24x^{10} + 188x^8 + 308x^6 - 2508x^4 - 10648x^2 - 11858$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 3 \\ & \frac{4}{3} & 3 \\ & & 4 \end{array} \right]_3^2$ | T: 12,29 | $\frac{73}{24}$ |
| $x^{12} + 8x^{10} + 14x^8 + 8x^6 + 6x^4 + 4x^2 + 10$ | $x^{12} + 28x^{10} + 174x^8 + 440x^6 + 308x^4 - 88$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 3 \\ \frac{4}{3} & \frac{8}{3} & \frac{8}{3} \\ & \frac{23}{6} & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^8 + 4x^6 + 6x^4 - 2$ | $x^{12} + 12x^{10} + 54x^8 + 112x^6 + 108x^4 + 48x^2 - 8$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ & \frac{11}{3} & \frac{11}{3} \\ & & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 8x^{10} - 6x^8 + 4x^6 + 6x^4 + 8x^2 - 2$ | $x^{12} - 48x^{10} + 18x^8 + 10572x^6 - 11214x^4 + 4320x^2 - 450$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 3 \\ \frac{4}{3} & \frac{8}{3} & \frac{8}{3} \\ & \frac{11}{3} & \frac{11}{3} \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} - 4x^{10} - 6x^8 + 4x^6 - 6$ | $x^{12} - 36x^{10} + 462x^8 - 2400x^6 + 3132x^4 + 6480x^2 + 3240$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 3 \\ \frac{4}{3} & \frac{5}{3} & \frac{5}{3} \\ & 3 & 3 \end{array} \right]_3^2$ | T: 12,94 | $\frac{301}{96}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 4x^6 + 8x^4 + 8x^2 + 2$ | $x^{12} + 4x^{10} + 14x^8 + 28x^6 + 16x^4 + 8x^2 + 2$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 4 \end{array} \right]_2^2$ | T: 12,29 | $\frac{79}{24}$ |
| $x^{12} - 4x^6 + 8x^4 + 8x^2 - 2$ | $x^{12} - 16x^8 + 28x^6 - 24x^4 + 40x^2 - 2$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,29 | $\frac{79}{24}$ |
| $x^{12} - 8x^{10} - 10x^8 - 4x^6 + 8x^4 + 8x^2 - 14$ | $x^{12} - 24x^{10} + 90x^8 - 164x^6 + 180x^4 - 96x^2 + 50$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,99 | $\frac{331}{96}$ |
| $x^{12} + 12x^{10} - 4x^8 + 8x^6 + 16x^4 + 10$ | $x^{12} + 8x^{10} + 14x^8 - 96x^6 - 340x^4 - 352x^2 - 88$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{667}{192}$ |
| $x^{12} + 8x^{10} + 6x^8 + 4x^4 + 4x^2 - 2$ | $x^{12} - 16x^{10} + 80x^8 - 132x^6 - 176x^4 + 484x^2 - 242$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} - 4x^{10} - 2x^8 + 10x^4 + 4x^2 - 10$ | $x^{12} + 24x^{10} - 1344x^8 - 3360x^7 + 4684x^6 + 38640x^5 + 93576x^4 + 119680x^3 + 81840x^2 + 28320x + 3940$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 4x^{10} - 4x^8 - 4x^6 + 2x^4 + 4x^2 - 2$ | $x^{12} - 4x^{10} - 4x^8 + 44x^6 - 62x^4 + 20x^2 - 2$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} + 4x^{10} + 12x^8 - 4x^6 + 14x^4 - 8x^2 - 14$ | $x^{12} + 20x^{10} + 172x^8 + 764x^6 + 1890x^4 + 1232x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \quad 3 \quad \frac{11}{3} \quad \left[\begin{array}{cc} 2 & 4 \\ 4 & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} - 6x^8 + 4x^6 + 2x^4 + 4x^2 - 6$ | $x^{12} - 120x^{10} + 90x^8 + 6900x^6 + 25650x^4 + 13500x^2 - 33750$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad \left[\begin{array}{cc} 2 & 4 \\ 23 & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 4x^{10} - 4x^8 + 8x^6 + 8x^4 + 4x^2 + 2$ | $x^{12} - 16x^{10} + 110x^8 - 396x^6 + 748x^4 - 660x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \quad 3 \quad \frac{23}{6} \quad \left[\begin{array}{cc} 2 & 4 \\ 23 & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 10x^8 - 10x^4 + 12x^2 - 14$ | $x^{12} - 16x^{10} + 110x^8 - 352x^6 + 374x^4 + 572x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \quad 3 \quad \frac{23}{6} \quad \left[\begin{array}{cc} 2 & 4 \\ 23 & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 4x^{10} - 6x^8 - 4x^6 + 8x^4 + 8x^2 + 6$ | $x^{12} + 12x^{10} + 50x^8 + 80x^6 + 44x^4 + 48x^2 + 88$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,29 | $\frac{79}{24}$ |
| $x^{12} + 8x^8 - 6x^4 + 4x^2 - 6$ | $x^{12} - 24x^8 + 72x^6 - 78x^4 + 36x^2 - 6$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \quad 3 \quad \frac{23}{6} \quad \left[\begin{array}{cc} 2 & 4 \\ 23 & 4 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 8x^{10} + 6x^8 + 4x^6 - 6$ | $x^{12} - 30x^8 + 500x^6 + 300x^4 + 3000x^2 + 250$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \quad 3 \quad \frac{19}{6} \quad \left[\begin{array}{cc} 2 & 4 \\ 19 & 4 \end{array} \right]_3^2$ | T: 12,99 | $\frac{331}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} - 8x^{10} - 10x^8 + 12x^6 + 16x^2 + 10$ | $x^{12} - 400x^6 - 1680x^4 - 1920x^2 + 160$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right] \begin{array}{c} 19 \\ 6 \end{array} \begin{array}{c} 4 \\ 4 \end{array} \left. \vphantom{\begin{array}{c} 19 \\ 6 \end{array}} \right]_3^2$ | T: 12,99 | $\frac{331}{96}$ |
| $x^{12} + 6x^8 + 8x^6 + 8x^4 + 8x^2 + 2$ | $x^{12} + 88x^8 + 1936x^4 + 29282$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 6 \end{array} \right] \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 4 \\ 4 \end{array} \left. \vphantom{\begin{array}{c} 2 \\ 3 \end{array}} \right]_3^2$ | T: 12,51 | $\frac{151}{48}$ |
| $x^{12} - 4x^{10} - 4x^8 - 4x^6 - 2x^4 - 4x^2 - 6$ | $x^{12} - 24x^{10} + 90x^8 + 248x^6 - 996x^4 + 720x^2 + 40$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right] \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 4 \\ 4 \end{array} \left. \vphantom{\begin{array}{c} 23 \\ 6 \end{array}} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} - 4x^{10} + 14x^8 + 8x^6 - 14x^4 - 8x^2 - 14$ | $x^{12} - 12x^{10} + 54x^8 - 112x^6 + 102x^4 - 24x^2 + 2$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 11 \\ 3 \end{array} \begin{array}{c} 4 \\ 4 \end{array} \left. \vphantom{\begin{array}{c} 8 \\ 3 \end{array}} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 16x^{10} - 14x^8 + 8x^6 + 10$ | $x^{12} - 22x^8 - 88x^4 - 2662$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 4 \\ 4 \end{array} \left. \vphantom{\begin{array}{c} 8 \\ 3 \end{array}} \right]_3^2$ | T: 12,141 | $\frac{643}{192}$ |
| $x^{12} - 4x^8 + 4x^6 + 4x^4 + 4x^2 + 6$ | $x^{12} - 12x^{10} + 66x^8 - 192x^6 + 300x^4 - 144x^2 + 24$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 4 \\ 4 \end{array} \left. \vphantom{\begin{array}{c} 23 \\ 6 \end{array}} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} + 8x^{10} - 6x^8 - 4x^6 + 2x^4 + 4x^2 - 6$ | $x^{12} - 60x^{10} - 1590x^8 + 2300x^6 + 42150x^4 + 85500x^2 - 3750$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 4 \\ 4 \end{array} \left. \vphantom{\begin{array}{c} 8 \\ 3 \end{array}} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 16x^{10} + 6x^8 + 8x^6 - 10$ | $x^{12} - 22x^8 - 308x^4 + 10648$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 4 \\ 4 \end{array} \left. \vphantom{\begin{array}{c} 8 \\ 3 \end{array}} \right]_3^2$ | T: 12,141 | $\frac{643}{192}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 8x^8 + 12x^6 - 10x^4 + 8x^2 + 10$ | $x^{12} + 12x^{10} + 78x^8 + 508x^6 + 2598x^4 + 7320x^2 + 8410$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{11}{3} \left[\begin{array}{cc} 4 & \\ & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} - 8x^{10} + 14x^8 - 12x^6 - 4x^4 - 12x^2 - 10$ | $x^{12} - 8x^{10} + 30x^8 - 60x^6 + 76x^4 - 60x^2 + 22$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{23}{6} \left[\begin{array}{cc} 4 & \\ & 4 \end{array} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 12x^{10} - 4x^8 - 12x^2 + 10$ | $x^{12} + 8x^{10} + 16x^8 - 88x^6 - 748x^4 - 1892x^2 - 1078$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{8}{3} \left[\begin{array}{ccc} 3 & 23 & 23 \\ & 3 & 6 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^{10} + 8x^6 - 6x^4 + 8x^2 - 2$ | $x^{12} - 6x^8 + 6x^4 - 2$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ & 3 & 3 \end{array} \right] \frac{11}{3} \left[\begin{array}{cc} 4 & \\ & 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 8x^8 - 4x^6 + 6x^4 + 8x^2 + 2$ | $x^{12} + 12x^{10} + 54x^8 + 172x^6 + 342x^4 + 408x^2 + 242$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{11}{3} \left[\begin{array}{cc} 4 & \\ & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} - 6x^8 + 8x^6 - 6x^4 - 4x^2 - 2$ | $x^{12} - 60x^{10} + 4700x^6 - 29430x^4 + 72900x^2 - 36450$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{8}{3} \left[\begin{array}{ccc} 3 & 23 & 23 \\ & 3 & 6 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 8x^8 + 16x^6 - 8x^4 - 12x^2 - 14$ | $x^{12} - 16x^6 + 24x^4 - 12x^2 + 2$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{23}{6} \left[\begin{array}{cc} 4 & \\ & 4 \end{array} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} - 8x^{10} - 14x^8 + 8x^6 + 10x^4 + 8x^2 - 14$ | $x^{12} + 44x^8 + 3146x^4 + 29282$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{11}{3} & 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 4x^8 + 4x^6 + 4x^2 + 2$ | $x^{12} + 12x^{10} + 18x^8 + 24x^6 - 240x^4 - 180x^2 - 270$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{8}{3} & 3 \\ & \frac{23}{6} & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 12x^{10} + 12x^8 + 8x^6 - 6x^4 + 14$ | $x^{12} - 24x^{10} + 18x^8 + 4080x^6 - 45180x^4 + 194400x^2 - 304200$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 2 \\ & \frac{8}{3} & 3 \\ & \frac{11}{3} & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 16x^{10} - 8x^8 - 4x^6 - 10x^4 - 4x^2 - 14$ | $x^{12} - 24x^{10} + 238x^8 - 1224x^6 + 3330x^4 - 4212x^2 + 1458$ | $\left[\begin{array}{ccc} \frac{8}{3} & 3 & 3 \\ & \frac{23}{6} & 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 4x^{10} - 6x^8 + 6x^4 + 4x^2 - 6$ | $x^{12} + 12x^{10} + 76x^8 + 196x^6 + 114x^4 + 44x^2 - 22$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & 3 \\ & \frac{8}{3} & 3 \\ & \frac{23}{6} & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 2x^8 + 6x^4 - 2$ | $x^{12} - 2x^8 + 2x^4 - 2$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{11}{3} & 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} - 4x^{10} + 2x^8 + 4x^6 + 2x^4 + 4x^2 + 2$ | $x^{12} + 8x^{10} + 28x^8 + 40x^6 + 30x^4 + 12x^2 + 2$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{23}{6} & 4 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} + 12x^{10} - 4x^8 - 12x^6 + 14x^4 + 12x^2 + 10$ | $x^{12} - 12x^{10} - 30x^8 + 56x^6 + 114x^4 + 60x^2 + 10$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 4x^{10} - 4x^8 - 4x^6 + 2x^4 + 4x^2 - 2$ | $x^{12} + 24x^{10} + 166x^8 + 88x^6 - 1892x^4 - 1936x^2 - 968$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 16x^{10} + 12x^4 - 4x^2 - 10$ | $x^{12} - 24x^{10} + 226x^8 - 1056x^6 + 2508x^4 - 2464x^2 + 88$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 3 \\ 3 \\ 6 \end{array} \left[\begin{array}{c} 23 \\ 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 4x^{10} - 4x^8 - 4x^6 - 2x^4 - 8x^2 + 10$ | $x^{12} - 4x^{11} + 2x^{10} + 60x^9 - 183x^8 + 168x^7 + 308x^6 - 792x^5 - 1191x^4 - 324x^3 + 102x^2 + 12x - 17$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 3 \\ 3 \\ 6 \end{array} \left[\begin{array}{c} 11 \\ 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 8x^{10} + 6x^8 + 4x^6 - 4x^4 - 4x^2 - 2$ | $x^{12} + 8x^{10} + 12x^8 - 20x^4 + 12x^2 - 2$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 8x^{10} + 8x^8 - 4x^6 - 2x^4 + 2$ | $x^{12} - 12x^{10} + 42x^8 - 16x^6 - 84x^4 - 48x^2 + 8$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 11 \\ 6 \\ 6 \end{array} \left[\begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 4x^{10} - 6x^8 - 4x^6 + 8x^4 + 8x^2 - 6$ | $x^{12} - 36x^8 + 196x^6 - 432x^4 + 360x^2 + 10$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{3}{3} \frac{4}{3} \right]_3^2$ | T: 12,94 | $\frac{319}{96}$ |
| $x^{12} - 4x^{10} + 2x^8 + 8x^6 - 2$ | $x^{12} + 12x^{10} + 38x^8 - 16x^6 - 156x^4 + 16x^2 - 2$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{3}{3} \frac{19}{6} \frac{19}{6} \frac{4}{6} \right]_3^2$ | T: 12,142 | $\frac{667}{192}$ |
| $x^{12} + 4x^{10} - 6x^8 - 4x^6 + 8x^4 + 8x^2 + 2$ | $x^{12} + 12x^{10} - 90x^8 + 244x^6 - 324x^4 + 192x^2 + 2$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{3}{3} \frac{4}{3} \right]_3^2$ | T: 12,94 | $\frac{319}{96}$ |
| $x^{12} + 8x^{10} + 2x^8 + 2x^4 + 2$ | $x^{12} + 18x^8 + 110x^4 + 242$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{11}{3} \frac{11}{3} \frac{4}{3} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 8x^6 - 10$ | $x^{12} + 54$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \frac{3}{3} \frac{4}{3} \right]_3^2$ | T: 12,14 | $\frac{37}{12}$ |
| $x^{12} + 4x^{10} + 4x^8 + 4x^2 + 2$ | $x^{12} + 4x^{10} + 22x^8 - 176x^6 - 132x^4 + 880x^2 + 968$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{23}{6} \frac{23}{6} \frac{4}{6} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 4x^{10} - 12x^8 + 16x^6 + 8x^4 + 12x^2 + 10$ | $x^{12} + 4x^{10} + 180x^8 + 1936x^6 - 968x^4 + 220x^2 - 22$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{23}{6} \frac{23}{6} \frac{4}{6} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 4x^{10} - 6x^8 + 4x^6 + 8x^4 + 8x^2 + 2$ | $x^{12} - 12x^{10} - 90x^8 - 244x^6 - 324x^4 - 192x^2 + 2$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{3}{3} \frac{4}{3} \right]_3^2$ | T: 12,94 | $\frac{319}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} + 4x^{10} + 4x^8 - 4x^6 + 16x^2 + 10$ | $x^{12} - 20x^{10} + 110x^8 + 80x^6 - 180x^4 + 240x^2 + 360$ | $\left[\begin{array}{cccc} 4 & 4 & 3 & 19 \\ 3 & 3 & 6 & 6 \end{array} \right]_3^2$ | T: 12,105 | $\frac{331}{96}$ |
| $x^{12} + 8x^8 + 8x^6 - 6x^4 + 4x^2 - 6$ | $x^{12} + 12x^{10} + 42x^8 + 72x^6 + 12x^4 - 24$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 23 \\ & & & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 8x^8 - 12x^6 + 6x^4 - 8x^2 + 10$ | $x^{12} - 12x^{10} + 78x^8 - 508x^6 + 2598x^4 - 7320x^2 + 8410$ | $\left[\begin{array}{cccc} 8 & 8 & 3 & 11 \\ 3 & 3 & 3 & 4 \\ & & & 3 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 4x^{10} - 4x^8 + 6x^4 + 4x^2 - 2$ | $x^{12} - 44x^{10} + 814x^8 - 8712x^6 + 57596x^4 - 170368x^2 - 117128$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 23 \\ & & & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 8x^{10} - 6x^8 + 8x^6 - 14x^4 + 12x^2 - 10$ | $x^{12} - 4x^{11} - 34x^{10} + 164x^9 + 469x^8 - 1928x^7 - 1684x^6 + 8456x^5 - 5889x^4 + 3164x^3 + 21694x^2 - 90108x + 79003$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \\ & & & 23 \\ & & & 6 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^{10} + 10x^8 + 16x^4 - 4x^2 + 10$ | $x^{12} - 48x^{10} + 774x^8 - 5520x^6 + 15660x^4 - 48600$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \\ & & & 8 \\ & & & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 4x^{10} + 2x^8 - 2x^4 - 4x^2 - 6$ | $x^{12} + 8x^{10} + 2x^8 + 296x^6 - 292x^4 + 176x^2 - 88$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \\ & & & 23 \\ & & & 6 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 4x^{10} + 8x^8 + 4x^6 - 4x^2 - 6$ | $x^{12} + 12x^{10} + 42x^8 - 60x^4 + 36x^2 - 6$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 8 \\ 8 \\ 3 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \\ 23 \\ 6 \end{array} \begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]_3$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} + 8x^{10} + 4x^4 - 4x^2 - 2$ | $x^{12} - 168x^{10} - 616x^9 + 8424x^8 + 65736x^7 + 54984x^6 - 955152x^5 - 3784428x^4 - 3671728x^3 + 7321644x^2 + 18657312x + 11114206$ | $\left[\begin{array}{c} 4 \\ 4 \\ 3 \\ 3 \end{array} \begin{array}{c} 8 \\ 8 \\ 3 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \\ 23 \\ 6 \end{array} \begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]_3$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 4x^{10} - 2x^8 + 4x^6 - 2$ | $x^{12} - 120x^{10} + 3120x^8 + 45860x^6 + 37500x^4 - 2764200x^2 - 14204450$ | $\left[\begin{array}{c} 4 \\ 4 \\ 3 \\ 3 \end{array} \begin{array}{c} 5 \\ 5 \\ 3 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \\ 4 \\ 4 \end{array} \right]_3$ | T: 12,94 | $\frac{301}{96}$ |
| $x^{12} - 4x^{10} - 4x^8 - 8x^6 - 12x^4 + 4x^2 - 10$ | $x^{12} - 32x^{10} + 450x^8 - 3588x^6 + 17032x^4 - 45276x^2 + 52822$ | $\left[\begin{array}{c} 8 \\ 8 \\ 3 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \\ 23 \\ 6 \end{array} \begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]_3$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 8x^{10} - 6x^4 + 8x^2 + 6$ | $x^{12} - 6x^8 + 30x^4 + 6$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 8 \\ 8 \\ 3 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \\ 11 \\ 3 \end{array} \begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]_3$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 8x^{10} + 6x^8 + 4x^6 - 12x^4 - 4x^2 - 10$ | $x^{12} - 4x^{10} + 8x^8 - 24x^6 + 56x^4 - 52x^2 + 22$ | $\left[\begin{array}{c} 8 \\ 8 \\ 3 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \\ 23 \\ 6 \end{array} \begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]_3$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} - 2x^8 - 2x^4 + 4x^2 + 2$ | $x^{12} + 12x^{10} + 198x^8 - 792x^6 + 1716x^4 - 1760x^2 + 968$ | $\left[\begin{array}{c} 4 \\ 4 \\ 3 \\ 3 \end{array} \begin{array}{c} 8 \\ 8 \\ 3 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \\ 23 \\ 6 \end{array} \begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]_3$ | T: 12,189 | $\frac{1447}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 4x^{10} - 2x^8 + 4x^6 + 6x^4 - 2$ | $x^{12} - 12x^{10} + 46x^8 - 48x^6 - 36x^4 + 16x^2 - 8$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \quad 8 \quad 3 \quad \frac{11}{3} \quad \frac{11}{3} \quad 4 \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 4x^{10} + 2x^8 + 4x^6 + 2x^4 + 4x^2 + 2$ | $x^{12} + 44x^{10} + 660x^8 + 3872x^6 + 13794x^4 + 26620x^2 + 29282$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 12x^{10} + 12x^8 + 8x^6 - 14x^4 - 8x^2 - 14$ | $x^{12} - 36x^{10} + 420x^8 - 1816x^6 + 3866x^4 - 3608x^2 + 242$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \quad \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{11}{3} \quad \frac{11}{3} \quad 4 \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 4x^{10} + 6x^8 - 4x^6 - 2$ | $x^{12} + 120x^{10} + 3120x^8 - 45860x^6 + 37500x^4 + 2764200x^2 - 14204450$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \quad \frac{4}{3} \quad \frac{4}{3} \quad \frac{5}{3} \quad \frac{5}{3} \quad 3 \quad 3 \quad 4 \right]_3^2$ | T: 12,94 | $\frac{301}{96}$ |
| $x^{12} + 16x^{10} + 8x^8 + 8x^6 + 16x^4 - 12x^2 + 10$ | $x^{12} + 20x^{10} + 80x^8 - 400x^6 + 560x^4 - 640x^2 + 160$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 8x^{10} - 4x^8 + 4x^6 + 8x^4 - 4x^2 + 2$ | $x^{12} + 24x^{10} + 222x^8 + 672x^6 + 300x^4 - 2880x^2 - 1080$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \quad \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 4x^{10} + 2x^8 + 8x^6 + 8x^4 + 8x^2 + 6$ | $x^{12} + 16x^{10} + 114x^8 + 304x^6 + 412x^4 + 288x^2 + 88$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \quad \frac{4}{3} \quad 2 \quad 3 \quad \frac{19}{6} \quad \frac{19}{6} \quad 4 \right]_3^2$ | T: 12,142 | $\frac{667}{192}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 4x^{10} + 6x^8 - 4x^6 - 2$ | $x^{12} + 180x^{10} + 10890x^8 + 232080x^6 + 413100x^4 + 205200x^2 - 1800$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{5}{3} \frac{5}{3} 3 \frac{4}{3} \right]_3^2$ | T: 12,94 | $\frac{301}{96}$ |
| $x^{12} - 4x^{10} - 6x^8 + 8x^6 - 6x^4 - 4x^2 + 6$ | $x^{12} - 8x^{10} + 26x^8 - 48x^6 + 62x^4 - 44x^2 + 22$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} 3 \frac{23}{6} \frac{23}{6} 4 \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 4x^{10} + 6x^8 + 8x^4 + 4x^2 - 6$ | $x^{12} + 20x^{10} + 158x^8 + 624x^6 + 1292x^4 + 1232x^2 - 88$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \frac{8}{3} 3 \frac{23}{6} \frac{23}{6} 4 \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} - 4x^{10} + 16x^8 - 4x^6 + 6x^4 - 14$ | $x^{12} - 8x^{10} + 38x^8 - 308x^6 + 1166x^4 - 968x^2 + 242$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} 3 \frac{11}{3} \frac{11}{3} 4 \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 8x^{10} - 4x^8 + 4x^6 - 4x^4 + 4x^2 - 2$ | $x^{12} - 16x^{10} + 82x^8 - 128x^6 + 8x^4 + 12x^2 - 2$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \frac{8}{3} 3 \frac{23}{6} \frac{23}{6} 4 \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} - 6x^8 + 8x^6 - 4x^2 - 6$ | $x^{12} + 48x^{10} + 774x^8 + 5520x^6 + 15660x^4 - 48600$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} 2 \frac{8}{3} \frac{8}{3} 3 \frac{23}{6} \frac{23}{6} 4 \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} - 6x^8 + 4x^6 + 2x^4 + 4x^2 - 6$ | $x^{12} - 390x^8 - 3100x^6 - 10350x^4 - 40500x^2 - 33750$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} 2 \frac{8}{3} \frac{8}{3} 3 \frac{23}{6} \frac{23}{6} 4 \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} - 4x^{10} - 2x^8 - 6x^4 - 6$ | $x^{12} + 12x^{10} - 936x^8 + 10920x^6 - 48330x^4 + 75600x^2 - 1350$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 11 & 11 & 3 \\ 3 & 3 & 3 \end{array} \left. \begin{array}{c} \\ \end{array} \right]^2_3$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} - 8x^{10} + 16x^8 + 16x^6 - 6x^4 + 8x^2 + 14$ | $x^{12} - 6x^8 + 18x^4 - 18$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 11 & 3 \\ 3 & 3 & 3 \end{array} \left. \begin{array}{c} \\ \end{array} \right]^2_3$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} - 4x^{10} - 2x^8 + 8x^6 - 6$ | $x^{12} + 36x^{10} - 144x^8 + 264x^6 - 288x^4 + 144x^2 - 6$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 19 & 19 \\ 6 & 6 & 6 \end{array} \left. \begin{array}{c} \\ \end{array} \right]^2_3$ | T: 12,142 | $\frac{667}{192}$ |
| $x^{12} + 6x^8 - 4x^6 + 6$ | $x^{12} - 8x^{10} + 38x^8 - 132x^6 - 88x^4 + 1936x^2 + 2662$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 19 & 19 \\ 6 & 6 & 6 \end{array} \left. \begin{array}{c} \\ \end{array} \right]^2_3$ | T: 12,105 | $\frac{331}{96}$ |
| $x^{12} + 2x^8 + 2x^4 - 14$ | $x^{12} + 10x^8 + 58x^4 + 242$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 11 & 3 \\ 3 & 3 & 3 \end{array} \left. \begin{array}{c} \\ \end{array} \right]^2_3$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} - 8x^{10} - 14x^8 - 12x^6 + 16x^2 - 10$ | $x^{12} + 28x^{10} + 338x^8 + 2032x^6 + 5932x^4 + 7216x^2 + 4312$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 19 & 19 \\ 6 & 6 & 6 \end{array} \left. \begin{array}{c} \\ \end{array} \right]^2_3$ | T: 12,99 | $\frac{331}{96}$ |
| $x^{12} + 4x^{10} + 2x^8 + 2x^4 + 4x^2 - 10$ | $x^{12} - 4x^6 + 18x^4 - 12x^2 + 6$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 6 \\ 6 & 6 & 6 \end{array} \left. \begin{array}{c} \\ \end{array} \right]^2_3$ | T: 12,105 | $\frac{361}{96}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 8x^{10} - 14x^8 + 16x^6 + 2x^4 + 16x^2 + 10$ | $x^{12} - 22x^8 + 242x^4 - 2662$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \frac{8}{3} 3 \frac{11}{3} 4 \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} - 2x^8 + 4x^6 + 6x^4 - 4x^2 - 2$ | $x^{12} - 36x^{10} + 270x^8 - 580x^6 + 450x^4 + 900x^2 - 1250$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} 2 \frac{8}{3} 3 \frac{23}{6} 3 \frac{23}{6} 4 \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 6x^8 - 4x^6 + 6x^4 + 4x^2 + 6$ | $x^{12} - 48x^{10} + 720x^8 - 1600x^6 - 36000x^4 + 240000x^2 - 400000$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} 2 \frac{8}{3} 3 \frac{23}{6} 3 \frac{23}{6} 4 \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 4x^{10} - 6x^8 - 4x^6 + 8x^4 + 8x^2 + 2$ | $x^{12} + 12x^{10} - 18x^8 - 332x^6 + 684x^4 + 480x^2 + 98$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} 3 \frac{8}{3} 3 \frac{8}{3} 3 4 \right]_3^2$ | T: 12,94 | $\frac{319}{96}$ |
| $x^{12} - 4x^{10} - 4x^8 - 8x^6 - 6x^4 + 16x^2 - 10$ | $x^{12} - 36x^{10} + 180x^8 - 1000x^6 + 750x^4 - 6250$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} 2 \frac{8}{3} 3 \frac{11}{3} 3 \frac{11}{3} 4 \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 8x^8 - 4x^6 + 6x^4 + 6$ | $x^{12} - 12x^{10} + 66x^8 - 220x^6 + 738x^4 - 1224x^2 + 1014$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} 3 \frac{11}{3} 4 \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} - 4x^{10} + 2x^4 + 8x^2 - 2$ | $x^{12} - 342x^8 + 5280x^6 - 35964x^4 + 116640x^2 - 145800$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} 2 \frac{8}{3} 3 \frac{11}{3} 3 \frac{11}{3} 4 \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 4x^{10} - 4x^8 - 4x^6 + 6x^4 + 8x^2 + 6$ | $x^{12} - 60x^{10} + 90x^8 + 15600x^6 - 110700x^4 + 270000x^2 - 225000$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{11}{3} \frac{4}{3} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 2x^8 - 6$ | $x^{12} - 10x^8 + 44x^4 - 88$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{4}{3} \right]_3^2$ | T: 12,141 | $\frac{643}{192}$ |
| $x^{12} - 4x^{10} + 4x^8 + 4x^6 - 4x^4 - 4x^2 + 6$ | $x^{12} - 4x^{11} - 42x^{10} + 180x^9 + 579x^8 - 3000x^7 + 956x^6 + 784x^5 + 7091x^4 + 19812x^3 + 15586x^2 + 14700x + 11903$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{23}{6} \frac{23}{6} \frac{4}{3} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} - 6x^8 + 10x^4 + 12x^2 + 14$ | $x^{12} + 60x^{10} + 900x^8 - 14160x^6 - 593280x^4 - 6739200x^2 - 26791200$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{23}{6} \frac{23}{6} \frac{4}{3} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 4x^{10} - 2x^8 - 4x^6 + 2x^4 + 4x^2 - 6$ | $x^{12} - 6400x^6 + 69600x^4 - 144000x^2 - 240000$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{3}{3} \frac{23}{6} \frac{23}{6} \frac{4}{3} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 8x^{10} - 10x^8 - 12x^6 - 10$ | $x^{12} + 8x^{10} + 38x^8 + 132x^6 - 88x^4 - 1936x^2 + 2662$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{4}{3} \frac{3}{3} \frac{19}{6} \frac{19}{6} \frac{4}{3} \right]_3^2$ | T: 12,105 | $\frac{331}{96}$ |
| $x^{12} - 4x^{10} - 2x^8 + 8x^6 + 2$ | $x^{12} + 54x^8 + 384x^6 + 972x^4 + 5832$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{4}{3} \frac{2}{3} \frac{3}{3} \frac{19}{6} \frac{19}{6} \frac{4}{3} \right]_3^2$ | T: 12,142 | $\frac{667}{192}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} + 8x^8 + 4x^4 + 4x^2 + 6$ | $x^{12} - 44x^{10} + 572x^8 - 3344x^6 + 9328x^4 - 11132x^2 + 2662$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{23}{6} \frac{23}{6} \frac{23}{6} \frac{23}{6} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^{10} - 6x^8 - 4x^2 - 6$ | $x^{12} + 60x^{10} + 990x^8 + 1600x^6 - 54900x^4 + 162000x^2 - 135000$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{23}{6} \frac{23}{6} \frac{23}{6} \frac{23}{6} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 12x^{10} + 12x^8 + 4x^6 + 14x^4 - 10$ | $x^{12} + 120x^{10} + 2070x^8 - 15900x^6 - 4050x^4 + 135000x^2 - 56250$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{11}{3} \frac{11}{3} \frac{11}{3} \frac{11}{3} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 12x^{10} + 6x^8 + 4x^2 - 14$ | $x^{12} + 44x^{10} + 726x^8 + 4840x^6 + 5808x^4 - 37268x^2 + 29282$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{23}{6} \frac{23}{6} \frac{23}{6} \frac{23}{6} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} + 2x^8 + 4x^6 + 4x^4 + 4x^2 + 2$ | $x^{12} + 8x^{10} + 20x^8 + 32x^6 + 28x^4 + 12x^2 + 2$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{23}{6} \frac{23}{6} \frac{23}{6} \frac{23}{6} \right]_3^2$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 4x^{10} - 4x^8 - 4x^6 + 6x^4 + 8x^2 + 6$ | $x^{12} + 60x^{10} + 540x^8 + 5900x^6 + 28350x^4 - 3000x^2 - 12250$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{11}{3} \frac{11}{3} \frac{11}{3} \frac{11}{3} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 12x^{10} + 10x^8 + 4x^6 + 16x^4 + 16x^2 - 14$ | $x^{12} - 48x^{10} + 864x^8 - 9328x^6 + 60768x^4 + 158208x^2 + 1568$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{4}{3} \frac{5}{3} \frac{5}{3} \frac{3}{3} \frac{3}{3} \frac{3}{3} \frac{3}{3} \right]_3^2$ | T: 12,94 | $\frac{301}{96}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} + 8x^{10} - 4x^6 + 8x^4 + 8x^2 - 6$ | $x^{12} + 60x^{10} + 1230x^8 + 320x^6 - 1380x^4 - 1200x^2 + 40$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,29 | $\frac{79}{24}$ |
| $x^{12} + 4x^{10} - 12x^8 + 16x^6 + 10x^4 + 4x^2 + 10$ | $x^{12} - 44x^{10} + 748x^8 - 5808x^6 + 14762x^4 + 58564x^2 - 322102$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 2 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 4x^{10} + 6x^8 - 8x^6 + 8x^4 + 4x^2 + 10$ | $x^{12} + 44x^{10} + 814x^8 + 7744x^6 + 36300x^4 + 63888x^2 - 10648$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 2 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} + 8x^{10} + 16x^8 + 8x^6 - 14x^4 - 4x^2 + 10$ | $x^{12} + 4x^{10} - 8x^6 - 18x^4 + 44x^2 - 22$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 2 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 4x^6 + 8x^4 + 8x^2 - 2$ | $x^{12} - 16x^8 - 28x^6 - 24x^4 - 40x^2 - 2$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,29 | $\frac{79}{24}$ |
| $x^{12} + 16x^{10} + 10x^8 + 12x^6 + 10x^4 + 4x^2 - 14$ | $x^{12} + 4x^{10} - 6x^8 - 28x^6 + 54x^4 - 28x^2 + 2$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 2 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} - 12x^{10} + 14x^8 + 12x^6 - 14x^4 + 4x^2 + 10$ | $x^{12} + 24x^{10} + 270x^4 + 324x^2 - 4374$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 2 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 4 \\ 6 & 6 & 6 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} - 4x^{10} - 2x^8 + 4x^6 - 2x^4 + 8x^2 - 2$ | $x^{12} - 24x^{10} + 188x^8 - 484x^6 + 242x^4 - 242$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{4}{3} & 2 & \frac{11}{3} \\ \frac{4}{3} & \frac{4}{3} & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} - 4x^{10} + 2x^8 + 4x^6 + 6x^4 - 4x^2 - 2$ | $x^{12} - 108x^{10} + 4356x^8 - 78960x^6 + 555120x^4 + 648000x^2 - 18727200$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{23}{6} & \frac{23}{6} & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} + 2x^8 + 8x^6 + 2x^4 + 4x^2 - 2$ | $x^{12} + 60x^{10} + 1890x^8 + 22200x^6 - 392850x^4 - 5467500x^2 - 8201250$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 3 \\ \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{23}{6} & \frac{23}{6} & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^{10} + 6x^8 + 4x^4 - 4x^2 - 2$ | $x^{12} + 16x^{10} + 80x^8 + 132x^6 - 176x^4 - 484x^2 - 242$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{23}{6} & \frac{23}{6} & 4 \end{array} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} + 4x^{10} + 12x^8 - 6x^4 + 10$ | $x^{12} + 24x^{10} - 924x^8 - 9280x^6 - 30960x^4 - 43200x^2 - 21600$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{11}{3} & \frac{11}{3} & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 8x^{10} + 10x^8 + 4x^6 + 2x^4 - 12x^2 + 10$ | $x^{12} + 72x^{10} + 306x^8 + 3356x^6 - 11814x^4 - 8820x^2 - 6$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{23}{6} & \frac{23}{6} & 4 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 4x^6 - 6$ | $x^{12} - 120x^{10} - 8x^9 + 6240x^8 - 2640x^7 - 161976x^6 + 143520x^5 + 2179560x^4 - 3265952x^3 - 9332160x^2 + 11651520x + 15694576$ | $\left[\begin{array}{c} 3 \\ 4 \end{array} \right]_3^2$ | T: 12,1 | $\frac{35}{12}$ |
| $x^{12} + 8x^{10} - 2x^8 + 4x^6 - 2x^4 + 8x^2 - 6$ | $x^{12} + 12x^{10} + 46x^8 + 48x^6 - 76x^4 - 176x^2 - 88$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3 \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 11 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} - 12x^{10} + 6x^8 + 12x^6 + 4x^4 - 12x^2 + 10$ | $x^{12} - 24x^{10} + 100x^8 + 792x^6 - 352x^4 - 3388x^2 - 2662$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3 \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 4 \\ 6 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 8x^{10} - 10x^8 + 8x^6 - 10$ | $x^{12} + 6x^8 + 22$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3 \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \right]_3^2$ | T: 12,141 | $\frac{643}{192}$ |
| $x^{12} - 12x^{10} + 14x^8 + 4x^6 + 4x^4 + 12x^2 + 10$ | $x^{12} - 8x^{10} + 20x^8 - 56x^6 + 56x^4 - 44x^2 - 22$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3 \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 4 \\ 6 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 16x^8 - 12x^6 - 2x^4 - 12x^2 - 14$ | $x^{12} - 24x^{10} + 72x^8 - 84x^6 + 54x^4 - 36x^2 + 18$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \right]_3 \begin{array}{c} 8 \\ 3 \end{array} \begin{array}{c} 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 23 \\ 6 \end{array} \begin{array}{c} 4 \\ 6 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |

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| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|------------|--------------------|
| $x^{12} + 8x^{10} - 12x^6 - 8x^4 + 8x^2 - 14$ | $x^{12} + 4x^{10} + 2x^8 - 220x^6 - 132x^4 + 242$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \quad \begin{array}{c} 8 \\ 3 \end{array} \quad \begin{array}{c} 3 \\ 3 \end{array} \quad \begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12, 29 | $\frac{79}{24}$ |
| $x^{12} - 4x^{10} - 4x^8 - 6x^4 - 2$ | $x^{12} + 36x^{10} - 972x^8 - 9400x^6 - 27630x^4 - 28800x^2 - 8450$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \quad \begin{array}{c} 4 \\ 3 \end{array} \quad \begin{array}{c} 2 \\ 3 \end{array} \quad \begin{array}{c} 8 \\ 3 \end{array} \quad \begin{array}{c} 8 \\ 3 \end{array} \quad \begin{array}{c} 3 \\ 3 \end{array} \quad \begin{array}{c} 11 \\ 3 \end{array} \quad \begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12, 222 | $\frac{2851}{768}$ |
| $x^{12} + 8x^{10} + 6x^8 - 12x^6 + 8x^4 + 8x^2 + 10$ | $x^{12} + 20x^{10} + 110x^8 + 80x^6 - 340x^4 - 1840x^2 + 40$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \quad \begin{array}{c} 4 \\ 3 \end{array} \quad \begin{array}{c} 3 \\ 3 \end{array} \quad \begin{array}{c} 19 \\ 6 \end{array} \quad \begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12, 99 | $\frac{331}{96}$ |
| $x^{12} + 6x^8 + 4x^6 - 4x^4 - 4x^2 - 2$ | $x^{12} + 8x^{10} - 28x^8 - 264x^6 + 836x^4 - 484x^2 - 242$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \quad \begin{array}{c} 8 \\ 3 \end{array} \quad \begin{array}{c} 3 \\ 3 \end{array} \quad \begin{array}{c} 23 \\ 6 \end{array} \quad \begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12, 99 | $\frac{361}{96}$ |
| $x^{12} - 4x^{10} - 2x^8 - 4x^6 + 6x^4 - 2$ | $x^{12} - 12x^{10} + 190x^8 - 132x^6 - 726x^4 + 968x^2 - 242$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \quad \begin{array}{c} 8 \\ 3 \end{array} \quad \begin{array}{c} 3 \\ 3 \end{array} \quad \begin{array}{c} 11 \\ 3 \end{array} \quad \begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12, 94 | $\frac{355}{96}$ |
| $x^{12} + 4x^{10} + 2x^8 + 4x^6 + 6x^4 - 4x^2 - 2$ | $x^{12} + 36x^{10} + 954x^8 + 8580x^6 - 128250x^4 - 1784700x^2 - 1080450$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \quad \begin{array}{c} 4 \\ 3 \end{array} \quad \begin{array}{c} 2 \\ 3 \end{array} \quad \begin{array}{c} 8 \\ 3 \end{array} \quad \begin{array}{c} 8 \\ 3 \end{array} \quad \begin{array}{c} 3 \\ 3 \end{array} \quad \begin{array}{c} 23 \\ 6 \end{array} \quad \begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12, 222 | $\frac{2899}{768}$ |
| $x^{12} + 4x^{10} + 6x^8 + 4x^6 - 6x^4 - 4x^2 - 6$ | $x^{12} + 60x^{10} - 1500x^8 + 11200x^6 - 38400x^4 + 72000x^2 - 60000$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \quad \begin{array}{c} 4 \\ 3 \end{array} \quad \begin{array}{c} 2 \\ 3 \end{array} \quad \begin{array}{c} 8 \\ 3 \end{array} \quad \begin{array}{c} 8 \\ 3 \end{array} \quad \begin{array}{c} 3 \\ 3 \end{array} \quad \begin{array}{c} 23 \\ 6 \end{array} \quad \begin{array}{c} 4 \\ 4 \end{array} \right]_3^2$ | T: 12, 222 | $\frac{2899}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} + 12x^{10} - 12x^6 + 16x^4 - 12x^2 - 14$ | $x^{12} - 20x^{10} + 240x^8 - 1920x^6 + 7920x^4 - 11520x^2 - 4320$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{23}{6} & 4 \end{array} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} + 8x^{10} - 10x^8 + 14$ | $x^{12} - 22x^8 + 220x^4 - 968$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & \frac{4}{3} & \frac{8}{3} & 3 \\ & & \frac{8}{3} & 3 & 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{643}{192}$ |
| $x^{12} - 12x^{10} - 4x^8 - 8x^6 + 6x^4 - 12x^2 + 14$ | $x^{12} - 16x^{10} + 100x^8 - 352x^6 + 682x^4 - 484x^2 - 242$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{23}{6} & 4 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} - 12x^{10} - 6x^8 + 4x^6 - 8x^4 + 8x^2 + 10$ | $x^{12} - 36x^8 - 4x^6 + 408x^4 - 360x^2 + 90$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & \frac{8}{3} & 3 \\ & \frac{4}{3} & \frac{8}{3} & 3 & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{319}{96}$ |
| $x^{12} + 4x^{10} + 10x^8 + 12x^6 - 8x^4 + 8x^2 + 10$ | $x^{12} - 24x^{10} + 240x^8 - 1308x^6 + 4068x^4 - 5760x^2 + 90$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & \frac{8}{3} & 3 \\ & \frac{4}{3} & \frac{8}{3} & 3 & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{319}{96}$ |
| $x^{12} + 12x^{10} - 6x^8 + 4x^6 + 4x^4 + 4x^2 + 14$ | $x^{12} + 60x^{10} - 2520x^8 + 20400x^6 + 36900x^4 - 337500x^2 - 551250$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & \frac{8}{3} & 3 \\ & \frac{4}{3} & \frac{8}{3} & 3 \\ & & \frac{23}{6} & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 2x^8 + 8x^6 - 6$ | $x^{12} - 6x^8 - 22$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & \frac{4}{3} & \frac{8}{3} & 3 \\ & & \frac{8}{3} & 3 & 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{643}{192}$ |
| $x^{12} - 4x^{10} + 2x^8 + 8x^4 + 8x^2 - 2$ | $x^{12} + 4x^{10} - 26x^8 + 92x^4 + 200x^2 - 2$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ & \frac{4}{3} & 3 \\ & & \frac{19}{6} & 4 \end{array} \right]_3^2$ | T: 12,142 | $\frac{667}{192}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 8x^8 + 8x^6 + 4x^2 - 6$ | $x^{12} - 20x^{10} + 110x^8 - 320x^6 + 380x^4 - 80x^2 + 40$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 23 \\ 6 \\ 6 \end{array} \left. \begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} - 8x^{10} - 8x^8 - 12x^6 - 10x^4 + 8x^2 - 14$ | $x^{12} - 12x^{10} + 66x^8 - 208x^6 + 396x^4 - 432x^2 + 200$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 11 \\ 3 \\ 3 \end{array} \left. \begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 8x^{10} - 4x^8 + 12x^6 + 14x^4 + 16x^2 + 10$ | $x^{12} - 12x^{10} + 90x^8 - 124x^6 + 6x^4 + 10$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 11 \\ 3 \\ 3 \end{array} \left. \begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} - 8x^8 - 8x^6 + 4x^4 - 12x^2 - 10$ | $x^{12} + 44x^{10} + 572x^8 + 3344x^6 + 9328x^4 + 11132x^2 + 2662$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 3 \\ 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \\ 6 \end{array} \left. \begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 4x^{10} + 2x^8 + 4x^6 + 6x^4 + 2$ | $x^{12} - 12x^8 - 36x^6 - 42x^4 - 16x^2 + 2$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 11 \\ 3 \\ 3 \end{array} \left. \begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} - 4x^{10} + 2x^8 + 6x^4 - 4x^2 + 2$ | $x^{12} + 16x^{10} + 100x^8 + 324x^6 + 614x^4 + 660x^2 + 338$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 3 \\ 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \\ 6 \end{array} \left. \begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 4x^{10} - 4x^8 - 4x^6 + 4x^4 + 4x^2 + 6$ | $x^{12} + 44x^{10} + 770x^8 + 6776x^6 + 32912x^4 + 90508x^2 + 130438$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right] \begin{array}{c} 3 \\ 3 \\ 3 \end{array} \begin{array}{c} 23 \\ 6 \\ 6 \end{array} \left. \begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]$ | T: 12,142 | $\frac{181}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 4x^{10} + 4x^6 + 4x^2 + 2$ | $x^{12} + 12x^{10} + 66x^8 + 192x^6 + 324x^4 + 324x^2 + 162$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} + 6$ | $x^{12} + 12x^8 + 12x^4 + 6$ | $\left[\begin{array}{ccc} 2 & 3 & 4 \\ & 3 & 4 \\ & & 4 \end{array} \right]_3^2$ | T: 12,14 | $\frac{37}{12}$ |
| $x^{12} - 4x^{10} + 2x^8 + 8x^6 + 6x^4 - 4x^2 + 2$ | $x^{12} + 32x^{10} + 450x^8 + 3544x^6 + 16394x^4 + 40524x^2 + 40898$ | $\left[\begin{array}{ccc} 4 & \frac{4}{3} & \frac{8}{3} \\ & \frac{4}{3} & \frac{8}{3} \\ & & 3 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 12x^{10} + 10x^8 + 4x^6 + 10x^4 - 4x^2 - 14$ | $x^{12} - 12x^{10} + 90x^8 - 324x^6 + 674x^4 - 660x^2 + 242$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 4x^{10} + 4x^8 + 4x^6 + 2x^4 + 4x^2 - 2$ | $x^{12} + 20x^{10} + 188x^8 + 396x^6 - 22x^4 - 484x^2 - 242$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} - 4x^{10} + 2x^8 - 4x^6 + 2x^4 + 4x^2 + 2$ | $x^{12} + 4x^{10} + 76x^8 + 264x^6 + 506x^4 + 484x^2 + 242$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{23}{6} \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 8x^{10} + 8x^8 + 4x^6 + 6x^4 + 8x^2 + 2$ | $x^{12} + 12x^{10} + 54x^8 + 132x^6 + 270x^4 + 504x^2 + 450$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{11}{3} \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 4x^{10} + 12x^8 + 8x^6 - 14x^4 - 8x^2 + 10$ | $x^{12} - 60x^{10} + 1860x^8 - 34400x^6 + 267150x^4 - 63000x^2 - 3750$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \frac{11}{3} \frac{4}{3}$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 8x^{10} + 6x^8 + 8x^4 + 8x^2 - 2$ | $x^{12} + 44x^4 - 242$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 7 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \frac{7}{3} \frac{4}{3}$ | T: 12,141 | $\frac{631}{192}$ |
| $x^{12} + 12x^{10} - 8x^8 - 8x^4 + 12x^2 + 10$ | $x^{12} + 12x^{10} + 48x^8 + 80x^6 + 120x^4 + 300x^2 + 250$ | $\left[\begin{array}{cccc} 8 & 8 & 3 & 23 \\ 3 & 3 & 6 & 6 \end{array} \right]_3 \frac{23}{6} \frac{4}{3}$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} - 4x^{10} - 4x^8 + 8x^4 + 4x^2 + 2$ | $x^{12} + 24x^{10} + 198x^8 + 704x^6 + 1452x^4 + 1760x^2 + 968$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \frac{23}{6} \frac{23}{6} \frac{4}{3}$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 4x^{10} + 4x^8 - 8x^6 - 10x^4 - 4x^2 - 10$ | $x^{12} + 8x^{10} + 108x^8 + 280x^6 + 290x^4 + 132x^2 + 22$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 6 & 6 \end{array} \right]_3 \frac{23}{6} \frac{23}{6} \frac{4}{3}$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 4x^{10} + 10x^8 + 16x^6 - 2x^4 - 12x^2 - 14$ | $x^{12} - 8x^{10} + 20x^8 + 4x^6 - 74x^4 + 36x^2 + 98$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \frac{23}{6} \frac{23}{6} \frac{4}{3}$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 4x^{10} - 6x^8 - 4x^6 + 8x^4 + 8x^2 - 6$ | $x^{12} - 24x^{10} + 192x^8 - 444x^6 + 108x^4 + 810$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \frac{8}{3} \frac{3}{3} \frac{4}{3}$ | T: 12,94 | $\frac{319}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 12x^{10} - 12x^6 - 12x^4 - 4x^2 + 14$ | $x^{12} + 60x^{10} + 750x^8 + 5000x^6 - 135000x^4 - 337500x^2 - 281250$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} - 4x^8 + 8x^4 + 4x^2 + 2$ | $x^{12} - 20x^{10} + 166x^8 - 704x^6 + 1628x^4 - 1936x^2 + 968$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} - 4x^{10} - 2x^8 + 4x^6 - 2x^4 + 8x^2 + 6$ | $x^{12} + 20x^{10} + 198x^8 + 1056x^6 + 3388x^4 + 5808x^2 + 10648$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \quad 3 \quad \frac{11}{3} \quad \frac{11}{3} \quad 4 \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} - 14x^8 - 14$ | $x^{12} + 22x^8 + 220x^4 + 968$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \quad 2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad 4 \right]_3^2$ | T: 12,141 | $\frac{643}{192}$ |
| $x^{12} + 4x^{10} + 12x^8 + 4x^6 - 12x^4 + 4x^2 - 10$ | $x^{12} + 286x^8 - 968x^6 + 24684x^4 + 15972x^2 + 2662$ | $\left[2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} - 12x^{10} + 12x^8 + 8x^6 + 2x^4 + 12x^2 + 10$ | $x^{12} - 24x^{10} + 44x^8 - 120x^6 - 250x^4 - 132x^2 - 22$ | $\left[2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 4x^{10} + 4x^8 + 6x^4 - 4x^2 + 6$ | $x^{12} - 20x^{10} + 158x^8 - 536x^6 + 764x^4 - 352x^2 + 88$ | $\left[2 \quad \frac{8}{3} \quad \frac{8}{3} \quad 3 \quad \frac{23}{6} \quad \frac{23}{6} \quad 4 \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 4x^6 - 2x^4 + 2$ | $x^{12} - 12x^{10} + 54x^8 - 132x^6 + 18x^4 - 72x^2 + 18$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{11}{3} \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 8x^{10} + 8x^8 + 16x^6 - 12x^2 + 10$ | $x^{12} + 12x^{10} + 42x^8 + 916x^6 + 1644x^4 + 1020x^2 + 10$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{23}{6} \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 12x^{10} + 14x^8 + 8x^6 - 14x^4 - 8x^2 + 10$ | $x^{12} + 36x^{10} + 414x^8 + 1000x^6 - 13110x^4 - 99000x^2 - 205350$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \frac{8}{3} \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{11}{3} \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} - 12x^{10} - 6x^8 - 8x^6 - 12x^4 - 4x^2 - 10$ | $x^{12} - 4x^{10} + 4x^8 - 4x^6 + 24x^4 - 44x^2 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \frac{8}{3} \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{23}{6} \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^8 + 4x^6 + 6x^4 + 8x^2 - 6$ | $x^{12} - 24x^{10} + 240x^8 - 1244x^6 + 2598x^4 + 120x^2 + 10$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{11}{3} \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 16x^{10} + 8x^8 - 12x^6 + 14x^4 + 10$ | $x^{12} + 12x^{10} + 30x^8 - 164x^6 - 1062x^4 + 3240x^2 + 90$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{11}{3} \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 4x^{10} - 2x^8 + 4x^6 + 2x^4 + 4x^2 - 6$ | $x^{12} - 60x^{10} - 1500x^8 - 11200x^6 - 38400x^4 - 72000x^2 - 60000$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \frac{8}{3} \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{23}{6} \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]$ | T: 12,222 | $\frac{2899}{768}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} + 12x^{10} - 6x^8 - 4x^6 - 8x^4 + 8x^2 - 14$ | $x^{12} - 36x^{10} + 126x^8 - 384x^6 + 972x^4 - 3888x^2 + 72$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,94 | $\frac{319}{96}$ |
| $x^{12} + 8x^6 + 8x^4 + 8x^2 - 2$ | $x^{12} + 2x^8 - 2$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,51 | $\frac{10}{3}$ |
| $x^{12} - 12x^{10} - 2x^8 - 12x^6 - 6x^4 + 4x^2 - 14$ | $x^{12} + 4x^{10} + 32x^8 + 192x^6 + 90x^4 + 2100x^2 - 750$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{cc} 23 & 23 \\ 6 & 6 \end{array} \right]_4^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 8x^{10} + 16x^8 + 16x^6 + 2x^4 + 16x^2 + 14$ | $x^{12} + 6x^4 - 2$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 11 \\ & & & 3 \end{array} \right]_3^2 \left[\begin{array}{cc} 11 & 11 \\ 4 & 4 \end{array} \right]_3$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 8x^{10} - 4x^8 + 4x^6 + 6x^4 + 8x^2 - 6$ | $x^{12} + 24x^{10} + 204x^8 + 660x^6 + 774x^4 + 360x^2 + 90$ | $\left[\begin{array}{cccc} 8 & 8 & 3 & 11 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{cc} 11 & 11 \\ 4 & 4 \end{array} \right]_3$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 8x^8 - 4x^6 + 6x^4 + 8x^2 - 6$ | $x^{12} + 24x^{10} + 240x^8 + 1244x^6 + 2598x^4 - 120x^2 + 10$ | $\left[\begin{array}{cccc} 8 & 8 & 3 & 11 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{cc} 11 & 11 \\ 4 & 4 \end{array} \right]_3$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} - 6x^8 - 4x^6 + 6x^4 + 8x^2 + 14$ | $x^{12} + 48x^{10} + 18x^8 - 10572x^6 - 11214x^4 - 4320x^2 - 450$ | $\left[\begin{array}{cccc} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2 \left[\begin{array}{cc} 11 & 11 \\ 4 & 4 \end{array} \right]_3$ | T: 12,189 | $\frac{1423}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 12x^{10} + 12x^8 + 8x^6 - 8x^4 + 4x^2 - 14$ | $x^{12} + 8x^{10} - 88x^6 + 132x^4 - 132x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3 \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 4x^{10} + 8x^8 + 4x^6 + 8x^4 - 4x^2 + 2$ | $x^{12} + 20x^{10} + 240x^8 + 1920x^6 + 7920x^4 + 11520x^2 - 4320$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3 \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} + 6x^8 + 8x^4 + 8x^2 - 2$ | $x^{12} - 22x^8 - 308x^4 - 968$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 7 & 7 & 3 \\ 3 & 3 & 4 \end{array} \right]_3 \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3$ | T: 12,141 | $\frac{631}{192}$ |
| $x^{12} + 12x^{10} - 12x^8 + 16x^6 + 12x^4 + 12x^2 - 10$ | $x^{12} - 12x^{10} + 76x^8 - 504x^6 + 2292x^4 - 4708x^2 + 3718$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3 \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} + 16x^{10} - 8x^8 + 16x^6 - 12x^2 + 10$ | $x^{12} - 20x^{10} + 80x^8 + 400x^6 + 560x^4 + 640x^2 + 160$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3 \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} - 4x^{10} + 8x^8 - 12x^6 + 4x^4 - 12x^2 - 10$ | $x^{12} - 24x^{10} + 3114x^8 - 24360x^6 + 50220x^4 - 29700x^2 - 2250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 6 \end{array} \right]_3 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \right]_3 \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 4x^{10} - 6x^8 + 4x^6 - 6$ | $x^{12} + 12x^{10} + 90x^8 + 4x^6 - 168x^4 + 90$ | $\left[\begin{array}{ccc} 4 & 4 & 5 \\ 3 & 3 & 3 \end{array} \right]_3 \left[\begin{array}{ccc} 5 & 5 & 3 \\ 3 & 3 & 4 \end{array} \right]_3 \left[\begin{array}{c} 2 \\ 4 \end{array} \right]_3$ | T: 12,94 | $\frac{301}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 8x^{10} + 4x^8 - 12x^6 + 8x^4 + 4x^2 + 10$ | $x^{12} + 12x^{10} - 360x^9 - 1014x^8 + 6000x^7 + 4536x^6 - 19560x^5 - 18204x^4 - 26240x^3 + 28380x^2 + 38880x + 9714$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \left[\begin{array}{cc} 2 & 4 \\ 4 & 3 \end{array} \right]_3$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 4x^{10} + 2x^8 - 4x^6 - 2x^4 - 4x^2 + 6$ | $x^{12} - 108x^{10} - 4230x^8 - 63300x^6 - 479250x^4 - 1822500x^2 - 2756250$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \left[\begin{array}{cc} 2 & 4 \\ 4 & 3 \end{array} \right]_3$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 4x^{10} - 6x^8 + 12x^6 + 6x^4 + 8x^2 - 14$ | $x^{12} + 12x^{10} + 34x^8 + 44x^6 + 34x^4 + 16x^2 + 2$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 11 & 11 \\ 3 & 3 \end{array} \left[\begin{array}{cc} 2 & 4 \\ 4 & 3 \end{array} \right]_3$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} - 4x^{10} - 2x^8 + 8x^6 - 6x^4 + 4x^2 + 6$ | $x^{12} + 60x^{10} + 540x^8 - 8400x^6 + 21600x^4 - 36000$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \left[\begin{array}{cc} 2 & 4 \\ 4 & 3 \end{array} \right]_3$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^{10} + 2x^8 + 8x^6 - 6x^4 + 8x^2 - 6$ | $x^{12} + 22x^8 + 484x^4 - 10648$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{cc} 11 & 11 \\ 3 & 3 \end{array} \left[\begin{array}{cc} 2 & 4 \\ 4 & 3 \end{array} \right]_3$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 4x^{10} + 6x^8 + 8x^6 + 2x^4 - 4x^2 + 6$ | $x^{12} - 60x^{10} + 1350x^8 - 13200x^6 + 41850x^4 + 67500x^2 - 56250$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \left[\begin{array}{cc} 2 & 4 \\ 4 & 3 \end{array} \right]_3$ | T: 12,189 | $\frac{1447}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} - 8x^{10} + 12x^8 + 4x^6 - 2x^4 + 10$ | $x^{12} - 24x^{10} - 228x^8 + 1780x^6 + 1230x^4 - 240x^2 + 10$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{4}{3} & 3 & \frac{11}{3} \\ \frac{11}{3} & 4 & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} - 4x^{10} - 2x^8 + 8x^6 + 8x^4 + 8x^2 + 2$ | $x^{12} - 20x^{10} + 130x^8 - 280x^6 - 340x^4 + 3560x^2 - 270$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{4}{3} & 3 & \frac{19}{6} \\ \frac{19}{6} & 4 & 4 \end{array} \right]_3^2$ | T: 12,142 | $\frac{667}{192}$ |
| $x^{12} + 4x^{10} - 4x^8 - 12x^6 + 6x^4 + 16x^2 - 14$ | $x^{12} - 16x^{10} + 74x^8 + 140x^6 + 586x^4 - 528x^2 + 242$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & \frac{8}{3} \\ \frac{4}{3} & 3 & \frac{11}{3} \\ \frac{8}{3} & \frac{11}{3} & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} + 8x^{10} - 14x^8 + 16x^6 + 2x^4 + 16x^2 - 14$ | $x^{12} - 22x^8 - 1210x^4 + 29282$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{11}{3} \\ \frac{11}{3} & 4 & 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} + 16x^{10} + 2x^8 - 8x^6 + 10x^4 - 8x^2 - 14$ | $x^{12} - 20x^8 + 78x^4 + 242$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{11}{3} \\ \frac{11}{3} & 4 & 4 \end{array} \right]_3^2$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} - 8x^{10} - 8x^8 + 4x^6 + 6x^4 + 8x^2 + 10$ | $x^{12} + 20x^6 - 450x^4 - 1080x^2 + 810$ | $\left[\begin{array}{ccc} \frac{8}{3} & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & \frac{11}{3} \\ \frac{11}{3} & 4 & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 8x^{10} + 4x^6 - 6$ | $x^{12} - 12x^{10} - 330x^8 - 604x^6 + 2304x^4 - 1440x^2 + 90$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 3 \\ \frac{4}{3} & 3 & 4 \\ \frac{4}{3} & 3 & 4 \end{array} \right]_3^2$ | T: 12,29 | $\frac{73}{24}$ |
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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{12} - 4x^{10} + 12x^8 - 12x^6 - 2x^4 - 8x^2 - 14$ | $x^{12} - 20x^{10} + 172x^8 - 764x^6 + 1890x^4 - 1232x^2 + 242$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & \frac{11}{3} & 3 \\ & 4 & \end{array} \right]^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} - 12x^{10} + 2x^8 + 16x^4 + 16x^2 + 14$ | $x^{12} - 12x^{10} + 60x^8 - 160x^6 + 284x^4 - 368x^2 - 2$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & \frac{19}{6} & 3 \\ & 4 & \end{array} \right]^2$ | T: 12,142 | $\frac{667}{192}$ |
| $x^{12} + 8x^8 + 4x^6 - 10x^4 - 8x^2 - 14$ | $x^{12} - 180x^8 + 1200x^6 - 17280x^2 + 34848$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & \frac{11}{3} & 3 \\ & 4 & \end{array} \right]^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 16x^{10} + 2x^8 - 8x^4 - 12x^2 + 10$ | $x^{12} + 120x^{10} - 240x^8 - 15200x^6 + 57600x^4 + 432000x^2 - 2160000$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \begin{array}{ccc} 3 & \frac{23}{6} & 3 \\ & 4 & \end{array} \right]^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 16x^{10} + 10x^8 - 8x^6 - 14x^4 - 4x^2 - 10$ | $x^{12} - 4x^{10} + 90x^8 - 264x^6 + 286x^4 - 132x^2 + 22$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & \frac{23}{6} & 3 \\ & 4 & \end{array} \right]^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^8 + 4x^6 - 2x^4 - 6$ | $x^{12} + 24x^{10} + 336x^8 + 2612x^6 + 1998x^4 + 810$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & \frac{11}{3} & 3 \\ & 4 & \end{array} \right]^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 12x^{10} - 10x^8 - 8x^4 + 4x^2 + 10$ | $x^{12} + 44x^{10} + 550x^8 + 2904x^6 + 6776x^4 + 5324x^2 - 2662$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & \frac{23}{6} & 3 \\ & 4 & \end{array} \right]^2$ | T: 12,142 | $\frac{181}{48}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} + 8x^{10} + 16x^8 + 8x^6 - 8x^4 + 8x^2 - 10$ | $x^{12} - 6x^8 + 12x^4 + 24$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & 4 \end{array} \right]_3^2$ | T: 12,51 | $\frac{10}{3}$ |
| $x^{12} - 4x^{10} - 4x^8 + 8x^6 + 8x^4 + 8x^2 - 6$ | $x^{12} + 4x^{10} - 22x^8 + 80x^6 - 128x^4 + 88x^2 - 22$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 3 \\ & 2 & 3 \\ & & \frac{19}{6} \end{array} \right]_3^2 \left[\begin{array}{ccc} & & 4 \\ & & \frac{19}{6} \\ & & 4 \end{array} \right]_3$ | T: 12,134 | $\frac{667}{192}$ |
| $x^{12} + 2x^8 + 2x^4 + 10$ | $x^{12} + 2x^8 - 10x^4 - 22$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{11}{3} \end{array} \right]_3^2 \left[\begin{array}{ccc} & & 4 \\ & & \frac{11}{3} \\ & & 4 \end{array} \right]_3$ | T: 12,141 | $\frac{89}{24}$ |
| $x^{12} - 12x^{10} + 10x^8 - 4x^6 - 8x^4 + 8x^2 - 14$ | $x^{12} + 360x^8 - 2928x^6 + 9072x^4 - 15552x^2 + 14112$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{8}{3} \end{array} \right]_3^2 \left[\begin{array}{ccc} & & 4 \\ & & \frac{8}{3} \\ & & 4 \end{array} \right]_3$ | T: 12,94 | $\frac{319}{96}$ |
| $x^{12} + 4x^{10} - 10x^8 - 14x^4 - 4x^2 - 10$ | $x^{12} - 60x^{10} + 810x^8 - 4200x^6 + 8100x^4 - 9000$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 3 \\ & \frac{8}{3} & 3 \\ & & \frac{8}{3} \end{array} \right]_3^2 \left[\begin{array}{ccc} & & 4 \\ & & \frac{23}{6} \\ & & 4 \end{array} \right]_3$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^{10} + 2x^8 + 4x^6 - 2$ | $x^{12} + 8x^{10} + 2x^8 + 340x^6 + 808x^4 + 352x^2 - 242$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 3 \\ & 3 & \frac{19}{6} \\ & & \frac{19}{6} \end{array} \right]_3^2 \left[\begin{array}{ccc} & & 4 \\ & & \frac{19}{6} \\ & & 4 \end{array} \right]_3$ | T: 12,99 | $\frac{331}{96}$ |
| $x^{12} - 12x^{10} - 12x^8 + 4x^6 - 8x^4 - 8x^2 - 14$ | $x^{12} - 8x^{10} + 26x^8 - 68x^6 + 88x^4 - 48x^2 + 18$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 3 \\ & 3 & \frac{19}{6} \\ & & \frac{19}{6} \end{array} \right]_3^2 \left[\begin{array}{ccc} & & 4 \\ & & \frac{19}{6} \\ & & 4 \end{array} \right]_3$ | T: 12,105 | $\frac{331}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 4x^{10} + 6x^8 - 6x^4 - 4x^2 - 2$ | $x^{12} - 72x^{10} - 480x^9 + 126x^8 + 22800x^7 + 79204x^6 - 440640x^5 - 2240244x^4 + 4520160x^3 + 18054000x^2 - 30500760x + 6958774$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{23}{6} \frac{23}{6} \frac{23}{6} \frac{23}{6} \frac{4}{3} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^{10} - 4x^8 + 4x^6 - 2x^4 - 6$ | $x^{12} - 36x^{10} + 390x^8 - 1968x^6 + 5076x^4 - 6480x^2 + 3240$ | $\left[\begin{array}{c} 8 \\ 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{11}{3} \frac{11}{3} \frac{11}{3} \frac{11}{3} \frac{4}{3} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 8x^{10} + 6x^4 + 4x^2 - 2$ | $x^{12} + 4x^{10} + 8x^8 + 120x^6 + 162x^4 + 108x^2 - 162$ | $\left[\begin{array}{c} 2 \\ 3 \end{array} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{23}{6} \frac{23}{6} \frac{23}{6} \frac{23}{6} \frac{4}{3} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 4x^{10} - 2x^8 - 8x^6 - 6x^4 - 14$ | $x^{12} - 12x^{10} + 48x^8 + 40x^6 + 6x^4 + 2$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{11}{3} \frac{11}{3} \frac{11}{3} \frac{4}{3} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} - 4x^{10} + 4x^8 + 8x^6 + 8x^4 - 4x^2 - 6$ | $x^{12} - 8x^{10} + 16x^8 + 88x^6 - 748x^4 + 1892x^2 - 1078$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{23}{6} \frac{23}{6} \frac{23}{6} \frac{4}{3} \right]_3^2$ | T: 12,189 | $\frac{1447}{384}$ |
| $x^{12} + 8x^{10} - 6x^8 + 4x^6 + 6x^4 + 8x^2 + 6$ | $x^{12} + 60x^{10} - 270x^8 - 1200x^6 + 40500x^4 + 162000x^2 - 9000$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{11}{3} \frac{11}{3} \frac{11}{3} \frac{4}{3} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} - 4x^8 - 4x^6 - 2x^4 - 6$ | $x^{12} + 12x^{10} - 222x^8 - 620x^6 + 90x^4 + 360x^2 + 90$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{11}{3} \frac{11}{3} \frac{11}{3} \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} - 4x^8 + 4x^6 - 2x^4 - 6$ | $x^{12} - 84x^{10} - 288x^9 + 1122x^8 + 7200x^7 + 6280x^6 - 28800x^5 - 66300x^4 - 18720x^3 + 70140x^2 + 73080x + 21310$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{11}{3} \frac{11}{3} \frac{11}{3} \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 8x^{10} + 8x^8 + 8x^4 + 4x^2 + 2$ | $x^{12} + 12x^{10} - 6x^8 - 44x^6 - 12x^4 + 60x^2 + 50$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{23}{6} \frac{23}{6} \frac{23}{6} \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]$ | T: 12,99 | $\frac{361}{96}$ |
| $x^{12} - 12x^{10} - 12x^8 - 4x^6 + 8x^4 - 8x^2 + 14$ | $x^{12} - 20x^{10} + 144x^8 - 396x^6 + 220x^4 - 242$ | $\left[\begin{array}{ccc} 4 & 4 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{19}{6} \frac{19}{6} \frac{19}{6} \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]$ | T: 12,105 | $\frac{331}{96}$ |
| $x^{12} + 4x^{10} - 2x^8 + 8x^6 - 6x^4 + 2$ | $x^{12} - 12x^{10} + 72x^8 - 264x^6 + 558x^4 - 144x^2 + 18$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 3 \end{array} \right] \frac{8}{3} \frac{8}{3} \frac{8}{3} \frac{11}{3} \frac{11}{3} \frac{11}{3} \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} + 12x^8 + 12x^6 + 6x^4 - 8x^2 + 10$ | $x^{12} + 20x^{10} + 130x^8 + 380x^6 + 470x^4 - 120x^2 + 10$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 3 \end{array} \right] \frac{11}{3} \frac{11}{3} \frac{11}{3} \left[\begin{array}{c} 2 \\ 4 \\ 3 \end{array} \right]$ | T: 12,94 | $\frac{355}{96}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} + 2x^8 + 2$ | $x^{12} + 24x^8 + 48x^4 + 32$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,141 | $\frac{643}{192}$ |
| $x^{12} - 4x^{10} - 4x^8 - 6$ | $x^{12} - 8x^{10} + 14x^8 + 96x^6 - 340x^4 + 352x^2 - 88$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 3 \\ 3 & 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{667}{192}$ |
| $x^{12} + 4x^{10} - 2x^8 + 4x^6 + 2x^4 + 4x^2 + 2$ | $x^{12} - 4x^{10} + 32x^8 - 192x^6 + 90x^4 - 2100x^2 - 750$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 4x^{10} + 2x^4 - 2$ | $x^{12} - 48x^{10} + 846x^8 - 6240x^6 + 14220x^4 + 21600x^2 - 45000$ | $\left[\begin{array}{cccc} 4 & 4 & 2 & 8 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,222 | $\frac{2851}{768}$ |
| $x^{12} - 8x^{10} + 12x^8 + 4x^6 - 10x^4 - 8x^2 + 10$ | $x^{12} - 36x^8 - 52x^6 + 234x^4 + 10$ | $\left[\begin{array}{cccc} 8 & 8 & 3 & 11 \\ 3 & 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 4x^{10} - 4x^8 + 8x^6 + 2x^4 - 4x^2 - 6$ | $x^{12} + 4x^{10} - 84x^8 - 792x^6 - 2750x^4 - 4356x^2 - 2662$ | $\left[\begin{array}{cccc} 2 & 8 & 8 & 3 \\ 3 & 3 & 3 & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} + 8x^{10} - 4x^6 + 8x^4 + 8x^2 + 2$ | $x^{12} - 12x^{10} + 54x^8 - 92x^6 + 72x^4 - 24x^2 + 2$ | $\left[\begin{array}{cccc} 8 & 8 & 3 & 3 \\ 3 & 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,29 | $\frac{79}{24}$ |

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Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} + 4x^{10} + 4x^8 + 4x^6 - 2x^4 + 2$ | $x^{12} - 20x^{10} + 122x^8 - 176x^6 + 124x^4 - 48x^2 + 8$ | $\left[\begin{array}{ccc} 4 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 2 & & \\ & 4 & \\ & & 4 \end{array} \right]_3^2$ | T: 12,189 | $\frac{1423}{384}$ |
| $x^{12} - 4x^8 + 4x^6 + 6x^4 + 8x^2 - 6$ | $x^{12} + 20x^{10} + 170x^8 + 580x^6 + 490x^4 - 240x^2 + 90$ | $\left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 2 & & \\ & 4 & \\ & & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 8x^{10} + 8x^8 - 4x^6 + 6x^4 + 8x^2 + 2$ | $x^{12} - 12x^{10} + 54x^8 - 132x^6 + 270x^4 - 504x^2 + 450$ | $\left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 2 & & \\ & 4 & \\ & & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 12x^{10} - 8x^8 - 12x^6 + 8x^4 + 12x^2 - 14$ | $x^{12} - 12x^{10} + 66x^8 - 192x^6 + 324x^4 - 324x^2 + 162$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 23 & 23 & 23 \\ 6 & 6 & 6 \end{array} \left[\begin{array}{ccc} 2 & & \\ & 4 & \\ & & 4 \end{array} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} + 8x^{10} + 16x^8 + 8x^4 + 8x^2 + 10$ | $x^{12} + 6x^8 + 12x^4 - 24$ | $\left[\begin{array}{ccc} 2 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 3 & 3 & 3 \\ 4 & 4 & 4 \end{array} \left[\begin{array}{ccc} 2 & & \\ & 4 & \\ & & 4 \end{array} \right]_3^2$ | T: 12,51 | $\frac{10}{3}$ |
| $x^{12} + 16x^{10} - 8x^8 + 12x^6 + 14x^4 + 16x^2 - 14$ | $x^{12} - 12x^{10} + 54x^8 - 172x^6 + 90x^4 + 24x^2 + 2$ | $\left[\begin{array}{ccc} 8 & 8 & 8 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 11 & 11 & 11 \\ 3 & 3 & 3 \end{array} \left[\begin{array}{ccc} 2 & & \\ & 4 & \\ & & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 8x^{10} + 2x^8 - 4x^6 + 8x^4 + 8x^2 - 2$ | $x^{12} - 4x^{10} + 16x^8 - 52x^6 + 56x^4 - 16x^2 - 2$ | $\left[\begin{array}{ccc} 4 & 4 & 4 \\ 3 & 3 & 3 \end{array} \right]_3 \begin{array}{ccc} 3 & 3 & 3 \\ 19 & 19 & 19 \\ 6 & 6 & 6 \end{array} \left[\begin{array}{ccc} 2 & & \\ & 4 & \\ & & 4 \end{array} \right]_3^2$ | T: 12,99 | $\frac{331}{96}$ |

Continued on next page

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|------------------|
| $x^{12} + 8x^{10} - 4x^6 - 8x^4 + 8x^2 + 10$ | $x^{12} - 60x^{10} + 1230x^8 - 2540x^6 + 2040x^4 - 600x^2 + 10$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,29 | $\frac{79}{24}$ |
| $x^{12} - 4x^{10} + 4x^8 - 6x^4 + 4x^2 - 6$ | $x^{12} - 4x^{10} - 84x^8 + 792x^6 - 2750x^4 + 4356x^2 - 2662$ | $\left[\begin{array}{ccc} 2 & 8 & 3 \\ 3 & 3 & 23 \\ & 6 & 6 \end{array} \right]_3^2$ | T: 12,134 | $\frac{181}{48}$ |
| $x^{12} - 4x^{10} + 2x^8 + 4x^6 - 10x^4 - 14$ | $x^{12} - 4x^{11} - 34x^{10} + 164x^9 + 381x^8 - 1928x^7 + 1396x^6 + 10744x^5 - 32531x^4 - 11268x^3 + 102522x^2 - 82012x + 18943$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 11 \\ & 3 & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 4x^{10} - 6x^8 + 4x^6 + 8x^4 + 8x^2 + 2$ | $x^{12} - 12x^{10} - 18x^8 + 332x^6 + 684x^4 - 480x^2 + 98$ | $\left[\begin{array}{ccc} 4 & 4 & 8 \\ 3 & 3 & 3 \end{array} \right]_3^2$ | T: 12,94 | $\frac{319}{96}$ |
| $x^{12} + 8x^{10} + 8x^8 - 4x^6 + 14x^4 - 14$ | $x^{12} + 12x^{10} + 54x^8 + 132x^6 + 18x^4 + 72x^2 + 18$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 11 \\ & 3 & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} - 4x^{10} - 6x^8 - 4x^6 + 6x^4 + 2$ | $x^{12} + 44x^{10} + 682x^8 + 3388x^6 - 1210x^4 - 21296x^2 + 29282$ | $\left[\begin{array}{ccc} 8 & 8 & 3 \\ 3 & 3 & 11 \\ & 3 & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| Continued on next page | | | | |

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 4x^8 - 12x^6 - 4x^4 - 4x^2 - 10$ | $x^{12} + 12x^{10} + 66x^8 + 192x^6 + 300x^4 + 144x^2 + 24$ | $\left[\begin{array}{ccc} 2 & \frac{8}{3} & 3 \\ \frac{8}{3} & 3 & 3 \\ 3 & \frac{23}{6} & 4 \end{array} \right]_3^2$ | T: 12,142 | $\frac{181}{48}$ |
| $x^{12} + 8x^{10} + 8x^8 + 4x^6 - 2x^4 - 6$ | $x^{12} + 60x^{10} + 1410x^8 + 16400x^6 + 98700x^4 + 294000x^2 + 289000$ | $\left[\begin{array}{ccc} \frac{8}{3} & 3 & \frac{11}{3} \\ \frac{8}{3} & 3 & \frac{11}{3} \\ 3 & \frac{11}{3} & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 12x^{10} + 10x^8 + 4x^6 - 8x^4 + 8x^2 + 10$ | $x^{12} + 24x^{10} + 240x^8 + 1308x^6 + 4068x^4 + 5760x^2 + 90$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 3 \\ \frac{4}{3} & \frac{8}{3} & 3 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{319}{96}$ |
| $x^{12} - 8x^{10} - 12x^8 - 12x^6 + 16x^4 + 4x^2 - 14$ | $x^{12} - 24x^{10} + 222x^8 - 672x^6 + 300x^4 + 2880x^2 - 1080$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & 2 \\ \frac{4}{3} & \frac{8}{3} & 3 \\ 3 & 3 & \frac{23}{6} \end{array} \right]_3^2 \left[\begin{array}{ccc} 2 & & \\ & 4 & \\ & & 4 \end{array} \right]_3$ | T: 12,222 | $\frac{2899}{768}$ |
| $x^{12} + 4x^{10} - 6x^8 + 4x^6 + 2$ | $x^{12} + 24x^{10} + 252x^8 + 1364x^6 + 2808x^4 - 1200x^2 + 2450$ | $\left[\begin{array}{ccc} \frac{4}{3} & \frac{4}{3} & \frac{5}{3} \\ \frac{4}{3} & \frac{5}{3} & 3 \\ 3 & 3 & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{301}{96}$ |
| $x^{12} - 2x^8 - 6x^4 - 4x^2 + 6$ | $x^{12} - 4x^{10} + 6x^8 - 2x^4 - 12x^2 + 22$ | $\left[\begin{array}{ccc} \frac{8}{3} & 3 & \frac{23}{6} \\ \frac{8}{3} & 3 & \frac{23}{6} \\ 3 & \frac{23}{6} & 4 \end{array} \right]_3^2$ | T: 12,105 | $\frac{361}{96}$ |
| $x^{12} + 8x^{10} - 4x^8 - 4x^6 + 6x^4 + 8x^2 + 10$ | $x^{12} - 36x^8 + 52x^6 + 234x^4 + 10$ | $\left[\begin{array}{ccc} \frac{8}{3} & 3 & \frac{11}{3} \\ \frac{8}{3} & 3 & \frac{11}{3} \\ 3 & \frac{11}{3} & 4 \end{array} \right]_3^2$ | T: 12,94 | $\frac{355}{96}$ |

Continued on next page

Table 3.1 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|------------------|
| $x^{12} + 8x^8 + 4x^6 - 2x^4 + 2$ | $x^{12} - 36x^{10} + 450x^8 - 1248x^6 + 972x^4 - 432x^2 + 72$ | $\begin{bmatrix} 8 & 8 & 3 \\ 3 & 3 & 3 \end{bmatrix} \begin{bmatrix} 11 & 11 \\ 3 & 3 \end{bmatrix} \begin{bmatrix} 2 \\ 4 \\ 3 \end{bmatrix}$ | T: 12,94 | $\frac{355}{96}$ |
| $x^{12} + 4x^{10} - 6x^8 + 4x^6 + 8x^4 + 8x^2 - 6$ | $x^{12} + 24x^{10} + 192x^8 + 444x^6 + 108x^4 + 810$ | $\begin{bmatrix} 4 & 4 & 8 & 8 \\ 3 & 3 & 3 & 3 \end{bmatrix} \begin{bmatrix} 3 & 3 & 3 & 3 \\ 4 & 4 \end{bmatrix} \begin{bmatrix} 2 \\ 3 \end{bmatrix}$ | T: 12,94 | $\frac{319}{96}$ |

Table 3.2: Degree 12 extensions of \mathbb{Q}_3

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|---------|---------------|
| $x^{12} - x^4 - x^3 - x^2 + x - 1$ | $x^{12} - x^{11} + 3x^{10} - 4x^9 + 9x^8 + 2x^7 + 12x^6 + x^5 + 25x^4 - 11x^3 + 5x^2 - 2x + 1$ | $\left[\begin{matrix}]^{12} \\]_1 \end{matrix} \right]$ | T: 1,1 | 0 |
| $x^{12} + 243x^2 - 729$ | $x^{12} - x^{11} - 22x^{10} + 14x^9 + 153x^8 - 62x^7 - 396x^6 + 84x^5 + 361x^4 - 87x^3 - 112x^2 + 37x + 1$ | $\left[\begin{matrix}]^6 \\]_2 \end{matrix} \right]$ | I: 2,1 | $\frac{1}{2}$ |
| $x^{12} + 18x^{11} + 255x^{10} - 378x^9 + 54x^8 - 459x^7 - 675x^6 + 486x^5 + 405x^4 - 729x^2 + 729$ | $x^{12} - x^{11} + x^9 - x^8 + x^6 - x^4 + x^3 - x + 1$ | $\left[\begin{matrix}]^6 \\]_2 \end{matrix} \right]$ | I: 2,1 | $\frac{1}{2}$ |
| $x^{12} - 9x^8 + 36x^6 - 9x^4 - 27$ | $x^{12} - 5x^{11} + 6x^{10} + 9x^9 - 26x^8 + 15x^7 - x^6 + 12x^5 - 6x^4 - 16x^3 + 5x^2 + 6x + 1$ | $\left[\begin{matrix}]^6 \\]_4 \end{matrix} \right]$ | I: 4,1 | $\frac{3}{4}$ |
| $x^{12} + 30x^{11} + 18x^{10} + 9x^8 - 27x^7 + 27x^6 - 27x^5 - 9x^4 + 27x^3 - 27x^2 - 27x + 27$ | $x^{12} - 3x^{11} + 2x^{10} + 2x^9 - 3x^7 - x^6 - 6x^5 + 28x^4 - 33x^3 + 18x^2 - 5x + 1$ | $\left[\begin{matrix}]^6 \\]_4 \end{matrix} \right]$ | I: 4,1 | $\frac{3}{4}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|-------------------|
| $x^{12} + 27x^6 + 81x^5 - 54x^3 - 81x - 81$ | $x^{12} + 3x^{10} - 13x^9 - 54x^8 - 42x^7 + 30x^6 + 198x^5 + 192x^4 - 125x^3 - 207x^2 - 48x + 52$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^4$ | I: 162, 54 | $\frac{241}{162}$ |
| $x^{12} + 78x^{10} - 75x^9 - 36x^8 + 36x^7 + 81x^6 - 81x^5 - 81x^4 + 81x^3 + 81x^2 + 81x - 81$ | $x^{12} - 12x^{10} - 9x^9 + 54x^8 + 81x^7 - 101x^6 - 243x^5 + 39x^4 + 343x^3 + 63x^2 - 300x - 188$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^4$ | I: 162, 54 | $\frac{241}{162}$ |
| $x^{12} + 42x^{10} - 87x^9 + 90x^8 - 99x^7 - 72x^6 - 54x^5 - 27x^4 - 108x^3 - 81$ | $x^{12} - 8x^9 - 12x^6 + 2$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^4$ | I: 162, 54 | $\frac{241}{162}$ |
| $x^{12} + 33x^{11} - 24x^{10} + 66x^9 - 45x^8 + 99x^7 - 99x^6 + 81x^5 + 27x^4 + 27x^3 + 81x^2 + 81$ | $x^{12} + 12x^{10} - 19x^9 + 54x^8 - 171x^7 + 169x^6 - 513x^5 + 447x^4 - 573x^3 + 549x^2 - 180x + 16$ | $\begin{bmatrix} 3 & 3 \\ 2 & 2 \end{bmatrix}_2^4$ | I: 18, 4 | $\frac{25}{18}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-----------------|
| $x^{12} + 33x^{11} - 63x^{10} - 36x^9 - 90x^8 - 54x^7 - 54x^6 - 108x^4 - 27x^3 - 81x^2 + 81x - 81$ | $x^{12} - 2x^9 + 4x^6 - 3x^3 + 1$ | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2^4$ | I: 6,1 | $\frac{7}{6}$ |
| $x^{12} + 24x^{11} - 3x^{10} + 81x^9 - 18x^8 + 54x^7 + 108x^5 - 54x^4 - 27x^3 - 81x - 81$ | $x^{12} - 5x^9 + 10x^6 - 10x^3 + 5$ | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2^4$ | I: 18,4 | $\frac{25}{18}$ |
| $x^{12} + 12x^{11} + 108x^{10} + 105x^9 - 45x^8 + 45x^7 - 81x^6 - 108x^5 + 27x^4 - 81x^3 - 81x^2 + 81x - 81$ | $x^{12} - 12x^{10} - 8x^9 + 18x^8 + 96x^7 + 48x^6 - 216x^5 - 135x^4 + 32x^3 - 180x^2 + 576x + 4$ | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2^4$ | I: 54,14 | $\frac{79}{54}$ |
| $x^{12} + 21x^{11} + 81x^{10} - 78x^9 - 63x^8 - 99x^7 + 117x^6 - 54x^5 - 54x^4 + 81x^2 - 81x + 81$ | $x^{12} - 4x^9 + x^6 + 6x^3 + 1$ | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2^4$ | I: 54,14 | $\frac{79}{54}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{12} + 24x^{11} + 21x^{10} + 21x^9 + 63x^8 - 54x^7 + 81x^5 - 54x^4 - 27x^3 - 81x^2 - 81x + 81$ | $x^{12} - 4x^9 - 18x^6 - 12x^3 - 1$ | $\begin{bmatrix} \frac{3}{2} & \frac{3}{2} \\ \frac{3}{2} & \frac{3}{2} \end{bmatrix}_2^4$ | I: 18,4 | $\frac{25}{18}$ |
| $x^{12} + 9x^{11} + 36x^{10} - 72x^9 + 18x^8 + 45x^7 + 99x^6 + 54x^5 + 81x^4 - 81x^3 + 81x^2 - 81x + 81$ | $x^{12} - 12x^{10} - 8x^9 + 54x^8 + 72x^7 - 101x^6 - 216x^5 + 39x^4 + 286x^3 + 63x^2 - 210x - 137$ | $\begin{bmatrix} \frac{3}{2} & \frac{3}{2} & \frac{3}{2} \\ \frac{3}{2} & \frac{3}{2} & \frac{3}{2} \end{bmatrix}_2^4$ | I: 162,54 | $\frac{241}{162}$ |
| $x^{12} + 18x^{11} - 120x^{10} - 33x^9 - 99x^8 - 117x^7 + 108x^6 + 54x^4 - 81x^2 - 81x - 81$ | $x^{12} - 8x^9 + 20x^6 - 16x^3 + 2$ | $\begin{bmatrix} \frac{3}{2} & \frac{3}{2} & \frac{3}{2} \\ \frac{3}{2} & \frac{3}{2} & \frac{3}{2} \end{bmatrix}_2^4$ | I: 162,54 | $\frac{241}{162}$ |
| $x^{12} + 165x^{10} - 312x^9 - 288x^8 - 180x^7 - 36x^6 - 135x^5 - 243x^4 + 54x^3 + 81x^2 + 81x - 162$ | $x^{12} - 4x^9 - 6x^6 + 4x^3 + 1$ | $\begin{bmatrix} \frac{3}{2} & \frac{3}{2} \\ \frac{3}{2} & \frac{3}{2} \end{bmatrix}_2^4$ | I: 18,4 | $\frac{25}{18}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|-------------------|
| $x^{12} + 42x^{11} - 57x^{10} - 36x^9 - 117x^8 - 54x^7 - 18x^6 - 27x^5 + 54x^4 + 108x^3 - 81x^2 + 81x + 81$ | $x^{12} + 12x^{10} - 2x^9 + 54x^8 - 18x^7 + 33x^6 - 54x^5 - 369x^4 - 250x^3 - 675x^2 - 588x - 137$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}^4_2$ | I: 162, 54 | $\frac{241}{162}$ |
| $x^{12} + 48x^{10} + 96x^9 + 36x^8 + 99x^7 - 99x^6 + 81x^4 - 27x^3 - 81x + 81$ | $x^{12} + 12x^{10} - 15x^9 + 54x^8 - 135x^7 + 169x^6 - 405x^5 + 447x^4 - 481x^3 + 549x^2 - 228x + 16$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}^4_2$ | I: 162, 54 | $\frac{241}{162}$ |
| $x^{12} + 12x^{11} + 87x^{10} + 57x^9 + 81x^8 - 36x^6 + 54x^5 + 54x^4 + 54x^3 - 81x - 81$ | $x^{12} + 12x^{10} - 2x^9 + 54x^8 - 18x^7 + 101x^6 - 54x^5 + 39x^4 - 46x^3 - 63x^2 + 24x - 1$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}^4_2$ | I: 162, 54 | $\frac{241}{162}$ |
| $x^{12} + 24x^{11} + 42x^{10} - 39x^9 - 99x^8 + 18x^7 - 27x^6 - 54x^4 + 27x^3 - 81x + 81$ | $x^{12} - 8x^9 + 12x^6 - 4$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}^4_2$ | I: 162, 54 | $\frac{241}{162}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|------------|-------------------|
| $x^{12} + 12x^{11} - 120x^{10} + 108x^9 + 90x^8 + 99x^7 + 90x^6 - 27x^5 + 54x^4 + 81x^3 - 81x^2 - 81$ | $x^{12} - 8x^9 + 16x^6 - 8x^3 - 2$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right] \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \right]_2^4$ | I: 162, 54 | $\frac{241}{162}$ |
| $x^{12} + 42x^{11} - 48x^{10} - 114x^9 - 99x^8 - 54x^7 - 90x^6 - 108x^5 + 27x^4 - 27x^3 + 81x^2 + 81x - 81$ | $x^{12} + 12x^{10} - 2x^9 + 54x^8 - 18x^7 + 67x^6 - 54x^5 - 165x^4 + 56x^3 - 369x^2 + 330x + 101$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right] \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \right]_2^4$ | I: 18, 4 | $\frac{25}{18}$ |
| $x^{12} + 33x^{11} - 9x^{10} - 18x^9 - 18x^8 + 81x^7 - 63x^6 + 108x^5 - 54x^4 + 81x^3 + 81x^2 + 81x - 81$ | $x^{12} - 8x^9 + 19x^6 - 12x^3 + 1$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right] \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \right]_2^4$ | I: 54, 14 | $\frac{79}{54}$ |
| $x^{12} + 33x^{11} + 81x^{10} - 75x^9 - 81x^8 + 81x^7 - 54x^6 + 54x^5 + 81x^4 + 81x^3 + 81x^2 + 81x - 81$ | $x^{12} - 12x^{10} - 8x^9 + 54x^8 + 72x^7 - 135x^6 - 216x^5 + 243x^4 + 252x^3 - 243x^2 - 108x + 101$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right] \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \right]_2^4$ | I: 162, 54 | $\frac{241}{162}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-------------|-------------------|
| $x^{12} + 12x^{11} + 108x^{10} + 108x^9 - 72x^8 - 99x^7 - 72x^6 - 108x^5 - 27x^4 + 108x^3 + 81x + 81$ | $x^{12} - 12x^{10} - 8x^9 + 54x^8 + 72x^7 - 203x^6 - 216x^5 + 651x^4 + 252x^3 - 855x^2 - 108x + 373$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right] \left[\begin{array}{c} 3 \\ 2 \end{array} \right] \left[\begin{array}{c} 3 \\ 2 \end{array} \right] \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^4$ | I: 162, 54 | $\frac{241}{162}$ |
| $x^{12} + 18x^{11} + 21x^{10} - 69x^9 - 81x^8 + 72x^7 - 90x^6 - 108x^5 + 54x^4 - 108x^3 - 81$ | $x^{12} + 12x^{10} - 8x^9 + 54x^8 - 72x^7 + 88x^6 - 216x^5 - 39x^4 - 152x^3 - 180x^2 + 192x + 124$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right] \left[\begin{array}{c} 3 \\ 2 \end{array} \right] \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^4$ | I: 54, 14 | $\frac{79}{54}$ |
| $x^{12} + 21x^{11} + 21x^{10} + 63x^9 + 36x^8 + 54x^7 + 90x^6 + 81x^3 - 81$ | $x^{12} - 5x^9 + 15x^6 - 15x^3 + 5$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^4$ | I: 6, 1 | $\frac{7}{6}$ |
| $x^{12} + 3x^7 + 3x^6 - 9x^2 + 9x - 9$ | $x^{12} - 6x^{11} + 12x^{10} - 3x^9 - 15x^8 + 18x^7 - 13x^6 + 6x^5 + 21x^4 - 45x^3 + 15x^2 + 15x - 5$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right] \left[\begin{array}{c} 5 \\ 4 \end{array} \right] \left[\begin{array}{c} 5 \\ 4 \end{array} \right] \left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^4$ | I: 324, 164 | $\frac{403}{324}$ |
| $x^{12} + 3x^{11} + 6x^{10} + 6x^9 + 9x^8 - 3x^7 + 3x^6 - 9x^5 + 9x^2 - 9$ | $x^{12} - 3x^{11} + 9x^{10} - 7x^9 - 9x^8 + 30x^7 - 75x^6 + 90x^5 - 105x^4 + 95x^3 - 60x^2 + 30x - 5$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right] \left[\begin{array}{c} 5 \\ 4 \end{array} \right] \left[\begin{array}{c} 5 \\ 4 \end{array} \right] \left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^4$ | I: 324, 164 | $\frac{403}{324}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-----------------|
| $x^{12} - 9x^{11} - 6x^{10} + 6x^9 - 12x^8 + 12x^7 - 12x^6 + 9x^4 + 9x + 9$ | $x^{12} + 6x^{10} - 8x^9 - 3x^8 - 16x^6 - 3x^4 + 8x^3 + 6x^2 + 1$ | $\begin{bmatrix} 5 & 5 \\ 4 & 4 \end{bmatrix}_4^2$ | I: 36,9 | $\frac{43}{36}$ |
| $x^{12} - 12x^{11} + 3x^{10} - 9x^9 + 3x^8 + 3x^7 + 6x^6 + 9x^3 + 9x + 9$ | $x^{12} - 8x^9 - 18x^8 - 24x^7 - 28x^6 - 24x^5 + 30x^4 + 32x^3 + 48x^2 - 32$ | $\begin{bmatrix} 5 & 5 \\ 4 & 4 \end{bmatrix}_4^2$ | I: 36,9 | $\frac{43}{36}$ |
| $x^{12} + 12x^{11} - 3x^{10} + 3x^9 + 3x^8 + 6x^7 + 12x^6 + 9x^5 + 9x^4 + 9x + 9$ | $x^{12} - 6x^8 - 16x^6 + 57x^4 - 48x^2 + 16$ | $\begin{bmatrix} 5 & 5 \\ 4 & 4 \end{bmatrix}_4^2$ | I: 36,9 | $\frac{43}{36}$ |
| $x^{12} + 3x + 3$ | $x^{12} - 6x^{10} - 8x^9 + 72x^7 + 105x^6 + 24x^5 - 102x^4 - 68x^3 + 66x^2 + 36x + 4$ | $\begin{bmatrix} 9 & 9 \\ 8 & 8 \end{bmatrix}_8^2$ | T: 12,46 | $\frac{79}{72}$ |
| $x^{12} - 3x^{10} + 3x^7 + 3x^5 + 3x^4 + 3x^3 + 3x^2 - 3x - 3$ | $x^{12} - 6x^{10} - 4x^9 + 6x^8 + 24x^5 + 21x^4 + 8x^3 + 18x^2 + 12x - 2$ | $\begin{bmatrix} 9 & 9 \\ 8 & 8 \end{bmatrix}_8^2$ | T: 12,46 | $\frac{79}{72}$ |
| $x^{12} + 3x^2 + 3$ | $x^{12} + 6x^{10} - 8x^9 + 21x^8 - 48x^7 + 48x^6 - 96x^5 + 93x^4 - 104x^3 + 102x^2 + 25$ | $\begin{bmatrix} 5 & 5 \\ 4 & 4 \end{bmatrix}_4^2$ | T: 12,17 | $\frac{43}{36}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-----------------|
| $x^{12} - 3x^{10} + 3x^6 + 3x^5 - 3x^3 - 3x^2 + 3$ | $x^{12} - 6x^{11} + 18x^{10} - 20x^9 + 15x^8 + 12x^7 - 18x^6 + 54x^5 + 39x^4 + 22x^3 + 39x^2 + 12x + 1$ | $\begin{bmatrix} 5 & 5 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 12,17 | $\frac{43}{36}$ |
| $x^{12} + 3x^{10} + 3x^9 + 3x^8 + 3x^7 + 3x^3 + 3x^2 - 3$ | $x^{12} - 8x^9 - 3x^8 - 36x^7 - 45x^6 + 96x^5 + 36x^4 - 80x^3 - 15x^2 + 6x + 1$ | $\begin{bmatrix} 5 & 5 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 12,17 | $\frac{43}{36}$ |
| $x^{12} - 3x^{10} + 3x^6 - 3x^5 + 3x^4 - 3x^2 - 3$ | $x^{12} + 6x^{10} + 12x^6 + 21x^4 + 6x^2 + 6$ | $\begin{bmatrix} 5 & 5 \\ 4 & 4 \end{bmatrix}_4^2$ | T: 12,17 | $\frac{43}{36}$ |
| $x^{12} + 3x^{11} + 3x^9 - 3x^8 + 3x^6 - 3x^2 + 3$ | $x^{12} + 6x^{10} + 15x^8 + 24x^6 + 24x^4 + 24x^2 + 12$ | $\begin{bmatrix} 5 & 5 \\ 4 & 4 \end{bmatrix}_4^2$ | T: 12,17 | $\frac{43}{36}$ |
| $x^{12} + 3x^{11} + 3x^7 + 3x^6 + 3x^4 + 3x^2 - 3$ | $x^{12} + 6x^{10} + 12x^8 + 24x^6 + 21x^4 - 6x^2 + 6$ | $\begin{bmatrix} 5 & 5 \\ 4 & 4 \end{bmatrix}_4^2$ | T: 12,17 | $\frac{43}{36}$ |
| $x^{12} + 3x^8 + 3x^6 - 9x^4 + 9x^2 - 9$ | $x^{12} + 12x^{10} - 8x^9 + 78x^8 - 72x^7 + 308x^6 - 288x^5 + 711x^4 - 592x^3 + 924x^2 - 816x + 526$ | $\begin{bmatrix} 3 & 3 \\ 2 & 2 \end{bmatrix}_2^2$ | I: 18,4 | $\frac{25}{18}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|---------|-----------------|
| $x^{12} + 12x^{11} - 6x^{10} + 6x^9 -$ $12x^8 + 12x^6 - 9x^4 - 9$ | $x^{12} + 84x^{10} - 140x^9 + 1974x^8 -$ $7980x^7 + 23534x^6 - 105252x^5 +$ $710451x^4 - 1394344x^3 + 1069278x^2 -$ $1545852x + 2418199$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^6$ | I: 18,4 | $\frac{25}{18}$ |
| $x^{12} - 12x^{11} + 3x^{10} - 9x^7 -$ $6x^6 - 9x^3 + 9x^2 - 9$ | $x^{12} - 6x^{11} + 9x^{10} - 6x^7 - 4x^6 + 6x^5 +$ $9x^2 + 6x + 1$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^4$ | I: 6,1 | $\frac{7}{6}$ |
| $x^{12} + 6x^{11} - 6x^{10} + 6x^9 - 3x^8 +$ $9x^7 - 6x^6 + 9x^5 + 9x^4 + 9x^3 +$ $9x^2 + 9$ | $x^{12} - 6x^{10} - 8x^9 + 27x^8 + 36x^7 - 46x^6 -$ $108x^5 + 57x^4 + 140x^3 + 180x^2 - 48x +$ 16 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^4$ | I: 18,4 | $\frac{25}{18}$ |
| $x^{12} - 12x^{11} - 3x^{10} - 9x^7 +$ $9x^5 + 9x^2 + 9$ | $x^{12} - 6x^{11} + 21x^{10} - 50x^9 + 72x^8 -$ $54x^7 + 33x^6 - 54x^5 + 72x^4 - 50x^3 +$ $21x^2 - 6x + 1$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^2$ | I: 18,4 | $\frac{25}{18}$ |
| $x^{12} + 3x^{11} + 3x^{10} - 6x^9 + 3x^8 +$ $9x^7 + 9x^4 + 9x^3 + 9$ | $x^{12} - 3x^{10} - 8x^9 - 6x^8 + 12x^7 + 47x^6 +$ $78x^5 + 78x^4 + 50x^3 + 21x^2 + 6x + 1$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^2$ | I: 6,1 | $\frac{7}{6}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|---------|-----------------|
| $x^{12} - 12x^{11} + 3x^{10} - 12x^9 + 12x^8 + 6x^6 - 9x^3 + 9x^2 + 9$ | $x^{12} - 6x^{10} - 16x^9 + 12x^8 + 72x^7 + 140x^6 + 144x^5 + 183x^4 + 160x^3 + 78x^2 + 24x + 4$ | $\left[\begin{smallmatrix} 3 & 3 \\ 2 & 2 \end{smallmatrix} \right]_2^4$ | I: 18,4 | $\frac{25}{18}$ |
| $x^{12} + 12x^{11} + 12x^9 + 9x^8 + 3x^6 - 9x^5 + 9x^4 - 9x^3 + 9$ | $x^{12} - 21x^9 + 455x^6 - 1470x^3 + 1372$ | $\left[\begin{smallmatrix} 3 & 3 \\ 2 & 2 \end{smallmatrix} \right]_2^6$ | I: 18,4 | $\frac{25}{18}$ |
| $x^{12} + 6x^{11} + 12x^{10} - 3x^9 + 12x^6 - 9x^5 + 9x^4 - 9x^3 - 9x^2 - 9$ | $x^{12} - 6x^{11} + 15x^{10} - 11x^9 - 27x^8 + 69x^7 - 40x^6 - 45x^5 + 57x^4 + 8x^3 - 24x^2 - 3x + 1$ | $\left[\begin{smallmatrix} 3 \\ 2 \end{smallmatrix} \right]_2^4$ | I: 6,1 | $\frac{7}{6}$ |
| $x^{12} - 9x^{11} + 9x^{10} + 9x^9 - 12x^8 - 9x^5 + 9x^4 + 9x^3 + 9$ | $x^{12} - 6x^{11} + 45x^{10} - 170x^9 + 606x^8 - 1470x^7 + 3011x^6 - 4536x^5 + 5490x^4 - 4828x^3 + 3093x^2 - 1236x + 211$ | $\left[\begin{smallmatrix} 3 \\ 2 \end{smallmatrix} \right]_2^6$ | I: 6,1 | $\frac{7}{6}$ |
| $x^{12} + 6x^{11} + 21x^{10} + 36x^9 + 30x^8 + 36x^7 + 3x^6 + 36x^5 + 27x^4 - 9x^2 + 36$ | $x^{12} - 6x^{11} + 21x^{10} - 50x^9 + 93x^8 - 138x^7 + 164x^6 - 153x^5 + 111x^4 - 61x^3 + 24x^2 - 6x + 1$ | $\left[\begin{smallmatrix} 3 \\ 2 \end{smallmatrix} \right]_2^2$ | I: 6,1 | $\frac{7}{6}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|---------|-----------------|
| $x^{12} + 9x^{11} + 9x^{10} + 12x^8 + 12x^6 + 9x^5 + 9x^4 - 9x^2 - 9$ | $x^{12} - 3x^{11} + 6x^{10} - 15x^9 + 15x^8 - 18x^7 + 24x^6 - 18x^5 + 45x^4 - 45x^3 - 9x^2 + 27x - 9$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^4$ | I: 18,4 | $\frac{25}{18}$ |
| $x^{12} + 9x^{11} - 9x^{10} - 3x^9 - 6x^8 + 9x^7 - 6x^6 + 9x^4 + 9x^3 - 9$ | $x^{12} + 84x^{10} - 196x^9 + 2646x^8 - 12348x^7 + 54446x^6 - 259308x^5 + 925365x^4 - 2600528x^3 + 7674282x^2 - 16492812x + 19131511$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^6$ | I: 18,4 | $\frac{25}{18}$ |
| $x^{12} - 12x^{11} - 3x^{10} - 6x^8 + 3x^6 - 9x^5 - 9x^4 - 9$ | $x^{12} - 24x^8 - 12x^6 + 189x^4 + 324x^2 + 18$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^2$ | I: 18,4 | $\frac{25}{18}$ |
| $x^{12} + 9x^{11} - 6x^{10} + 6x^9 - 3x^8 + 9x^7 + 6x^6 - 9x^5 - 9x^4 - 9x^3 - 9x^2 + 9$ | $x^{12} - 2x^9 + 29x^6 - 28x^3 + 7$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^6$ | I: 6,1 | $\frac{7}{6}$ |
| $x^{12} + 3x^4 + 3$ | $x^{12} - 3x^{10} + 9x^6 + 12x^4 + 9x^2 + 3$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_4^2$ | T: 12,5 | $\frac{5}{4}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|-------------------|
| $x^{12} + 3x^8 + 3x^7 + 3x^6 + 3x^4 + 3$ | $x^{12} - 6x^{11} + 18x^{10} - 30x^9 + 30x^8 - 24x^7 + 30x^6 - 36x^5 + 21x^4 + 9x^2 - 9x + 3$ | $\left[\begin{smallmatrix} 3 \\ 2 \end{smallmatrix} \right]_4^6$ | T: 12,5 | $\frac{5}{4}$ |
| $x^{12} - 3x^{11} - 3x^9 - 3x^8 + 3x^7 - 3x^6 - 3x^4 - 3$ | $x^{12} - 3x^{11} - 27x^{10} + 91x^9 + 237x^8 - 984x^7 - 519x^6 + 4182x^5 - 1527x^4 - 5159x^3 + 2556x^2 + 1950x - 797$ | $\left[\begin{smallmatrix} 3 \\ 2 \end{smallmatrix} \right]_4^6$ | T: 12,5 | $\frac{5}{4}$ |
| $x^{12} - 3x^{11} + 3x^7 - 3x^5 - 3x^4 - 3x^3 - 3$ | $x^{12} - 6x^{11} + 9x^{10} - 5x^9 + 45x^8 - 96x^7 + 36x^6 - 204x^5 + 540x^4 + 40x^3 - 696x^2 + 96x + 256$ | $\left[\begin{smallmatrix} 5 & 5 \\ 4 & 4 \end{smallmatrix} \right]_4^2$ | T: 12,72 | $\frac{151}{108}$ |
| $x^{12} + 3x^{11} + 3x^9 + 3x^8 - 3x^7 - 3x^5 + 3x^4 + 3x^3 + 3$ | $x^{12} - 6x^{11} + 18x^{10} - 35x^9 + 54x^8 - 72x^7 + 84x^6 - 81x^5 + 66x^4 - 44x^3 + 21x^2 - 6x + 1$ | $\left[\begin{smallmatrix} 3 \\ 2 \end{smallmatrix} \right]_4^6$ | T: 12,5 | $\frac{5}{4}$ |
| $x^{12} + 3x^{11} + 3x^{10} + 3x^9 - 3x^7 + 3x^6 + 3x^4 - 3x^3 + 3$ | $x^{12} - 34x^9 + 546x^6 - 1372x^3 + 1372$ | $\left[\begin{smallmatrix} 5 & 5 \\ 4 & 4 \end{smallmatrix} \right]_4^6$ | T: 12,72 | $\frac{151}{108}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{12} + 3x^{10} - 3x^9 - 3x^7 + 3x^6 + 3x^5 + 3x^4 + 3x^3 - 3$ | $x^{12} - 6x^{10} - 2x^9 + 12x^8 + 12x^7 - 12x^5 - 18x^4 + 4x^3 + 12x^2 - 2$ | $\left[\begin{smallmatrix} 3 \\ 2 \end{smallmatrix} \right]_4^2$ | T: 12,5 | $\frac{5}{4}$ |
| $x^{12} + 3x^{11} + 3x^{10} - 3x^9 - 3x^7 - 3x^6 + 3x^5 - 3x^4 - 3x^3 + 3$ | $x^{12} - 6x^{11} + 30x^{10} - 84x^9 + 165x^8 - 207x^7 + 114x^6 - 99x^5 + 342x^4 - 333x^3 + 63x^2 + 54x + 9$ | $\left[\begin{smallmatrix} 5 & 5 \\ 4 & 4 \end{smallmatrix} \right]_4^2$ | T: 12,72 | $\frac{151}{108}$ |
| $x^{12} + 3x^{11} - 3x^{10} - 3x^9 + 3x^8 + 3x^6 - 3x^5 - 3x^4 - 3$ | $x^{12} - 21x^{10} - 22x^9 + 72x^8 + 54x^7 - 255x^6 - 414x^5 - 180x^4 + 32x^3 + 45x^2 + 12x + 1$ | $\left[\begin{smallmatrix} 5 & 5 \\ 4 & 4 \end{smallmatrix} \right]_4^6$ | T: 12,72 | $\frac{151}{108}$ |
| $x^{12} + 3x^{10} - 3x^9 + 3x^7 - 3x^6 + 3x^5 + 3x^4 - 3x^3 - 3$ | $x^{12} + 12x^{10} - 4x^9 + 48x^8 - 36x^7 + 78x^6 - 96x^5 + 12x^4 - 76x^3 - 132x^2 + 48x - 74$ | $\left[\begin{smallmatrix} 5 & 5 \\ 4 & 4 \end{smallmatrix} \right]_4^2$ | T: 12,72 | $\frac{151}{108}$ |
| $x^{12} - 3x^{11} + 3x^{10} + 3x^9 + 3x^8 - 3x^7 + 3x^6 - 3x^4 - 3$ | $x^{12} - 3x^{11} + 18x^{10} - 74x^9 + 111x^8 - 390x^7 - 141x^6 + 276x^5 + 507x^4 + 718x^3 + 288x^2 + 33x + 1$ | $\left[\begin{smallmatrix} 3 \\ 2 \end{smallmatrix} \right]_4^6$ | T: 12,5 | $\frac{5}{4}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{12} - 3x^{11} - 3x^{10} + 3x^9 + 3x^5 - 3x^4 + 3x^3 + 3$ | $x^{12} - 6x^{10} - x^9 + 48x^8 - 6x^7 - 87x^6 + 150x^4 - 145x^3 + 60x^2 - 12x + 1$ | $\left[\begin{matrix} 3 \\ 2 \end{matrix} \right]_4^2$ | T: 12,5 | $\frac{5}{4}$ |
| $x^{12} + 3x^{11} - 3x^{10} + 3x^8 + 3x^7 - 3x^6 - 3x^5 - 3x^4 - 3x^3 - 3$ | $x^{12} - 6x^{11} + 3x^{10} + 24x^9 - 6x^8 - 72x^7 + 57x^6 - 72x^4 + 234x^3 - 225x^2 + 54x + 9$ | $\left[\begin{matrix} 5 & 5 \\ 4 & 4 \end{matrix} \right]_4 \left[\begin{matrix} 3 \\ 2 \end{matrix} \right]_4^6$ | T: 12,72 | $\frac{151}{108}$ |
| $x^{12} + 3x^{11} + 3x^{10} + 3x^8 - 3x^5 + 3x^4 + 3$ | $x^{12} - 20x^9 + 204x^6 + 40x^3 + 4$ | $\left[\begin{matrix} 5 & 5 \\ 4 & 4 \end{matrix} \right]_4^2$ | T: 12,72 | $\frac{151}{108}$ |
| $x^{12} - 3x^{11} - 3x^9 + 3x^7 - 3x^4 - 3$ | $x^{12} + 6x^{10} - 33x^8 - 90x^6 + 177x^4 + 360x^2 - 48$ | $\left[\begin{matrix} 3 \\ 2 \end{matrix} \right]_4^2$ | T: 12,5 | $\frac{5}{4}$ |
| $x^{12} + 3x^{11} + 3x^8 - 3x^7 + 3x^6 + 3x^5 + 3x^4 + 3$ | $x^{12} - 2x^9 + 42x^6 + 364x^3 + 1372$ | $\left[\begin{matrix} 5 & 5 \\ 4 & 4 \end{matrix} \right]_4 \left[\begin{matrix} 3 \\ 2 \end{matrix} \right]_4^6$ | T: 12,72 | $\frac{151}{108}$ |
| $x^{12} + 27x^9 + 162x^8 + 81x^7 - 81x^6 + 81x^5 + 243x^4 + 27x^3 - 81x^2 + 162$ | $x^{12} - 9x^{10} - 30x^9 + 63x^8 + 333x^7 + 765x^6 + 882x^5 + 375x^4 - 319x^3 - 567x^2 - 1086x + 1589$ | $\left[\begin{matrix} 2 & 2 & 2 \\ 2 & 2 & 2 \end{matrix} \right]_1^4$ | I: 81,15 | $\frac{160}{81}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|------------------|
| $x^{12} - 75x^{11} - 63x^{10} + 120x^9 + 72x^8 + 27x^7 + 63x^6 + 108x^5 - 108x^3 - 81x^2 - 81$ | $x^{12} - 36x^{10} - 72x^9 + 306x^8 + 1368x^7 + 1308x^6 - 2952x^5 - 9777x^4 - 21016x^3 - 51192x^2 - 71520x - 35344$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 2 \end{array} \right]_1^8$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{12} + 84x^{11} - 108x^{10} - 99x^9 - 54x^8 - 81x^7 - 27x^6 - 108x^5 + 27x^3 + 81x^2 - 81$ | $x^{12} - 42x^{10} - 189x^9 - 441x^8 + 2646x^7 + 29498x^6 + 111132x^5 + 277830x^4 + 392049x^3 - 410571x^2 - 1231713x + 1106861$ | $\left[\begin{array}{cc} 2 & 2 \\ & 2 \end{array} \right]_1^{12}$ | I: 9,2 | $\frac{16}{9}$ |
| $x^{12} - 114x^{11} + 9x^{10} + 6x^9 - 27x^8 - 27x^7 + 27x^6 - 81x^5 + 81x^3 + 81x^2 - 81$ | $x^{12} - 12x^{10} - 4x^9 + 90x^8 + 12x^7 - 282x^6 - 108x^5 + 555x^4 + 696x^3 - 378x^2 - 756x + 497$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 2 \end{array} \right]_1^{12}$ | I: 27,5 | $\frac{52}{27}$ |
| $x^{12} + 81x^{11} + 198x^{10} - 315x^9 - 126x^8 - 297x^7 + 351x^6 + 81x^5 - 243x^4 - 54x^3 - 243x^2 - 324$ | $x^{12} + 6x^{10} - 16x^9 + 144x^8 - 159x^7 + 501x^6 - 1674x^5 + 5127x^4 - 7386x^3 + 8046x^2 - 3690x + 575$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 2 \end{array} \right]_1^4$ | I: 81,15 | $\frac{160}{81}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|------------------|
| $x^{12} + 120x^{11} - 117x^{10} - 57x^9 + 36x^8 + 54x^7 - 18x^6 + 81x^5 + 81$ | $x^{12} - 72x^8 - 288x^7 - 216x^6 + 1872x^5 + 4254x^4 - 416x^3 - 6048x^2 - 768x + 3008$ | $\begin{bmatrix} 2 & 2 \\ & 2 \end{bmatrix}_1^8$ | I: 9,2 | $\frac{16}{9}$ |
| $x^{12} + 48x^{11} + 81x^{10} - 93x^9 + 90x^8 - 27x^7 + 108x^6 - 54x^5 - 81x^4 - 81$ | $x^{12} + 12x^{10} - 72x^9 + 54x^8 - 648x^7 - 172x^6 - 1944x^5 - 1599x^4 - 1656x^3 - 2520x^2 + 864x + 16$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & & & 2 \end{bmatrix}_1^8$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{12} + 90x^{11} + 315x^{10} - 84x^9 - 225x^8 - 243x^7 - 9x^6 + 54x^5 - 243x^4 - 135x^3 - 162x^2 + 243x - 162$ | $x^{12} - 12x^{10} - 24x^9 - 54x^8 - 120x^7 + 52x^6 + 360x^5 + 513x^4 + 872x^3 + 1656x^2 + 1632x + 496$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & & & 2 \end{bmatrix}_1^8$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{12} + 117x^{11} + 81x^{10} - 39x^9 + 18x^8 - 108x^7 + 63x^6 - 54x^5 - 81x^4 - 54x^3 - 81x^2 - 81$ | $x^{12} + 84x^{10} - 21x^9 + 2646x^8 - 1323x^7 + 42140x^6 - 27783x^5 + 408513x^4 - 229467x^3 + 2247336x^2 - 734706x + 5044501$ | $\begin{bmatrix} 2 & 2 \\ & 2 \end{bmatrix}_1^{12}$ | I: 9,2 | $\frac{16}{9}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|------------------|
| $x^{12} + 66x^{11} - 54x^{10} + 195x^9 +$ $324x^8 - 54x^7 + 63x^6 + 135x^5 -$ $297x^3 - 324x^2 - 243x + 162$ | $x^{12} - 42x^{10} - 77x^9 + 1764x^8 + 4998x^7 -$ $24059x^6 - 114219x^5 + 33957x^4 +$ $1024541x^3 + 2355381x^2 + 2254539x +$ 818741 | $\begin{bmatrix} 2 & 2 & 2 \\ & & & 1 \end{bmatrix}^4$ | I: 27,5 | $\frac{52}{27}$ |
| $x^{12} + 48x^{11} - 9x^{10} - 99x^9 +$ $90x^8 + 27x^7 - 18x^6 + 54x^5 - 81$ | $x^{12} + 12x^{10} - 4x^9 + 54x^8 + 36x^7 -$ $62x^6 - 252x^5 + 363x^4 + 672x^3 +$ $630x^2 + 252x + 49$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & & & & 1 \end{bmatrix}^4$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{12} + 132x^{11} - 135x^{10} +$ $264x^9 - 108x^8 - 81x^7 - 99x^6 +$ $162x^5 + 243x^4 - 135x^3 -$ $162x^2 + 324$ | $x^{12} + 84x^{10} - 105x^9 + 2646x^8 -$ $6615x^7 + 40964x^6 - 138915x^5 +$ $359121x^4 - 1023855x^3 + 1728720x^2 -$ $1080450x + 492205$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & & 1 \end{bmatrix}^4$ | I: 27,5 | $\frac{52}{27}$ |
| $x^{12} + 114x^{11} - 108x^{10} -$ $60x^9 + 117x^8 - 54x^7 - 81x^5 +$ $81x^4 + 54x^3 + 81x^2 + 81$ | $x^{12} - 12x^{10} - 20x^9 + 90x^8 + 276x^7 -$ $174x^6 - 1836x^5 - 2973x^4 + 2040x^3 +$ $13230x^2 + 20412x + 14903$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & & & & 1 \end{bmatrix}^4$ | I: 81,15 | $\frac{160}{81}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|------------------|
| $x^{12} + 72x^{11} - 36x^{10} + 108x^9 - 108x^8 + 54x^7 + 72x^6 - 81x^5 - 81x^4 - 81x^3 + 81x^2 - 81$ | $x^{12} + 3x^{10} - x^9 + 9x^8 + 9x^7 + 28x^6 + 18x^5 + 75x^4 + 26x^3 + 9x^2 + 3x + 1$ | $\begin{bmatrix} 2 & 2 \\ & 2 \end{bmatrix}_1^4$ | I: 3,1 | $\frac{4}{3}$ |
| $x^{12} + 111x^{11} - 36x^{10} + 315x^9 - 324x^8 + 351x^7 - 180x^6 - 54x^5 + 162x^4 - 54x^3 + 243x^2 - 162$ | $x^{12} - 12x^{10} - 12x^9 + 54x^8 + 84x^7 + 142x^6 + 1044x^5 + 2619x^4 + 3400x^3 + 4410x^2 + 5460x + 3073$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & & & 2 \end{bmatrix}_1^4$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{12} + 21x^{11} - 72x^{10} - 117x^9 - 27x^8 - 45x^6 - 81x^5 + 81x^4 - 108x^3 - 81x^2 + 81$ | $x^{12} - 42x^{10} - 49x^9 + 1764x^8 + 5586x^7 - 23177x^6 - 135828x^5 - 30870x^4 + 1105489x^3 + 2938824x^2 + 3126102x + 1250921$ | $\begin{bmatrix} 2 & 2 \\ & 2 \end{bmatrix}_1^4$ | I: 27,5 | $\frac{52}{27}$ |
| $x^{12} + 114x^{11} + 27x^{10} - 33x^9 - 45x^8 - 54x^7 - 72x^6 + 81x^5 - 27x^3 + 81x^2 - 81$ | $x^{12} - 12x^{10} - 12x^9 + 18x^8 + 36x^7 + 130x^6 + 324x^5 + 405x^4 + 432x^3 + 522x^2 + 396x + 119$ | $\begin{bmatrix} 2 & 2 \\ & 2 \end{bmatrix}_1^4$ | I: 27,5 | $\frac{52}{27}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|------------------|
| $x^{12} - 93x^{11} + 9x^{10} - 93x^9 - 27x^8 + 81x^7 + 108x^6 - 81x^5 - 81x^4 - 81$ | $x^{12} + 12x^{10} - 24x^9 + 18x^8 - 72x^7 - 52x^6 + 648x^5 - 1215x^4 + 216x^3 + 1800x^2 - 2016x + 752$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & & & 8 \\ & & & 1 \end{bmatrix}$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{12} + 66x^{11} - 45x^{10} - 120x^9 + 9x^8 + 108x^7 + 18x^6 - 108x^5 - 81x^4 - 54x^3 - 81x^2 - 81$ | $x^{12} - 36x^{10} - 40x^9 + 414x^8 + 792x^7 - 1540x^6 - 4680x^5 - 705x^4 + 6952x^3 + 6984x^2 + 2400x + 272$ | $\begin{bmatrix} 2 & 2 \\ & 8 \\ & & 1 \end{bmatrix}$ | I: 9,2 | $\frac{16}{9}$ |
| $x^{12} + 108x^{11} + 108x^{10} + 24x^9 - 45x^8 - 27x^7 - 108x^6 + 54x^5 - 81x^4 + 81x^3 + 81x^2 - 81$ | $x^{12} + 6x^{10} - 26x^9 + 144x^8 - 291x^7 + 702x^6 - 2133x^5 + 6774x^4 - 13968x^3 + 18090x^2 - 13023x + 4067$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & & & 4 \\ & & & 1 \end{bmatrix}$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{12} + 75x^{11} + 90x^{10} - 63x^9 - 117x^8 - 27x^7 - 99x^6 - 81x^4 + 81x^3 - 81$ | $x^{12} + 84x^{10} - 84x^9 + 2646x^8 - 5292x^7 + 41405x^6 - 111132x^5 + 377643x^4 - 856128x^3 + 1923201x^2 - 1642284x + 1875181$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 4 \\ & & 1 \end{bmatrix}$ | I: 27,5 | $\frac{52}{27}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|------------------|
| $x^{12} + 126x^{11} + 288x^{10} - 96x^9 + 315x^8 - 81x^7 + 135x^6 - 54x^5 - 324x^4 - 108x^3 + 243x^2 + 243x + 324$ | $x^{12} - 12x^{10} + 54x^8 - 24x^7 + 124x^6 - 360x^5 + 783x^4 - 704x^3 + 468x^2 - 192x + 46$ | $\left[\begin{array}{cc} 2 & 2 \\ & 2 \end{array} \right]_1^4$ | I: 9,2 | $\frac{16}{9}$ |
| $x^{12} + 54x^{11} - 144x^{10} + 42x^9 - 9x^8 - 189x^7 + 72x^6 - 108x^5 + 270x^3 + 324x^2 - 243x + 324$ | $x^{12} - 12x^{10} - 8x^9 + 90x^8 + 96x^7 - 312x^6 - 648x^5 + 303x^4 + 1512x^3 + 1512x^2 + 504x + 98$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 2 \end{array} \right]_1^4$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{12} + 60x^{11} - 27x^{10} - 24x^9 + 90x^8 - 108x^7 + 90x^6 + 81x^4 - 81x^2 + 81$ | $x^{12} + 12x^{10} - 44x^9 + 90x^8 - 636x^7 + 1258x^6 - 2844x^5 + 6075x^4 - 4696x^3 + 13482x^2 + 588x + 161$ | $\left[\begin{array}{cc} 2 & 2 \\ & 2 \end{array} \right]_1^{12}$ | I: 27,5 | $\frac{52}{27}$ |
| $x^{12} + 93x^{11} - 36x^{10} + 357x^9 + 270x^8 + 324x^7 + 207x^6 - 216x^5 - 324x^4 - 54x^3 - 81x^2 - 324$ | $x^{12} + 21x^{10} - 35x^9 + 441x^8 + 2205x^7 + 10486x^6 + 30870x^5 + 143031x^4 + 281260x^3 + 540225x^2 + 900375x + 1500625$ | $\left[\begin{array}{c} 2 \\ & 2 \end{array} \right]_1^4$ | I: 3,1 | $\frac{4}{3}$ |
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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|------------------|
| $x^{12} + 60x^{11} - 99x^{10} + 9x^9 - 9x^8 - 81x^7 - 81x^6 - 27x^5 - 81x^4 - 108x^3 + 81x^2 - 81$ | $x^{12} + 12x^{10} - 8x^9 - 54x^8 - 360x^7 - 308x^6 - 72x^5 + 1281x^4 + 1272x^3 - 504x^2 - 864x - 272$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 2 \end{array} \right]_1^8$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{12} + 96x^{11} - 261x^{10} - 114x^9 + 45x^8 + 108x^7 - 216x^6 - 81x^5 + 162x^4 + 297x^3 + 243x^2 - 162$ | $x^{12} + 6x^{10} - 10x^9 + 144x^8 - 132x^7 + 399x^6 - 459x^5 + 4038x^4 - 5106x^3 + 5859x^2 - 2421x + 929$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 2 \end{array} \right]_1^4$ | I: 27,5 | $\frac{52}{27}$ |
| $x^{12} + 36x^{11} - 153x^{10} + 225x^9 - 27x^7 + 162x^5 - 81x^4 + 216x^3 - 324x^2 + 162$ | $x^{12} + 12x^{10} - 16x^9 + 54x^8 - 72x^7 - 44x^6 + 72x^5 + 543x^4 - 1536x^3 + 1764x^2 - 1008x + 238$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 2 \end{array} \right]_1^4$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{12} + 81x^{11} - 72x^{10} + 51x^9 + 117x^8 + 27x^7 + 9x^6 + 54x^5 - 81x^4 + 81x^3 + 81x^2 + 81$ | $x^{12} - 16x^9 - 72x^8 - 288x^7 - 424x^6 - 1008x^5 - 1506x^4 - 1376x^3 - 1440x^2 - 768x - 64$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 2 \end{array} \right]_1^8$ | I: 81,15 | $\frac{160}{81}$ |
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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|------------------|
| $x^{12} + 93x^{11} + 351x^{10} + 3x^9 +$ $126x^8 - 297x^7 + 171x^6 +$ $243x^5 - 324x^4 - 54x^3 +$ $162x^2 - 243x + 324$ | $x^{12} - 3x^{11} - 9x^{10} - 25x^9 + 180x^8 -$ $1113x^7 + 6164x^6 - 10653x^5 +$ $30396x^4 - 21701x^3 + 15279x^2 -$ $4650x + 2693$ | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}_1^4$ | I: 3,1 | $\frac{4}{3}$ |
| $x^{12} + 120x^{11} - 90x^{10} - 60x^9 +$ $117x^8 + 54x^7 - 18x^6 + 108x^5 -$ $81x^4 - 54x^3 + 81$ | $x^{12} - 36x^{10} - 24x^9 + 414x^8 + 504x^7 -$ $1716x^6 - 2520x^5 + 2895x^4 + 5576x^3 +$ $4104x^2 + 5088x - 1264$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \end{bmatrix}_1^8$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{12} + 99x^{11} - 108x^{10} + 9x^9 +$ $72x^8 - 81x^7 + 99x^6 - 54x^5 +$ $81x^3 - 81x^2 - 81$ | $x^{12} - 12x^{10} - 8x^9 + 90x^8 + 96x^7 -$ $216x^6 - 216x^5 - 1137x^4 - 360x^3 +$ $7560x^2 + 4536x + 10178$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \end{bmatrix}_1^4$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{12} + 105x^{11} - 513x^{10} -$ $834x^9 - 117x^8 - 459x^7 -$ $1008x^6 - 81x^5 - 270x^3 +$ $648x^2 - 486x + 810$ | $x^{12} + 30x^{10} - 40x^9 + 468x^8 - 1335x^7 +$ $4738x^6 - 14841x^5 + 27090x^4 -$ $67130x^3 + 51498x^2 + 65265x + 29981$ | $\begin{bmatrix} 2 & 2 \end{bmatrix}_1^4$ | I: 9,2 | $\frac{16}{9}$ |
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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|------------------|
| $x^{12} + 48x^{11} + 108x^{10} + 111x^9 - 72x^8 - 54x^7 + 72x^6 + 108x^5 + 81x^4 + 54x^3 - 81x^2 - 81$ | $x^{12} - 12x^{10} - 40x^9 - 18x^8 - 24x^7 + 156x^6 + 1512x^5 + 2625x^4 + 6840x^3 + 16632x^2 + 13536x - 1264$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & & & 1 \end{bmatrix}^8$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{12} + 96x^{11} - 864x^{10} - 45x^9 - 189x^8 - 891x^7 - 252x^6 + 297x^5 + 891x^4 - 162x^3 - 486x^2 + 729x + 567$ | $x^{12} - 48x^{10} + 828x^8 - 6440x^6 + 22932x^4 - 35280x^2 + 19208$ | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^4$ | I: 9,2 | $\frac{16}{9}$ |
| $x^{12} + 33x^{11} + 126x^{10} - 204x^9 - 180x^8 - 216x^7 + 189x^6 + 27x^5 + 243x^4 + 297x^3 - 162x^2 + 243x + 324$ | $x^{12} - 12x^{10} - 12x^9 + 54x^8 - 12x^7 + 118x^6 + 252x^5 + 675x^4 + 2456x^3 + 3654x^2 + 3108x + 1351$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^{12}$ | I: 27,5 | $\frac{52}{27}$ |
| $x^{12} + 81x^{11} - 108x^9 + 45x^8 - 81x^7 + 90x^6 - 81$ | $x^{12} - 12x^{10} + 18x^8 + 124x^6 + 81x^4 + 144x^2 + 32$ | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^4$ | I: 9,2 | $\frac{16}{9}$ |
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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|------------------|
| $x^{12} - 111x^{11} - 81x^{10} - 3x^9 + 108x^8 - 108x^7 - 72x^6 + 108x^5 + 81x^3 + 81x^2 + 81$ | $x^{12} - 48x^{10} - 4x^9 + 648x^8 + 252x^7 - 3590x^6 - 2244x^5 + 8661x^4 + 7088x^3 - 7038x^2 - 7548x - 1457$ | $\begin{bmatrix} 12 \\ 2 \\ 2 \end{bmatrix}_1$ | I: 3,1 | $\frac{4}{3}$ |
| $x^{12} + 87x^{11} + 81x^{10} - 36x^9 - 90x^8 - 81x^7 - 99x^6 + 27x^5 + 108x^3 - 81x^2 + 81$ | $x^{12} - 48x^{10} - 32x^9 + 792x^8 + 984x^7 - 4928x^6 - 8616x^5 + 7341x^4 + 18056x^3 + 3216x^2 - 3192x - 706$ | $\begin{bmatrix} 4 \\ 2 \\ 2 \end{bmatrix}_1$ | I: 9,2 | $\frac{16}{9}$ |
| $x^{12} + 33x^{11} + 111x^9 - 135x^8 + 216x^7 + 72x^6 + 297x^5 - 81x^4 + 54x^3 + 162x^2 - 243x + 162$ | $x^{12} + 21x^{10} - 28x^9 + 441x^8 + 1764x^7 + 10045x^6 + 24696x^5 + 161553x^4 + 237356x^3 + 345744x^2 + 460992x + 614656$ | $\begin{bmatrix} 4 \\ 2 \end{bmatrix}_1$ | I: 3,1 | $\frac{4}{3}$ |
| $x^{12} - 111x^{11} + 81x^{10} + 9x^9 - 18x^8 - 108x^7 - 108x^5 - 81x^4 + 27x^3 + 81x^2 - 81$ | $x^{12} - 12x^{10} - 4x^9 + 90x^8 + 84x^7 - 270x^6 - 540x^5 - 93x^4 + 600x^3 + 1134x^2 + 1260x + 791$ | $\begin{bmatrix} 4 \\ 2 \\ 2 \\ 2 \\ 2 \end{bmatrix}_1$ | I: 81,15 | $\frac{160}{81}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|------------------|
| $x^{12} - 120x^{11} - 45x^{10} + 108x^9 - 18x^8 - 27x^7 + 9x^6 - 81x^5 - 81x^4 - 27x^3 + 81$ | $x^{12} - 12x^{10} + 54x^8 - 96x^7 + 268x^6 - 792x^5 + 1215x^4 - 392x^3 + 252x^2 - 336x + 2254$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & & & 1 \end{bmatrix}^4$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{12} + 60x^{11} + 54x^{10} + 57x^9 + 63x^8 + 54x^7 + 9x^6 - 27x^5 - 81x^4 - 54x^3 + 81x^2 + 81$ | $x^{12} - 9x^{10} - 3x^9 + 63x^8 - 306x^7 + 681x^6 - 1008x^5 + 1536x^4 - 364x^3 + 378x^2 + 1911x + 1283$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & & & 1 \end{bmatrix}^4$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{12} + 114x^{11} + 45x^{10} + 276x^9 + 216x^8 - 27x^7 + 171x^6 - 135x^5 - 162x^4 + 351x^3 + 81x^2 - 324$ | $x^{12} - 12x^{10} - 28x^9 + 90x^8 + 372x^7 + 102x^6 - 2052x^5 - 3765x^4 + 2184x^3 + 17766x^2 + 24948x + 12593$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & & 1 \end{bmatrix}^{12}$ | I: 27,5 | $\frac{52}{27}$ |
| $x^{12} + 102x^{11} + 207x^{10} + 192x^9 + 108x^8 - 216x^7 - 306x^6 - 189x^5 + 162x^4 - 27x^3 - 324x^2 - 324$ | $x^{12} + 12x^{10} - 12x^9 + 54x^8 - 108x^7 + 230x^6 - 324x^5 + 813x^4 - 696x^3 + 1098x^2 - 1116x + 1057$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & & 1 \end{bmatrix}^4$ | I: 27,5 | $\frac{52}{27}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} + 30x^{11} - 243x^{10} + 345x^9 - 126x^8 + 135x^7 - 261x^6 - 54x^5 + 81x^4 - 243x^3 - 81x^2 + 243x + 324$ | $x^{12} - 9x^{10} - 33x^9 + 63x^8 + 27x^7 + 651x^6 - 126x^5 + 1149x^4 - 446x^3 + 1890x^2 + 357x + 1277$ | $\left[\begin{array}{cc} 2 & 2 \\ 2 & 2 \end{array} \right]_1^4$ | I: 27,5 | $\frac{52}{27}$ |
| $x^{12} + 3x^5 + 3$ | $x^{12} - 12x^{10} - 40x^9 + 36x^8 + 288x^7 + 336x^6 - 144x^5 - 630x^4 - 880x^3 - 432x^2 + 192x + 160$ | $\left[\begin{array}{c} 13 \\ 8 \end{array} \right]_8^2$ | T: 12,46 | $\frac{37}{24}$ |
| $x^{12} + 3x^{11} + 3x^9 - 3x^7 + 3x^6 - 3x^5 - 3x^3 - 3$ | $x^{12} - 5x^9 + 9x^8 - 9x^7 + 9x^6 + 9x^5 - 36x^4 + 55x^3 - 54x^2 + 27x - 5$ | $\left[\begin{array}{c} 13 \\ 8 \end{array} \right]_8^2$ | T: 12,46 | $\frac{37}{24}$ |
| $x^{12} + 3x^{10} - 3x^9 + 3x^8 + 3x^7 - 3x^6 + 3x^5 - 3x^3 - 3$ | $x^{12} - 6x^{11} + 24x^{10} - 54x^9 + 69x^8 - 12x^7 - 84x^6 + 132x^5 - 108x^4 - 24x^3 + 72x^2 - 12$ | $\left[\begin{array}{cc} 9 & 9 \\ 8 & 8 \end{array} \right]_8^2$ | T: 12,173 | $\frac{1015}{648}$ |
| $x^{12} - 3x^{11} - 3x^{10} + 3x^8 + 3x^7 + 3x^6 - 3x^5 - 3x^3 - 3$ | $x^{12} - 6x^{10} - 16x^9 + 36x^7 + 72x^6 + 36x^5 - 18x^4 - 136x^3 - 144x^2 + 96x + 88$ | $\left[\begin{array}{cc} 9 & 9 \\ 8 & 8 \end{array} \right]_8^2$ | T: 12,173 | $\frac{1015}{648}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} - 3x^{10} + 3x^9 + 3x^7 - 3x^6 - 3x^5 - 3x^3 + 3$ | $x^{12} + 24x^{10} - 37x^9 + 216x^8 - 666x^7 + 771x^6 - 3996x^5 + 180x^4 - 6511x^3 - 3348x^2 + 8886x + 1024$ | $\begin{bmatrix} 9 & 9 & 13 \\ 8 & 8 & 8 \end{bmatrix}_8^2$ | T: 12,173 | $\frac{1015}{648}$ |
| $x^{12} - 3x^{11} + 3x^9 + 3x^8 - 3x^7 - 3x^5 - 3x^3 + 3$ | $x^{12} - 6x^{11} + 24x^{10} - 17x^9 - 126x^8 + 204x^7 - 72x^6 - 120x^5 + 960x^4 - 1064x^3 - 720x^2 + 1536x - 512$ | $\begin{bmatrix} 9 & 9 & 13 \\ 8 & 8 & 8 \end{bmatrix}_8^2$ | T: 12,173 | $\frac{1015}{648}$ |
| $x^{12} + 3x^{10} - 9x^8 + 3x^6 + 9x^4 - 9$ | $x^{12} - 168x^{10} + 8820x^8 - 159600x^6 + 1088388x^4 - 2963520x^2 + 2765952$ | $\begin{bmatrix} 2 & 2 \\ 2 & 2 \end{bmatrix}_2^2$ | I: 18,5 | $\frac{11}{6}$ |
| $x^{12} + 6x^{10} - 3x^9 - 9x^8 + 9x^7 + 6x^6 + 9x^5 - 9x^4 - 9x^3 - 9$ | $x^{12} - 14x^9 + 56x^6 - 64x^3 + 16$ | $\begin{bmatrix} 3 & 3 & 2 \\ 2 & 2 & 2 \end{bmatrix}_2^4$ | I: 162,52 | $\frac{313}{162}$ |
| $x^{12} - 9x^{11} + 6x^{10} - 12x^9 + 9x^8 - 9x^7 - 9x^4 + 9x^3 + 9$ | $x^{12} + 6x^{10} - 10x^9 - 9x^8 - 30x^7 - 43x^6 + 90x^5 + 39x^4 + 70x^3 - 414x^2 + 360x - 11$ | $\begin{bmatrix} 3 & 3 & 2 \\ 2 & 2 & 2 \end{bmatrix}_2^4$ | I: 162,52 | $\frac{313}{162}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{12} + 12x^{11} - 18x^{10} + 24x^9 - 27x^8 - 36x^7 - 30x^6 + 9x^5 - 27x^4 - 9x^3 - 27x^2 + 27x + 9$ | $x^{12} + 77x^6 - 294x^3 + 1372$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{3}{2} \\ 2 \\ 2 \end{array} \right]_2^2$ | I: 162,52 | $\frac{313}{162}$ |
| $x^{12} + 12x^{11} - 12x^{10} - 6x^9 - 9x^7 + 6x^6 + 9x^5 + 9x^4 + 9x^3 - 9$ | $x^{12} - 48x^{10} - 24x^9 + 828x^8 + 912x^7 - 2992x^6 - 11088x^5 - 34860x^4 - 8064x^3 + 219744x^2 + 398496x + 392056$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{3}{2} \\ 2 \\ 2 \end{array} \right]_2^2$ | I: 162,52 | $\frac{313}{162}$ |
| $x^{12} + 12x^{11} + 3x^{10} - 12x^9 + 9x^8 + 9x^7 - 12x^6 + 9x^5 + 9x^3 - 9$ | $x^{12} + 12x^{10} - 4x^9 + 18x^8 - 12x^7 - 46x^6 + 108x^5 - 99x^4 - 56x^3 + 162x^2 - 84x + 31$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{3}{2} \\ 2 \\ 2 \end{array} \right]_2^2$ | I: 54,13 | $\frac{97}{54}$ |
| $x^{12} - 3x^{11} - 6x^{10} - 3x^9 - 9x^8 - 12x^6 + 9x^5 + 9x^4 - 9x^3 - 9$ | $x^{12} - 12x^9 + 26x^6 + 12x^3 + 1$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \right]_2^4$ | I: 18,5 | $\frac{11}{6}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|-------------------|
| $x^{12} - 3x^{11} - 6x^{10} - 6x^9 - 9x^8 + 9x^7 - 3x^6 + 9x^5 + 9x^4 - 9x^3 - 9$ | $x^{12} - 39x^{10} - 26x^9 + 531x^8 + 708x^7 - 2653x^6 - 5778x^5 + 1089x^4 + 12320x^3 + 13176x^2 + 5856x + 976$ | $\begin{bmatrix} \frac{3}{2} & \frac{3}{2} & 2 & 2 \\ \frac{3}{2} & 2 & 2 & 2 \end{bmatrix}_2^4$ | I: 162, 52 | $\frac{313}{162}$ |
| $x^{12} + 33x^{11} + 9x^{10} + 12x^9 + 9x^8 + 18x^7 + 6x^6 - 36x^5 + 9x^3 - 27x^2 - 27x - 18$ | $x^{12} - 6x^9 + 14x^6 - 12x^3 + 4$ | $\begin{bmatrix} \frac{3}{2} & 2 & 2 \\ \frac{3}{2} & 2 & 2 \end{bmatrix}_2^2$ | I: 54, 12 | $\frac{103}{54}$ |
| $x^{12} + 3x^{10} + 9x^9 + 9x^8 - 9x^7 + 3x^6 - 9x^4 - 9x^3 - 9$ | $x^{12} - 8x^9 + 64x^3 - 8$ | $\begin{bmatrix} \frac{3}{2} & 2 & 2 \\ \frac{3}{2} & 2 & 2 \end{bmatrix}_2^4$ | I: 54, 12 | $\frac{103}{54}$ |
| $x^{12} - 3x^{10} - 6x^9 + 9x^8 - 6x^6 - 9x^5 + 9x^4 - 9$ | $x^{12} - 8x^9 - 16x^6 + 8x^3 + 16$ | $\begin{bmatrix} \frac{3}{2} & \frac{3}{2} & 2 & 2 \\ \frac{3}{2} & 2 & 2 & 2 \end{bmatrix}_2^4$ | I: 162, 52 | $\frac{313}{162}$ |
| $x^{12} + 18x^{11} + 33x^{10} - 3x^9 - 36x^8 - 27x^7 + 21x^6 - 27x^5 - 18x^4 + 9x^3 - 27x + 36$ | $x^{12} + 6x^{10} - 9x^8 - 30x^7 - 73x^6 - 90x^5 + 69x^4 + 300x^3 + 261x^2 + 60x - 11$ | $\begin{bmatrix} \frac{3}{2} & \frac{3}{2} & 2 & 2 \\ \frac{3}{2} & 2 & 2 & 2 \end{bmatrix}_2^4$ | I: 162, 52 | $\frac{313}{162}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|------------|-------------------|
| $x^{12} - 6x^{10} - 3x^9 - 9x^8 + 9x^7 - 12x^6 - 9x^4 - 9$ | $x^{12} + 24x^{10} - 16x^9 + 216x^8 - 288x^7 + 980x^6 - 1728x^5 + 2688x^4 - 4112x^3 + 4176x^2 - 3936x + 3856$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{3}{2} \\ 2 \\ 2 \end{array} \right]_2^2$ | I: 162, 52 | $\frac{313}{162}$ |
| $x^{12} - 27x^{11} + 21x^{10} + 39x^9 - 27x^8 + 36x^7 - 3x^6 + 36x^5 - 9x^4 - 9x^3 + 27x^2 + 27x + 18$ | $x^{12} + 48x^{10} - 112x^9 + 828x^8 - 4368x^7 + 10808x^6 - 54432x^5 + 149940x^4 - 297920x^3 + 952560x^2 - 1053696x + 1182664$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{3}{2} \\ 2 \\ 2 \end{array} \right]_2^2$ | I: 162, 52 | $\frac{313}{162}$ |
| $x^{12} - 6x^{11} + 3x^{10} + 6x^9 - 3x^6 - 9$ | $x^{12} - 84x^{10} - 112x^9 + 4158x^8 + 6048x^7 - 96376x^6 - 296352x^5 + 1451625x^4 + 6224176x^3 - 509796x^2 - 23110752x + 16370116$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{3}{2} \\ 2 \end{array} \right]_2^2$ | I: 54, 13 | $\frac{97}{54}$ |
| $x^{12} - 3x^{11} - 12x^{10} + 3x^9 - 9x^8 - 9x^7 + 12x^6 + 9x^5 + 9x^4 - 9x^3 + 9$ | $x^{12} - 6x^{10} - 10x^9 - 9x^8 + 63x^6 + 180x^5 + 279x^4 + 350x^3 + 234x^2 - 30x - 71$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{3}{2} \\ 2 \\ 2 \end{array} \right]_2^4$ | I: 162, 52 | $\frac{313}{162}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{12} - 39x^{11} - 9x^{10} + 21x^9 + 36x^8 - 18x^7 + 36x^6 + 27x^5 + 18x^4 + 18x^3 + 27x^2 + 27x - 18$ | $x^{12} - 42x^9 + 497x^6 - 1176x^3 + 1372$ | $\begin{bmatrix} 3 & 3 \\ 2 & 2 \end{bmatrix}_2^2$ | I: 54,13 | $\frac{97}{54}$ |
| $x^{12} + 30x^{11} + 12x^{10} + 12x^9 - 9x^8 - 18x^7 + 21x^6 - 9x^5 + 18x^4 - 9x^3 - 27x - 18$ | $x^{12} - 12x^{10} - 2x^9 + 54x^8 + 18x^7 - 139x^6 - 54x^5 + 267x^4 + 86x^3 - 279x^2 - 96x + 181$ | $\begin{bmatrix} 3 & 3 \\ 2 & 2 \end{bmatrix}_2^4$ | I: 162,52 | $\frac{313}{162}$ |
| $x^{12} - 39x^{11} - 21x^{10} + 21x^9 - 36x^8 - 9x^7 + 33x^6 - 36x^5 - 9x^4 + 36x^3 - 27x^2 + 36$ | $x^{12} - 6x^{10} - 24x^9 + 27x^8 + 108x^7 + 146x^6 - 324x^5 - 519x^4 - 348x^3 + 1044x^2 + 1008x + 784$ | $\begin{bmatrix} 2 & 2 \\ 2 & 2 \end{bmatrix}_2^4$ | I: 18,5 | $\frac{11}{6}$ |
| $x^{12} - 9x^{11} - 6x^{10} + 12x^9 + 12x^6 - 9x^4 + 9x^3 - 9$ | $x^{12} - 16x^9 + 56x^6 - 56x^3 + 16$ | $\begin{bmatrix} 3 & 3 \\ 2 & 2 \end{bmatrix}_2^4$ | I: 162,52 | $\frac{313}{162}$ |
| $x^{12} - 27x^{11} - 9x^{10} - 30x^9 + 36x^8 - 18x^7 + 30x^6 - 27x^5 - 18x^3 + 27x^2 + 36$ | $x^{12} - 42x^9 + 812x^6 - 7056x^3 + 21952$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2^2$ | I: 54,12 | $\frac{103}{54}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{12} + 9x^{11} - 6x^9 - 9x^8 - 9x^7 - 3x^6 - 9x^4 - 9x^3 - 9$ | $x^{12} - 4x^9 - 34x^6 - 20x^3 + 1$ | $\left[\begin{array}{c} \frac{3}{2} \\ 2 \end{array} \right] \left[\begin{array}{cc} 2 & 2 \\ 2 & 2 \end{array} \right]_2^4$ | I: 54,12 | $\frac{103}{54}$ |
| $x^{12} - 12x^{11} - 9x^{10} - 6x^9 - 9x^7 - 9x^4 - 9x^3 + 9$ | $x^{12} - 35x^9 + 273x^6 + 1078x^3 + 1372$ | $\left[\begin{array}{c} \frac{3}{2} \\ 2 \end{array} \right] \left[\begin{array}{cc} \frac{3}{2} & 2 \\ 2 & 2 \end{array} \right]_2^2$ | I: 54,13 | $\frac{97}{54}$ |
| $x^{12} + 12x^{11} + 12x^{10} - 12x^9 + 9x^8 + 9x^7 - 9x^6 + 9x^4 - 9x^3 + 9$ | $x^{12} - 12x^{10} - 8x^9 + 54x^8 + 72x^7 - 139x^6 - 216x^5 + 267x^4 + 254x^3 - 279x^2 - 114x + 121$ | $\left[\begin{array}{c} \frac{3}{2} \\ 2 \end{array} \right] \left[\begin{array}{cc} \frac{3}{2} & 2 \\ 2 & 2 \end{array} \right]_2^4$ | I: 162,52 | $\frac{313}{162}$ |
| $x^{12} + 12x^{11} - 12x^{10} + 6x^9 - 9x^8 + 9x^7 + 9x^6 - 9x^5 - 9x^4 + 9x^3 + 9$ | $x^{12} - 6x^{10} - 10x^9 - 9x^8 + 60x^7 + 53x^6 - 171x^4 - 80x^3 - 81x^2 + 510x - 251$ | $\left[\begin{array}{c} \frac{3}{2} \\ 2 \end{array} \right] \left[\begin{array}{cc} \frac{3}{2} & 2 \\ 2 & 2 \end{array} \right]_2^4$ | I: 162,52 | $\frac{313}{162}$ |
| $x^{12} - 9x^{11} + 12x^{10} - 9x^9 + 9x^8 - 9x^7 + 12x^6 + 9x^5 + 9x^4 + 9x^3 - 9$ | $x^{12} - 36x^{10} - 28x^9 + 1206x^8 - 924x^7 - 9730x^6 + 5796x^5 + 70707x^4 + 52024x^3 + 5418x^2 + 133476x + 362257$ | $\left[\begin{array}{c} \frac{3}{2} \\ 2 \end{array} \right] \left[\begin{array}{cc} \frac{3}{2} & 2 \\ 2 & 2 \end{array} \right]_2^2$ | I: 162,52 | $\frac{313}{162}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{12} + 12x^{11} - 24x^{10} + 12x^9 - 18x^8 - 18x^7 - 21x^6 + 36x^5 + 36x^3 - 27x^2 - 36$ | $x^{12} + 84x^{10} - 28x^9 + 2646x^8 - 1764x^7 + 47642x^6 - 37044x^5 + 639597x^4 - 490784x^3 + 4673718x^2 - 4860996x + 25009159$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2$ | I: 54,13 | $\frac{97}{54}$ |
| $x^{12} - 9x^{10} - 12x^9 - 9x^6 - 9x^5 + 9x^4 - 9x^3 + 9$ | $x^{12} - 42x^9 + 644x^6 - 4704x^3 + 21952$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^6$ | I: 18,3 | $\frac{31}{18}$ |
| $x^{12} + 24x^{11} - 39x^{10} - 3x^9 - 36x^8 + 27x^7 + 12x^6 - 18x^5 + 18x^4 + 18x^3 - 27x - 36$ | $x^{12} + 12x^{10} - 2x^9 - 36x^8 + 72x^7 - 438x^6 + 576x^5 + 1080x^4 - 2972x^3 + 3096x^2 - 1464x + 316$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \left[\begin{array}{c} 2 \\ 2 \end{array} \right]_2$ | I: 162,52 | $\frac{313}{162}$ |
| $x^{12} + 21x^{11} + 9x^{10} - 12x^9 - 27x^7 - 30x^6 + 9x^5 + 18x^3 - 27x^2 + 27x + 9$ | $x^{12} - 21x^9 + 203x^6 - 882x^3 + 1372$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \left[\begin{array}{c} 2 \\ 2 \end{array} \right]_2$ | I: 162,52 | $\frac{313}{162}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{12} + 15x^{10} + 36x^9 + 36x^8 -$ $18x^7 + 12x^6 + 27x^5 + 9x^4 -$ $27x^3 - 27x - 18$ | $x^{12} - 2x^9 + 2x^6 - 4x^3 + 4$ | $\left[\begin{array}{c} \frac{3}{2} \quad 2 \\ 2 \end{array} \right]_2^2$ | I: 18,3 | $\frac{31}{18}$ |
| $x^{12} - 12x^{11} - 3x^{10} + 9x^9 +$ $9x^8 + 6x^6 + 9x^3 - 9$ | $x^{12} - 36x^{10} - 4x^9 + 1206x^8 + 3180x^7 -$ $7570x^6 - 33516x^5 + 49035x^4 +$ $334936x^3 + 359982x^2 - 104916x +$ 126679 | $\left[\begin{array}{c} \frac{3}{2} \quad \frac{3}{2} \quad 2 \\ 2 \end{array} \right]_2^6$ | I: 54,13 | $\frac{97}{54}$ |
| $x^{12} - 6x^{11} + 6x^{10} + 9x^9 + 9x^7 -$ $3x^6 + 9x^5 + 9x^4 - 9x^3 - 9$ | $x^{12} - 48x^{10} - 96x^9 + 828x^8 + 2976x^7 -$ $3520x^6 - 28224x^5 - 17724x^4 +$ $100800x^3 + 116928x^2 - 21504x +$ 386176 | $\left[\begin{array}{c} \frac{3}{2} \quad \frac{3}{2} \quad 2 \quad 2 \\ 2 \end{array} \right]_2^2$ | I: 162,52 | $\frac{313}{162}$ |
| $x^{12} + 12x^{11} + 3x^{10} + 9x^8 +$ $9x^7 - 9x^5 + 9x^4 - 9x^3 + 9$ | $x^{12} + 12x^{10} - 4x^9 + 54x^8 - 36x^7 +$ $59x^6 - 108x^5 - 213x^4 + 148x^3 -$ $441x^2 + 768x - 179$ | $\left[\begin{array}{c} \frac{3}{2} \quad \frac{3}{2} \quad 2 \quad 2 \\ 2 \end{array} \right]_2^4$ | I: 162,52 | $\frac{313}{162}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{12} - 39x^{11} - 12x^9 + 27x^8 - 27x^7 + 18x^6 - 9x^5 - 36x^4 - 27x^3 - 27x^2 + 27x + 36$ | $x^{12} - x^9 + 2x^6 + x^3 + 1$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2^2$ | I: 18,3 | $\frac{31}{18}$ |
| $x^{12} + 27x^{11} + 36x^{10} - 12x^9 + 9x^8 + 9x^6 + 36x^5 + 18x^4 - 36x^3 + 27x - 18$ | $x^{12} - 8x^9 + 23x^6 + 14x^3 + 7$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2^2$ | I: 18,3 | $\frac{31}{18}$ |
| $x^{12} + 30x^{11} - 6x^{10} - 12x^9 + 36x^8 + 9x^7 + 18x^6 + 27x^5 + 9x^3 + 36$ | $x^{12} - 7x^9 - 21x^6 + 392x^3 + 1372$ | $\begin{bmatrix} 3 & 3 & 2 \\ 2 & 2 & 2 \end{bmatrix}_2^2$ | I: 162,52 | $\frac{313}{162}$ |
| $x^{12} - 3x^{11} + 6x^{10} - 12x^9 + 9x^8 - 3x^6 - 9x^3 - 9$ | $x^{12} - 48x^{10} - 72x^9 + 828x^8 + 2064x^7 - 5200x^6 - 17136x^5 + 21588x^4 + 110208x^3 - 82656x^2 - 379680x + 572152$ | $\begin{bmatrix} 3 & 3 & 2 \\ 2 & 2 & 2 \end{bmatrix}_2^6$ | I: 54,13 | $\frac{97}{54}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{12} + 33x^{11} + 3x^{10} - 9x^9 + 36x^8 + 15x^6 + 36x^5 - 27x^2 + 27x - 36$ | $x^{12} + 84x^{10} - 224x^9 + 2646x^8 - 14112x^7 + 57848x^6 - 296352x^5 + 1068249x^4 - 2959600x^3 + 9174564x^2 - 18587856x + 14226268$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 3 \\ 2 \end{array} \right]_2^2$ | I: 54,13 | $\frac{97}{54}$ |
| $x^{12} + 3x^{11} - 6x^{10} + 12x^9 - 9x^8 - 9x^7 + 3x^6 - 9x^5 + 9x^4 - 9$ | $x^{12} + 36x^{10} - 16x^9 + 450x^8 - 288x^7 + 3900x^6 - 1008x^5 + 18081x^4 + 15680x^3 + 32256x^2 + 68544x + 52192$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 2 \\ 2 \end{array} \right]_2^2$ | I: 162,52 | $\frac{313}{162}$ |
| $x^{12} - 12x^{11} - 12x^{10} + 3x^9 + 9x^8 - 9x^7 + 9x^6 + 9x^5 + 9x^3 + 9$ | $x^{12} - x^9 + 2x^6 + 7x^3 + 7$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 2 \\ 2 \end{array} \right]_2^2$ | I: 54,12 | $\frac{103}{54}$ |
| $x^{12} + 12x^{11} - 3x^{10} - 33x^9 + 27x^8 - 18x^7 - 30x^6 + 36x^5 + 18x^4 - 18x^3 + 9$ | $x^{12} + 8x^6 + 4$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 2 \\ 2 \end{array} \right]_2^2$ | I: 18,3 | $\frac{31}{18}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-----------------|
| $x^{12} + 24x^{11} + 30x^{10} + 33x^9 - 18x^8 + 36x^7 - 33x^6 + 9x^5 + 27x^4 + 27x^3 - 27x^2 - 27x - 36$ | $x^{12} + 24x^{10} - 20x^9 + 216x^8 - 360x^7 + 1064x^6 - 2160x^5 + 3696x^4 - 5200x^3 + 7200x^2 - 5280x + 2320$ | $\begin{bmatrix} 3 & 3 \\ 2 & 2 \end{bmatrix}_2^2$ | I: 54,13 | $\frac{97}{54}$ |
| $x^{12} - 9x^{11} + 9x^{10} + 12x^9 - 9x^8 - 9x^7 - 9x^6 - 9x^5 + 9x^4 + 9x^3 + 9$ | $x^{12} - 21x^9 + 161x^6 - 588x^3 + 1372$ | $\begin{bmatrix} 3 & 3 \\ 2 & 2 \end{bmatrix}_2^6$ | I: 54,13 | $\frac{97}{54}$ |
| $x^{12} + 9x^{11} - 9x^{10} + 9x^9 - 9x^8 + 9x^7 - 9x^6 - 9x^5 - 9x^4 + 9x^3 + 9$ | $x^{12} - 4x^9 + 14x^6 - 8x^3 + 4$ | $\begin{bmatrix} 3 & 3 \\ 2 & 2 \end{bmatrix}_2^2$ | I: 54,13 | $\frac{97}{54}$ |
| $x^{12} - 12x^{10} + 6x^9 - 9x^8 + 9x^7 - 12x^6 - 9x^5 + 9x^4 - 9x^3 - 9$ | $x^{12} - 168x^{10} + 8820x^8 - 179256x^6 + 1575252x^4 - 6075216x^2 + 8470728$ | $\begin{bmatrix} 2 & 2 \end{bmatrix}_2^2$ | I: 18,5 | $\frac{11}{6}$ |
| $x^{12} - 30x^{11} - 33x^{10} - 3x^9 + 9x^8 - 36x^7 + 30x^6 + 27x^4 + 9x^3 + 27x^2 - 27x + 18$ | $x^{12} + 48x^{10} - 32x^9 + 828x^8 - 1104x^7 + 9272x^6 - 12096x^5 + 115668x^4 - 105280x^3 + 783216x^2 - 1006656x + 505288$ | $\begin{bmatrix} 3 & 3 \\ 2 & 2 \end{bmatrix}_2^6$ | I: 54,13 | $\frac{97}{54}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{12} + 27x^{11} - 36x^{10} - 9x^9 - 36x^8 - 36x^7 - 15x^6 + 27x^2 - 18$ | $x^{12} - 14x^9 - 84x^6 + 3136x^3 + 21952$ | $\begin{bmatrix} \frac{3}{2} & 2 & 2 \\ & 2 & 2 \end{bmatrix}_2^2$ | I: 54,12 | $\frac{103}{54}$ |
| $x^{12} + 3x^{11} - 6x^{10} - 3x^9 + 9x^7 + 3x^6 - 9x^5 - 9x^4 - 9$ | $x^{12} - 2x^9 - 36x^6 - 8x^3 + 16$ | $\begin{bmatrix} \frac{3}{2} & 2 & 2 \\ & 2 & 2 \end{bmatrix}_2^4$ | I: 54,12 | $\frac{103}{54}$ |
| $x^{12} + 33x^{11} - 15x^{10} - 36x^9 - 27x^8 + 39x^6 + 9x^5 - 9x^4 - 27x^3 - 27x^2 + 36$ | $x^{12} + 12x^{10} - 16x^9 + 54x^8 - 144x^7 + 59x^6 - 432x^5 - 213x^4 - 428x^3 - 441x^2 + 12x + 61$ | $\begin{bmatrix} \frac{3}{2} & \frac{3}{2} & 2 \\ & 2 & 2 \end{bmatrix}_2^4$ | I: 162,52 | $\frac{313}{162}$ |
| $x^{12} + 27x^{11} + 15x^{10} + 36x^9 - 36x^8 - 18x^7 + 21x^6 - 18x^4 + 27x^2 - 27x + 36$ | $x^{12} - 14x^9 + 224x^6 - 490x^3 + 343$ | $\begin{bmatrix} 2 \\ & 2 \end{bmatrix}_2^2$ | I: 6,2 | $\frac{3}{2}$ |
| $x^{12} + 3x^{11} + 12x^{10} - 12x^9 - 9x^8 - 12x^6 + 9x^5 - 9x^4 + 9x^3 - 9$ | $x^{12} + 12x^{10} - 2x^9 - 36x^8 - 108x^7 - 378x^6 - 504x^5 + 720x^4 + 2908x^3 + 4176x^2 + 3216x + 1276$ | $\begin{bmatrix} \frac{3}{2} & \frac{3}{2} & 2 \\ & 2 & 2 \end{bmatrix}_2^2$ | I: 162,52 | $\frac{313}{162}$ |
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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{12} - 12x^{11} + 6x^{10} + 12x^9 - 9x^8 + 3x^6 + 9x^5 - 9x^4 - 9x^3 - 9$ | $x^{12} + 36x^{10} - 52x^9 + 450x^8 - 1188x^7 + 4050x^6 - 7812x^5 + 21861x^4 - 18928x^3 + 47754x^2 - 32508x + 70567$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{3}{2} \end{array} \right]_2 \left[\begin{array}{c} 2 \\ 2 \\ 2 \end{array} \right]_2$ | I: 162,52 | $\frac{313}{162}$ |
| $x^{12} - 36x^{11} - 36x^{10} + 36x^9 + 27x^8 + 27x^7 + 15x^6 - 27x^4 - 27x^3 - 27x^2 + 36$ | $x^{12} - 4x^9 + 5x^6 - 2x^3 + 4$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{3}{2} \end{array} \right]_2 \left[\begin{array}{c} 2 \\ 2 \\ 2 \end{array} \right]_2$ | I: 162,52 | $\frac{313}{162}$ |
| $x^{12} - 33x^{11} - 21x^{10} - 21x^9 - 18x^8 - 9x^7 - 24x^6 - 36x^5 + 18x^4 - 27x^3 - 27x^2 + 27x + 18$ | $x^{12} - 36x^{10} - 32x^9 + 1206x^8 + 2256x^7 - 10300x^6 - 27720x^5 + 88095x^4 + 409304x^3 + 596988x^2 + 389424x + 97342$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{3}{2} \end{array} \right]_2 \left[\begin{array}{c} 2 \\ 2 \\ 2 \end{array} \right]_2$ | I: 162,52 | $\frac{313}{162}$ |
| $x^{12} + 9x^{11} - 12x^{10} - 12x^9 + 9x^8 + 3x^6 - 9x^5 + 9x^4 - 9x^3 - 9$ | $x^{12} - 6x^9 - 4x^6 + 24x^3 + 16$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{3}{2} \end{array} \right]_2 \left[\begin{array}{c} 4 \\ 2 \\ 2 \end{array} \right]_2$ | I: 54,12 | $\frac{103}{54}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{12} + 36x^{11} + 6x^{10} - 21x^9 -$ $18x^8 - 36x^7 + 9x^6 - 18x^5 +$ $27x^4 + 27x^3 + 27x + 36$ | $x^{12} - 12x^{10} - 12x^9 + 54x^8 + 108x^7 -$ $52x^6 - 324x^5 - 255x^4 + 216x^3 +$ $504x^2 + 324x + 73$ | $\left[\begin{array}{cc} 3 & 2 \\ 2 & 2 \end{array} \right]_2^2$ | I: 54,12 | $\frac{103}{54}$ |
| $x^{12} + 9x^{11} + 9x^{10} - 3x^9 + 9x^7 +$ $9x^4 - 9x^3 + 9$ | $x^{12} - 5x^9 + 8x^6 - 7x^3 + 7$ | $\left[\begin{array}{cc} 3 & 2 \\ 2 & 2 \end{array} \right]_2^6$ | I: 18,3 | $\frac{31}{18}$ |
| $x^{12} - 33x^{11} - 18x^{10} + 24x^9 +$ $18x^8 - 36x^7 + 12x^6 - 36x^5 +$ $36x^3 - 27x^2 + 9$ | $x^{12} - x^9 + 5x^6 - 8x^3 + 4$ | $\left[\begin{array}{cc} 3 & 3 \\ 2 & 2 \end{array} \right]_2^2$ | I: 162,52 | $\frac{313}{162}$ |
| $x^{12} + 27x^{11} - 18x^{10} - 36x^8 +$ $27x^7 - 30x^6 - 27x^5 + 27x^4 +$ $27x^3 - 27x^2 + 27x + 36$ | $x^{12} - 4x^9 + 11x^6 - 14x^3 + 7$ | $\left[\begin{array}{cc} 3 & 2 \\ 2 & 2 \end{array} \right]_2^2$ | I: 54,12 | $\frac{103}{54}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-----------------|
| $x^{12} - 12x^{10} - 27x^9 + 18x^8 - 36x^7 - 33x^6 - 27x^5 + 27x^4 + 27x^3 + 27x + 18$ | $x^{12} - 84x^{10} - 35x^9 + 2646x^8 + 2205x^7 - 37534x^6 - 46305x^5 + 215061x^4 + 341285x^3 - 216090x^2 - 360150x - 12005$ | $\left[\begin{matrix} 2 \\ 2 \end{matrix} \right]_2^2$ | I: 6,2 | $\frac{3}{2}$ |
| $x^{12} + 36x^{11} - 30x^{10} - 15x^9 - 18x^8 + 18x^7 - 33x^6 + 27x^4 + 27x^3 - 27x - 36$ | $x^{12} - 84x^{10} - 140x^9 + 4158x^8 + 252x^7 - 84154x^6 - 15876x^5 + 1566285x^4 - 3091312x^3 + 3313674x^2 - 30417828x + 74869207$ | $\left[\begin{matrix} 3 & 2 \\ 2 & 2 \end{matrix} \right]_2^2$ | I: 54,13 | $\frac{97}{54}$ |
| $x^{12} - 12x^{11} - 12x^{10} - 3x^9 + 9x^8 + 9x^7 - 3x^6 - 9x^5 - 9x^4 + 9x^3 - 9$ | $x^{12} - 8x^9 - 16x^6 + 32x^3 - 8$ | $\left[\begin{matrix} 4 \\ 2 & 2 \end{matrix} \right]_2^4$ | I: 18,5 | $\frac{11}{6}$ |
| $x^{12} + 12x^{10} - 12x^9 - 9x^8 - 9x^7 - 9x^6 - 9x^5 - 9x^4 + 9x^3 + 9$ | $x^{12} - 6x^{10} + 45x^8 - 108x^7 + 126x^6 - 108x^5 + 153x^4 - 324x^3 + 540x^2 - 432x + 144$ | $\left[\begin{matrix} 4 \\ 2 & 2 \end{matrix} \right]_2^4$ | I: 18,5 | $\frac{11}{6}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-------------------|
| $x^{12} + 33x^{11} + 12x^{10} - 6x^9 - 18x^8 + 9x^7 + 24x^6 + 9x^5 - 36x^4 - 27x^2 + 27x - 36$ | $x^{12} + 48x^{10} - 80x^9 + 828x^8 - 3264x^7 + 9104x^6 - 42336x^5 + 106596x^4 - 216832x^3 + 719712x^2 - 244608x + 2021152$ | $\left[\begin{array}{cc} \frac{3}{2} & \frac{3}{2} \\ 2 & 2 \end{array} \right]_2^2$ | I: 162,52 | $\frac{313}{162}$ |
| $x^{12} + 6x^{11} - 6x^{10} + 6x^9 - 9x^6 + 9x^5 + 9x^3 + 9$ | $x^{12} - 2x^9 + 5x^6 - 4x^3 + 1$ | $\left[\begin{array}{cc} 2 & 2 \\ 2 & 2 \end{array} \right]_2^2$ | I: 18,5 | $\frac{11}{6}$ |
| $x^{12} + 18x^{11} + 21x^{10} - 27x^9 - 18x^8 - 12x^6 + 27x^5 - 36x^4 + 9x^3 + 27x^2 - 27x - 36$ | $x^{12} + 24x^{10} - 4x^9 + 216x^8 - 72x^7 + 980x^6 - 432x^5 + 2688x^4 - 1568x^3 + 4176x^2 - 4224x + 1936$ | $\left[\begin{array}{cc} \frac{3}{2} & \frac{3}{2} \\ 2 & 2 \end{array} \right]_2^2$ | I: 162,52 | $\frac{313}{162}$ |
| $x^{12} + 21x^{11} - 21x^{10} + 21x^9 - 27x^7 + 15x^6 + 18x^5 - 27x^4 + 27x^3 + 27x^2 + 27x - 36$ | $x^{12} - 57x^{10} - 92x^9 + 990x^8 + 2802x^7 - 4810x^6 - 25443x^5 - 15819x^4 + 57737x^3 + 116550x^2 + 83475x + 21625$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \right]_2^2$ | I: 6,2 | $\frac{3}{2}$ |
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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-----------------|
| $x^{12} - 39x^{11} + 15x^{10} - 30x^9 - 36x^8 - 9x^7 + 30x^6 - 27x^5 - 36x^3 + 27x + 18$ | $x^{12} + 12x^{10} - 4x^9 + 54x^8 - 36x^7 + 134x^6 - 108x^5 + 237x^4 - 104x^3 + 234x^2 + 12x + 97$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 3 \\ 2 \end{array} \right]_2^2$ | I: 54,13 | $\frac{97}{54}$ |
| $x^{12} - 39x^{11} - 15x^{10} - 36x^9 + 18x^8 - 27x^7 + 21x^6 + 36x^5 + 27x^4 + 27x^3 + 27x^2 + 27x + 18$ | $x^{12} + 12x^{10} - 4x^9 - 36x^8 - 36x^7 - 276x^6 + 72x^5 + 432x^4 + 128x^3 + 2664x^2 + 888x + 1276$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 3 \\ 2 \end{array} \right]_2^2$ | I: 54,13 | $\frac{97}{54}$ |
| $x^{12} - 3x^{11} - 6x^{10} + 9x^7 - 6x^6 + 9x^5 + 9x^4 + 9x^3 - 9$ | $x^{12} - 24x^{10} - 8x^9 + 216x^8 + 144x^7 - 880x^6 - 864x^5 + 1488x^4 + 1976x^3 - 576x^2 - 1488x - 464$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \right]_2^2$ | I: 18,5 | $\frac{11}{6}$ |
| $x^{12} + 12x^{11} + 3x^{10} + 12x^9 + 9x^8 - 6x^6 + 9x^3 - 9$ | $x^{12} - 168x^{10} + 8820x^8 - 150360x^6 + 841428x^4 - 740880x^2 + 172872$ | $\left[\begin{array}{c} 6 \\ 2 \end{array} \right]_2^6$ | I: 6,2 | $\frac{3}{2}$ |
| $x^{12} - 33x^{11} - 30x^{10} + 3x^9 - 9x^8 + 27x^7 + 15x^6 + 36x^5 - 36x^4 + 36x^3 + 27x^2 - 27x - 18$ | $x^{12} - 7x^9 + 56x^6 - 245x^3 + 343$ | $\left[\begin{array}{c} 6 \\ 2 \end{array} \right]_2^6$ | I: 6,2 | $\frac{3}{2}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{12} - 6x^{11} - 3x^{10} - 12x^9 + 9x^8 + 9x^7 + 12x^6 - 9x^3 - 9$ | $x^{12} - 12x^{10} - x^9 + 54x^8 + 9x^7 - 112x^6 - 27x^5 + 105x^4 + 31x^3 - 36x^2 - 12x + 1$ | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}_2^2$ | I: 6,2 | $\frac{3}{2}$ |
| $x^{12} - 30x^{11} - 39x^{10} - 24x^9 + 36x^8 - 36x^7 + 21x^6 + 9x^5 - 18x^4 - 9x^3 - 27x - 18$ | $x^{12} - 14x^9 + 161x^6 + 392x^3 + 343$ | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}_2^2$ | I: 6,2 | $\frac{3}{2}$ |
| $x^{12} + 45x^{11} - 33x^{10} + 6x^9 - 72x^8 + 99x^7 - 39x^6 + 27x^5 + 9x^4 - 63x^3 - 81x^2 - 54x - 72$ | $x^{12} - 10x^9 + 32x^6 - 14x^3 + 7$ | $\begin{bmatrix} 2 & 2 \\ 2 \end{bmatrix}_2^2$ | I: 18,3 | $\frac{31}{18}$ |
| $x^{12} - 6x^{11} + 3x^{10} + 9x^9 - 9x^7 - 9x^6 - 9x^5 + 9$ | $x^{12} - 7x^9 + 105x^6 - 490x^3 + 1372$ | $\begin{bmatrix} 2 & 2 & 2 \\ 2 \end{bmatrix}_2^2$ | I: 162,52 | $\frac{313}{162}$ |
| $x^{12} - 15x^{11} - 24x^{10} - 15x^9 - 9x^7 + 21x^6 + 18x^5 - 9x^4 - 36x^3 + 36$ | $x^{12} - 12x^{10} + 54x^8 - 88x^6 - 39x^4 + 180x^2 + 4$ | $\begin{bmatrix} 2 & 2 \\ 2 \end{bmatrix}_2^2$ | I: 18,3 | $\frac{31}{18}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-----------------|
| $x^{12} + 12x^{11} - 6x^9 - 9x^6 + 9x^5 - 9x^4 + 9$ | $x^{12} - 70x^9 + 1092x^6 + 8624x^3 + 21952$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2^2$ | I: 18,3 | $\frac{31}{18}$ |
| $x^{12} + 18x^{11} - 30x^{10} - 24x^9 - 27x^8 + 27x^7 + 15x^6 - 9x^4 - 18x^3 - 27x^2 - 27x - 18$ | $x^{12} - 14x^9 + 63x^6 - 98x^3 + 1372$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2^6$ | I: 54,13 | $\frac{97}{54}$ |
| $x^{12} + 3x^{11} + 3x^{10} - 9x^8 + 9x^7 + 3x^6 + 9x^3 - 9$ | $x^{12} + 36x^{10} - 68x^9 + 450x^8 - 1476x^7 + 3186x^6 - 8820x^5 + 7749x^4 - 5264x^3 - 630x^2 + 30996x + 46039$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2^6$ | I: 54,13 | $\frac{97}{54}$ |
| $x^{12} - 9x^9 + 9x^8 - 9x^5 - 9x^4 - 9x^3 + 9$ | $x^{12} - x^6 + 1$ | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}_2^2$ | I: 6,2 | $\frac{3}{2}$ |
| $x^{12} - 15x^{11} - 21x^{10} - 36x^8 + 27x^7 - 30x^6 - 18x^5 + 18x^4 + 27x^3 + 27x^2 + 36$ | $x^{12} - 5x^9 + 11x^6 - 10x^3 + 4$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2^2$ | I: 54,13 | $\frac{97}{54}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|---------|-----------------|
| $x^{12} - 36x^{11} - 27x^{10} + 30x^9 + 9x^7 - 6x^6 - 9x^3 + 27x^2 - 27x + 36$ | $x^{12} - 14x^9 + 77x^6 - 196x^3 + 343$ | $\begin{bmatrix} 2 & 2 \\ 2 & 2 \end{bmatrix}_2^2$ | I: 18,5 | $\frac{11}{6}$ |
| $x^{12} + 36x^{11} + 111x^{10} + 90x^9 + 36x^8 + 90x^7 + 30x^6 + 108x^5 - 36x^4 + 54x^3 - 81x^2 + 54x - 18$ | $x^{12} - 2x^9 + 2x^6 + 2x^3 + 1$ | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}_2^2$ | I: 6,2 | $\frac{3}{2}$ |
| $x^{12} - 30x^{11} + 30x^{10} - 15x^9 + 36x^8 - 27x^7 - 30x^6 - 9x^5 - 18x^4 + 36x^3 + 27x^2 + 27x + 9$ | $x^{12} - 84x^9 + 1988x^6 - 9408x^3 + 21952$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2^2$ | I: 18,3 | $\frac{31}{18}$ |
| $x^{12} + 30x^{11} + 39x^{10} - 12x^9 + 27x^8 + 18x^7 - 36x^6 + 36x^5 - 36x^3 - 18$ | $x^{12} - 7x^9 + 14x^6 + 49x^3 + 343$ | $\begin{bmatrix} 2 & 2 \\ 2 & 2 \end{bmatrix}_2^2$ | I: 18,5 | $\frac{11}{6}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} + 21x^{11} + 21x^{10} - 39x^9 +$ $9x^8 - 36x^7 - 3x^6 + 18x^5 +$ $27x^4 - 27x - 36$ | $x^{12} - 84x^{10} - 28x^9 + 2646x^8 + 1764x^7 -$ $37975x^6 - 37044x^5 + 233583x^4 +$ $285376x^3 - 410571x^2 - 547428x -$ 141659 | $\left[\begin{matrix} 2 \\ 2 \end{matrix} \right]_2^2$ | I: 6,2 | $\frac{3}{2}$ |
| $x^{12} + 3x^7 + 3$ | $x^{12} - 16x^9 - 18x^8 - 48x^7 + 48x^6 +$ $144x^5 + 411x^4 + 128x^3 - 432x^2 -$ $768x - 320$ | $\left[\begin{matrix} 15 & 15 \\ 8 & 8 \end{matrix} \right]_8^2$ | T: 12,46 | $\frac{127}{72}$ |
| $x^{12} + 3x^{10} - 3x^8 - 3x^7 + 3x^6 +$ $3x^3 + 3$ | $x^{12} + 18x^{10} - 46x^9 - 27x^8 - 654x^7 -$ $822x^6 + 720x^5 + 6906x^4 + 26792x^3 -$ $3348x^2 - 22632x + 13264$ | $\left[\begin{matrix} 9 & 9 & 15 & 15 \\ 8 & 8 & 8 & 8 \end{matrix} \right]_8^2$ | T: 12,173 | $\frac{1159}{648}$ |
| $x^{12} - 3x^{11} - 3x^{10} - 3x^8 + 3x^7 -$ $3x^6 - 3$ | $x^{12} + 6x^{10} - 16x^9 - 6x^8 - 192x^7 +$ $216x^6 + 768x^5 - 912x^4 + 320x^3 -$ $528x^2 + 16$ | $\left[\begin{matrix} 15 & 15 \\ 8 & 8 \end{matrix} \right]_8^2$ | T: 12,46 | $\frac{127}{72}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{12} + 3x^{11} - 3x^7 - 3x^3 - 3$ | $x^{12} - 6x^{10} - 24x^9 + 36x^8 + 144x^7 - 528x^6 + 864x^5 - 603x^4 + 720x^3 - 594x^2 + 216x - 18$ | $\left[\begin{array}{c} 9 \\ 8 \end{array} \quad \begin{array}{c} 9 \\ 8 \end{array} \quad \begin{array}{c} 15 \\ 8 \end{array} \right]_8^2$ | T: 12,173 | $\frac{1159}{648}$ |
| $x^{12} - 3x^{11} - 3x^{10} - 3x^9 - 3x^8 - 3x^7 + 3$ | $x^{12} + 6x^{10} - 14x^9 - 51x^8 - 6x^7 - 567x^6 + 330x^5 - 462x^4 + 718x^3 + 4593x^2 + 6012x + 3568$ | $\left[\begin{array}{c} 9 \\ 8 \end{array} \quad \begin{array}{c} 9 \\ 8 \end{array} \quad \begin{array}{c} 15 \\ 8 \end{array} \right]_8^2$ | T: 12,173 | $\frac{1159}{648}$ |
| $x^{12} + 3x^{11} + 3x^{10} + 3x^9 + 3x^7 - 3x^3 + 3$ | $x^{12} + 6x^{10} - 16x^9 - 33x^8 + 240x^7 - 528x^6 + 480x^5 - 408x^4 + 608x^3 - 456x^2 + 100$ | $\left[\begin{array}{c} 15 \\ 8 \end{array} \right]_8^2$ | T: 12,46 | $\frac{127}{72}$ |
| $x^{12} - 3x^{11} + 3x^9 + 3x^8 + 3x^7 + 3x^6 + 3x^3 - 3$ | $x^{12} - 8x^9 + 24x^7 + 24x^6 - 123x^4 - 32x^3 + 72x^2 + 96x - 32$ | $\left[\begin{array}{c} 9 \\ 8 \end{array} \quad \begin{array}{c} 9 \\ 8 \end{array} \quad \begin{array}{c} 15 \\ 8 \end{array} \right]_8^2$ | T: 12,173 | $\frac{1159}{648}$ |
| $x^{12} - 3x^{11} - 3x^{10} - 3x^8 + 3x^7 - 3x^6 + 3x^3 - 3$ | $x^{12} - 30x^{10} - 16x^9 + 306x^8 + 216x^7 - 1440x^6 - 1008x^5 + 3429x^4 + 1952x^3 - 4050x^2 - 1320x + 1942$ | $\left[\begin{array}{c} 15 \\ 8 \end{array} \right]_8^2$ | T: 12,46 | $\frac{127}{72}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} + 3x^9 - 3x^7 + 3x^6 + 3x^3 - 3$ | $x^{12} + 6x^{10} - 20x^9 - 144x^8 - 300x^7 - 816x^6 - 828x^5 + 1110x^4 + 424x^3 - 720x^2 + 192x - 8$ | $\left[\begin{array}{c} \frac{9}{8} \\ \frac{9}{8} \\ \frac{15}{8} \\ \frac{15}{8} \end{array} \right]_8^2$ | T: 12,173 | $\frac{1159}{648}$ |
| $x^{12} - 3x^{11} - 3x^9 + 3x^8 - 3x^7 + 3x^3 - 3$ | $x^{12} + 24x^{10} - 24x^9 + 108x^8 - 168x^7 + 156x^6 - 144x^5 - 171x^4 + 192x^3 + 72x^2 - 48$ | $\left[\begin{array}{c} \frac{9}{8} \\ \frac{9}{8} \\ \frac{15}{8} \\ \frac{15}{8} \end{array} \right]_8^2$ | T: 12,173 | $\frac{1159}{648}$ |
| $x^{12} - 3x^{10} - 3x^8 - 3x^7 + 3x^6 - 3x^3 + 3$ | $x^{12} - 12x^{10} - 52x^9 + 54x^8 + 468x^7 - 480x^6 - 1404x^5 + 2313x^4 + 4892x^3 - 3348x^2 - 10464x - 5792$ | $\left[\begin{array}{c} \frac{9}{8} \\ \frac{9}{8} \\ \frac{15}{8} \\ \frac{15}{8} \end{array} \right]_8^2$ | T: 12,173 | $\frac{1159}{648}$ |
| $x^{12} - 3x^{11} - 3x^{10} - 3x^9 - 3x^8 - 3x^7 + 3x^6 + 3x^3 - 3$ | $x^{12} + 6x^{10} - 4x^9 - 12x^7 - 42x^6 - 36x^5 - 39x^4 - 16x^3 + 4$ | $\left[\begin{array}{c} \frac{15}{8} \\ \frac{15}{8} \end{array} \right]_8^2$ | T: 12,46 | $\frac{127}{72}$ |
| $x^{12} - 3x^{10} + 3x^9 + 3x^8 - 3x^7 + 3x^3 + 3$ | $x^{12} + 21x^{10} - 74x^9 + 54x^8 + 6x^7 - 1635x^6 + 576x^5 + 201x^4 - 5492x^3 + 4374x^2 + 2736x - 5792$ | $\left[\begin{array}{c} \frac{9}{8} \\ \frac{9}{8} \\ \frac{15}{8} \\ \frac{15}{8} \end{array} \right]_8^2$ | T: 12,173 | $\frac{1159}{648}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} - 3x^{11} - 3x^{10} + 3x^9 + 3x^8 + 3x^7 - 3x^6 + 3x^3 + 3$ | $x^{12} - 15x^{10} - 32x^9 - 54x^8 - 300x^7 - 435x^6 - 324x^5 - 1005x^4 - 776x^3 + 504x^2 + 288x - 128$ | $\begin{bmatrix} 9 & 9 & 15 \\ 8 & 8 & 8 \end{bmatrix}_8^2$ | T: 12,173 | $\frac{1159}{648}$ |
| $x^{12} - 3x^{11} + 3x^7 - 3x^3 - 3$ | $x^{12} - 24x^{10} - 56x^9 + 18x^8 - 120x^7 - 192x^6 + 1512x^5 + 165x^4 - 1712x^3 - 432x^2 + 72x + 472$ | $\begin{bmatrix} 9 & 9 & 15 \\ 8 & 8 & 8 \end{bmatrix}_8^2$ | T: 12,173 | $\frac{1159}{648}$ |
| $x^{12} - 3x^9 - 3x^7 + 3x^6 - 3x^3 + 3$ | $x^{12} - 6x^{10} - 75x^8 - 192x^7 - 12x^6 + 576x^5 + 855x^4 + 768x^3 - 198x^2 + 3$ | $\begin{bmatrix} 15 & 15 \\ 8 & 8 \end{bmatrix}_8^2$ | T: 12,46 | $\frac{127}{72}$ |
| $x^{12} - 3x^{11} - 3x^{10} - 3x^9 + 3x^8 - 3x^7 - 3x^6 - 3x^3 - 3$ | $x^{12} - 12x^{10} - 8x^9 + 54x^8 + 48x^7 - 84x^6 - 72x^5 + 6x^4 - 32x^3 - 32$ | $\begin{bmatrix} 9 & 9 & 15 \\ 8 & 8 & 8 \end{bmatrix}_8^2$ | T: 12,173 | $\frac{1159}{648}$ |
| $x^{12} - 3x^{10} - 3x^9 + 3x^8 - 3x^7 + 3x^6 + 3$ | $x^{12} - 12x^{10} - 14x^9 + 54x^8 + 126x^7 - 282x^6 - 378x^5 + 1125x^4 - 3110x^3 - 1566x^2 + 10464x - 6056$ | $\begin{bmatrix} 9 & 9 & 15 \\ 8 & 8 & 8 \end{bmatrix}_8^2$ | T: 12,173 | $\frac{1159}{648}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{12} + 3x^8 + 3$ | $x^{12} - 6x^{11} + 24x^{10} - 62x^9 + 129x^8 - 201x^7 + 237x^6 - 201x^5 + 129x^4 - 62x^3 + 24x^2 - 6x + 1$ | $\left[\begin{matrix} 2 \\ 2 \end{matrix} \right]_4^2$ | T: 12,1 | $\frac{19}{12}$ |
| $x^{12} + 6x^{11} - 6x^{10} + 6x^8 + 9x^7 + 12x^6 - 9x^5 - 12x^3 + 9x^2 + 9x + 12$ | $x^{12} - 44x^9 + 588x^6 - 1568x^3 + 1372$ | $\left[\begin{matrix} 5 & 5 & 3 \\ 4 & 4 & 2 \end{matrix} \right]_4^2$ | T: 12,131 | $\frac{583}{324}$ |
| $x^{12} + 12x^{11} + 3x^{10} - 9x^9 - 12x^8 - 9x^7 + 9x^6 + 9x^5 - 9x^4 + 9x - 6$ | $x^{12} - 8x^9 + 84x^6 - 56x^3 + 1372$ | $\left[\begin{matrix} 5 & 5 & 3 \\ 4 & 4 & 2 \end{matrix} \right]_4^2$ | T: 12,131 | $\frac{583}{324}$ |
| $x^{12} + 3x^{11} + 3x^9 - 3x^8 - 3$ | $x^{12} - x^9 + 8x^3 + 1$ | $\left[\begin{matrix} 2 \\ 2 \end{matrix} \right]_4^2$ | T: 12,1 | $\frac{19}{12}$ |
| $x^{12} - 3x^{11} - 3x^{10} + 3x^8 + 3$ | $x^{12} - 63x^{10} - 56x^9 + 1065x^8 + 1068x^7 - 6501x^6 - 7140x^5 + 13566x^4 + 16768x^3 - 4380x^2 - 5448x + 1552$ | $\left[\begin{matrix} 5 & 5 & 3 \\ 4 & 4 & 2 \end{matrix} \right]_4^2$ | T: 12,131 | $\frac{583}{324}$ |
| $x^{12} - 3x^{10} - 3x^8 - 3x^6 + 3x^3 - 3$ | $x^{12} - x^9 - 36x^6 - 127x^3 - 125$ | $\left[\begin{matrix} 5 & 5 & 2 \\ 4 & 4 & 4 \end{matrix} \right]_4^2$ | T: 12,73 | $\frac{187}{108}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{12} + 3x^{11} - 3x^{10} - 3x^8 + 3x^6 - 3$ | $x^{12} + 6x^{10} - 12x^9 - 165x^8 - 432x^7 - 1770x^6 - 3168x^5 - 5499x^4 - 8412x^3 - 4572x^2 - 792x - 1452$ | $\begin{bmatrix} 5 & 5 & 3 \\ 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{583}{324}$ |
| $x^{12} - 3x^{11} + 3x^8 - 3x^6 - 3x^3 + 3$ | $x^{12} - 12x^{10} + 48x^8 - 60x^6 + 81x^4 - 288x^2 - 96$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_4^2$ | T: 12,19 | $\frac{7}{4}$ |
| $x^{12} + 3x^9 + 3x^8 + 3x^6 - 3x^3 - 3$ | $x^{12} + 3x^{10} - 15x^9 + 30x^8 + 45x^6 - 495x^5 + 135x^4 + 150x^3 + 2178x^2 - 2520x + 744$ | $\begin{bmatrix} 5 & 5 & 3 \\ 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{583}{324}$ |
| $x^{12} - 3x^{10} - 3x^9 + 3x^8 - 3x^3 - 3$ | $x^{12} - 39x^{10} - 14x^9 + 534x^8 + 294x^7 - 4215x^6 - 7392x^5 + 1992x^4 + 14098x^3 + 11415x^2 - 1554x - 1973$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_4^2$ | T: 12,19 | $\frac{7}{4}$ |
| $x^{12} + 3x^{10} + 3x^8 + 3x^6 - 3x^3 + 3$ | $x^{12} - 15x^{10} - 13x^9 + 81x^8 + 144x^7 + 12x^6 - 27x^5 + 414x^4 + 1091x^3 + 1215x^2 + 645x + 133$ | $\begin{bmatrix} 5 & 5 & 2 \\ 4 & 4 & 4 \end{bmatrix}_4^2$ | T: 12,73 | $\frac{187}{108}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{12} - 3x^{11} - 3x^{10} - 3x^9 + 3x^8 - 3x^6 - 3x^3 - 3$ | $x^{12} - 21x^{10} - 2x^9 + 138x^8 + 78x^7 - 357x^6 - 516x^5 + 336x^4 + 910x^3 + 255x^2 - 438x - 215$ | $\begin{bmatrix} 5 & 5 & 3 \\ 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{583}{324}$ |
| $x^{12} - 3x^8 - 3x^6 + 3$ | $x^{12} - 5x^9 + 3x^6 + 7x^3 + 7$ | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_4^2$ | T: 12,19 | $\frac{7}{4}$ |
| $x^{12} - 3x^{11} + 3x^{10} + 3x^9 + 3x^8 - 3$ | $x^{12} - 24x^{10} + 246x^8 - 576x^6 + 504x^4 + 24$ | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_4^2$ | T: 12,19 | $\frac{7}{4}$ |
| $x^{12} - 3x^{10} - 3x^9 - 3x^8 - 3x^3 - 3$ | $x^{12} + 6x^{10} - 12x^9 - 165x^8 + 324x^7 + 1422x^6 - 1404x^5 - 3483x^4 + 3768x^3 + 7776x^2 + 2736x + 60$ | $\begin{bmatrix} 5 & 5 & 3 \\ 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{583}{324}$ |
| $x^{12} + 3x^{11} - 3x^{10} + 3x^9 - 3x^8 - 3x^3 + 3$ | $x^{12} - 8x^9 + 210x^6 - 56x^3 + 4$ | $\begin{bmatrix} 5 & 5 & 3 \\ 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{583}{324}$ |
| $x^{12} - 3x^{10} + 3x^8 - 3$ | $x^{12} + 24x^{10} + 246x^8 + 576x^6 + 504x^4 + 24$ | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_4^2$ | T: 12,19 | $\frac{7}{4}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{12} + 6x^{11} - 6x^{10} - 12x^9 + 12x^8 + 9x^7 + 3x^6 + 9x^5 - 9x^4 - 12x^3 + 9x^2 + 9x + 6$ | $x^{12} - 21x^{10} - 16x^9 + 120x^8 + 84x^7 - 381x^6 - 330x^5 + 408x^4 + 494x^3 + 75x^2 - 210x - 227$ | $\begin{bmatrix} 5 & 5 & 3 & 2 \\ 4 & 4 & 2 & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{583}{324}$ |
| $x^{12} + 12x^{10} - 3x^9 - 3x^8 + 9x^7 - 12x^6 + 3x^3 - 9x^2 - 6$ | $x^{12} - 7x^9 + 21x^6 + 245x^3 + 343$ | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}_4^2$ | T: 12,1 | $\frac{19}{12}$ |
| $x^{12} + 3x^{11} - 3x^{10} - 3x^9 + 3x^8 + 3x^6 + 3x^3 - 3$ | $x^{12} + 6x^{10} - 18x^9 - 54x^8 - 54x^7 - 654x^6 + 756x^5 + 2142x^4 - 2394x^3 - 378x^2 + 1134x - 315$ | $\begin{bmatrix} 5 & 5 & 2 \\ 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,73 | $\frac{187}{108}$ |
| $x^{12} + 6x^{11} - 3x^{10} - 6x^9 + 6x^8 + 9x^7 - 9x^4 - 9x^3 + 9x^2 - 9x + 12$ | $x^{12} - 17x^9 + 102x^6 - 56x^3 + 49$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_4^2$ | T: 12,19 | $\frac{7}{4}$ |
| $x^{12} + 12x^{11} - 3x^{10} + 6x^9 - 6x^8 + 9x^7 - 9x^6 + 12x^3 - 9x^2 - 12$ | $x^{12} - 9x^{10} - 6x^9 + 30x^8 - 270x^7 - 615x^6 + 126x^5 - 1872x^4 - 4212x^3 - 1809x^2 + 252x + 105$ | $\begin{bmatrix} 5 & 5 & 3 & 2 \\ 4 & 4 & 2 & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{583}{324}$ |
| 12 | | | | |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{12} - 3x^{11} - 3x^{10} + 3x^8 - 3$ | $x^{12} + 3x^{10} - 15x^8 - 15x^6 - 180x^5 + 315x^4 + 2040x^3 + 3753x^2 + 3150x + 1149$ | $\begin{bmatrix} \frac{5}{4} & \frac{5}{4} & \frac{3}{2} & 2 \\ & & & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{583}{324}$ |
| $x^{12} + 3x^9 + 3x^8 - 3x^3 - 3$ | $x^{12} + 9x^{10} + 3x^8 - 36x^6 - 9x^4 + 18x^2 - 3$ | $\begin{bmatrix} 2 \\ & 2 \end{bmatrix}_4^2$ | T: 12,1 | $\frac{19}{12}$ |
| $x^{12} - 12x^{11} + 12x^{10} + 3x^9 - 12x^8 + 9x^7 - 9x^6 + 9x^5 + 9x^4 + 9x^3 + 9x - 6$ | $x^{12} - 10x^9 + 12x^6 + 56x^3 + 112$ | $\begin{bmatrix} \frac{3}{2} & 2 \\ & 2 \end{bmatrix}_4^2$ | T: 12,19 | $\frac{7}{4}$ |
| $x^{12} + 6x^{11} - 9x^{10} + 12x^9 + 12x^8 - 9x^7 + 3x^6 - 9x^5 + 9x^4 + 6x^3 - 9x^2 - 9x + 6$ | $x^{12} - 39x^{10} - 14x^9 + 408x^8 - 462x^7 - 2913x^6 + 4074x^5 + 5898x^4 - 19712x^3 - 2949x^2 + 19236x - 3821$ | $\begin{bmatrix} \frac{3}{2} & 2 \\ & 2 \end{bmatrix}_4^2$ | T: 12,19 | $\frac{7}{4}$ |
| $x^{12} + 3x^{11} + 3x^9 + 3x^8 + 3x^6 - 3x^3 + 3$ | $x^{12} + 12x^{10} + 48x^8 + 60x^6 + 81x^4 + 288x^2 - 96$ | $\begin{bmatrix} \frac{3}{2} & 2 \\ & 2 \end{bmatrix}_4^2$ | T: 12,19 | $\frac{7}{4}$ |
| $x^{12} + 3x^{11} + 3x^{10} + 3x^9 - 3x^8 + 3x^6 + 3$ | $x^{12} - 10x^9 - 42x^6 + 308x^3 + 1372$ | $\begin{bmatrix} \frac{5}{4} & \frac{5}{4} & \frac{3}{2} & 2 \\ & & & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{583}{324}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{12} - 9x^{10} + 3x^9 - 3x^8 - 9x^6 + 9x^5 + 12x^3 + 9x^2 - 9x + 12$ | $x^{12} + 6x^{10} - 39x^8 - 72x^7 + 12x^6 + 216x^5 + 243x^4 + 24x^3 - 162x^2 - 72x + 75$ | $\begin{bmatrix} 5 & 5 \\ 4 & 4 \end{bmatrix}^2$ | T: 12,73 | $\frac{187}{108}$ |
| $x^{12} + 3x^{11} - 6x^{10} - 6x^8 - 3x^6 + 9x^5 + 6x^3 + 9x + 6$ | $x^{12} - 18x^{10} - 28x^9 - 33x^8 - 168x^7 + 69x^6 + 1281x^5 + 2055x^4 + 1988x^3 + 2784x^2 + 2856x + 1072$ | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}_4^2$ | T: 12,1 | $\frac{19}{12}$ |
| $x^{12} + 9x^{11} + 3x^{10} - 12x^9 - 12x^8 + 9x^7 - 9x^5 + 9x^4 + 12x^3 + 9x^2 + 12$ | $x^{12} - 28x^9 + 210x^6 - 16x^3 + 4$ | $\begin{bmatrix} 5 & 5 & 3 \\ 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{583}{324}$ |
| $x^{12} - 9x^{11} + 9x^{10} - 9x^9 - 3x^8 - 9x^7 - 12x^6 - 9x^4 - 12x^3 - 6$ | $x^{12} - 10x^9 + 30x^6 - 16x^3 + 4$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_4^2$ | T: 12,19 | $\frac{7}{4}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{12} - 1884x^{10} - 5024x^9 + 1331046x^8 + 7098912x^7 - 416469504x^6 - 3343587552x^5 + 47820267801x^4 + 537079230112x^3 + 328089528540x^2 - 5716048675008x - 661039642688$ | | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4 \left[\begin{array}{cc} 5 & 3 \\ 4 & 2 \end{array} \right]_4^2$ | T: 12,131 | $\frac{583}{324}$ |
| $x^{12} + 9x^{11} + 3x^8 - 3x^6 - 3x^3 + 3$ | | | | |
| $x^{12} + 9x^{11} + 9x^{10} + 12x^9 + 6x^8 - 9x^7 + 12x^6 - 9x^5 + 12x^3 - 9x^2 + 12$ | $x^{12} - 4x^9 + 12x^6 - 7x^3 + 7$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_4^2$ | T: 12,19 | $\frac{7}{4}$ |
| $x^{12} + 3x^{11} + 12x^{10} + 9x^9 - 12x^8 + 9x^6 - 9x^5 + 6x^3 - 9x^2 - 9x - 6$ | $x^{12} - 10x^9 + 462x^6 - 196x^3 + 1372$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4 \left[\begin{array}{cc} 5 & 3 \\ 4 & 2 \end{array} \right]_4^2$ | T: 12,131 | $\frac{583}{324}$ |
| $x^{12} - 3x^{10} + 12x^8 - 9x^7 + 6x^6 - 9x^5 - 12x^3 + 9x^2 + 6$ | $x^{12} + 3x^{10} - 222x^8 + 531x^6 + 5058x^4 - 3789x^2 - 13467$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_4^2$ | T: 12,19 | $\frac{7}{4}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{12} + 9x^{11} - 3x^{10} - 9x^9 - 3x^8 - 9x^7 + 12x^6 + 9x^4 - 12x^3 + 12$ | $x^{12} - 18x^9 + 630x^6 - 2646x^3 + 9261$ | $\begin{bmatrix} 5 & 5 \\ 4 & 4 \end{bmatrix} \begin{matrix} 2 \\ 2 \end{matrix} \Bigg]_4$ | T: 12,73 | $\frac{187}{108}$ |
| $x^{12} + 3x^{10} - 3x^8 - 3$ | $x^{12} - 2x^9 + 36x^6 + 28x^3 - 2$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix} \begin{matrix} 2 \\ 2 \end{matrix} \Bigg]_4$ | T: 12,19 | $\frac{7}{4}$ |
| $x^{12} - 3x^{11} - 3x^9 - 3x^8 + 3x^6 - 3$ | $x^{12} - 2x^9 - 8x^3 - 2$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix} \begin{matrix} 2 \\ 2 \end{matrix} \Bigg]_4$ | T: 12,19 | $\frac{7}{4}$ |
| $x^{12} - 6x^{11} + 12x^{10} - 9x^9 + 6x^8 + 9x^7 + 6x^6 - 9x^4 + 6x^3 - 9x^2 - 9x + 12$ | $x^{12} - 7x^9 + 84x^6 - 196x^3 + 343$ | $\begin{bmatrix} 2 \\ 2 \end{bmatrix} \begin{matrix} 2 \\ 2 \end{matrix} \Bigg]_4$ | T: 12,1 | $\frac{19}{12}$ |
| $x^{12} - 6x^{11} - 9x^{10} - 6x^9 + 12x^8 - 9x^7 - 12x^6 - 9x^5 + 6x^3 + 9x - 12$ | $x^{12} + 3x^{10} - 222x^8 - 1401x^6 + 1026x^4 + 11583x^2 - 10443$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix} \begin{matrix} 2 \\ 2 \end{matrix} \Bigg]_4$ | T: 12,19 | $\frac{7}{4}$ |
| $x^{12} + 3x^{11} + 3x^9 - 6x^8 + 3x^6 - 3x^3 - 9x^2 - 9x - 12$ | $x^{12} - 9x^{10} - 12x^9 - 6x^8 + 252x^7 + 471x^6 - 1962x^5 - 4248x^4 + 3438x^3 + 12573x^2 + 7974x + 933$ | $\begin{bmatrix} 5 & 5 & 3 \\ 4 & 4 & 2 \end{bmatrix} \begin{matrix} 2 \\ 2 \\ 2 \end{matrix} \Bigg]_4$ | T: 12,131 | $\frac{583}{324}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{12} + 3x^{10} - 3x^9 - 3x^8 - 3x^6 + 3x^3 + 3$ | $x^{12} - 2x^9 + 12x^6 + 7x^3 + 1$ | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}_4$ | T: 12,1 | $\frac{19}{12}$ |
| $x^{12} + 3x^{10} + 3x^9 + 3x^8 - 3x^6 + 3x^3 - 3$ | $x^{12} + 6x^{10} - 54x^8 - 252x^7 - 735x^6 + 1764x^4 + 1386x^3 + 1890x^2 + 2646x + 441$ | $\begin{bmatrix} 5 & 5 \\ 4 & 4 \end{bmatrix}_4$ | T: 12,73 | $\frac{187}{108}$ |
| $x^{12} + 12x^{11} + 3x^{10} + 9x^9 - 12x^8 + 9x^7 + 9x^6 - 9x^5 + 12x^3 - 6$ | $x^{12} - 8x^9 + 30x^6 - 20x^3 + 4$ | $\begin{bmatrix} 3 & 2 \\ 2 \end{bmatrix}_4$ | T: 12,19 | $\frac{7}{4}$ |
| $x^{12} + 6x^{11} - 9x^{10} - 9x^9 + 3x^8 - 9x^7 + 9x^4 + 6x^3 - 9x + 6$ | $x^{12} + 6x^{10} - 12x^9 - 24x^8 + 48x^6 + 144x^5 - 81x^4 - 288x^3 + 234x^2 + 540x + 213$ | $\begin{bmatrix} 5 & 5 \\ 4 & 4 \end{bmatrix}_4$ | T: 12,73 | $\frac{187}{108}$ |
| $x^{12} - 9x^{10} - 12x^9 - 6x^8 + 9x^7 + 9x^6 + 9x^5 - 9x^4 + 3x^3 + 9x^2 - 9x - 12$ | $x^{12} - 18x^{10} - 14x^9 + 30x^8 + 294x^7 + 195x^6 - 1092x^5 + 669x^4 + 1078x^3 - 1626x^2 + 735x - 125$ | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}_4$ | T: 12,1 | $\frac{19}{12}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{12} + 12x^{10} + 3x^9 - 12x^8 - 9x^7 + 6x^6 + 9x^5 - 9x^4 + 3x^3 + 9x^2 + 9x - 6$ | $x^{12} - 36x^9 + 693x^6 - 2646x^3 + 9261$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \quad \begin{array}{c} 5 \\ 4 \end{array} \quad 2 \right]_4^2$ | T: 12,73 | $\frac{187}{108}$ |
| $x^{12} + 27x^3 + 162$ | $x^{12} + 36x^{10} - 36x^9 + 486x^8 - 972x^7 + 3492x^6 - 8748x^5 + 16929x^4 - 31860x^3 + 46656x^2 - 50544x + 40176$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 5 \\ 2 \end{array} \right]_2^4$ | I: 54,14 | $\frac{115}{54}$ |
| $x^{12} + 252x^{11} - 333x^{10} - 348x^9 + 27x^8 - 27x^7 - 81x^6 + 243x^5 - 324x^4 + 243x^3 + 243x^2 + 162$ | $x^{12} - 144x^6 + 2592$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 5 \\ 2 \end{array} \right]_2^4$ | I: 18,4 | $\frac{37}{18}$ |
| $x^{12} + 36x^{11} + 171x^9 + 243x^8 + 297x^7 + 297x^6 + 243x^5 + 162x^4 + 270x^3 + 243x^2 - 243x - 81$ | $x^{12} - 12x^9 + 9x^6 + 162x^3 + 81$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 5 \\ 2 \end{array} \right]_2^4$ | I: 162,54 | $\frac{349}{162}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{12} - 27x^{11} - 99x^{10} + 36x^9 - 108x^8 - 27x^7 - 99x^6 - 81x^5 - 81x^4 + 27x^3 + 81$ | $x^{12} - 24x^9 + 171x^6 - 324x^3 + 81$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^4$ | I: 162,54 | $\frac{349}{162}$ |
| $x^{12} - 315x^{11} - 117x^{10} + 240x^9 + 81x^8 - 243x^7 + 153x^6 + 324x^5 + 324x^4 - 54x^3 + 243x^2 + 243x - 324$ | $x^{12} - 36x^{10} + 486x^8 - 2952x^6 + 7209x^4 - 2916x^2 + 162$ | $\begin{bmatrix} 5 \\ 2 \end{bmatrix}_2^4$ | I: 6,1 | $\frac{11}{6}$ |
| $x^{12} + 306x^{11} + 108x^{10} + 87x^9 - 189x^8 + 351x^7 - 99x^6 + 81x^5 + 81x^4 - 189x^3 + 243x - 162$ | $x^{12} + 36x^{10} - 48x^9 + 486x^8 - 1296x^7 + 3420x^6 - 11664x^5 + 15633x^4 - 33264x^3 + 40824x^2 + 15552x - 24624$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^4$ | I: 162,54 | $\frac{349}{162}$ |
| $x^{12} + 27x^{11} - 144x^{10} + 51x^9 + 243x^8 + 135x^7 + 45x^6 - 81x^5 + 81x^4 + 351x^3 + 162$ | $x^{12} + 18x^{10} - 24x^9 - 81x^8 - 324x^7 - 1962x^6 + 972x^5 - 4455x^4 + 16524x^3 - 119556x^2 + 73872x + 79056$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^4$ | I: 162,54 | $\frac{349}{162}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|------------------|
| $x^{12} - 279x^{11} - 207x^{10} -$ $213x^9 - 216x^8 - 243x^7 -$ $63x^6 - 243x^5 - 162x^4 -$ $108x^3 + 162$ | $x^{12} - 27x^{10} - 18x^9 + 324x^8 + 432x^7 -$ $1314x^6 - 486x^5 + 11097x^4 + 21384x^3 +$ $17496x^2 + 17496x + 14256$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 5 \\ 2 \end{array} \right]_2^4$ | I: 54,14 | $\frac{115}{54}$ |
| $x^{12} + 117x^{11} - 27x^{10} + 99x^9 -$ $54x^8 + 108x^7 - 27x^6 + 81x^4 -$ $54x^3 - 81$ | $x^{12} - 6x^9 - 54x^6 + 54x^3 + 81$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 5 \\ 2 \end{array} \right]_2^4$ | I: 54,14 | $\frac{115}{54}$ |
| $x^{12} + 306x^{11} - 252x^{10} +$ $120x^9 + 108x^8 + 9x^6 + 162x^5 +$ $162x^4 + 135x^3 + 243x^2 -$ $243x - 324$ | $x^{12} - 36x^{10} - 72x^9 + 486x^8 + 1944x^7 -$ $1080x^6 - 17496x^5 - 26487x^4 +$ $33480x^3 + 148716x^2 + 171072x +$ 70146 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 5 \\ 2 \end{array} \right]_2^4$ | I: 54,14 | $\frac{115}{54}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|------------|-------------------|
| $x^{12} + 153x^{11} - 108x^{10} - 288x^9 - 27x^8 + 27x^7 - 261x^6 - 324x^4 - 243x^3 + 243x - 81$ | $x^{12} - 36x^{10} - 24x^9 + 486x^8 + 648x^7 - 3420x^6 - 5832x^5 + 15633x^4 + 33912x^3 - 40824x^2 - 147744x - 102384$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 5 \\ 2 \end{array} \begin{array}{c} 4 \\ 2 \end{array} \right]_2$ | I: 162, 54 | $\frac{349}{162}$ |
| $x^{12} + 360x^{11} - 180x^{10} - 69x^9 + 27x^8 + 162x^7 + 243x^6 + 243x^5 + 324x^4 - 108x^3 + 243x^2 - 243x + 81$ | $x^{12} - 36x^{10} - 144x^9 + 81x^8 + 2268x^7 + 10170x^6 + 18468x^5 - 567x^4 - 46008x^3 - 40824x^2 - 69984x + 79056$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 5 \\ 2 \end{array} \begin{array}{c} 4 \\ 2 \end{array} \right]_2$ | I: 162, 54 | $\frac{349}{162}$ |
| $x^{12} + 63x^{11} + 162x^{10} - 51x^9 + 135x^8 - 108x^7 - 162x^6 + 243x^5 - 81x^4 - 243x^3 - 243x^2 + 243x + 162$ | $x^{12} - 18x^9 + 9x^6 + 108x^3 + 81$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 5 \\ 2 \end{array} \begin{array}{c} 4 \\ 2 \end{array} \right]_2$ | I: 162, 54 | $\frac{349}{162}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|-------------------|
| $x^{12} + 198x^{11} + 81x^{10} - 129x^9 +$ $189x^8 - 243x^7 + 117x^6 -$ $324x^5 - 243x^4 + 297x^3 +$ $243x^2 - 162$ | $x^{12} - 18x^{10} - 48x^9 - 81x^8 -$ $432x^7 + 522x^6 + 11664x^5 + 47385x^4 +$ $123552x^3 + 207036x^2 + 108864x -$ 180144 | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}^4$ | I: 162, 54 | $\frac{349}{162}$ |
| $x^{12} + 135x^{11} - 243x^{10} +$ $219x^9 - 216x^8 + 81x^7 -$ $243x^6 + 162x^5 - 324x^4 +$ $81x^3 - 243x^2 - 324$ | $x^{12} - 12x^9 - 81x^6 + 432x^3 + 81$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}^4$ | I: 162, 54 | $\frac{349}{162}$ |
| $x^{12} + 279x^{11} + 171x^{10} +$ $357x^9 + 54x^8 + 270x^7 -$ $198x^6 - 162x^5 + 162x^4 +$ $351x^3 - 243x^2 - 243x - 324$ | $x^{12} - 12x^9 - 126x^6 - 108x^3 + 81$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}^4$ | I: 54, 14 | $\frac{115}{54}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|------------|-------------------|
| $x^{12} + 162x^{11} + 360x^{10} -$ $138x^9 + 243x^8 + 189x^7 -$ $297x^6 - 162x^5 - 324x^4 -$ $135x^3 - 243x^2 + 243x + 81$ | $x^{12} + 18x^{10} - 96x^9 - 81x^8 - 1296x^7 +$ $1638x^6 + 3888x^5 + 27945x^4 - 3024x^3 -$ $119556x^2 - 15552x + 130896$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^4$ | I: 162, 54 | $\frac{349}{162}$ |
| $x^{12} + 306x^{11} + 261x^{10} -$ $327x^9 - 108x^8 + 216x^7 -$ $288x^6 - 162x^5 + 162x^4 +$ $81x^3 - 243x + 81$ | $x^{12} - 18x^{10} - 48x^9 - 81x^8 +$ $1188x^7 + 1242x^6 - 2916x^5 - 10935x^4 -$ $33588x^3 + 90396x^2 + 128304x -$ 231984 | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^4$ | I: 162, 54 | $\frac{349}{162}$ |
| $x^{12} + 297x^{11} - 36x^{10} -$ $255x^9 - 216x^8 + 189x^7 +$ $36x^6 - 324x^5 - 243x^4 +$ $270x^3 - 324$ | $x^{12} + 36x^{10} - 12x^9 + 81x^8 - 324x^7 -$ $4410x^6 - 2916x^5 + 5913x^4 - 8316x^3 -$ $17496x^2 + 3888x + 1296$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^4$ | I: 162, 54 | $\frac{349}{162}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|------------------|
| $x^{12} + 324x^{11} + 207x^{10} - 24x^9 +$ $297x^8 - 324x^7 + 270x^6 -$ $81x^5 + 81x^4 + 243x^3 - 243x -$ 324 | $x^{12} - 12x^{10} - 12x^9 + 54x^8 - 58x^6 +$ $432x^4 - 300x^3 + 924x^2 - 216x - 271$ | $\left[\begin{array}{c} 5 \\ 2 \end{array} \right]_2^4$ | I: 6,1 | $\frac{11}{6}$ |
| $x^{12} + 144x^{11} + 261x^{10} -$ $69x^9 + 162x^8 + 324x^7 + 27x^6 +$ $324x^5 + 81x^4 + 297x^3 -$ $243x^2 + 324$ | $x^{12} + 36x^{10} - 48x^9 + 162x^8 - 648x^7 -$ $2304x^6 + 7776x^5 + 729x^4 - 17064x^3 +$ $20412x^2 - 15552x + 7452$ | $\left[\begin{array}{c} 3 \quad 5 \\ 2 \quad 2 \end{array} \right]_2^4$ | I: 54,14 | $\frac{115}{54}$ |
| $x^{12} + 306x^{11} + 135x^{10} +$ $156x^9 + 162x^8 - 135x^7 +$ $117x^6 + 162x^3 - 162$ | $x^{12} - 72x^6 + 648$ | $\left[\begin{array}{c} 3 \quad 5 \\ 2 \quad 2 \end{array} \right]_2^4$ | I: 18,4 | $\frac{37}{18}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|-------------------|
| $x^{12} + 288x^{11} + 54x^{10} -$ $117x^9 - 297x^8 - 216x^7 -$ $144x^6 + 324x^5 - 81x^4 -$ $243x^3 + 243x^2 - 324$ | $x^{12} - 180x^6 + 162$ | $\left[\begin{array}{c} 5 \\ 2 \end{array} \right]_2^4$ | I: 6,1 | $\frac{11}{6}$ |
| $x^{12} + 18x^{11} + 54x^{10} + 18x^9 -$ $81x^8 - 54x^7 + 90x^6 + 81x^5 +$ $81x^4 - 27x^3 + 81$ | $x^{12} - 36x^6 + 162$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^4$ | I: 18,4 | $\frac{37}{18}$ |
| $x^{12} + 3x^{11} + 18x^{10} + 3x^6 +$ $36x^5 + 18$ | $x^{12} - 3x^{10} - 4x^9 - 81x^8 - 216x^7 -$ $171x^6 - 108x^5 - 63x^4 + 368x^3 +$ $864x^2 + 768x + 256$ | $\left[\begin{array}{ccc} 9 & 9 & 9 \\ 4 & 4 & 4 \end{array} \right]_4^4$ | I: 324,164 | $\frac{241}{108}$ |
| $x^{12} - 15x^{11} - 36x^{10} + 21x^9 -$ $36x^8 + 18x^7 + 30x^6 + 9x^5 +$ $18x^3 + 18$ | $x^{12} + 12x^{10} - 6x^9 + 54x^8 - 54x^7 -$ $16x^6 - 162x^5 - 663x^4 - 138x^3 -$ $1116x^2 + 72x + 16$ | $\left[\begin{array}{ccc} 9 & 9 & 9 \\ 4 & 4 & 4 \end{array} \right]_4^4$ | I: 324,164 | $\frac{241}{108}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|------------|-------------------|
| $x^{12} - 27x^{11} + 27x^{10} - 21x^9 - 36x^8 + 18x^7 - 21x^6 - 18x^5 + 27x^4 - 36x^3 + 27x^2 + 27x - 36$ | $x^{12} - 3x^{10} - 16x^9 - 81x^8 + 36x^7 + 9x^6 - 162x^5 + 297x^4 + 332x^3 - 216x^2 - 168x + 16$ | $\left[\begin{array}{c} \frac{9}{4} \\ \frac{9}{4} \\ \frac{9}{4} \\ \frac{9}{4} \end{array} \right]_4^4$ | I: 324,164 | $\frac{241}{108}$ |
| $x^{12} + 6x^{11} + 9x^{10} - 27x^9 - 33x^6 - 27x^4 - 36x^3 - 27x - 9$ | $x^{12} - 12x^{10} - 2x^9 + 54x^8 + 18x^7 - 114x^6 - 54x^5 + 117x^4 + 61x^3 - 54x^2 - 21x + 1$ | $\left[\begin{array}{c} \frac{9}{4} \\ \frac{9}{4} \\ \frac{9}{4} \\ \frac{9}{4} \end{array} \right]_4^4$ | I: 324,164 | $\frac{241}{108}$ |
| $x^{12} - 18x^{11} + 36x^{10} - 30x^9 - 9x^8 - 6x^6 - 36x^5 + 27x^4 - 18x^3 - 27x^2 - 27x - 36$ | $x^{12} + 12x^{10} - 6x^9 + 54x^8 - 54x^7 - 16x^6 - 162x^5 - 663x^4 + 342x^3 - 1116x^2 + 1512x + 2416$ | $\left[\begin{array}{c} \frac{9}{4} \\ \frac{9}{4} \\ \frac{9}{4} \\ \frac{9}{4} \end{array} \right]_4^4$ | I: 324,164 | $\frac{241}{108}$ |
| $x^{12} - 24x^{11} + 15x^9 + 27x^8 + 18x^7 - 9x^6 - 18x^5 - 36x^3 - 27x^2 - 27x + 36$ | $x^{12} - 4x^9 + 18x^8 + 12x^7 + 8x^6 - 36x^5 - 15x^4 + 76x^3 + 72x^2 + 96x + 64$ | $\left[\begin{array}{c} \frac{9}{4} \\ \frac{9}{4} \end{array} \right]_4^2$ | I: 36,9 | $\frac{25}{12}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|------------|-------------------|
| $x^{12} + 27x^{11} - 27x^{10} - 24x^9 + 27x^8 + 36x^7 - 27x^6 + 18x^5 + 27x^3 - 27x^2 + 27x - 18$ | $x^{12} - 16x^9 - 90x^8 - 24x^7 + 188x^6 + 1368x^5 - 1842x^4 - 704x^3 + 720x^2 + 384x - 32$ | $\left[\begin{array}{ccc} 9 & 9 & \\ 4 & 4 & \\ & & 4 \end{array} \right]_4^2$ | I: 36,9 | $\frac{25}{12}$ |
| $x^{12} + 27x^{11} + 18x^{10} + 6x^9 - 63x^8 + 9x^7 - 3x^6 + 54x^5 + 54x^4 - 117x^3 + 54x^2 + 27x - 45$ | $x^{12} + 12x^{10} + 54x^8 + 164x^6 + 417x^4 + 504x^2 + 16$ | $\left[\begin{array}{ccc} 9 & 9 & \\ 4 & 4 & \\ & & 4 \end{array} \right]_4^2$ | I: 36,9 | $\frac{25}{12}$ |
| $x^{12} - 21x^{11} - 36x^{10} - 36x^9 - 18x^8 + 36x^7 - 24x^6 + 36x^5 - 27x^3 + 27x^2 - 27x + 9$ | $x^{12} - 8x^9 - 36x^8 - 48x^7 + 8x^6 + 144x^5 + 273x^4 + 248x^3 + 72x^2 - 96x - 32$ | $\left[\begin{array}{ccc} 5 & 5 & 9 \\ 4 & 4 & 4 \end{array} \right]_4^2$ | I: 324,164 | $\frac{691}{324}$ |
| $x^{12} + 24x^{11} + 27x^{10} + 21x^9 + 36x^8 - 27x^7 - 33x^6 - 18x^5 + 27x^4 - 9x^3 + 27x^2 - 18$ | $x^{12} - 12x^{10} - 16x^9 + 54x^8 + 144x^7 - 84x^6 - 432x^5 - 63x^4 + 752x^3 + 216x^2 - 960x - 752$ | $\left[\begin{array}{ccc} 5 & 5 & 9 \\ 4 & 4 & 4 \end{array} \right]_4^2$ | I: 324,164 | $\frac{691}{324}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|------------|-------------------|
| $x^{12} + 30x^{11} + 36x^{10} - 21x^9 - 27x^8 - 18x^7 + 3x^6 + 18x^5 + 36x^3 - 27x^2 + 27x + 18$ | $x^{12} + 3x^{10} - 48x^9 - 81x^8 - 18x^7 + 491x^6 - 216x^5 - 663x^4 + 2484x^3 - 684x^2 + 3456x - 2384$ | $\left[\begin{array}{c} \frac{9}{4} \\ \frac{9}{4} \\ \frac{9}{4} \\ \frac{9}{4} \end{array} \right]_4^4$ | I: 324,164 | $\frac{241}{108}$ |
| $x^{12} - 39x^{11} - 18x^{10} + 6x^9 - 27x^8 + 27x^7 + 33x^6 - 27x^5 - 27x^4 + 18x^3 - 36$ | $x^{12} - 18x^{10} - 34x^9 - 36x^8 + 84x^7 + 359x^6 - 198x^5 - 303x^4 + 1048x^3 - 576x^2 - 1272x + 496$ | $\left[\begin{array}{c} \frac{9}{4} \\ \frac{9}{4} \\ \frac{9}{4} \\ \frac{9}{4} \end{array} \right]_4^4$ | I: 324,164 | $\frac{241}{108}$ |
| $x^{12} + 12x^{11} + 9x^{10} - 3x^9 + 9x^8 + 9x^7 + 12x^6 + 9x^5 - 9x^3 - 9$ | $x^{12} - 12x^{10} - 8x^9 + 54x^8 + 72x^7 - 144x^6 - 216x^5 + 297x^4 + 424x^3 - 324x^2 - 624x + 496$ | $\left[\begin{array}{c} \frac{9}{4} \\ \frac{9}{4} \\ \frac{9}{4} \\ \frac{9}{4} \end{array} \right]_4^4$ | I: 324,164 | $\frac{241}{108}$ |
| $x^{12} - 24x^{11} + 27x^{10} + 36x^9 + 27x^8 + 9x^7 - 18x^6 - 36x^5 + 27x^4 + 36x^3 + 27x^2 - 27x - 18$ | $x^{12} + 12x^{10} + 54x^8 + 92x^6 - 15x^4 - 144x^2 + 16$ | $\left[\begin{array}{c} \frac{9}{4} \\ \frac{9}{4} \\ \frac{9}{4} \\ \frac{9}{4} \end{array} \right]_4^2$ | I: 36,9 | $\frac{25}{12}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|------------|-------------------|
| $x^{12} + 36x^{11} - 9x^{10} + 33x^9 +$ $27x^8 - 36x^7 - 33x^6 + 27x^5 +$ $36x^3 - 27x^2 + 27x - 18$ | $x^{12} - 2x^9 - 9x^8 + 6x^7 + 2x^6 - 18x^5 +$ $93x^4 - 112x^3 + 72x^2 - 24x + 4$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | I: 36,9 | $\frac{25}{12}$ |
| $x^{12} - 39x^{11} - 27x^{10} + 27x^9 -$ $18x^8 - 18x^7 - 3x^6 - 36x^5 +$ $9x^3 + 27x^2 - 27x + 18$ | $x^{12} - 3x^{10} - 14x^9 - 81x^8 - 126x^7 -$ $51x^6 - 108x^5 - 63x^4 - 92x^3 - 216x^2 +$ $168x + 16$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4^4 \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4^4$ | I: 324,164 | $\frac{241}{108}$ |
| $x^{12} + 12x^{11} - 36x^{10} + 27x^9 -$ $27x^8 + 18x^7 - 21x^6 + 36x^5 -$ $27x^4 - 27x^3 - 27x^2 - 27x + 18$ | $x^{12} - 3x^{10} - 44x^9 - 81x^8 - 126x^7 +$ $489x^6 + 702x^5 + 1557x^4 - 1442x^3 -$ $216x^2 - 3072x + 2416$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4^4 \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4^4$ | I: 324,164 | $\frac{241}{108}$ |
| $x^{12} + 30x^{11} - 9x^{10} + 21x^9 +$ $18x^8 - 36x^6 - 27x^5 + 27x^4 +$ $27x^3 + 27x^2 + 27x - 18$ | $x^{12} - 8x^9 - 90x^8 - 48x^7 - 112x^6 -$ $936x^5 - 159x^4 + 1664x^3 - 144x^2 -$ $960x + 400$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | I: 36,9 | $\frac{25}{12}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|------------|-------------------|
| $x^{12} - 12x^{11} + 27x^{10} + 24x^9 + 9x^8 + 36x^7 + 6x^6 + 36x^5 + 27x^4 + 9x^3 + 27x + 18$ | $x^{12} + 12x^{10} - 6x^9 + 54x^8 - 54x^7 + 104x^6 - 162x^5 + 57x^4 - 138x^3 - 36x^2 + 72x + 16$ | $\left[\begin{array}{c} \frac{9}{4} \\ \frac{9}{4} \\ \frac{9}{4} \\ \frac{9}{4} \end{array} \right]_4^4$ | I: 324,164 | $\frac{241}{108}$ |
| $x^{12} - 9x^{10} - 3x^9 - 9x^8 - 9x^7 + 3x^6 - 9x^5 - 9$ | $x^{12} - 27x^{10} - 18x^9 + 189x^8 + 162x^7 - 279x^6 + 324x^5 + 567x^4 - 3726x^3 - 6804x^2 - 1944x + 1296$ | $\left[\begin{array}{c} \frac{9}{4} \\ \frac{9}{4} \\ \frac{9}{4} \\ \frac{9}{4} \end{array} \right]_4^4$ | I: 324,164 | $\frac{241}{108}$ |
| $x^{12} - 12x^{11} + 27x^{10} + 27x^9 + 27x^8 + 36x^7 - 12x^6 + 18x^5 + 27x^4 + 27x^3 - 27x^2 + 27x + 9$ | $x^{12} - 16x^9 - 36x^8 + 120x^7 - 40x^6 + 504x^5 - 1455x^4 + 256x^3 + 1368x^2 + 672x - 1568$ | $\left[\begin{array}{c} \frac{9}{4} \\ \frac{9}{4} \\ \frac{9}{4} \end{array} \right]_4^2$ | I: 36,9 | $\frac{25}{12}$ |
| $x^{12} - 12x^{11} + 12x^9 - 9x^8 + 6x^6 + 9x^5 + 9x^3 - 9$ | $x^{12} - 12x^{10} - 32x^9 + 54x^8 + 288x^7 + 156x^6 - 864x^5 - 1503x^4 + 736x^3 + 2376x^2 + 384x - 2864$ | $\left[\begin{array}{c} \frac{9}{4} \\ \frac{9}{4} \\ \frac{9}{4} \\ \frac{9}{4} \end{array} \right]_4^4$ | I: 324,164 | $\frac{241}{108}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|------------|-------------------|
| $x^{12} + 30x^{11} + 36x^{10} + 15x^9 +$ $18x^8 + 18x^6 + 9x^5 - 27x^4 -$ $36x^3 - 27x^2 + 27x + 9$ | $x^{12} - 18x^{10} - 2x^9 + 99x^8 + 177x^7 -$ $505x^6 - 1449x^5 + 3648x^4 - 325x^3 -$ $1737x^2 - 4038x + 4804$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4$ $\left[\begin{array}{ccc} 5 & 9 & 9 \\ 4 & 4 & 4 \end{array} \right]_4^2$ | I: 324,164 | $\frac{691}{324}$ |
| $x^{12} - 21x^{11} - 36x^{10} + 9x^8 -$ $9x^7 + 36x^6 + 36x^5 + 27x^4 +$ $27x^3 - 27x^2 - 27x - 18$ | $x^{12} - 19x^9 - 117x^8 - 114x^7 - 271x^6 -$ $1251x^5 - 2346x^4 + 874x^3 - 12591x^2 +$ $3030x + 10180$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4$ $\left[\begin{array}{ccc} 5 & 9 & 9 \\ 4 & 4 & 4 \end{array} \right]_4^2$ | I: 324,164 | $\frac{691}{324}$ |
| $x^{12} + 6x^{11} + 9x^{10} - 24x^9 +$ $18x^8 - 9x^7 + 15x^6 - 18x^5 -$ $27x^4 + 18x^3 - 27x - 9$ | $x^{12} - 18x^{10} - 4x^9 + 99x^8 + 84x^7 -$ $226x^6 - 468x^5 + 417x^4 + 688x^3 -$ $576x^2 - 192x + 256$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4$ $\left[\begin{array}{ccc} 9 & 9 & 9 \\ 4 & 4 & 4 \end{array} \right]_4^4$ | I: 324,164 | $\frac{241}{108}$ |
| $x^{12} - 6x^{11} - 9x^{10} - 12x^9 -$ $9x^8 - 9x^7 - 12x^6 - 9$ | $x^{12} - 12x^{10} - 28x^9 + 54x^8 + 252x^7 +$ $36x^6 - 756x^5 - 783x^4 + 1124x^3 +$ $1296x^2 - 1104x - 2384$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4$ $\left[\begin{array}{ccc} 9 & 9 & 9 \\ 4 & 4 & 4 \end{array} \right]_4^4$ | I: 324,164 | $\frac{241}{108}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|-------------------|
| $x^{12} - 21x^{11} + 27x^{10} + 39x^9 - 18x^7 - 21x^6 + 18x^5 - 27x^4 + 36x^3 + 27x + 36$ | $x^{12} - 16x^9 - 36x^8 + 48x^7 + 32x^6 + 288x^5 - 60x^4 - 608x^3 - 576x^2 + 1536x - 512$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | I: 324,164 | $\frac{691}{324}$ |
| $x^{12} + 6x^{11} + 27x^{10} + 30x^9 - 36x^8 + 9x^7 + 15x^6 - 36x^5 - 27x^4 + 36x^3 + 27x^2 + 27x - 18$ | $x^{12} - 19x^9 - 117x^8 - 114x^7 + 44x^6 + 639x^5 + 1434x^4 - 1541x^3 - 3141x^2 + 3030x - 5$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | I: 324,164 | $\frac{691}{324}$ |
| $x^{12} + 33x^{11} + 39x^9 + 27x^8 + 27x^7 + 15x^6 + 27x^5 - 27x^3 - 27x^2 - 27x - 9$ | $x^{12} - 15x^{10} - 30x^9 + 180x^7 + 470x^6 - 1005x^4 + 1800x^2 - 2000$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^4$ | I: 324,164 | $\frac{241}{108}$ |
| $x^{12} - 30x^{11} - 18x^{10} - 36x^9 - 18x^8 - 9x^7 + 15x^6 + 27x^4 - 9x^3 - 27x + 18$ | $x^{12} - 12x^{10} - 7x^9 + 54x^8 + 63x^7 - 99x^6 - 189x^5 + 27x^4 + 206x^3 + 81x^2 - 51x - 29$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^4$ | I: 324,164 | $\frac{241}{108}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|------------|-------------------|
| $x^{12} + 18x^{11} + 27x^{10} - 27x^9 + 18x^8 + 18x^7 - 15x^6 - 27x^5 - 27x^4 - 27x^2 + 27x - 18$ | $x^{12} + 12x^{10} - 42x^9 + 54x^8 - 378x^7 - 388x^6 - 1134x^5 - 2895x^4 - 1932x^3 - 4464x^2 - 2394x - 89$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | I: 324,164 | $\frac{691}{324}$ |
| $x^{12} + 24x^{11} - 24x^9 + 108x^8 + 27x^7 - 66x^6 - 117x^5 - 54x^4 + 90x^3 + 54x^2 - 72$ | $x^{12} + 12x^{10} - 24x^9 + 54x^8 - 216x^7 + 116x^6 - 648x^5 + 129x^4 - 552x^3 + 72x^2 + 288x + 16$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | I: 324,164 | $\frac{691}{324}$ |
| $x^{12} + 12x^{11} + 9x^{10} - 39x^9 + 27x^8 - 18x^7 - 30x^6 + 36x^5 + 27x^4 - 36x^3 + 27x + 9$ | $x^{12} + 12x^{10} - 24x^9 - 144x^7 - 136x^6 + 432x^5 + 1092x^4 - 1440x^2 - 1152x - 128$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | I: 324,164 | $\frac{691}{324}$ |
| $x^{12} + 24x^{11} - 6x^9 - 18x^8 - 9x^7 - 12x^6 - 9x^5 - 9x^3 + 27x^2 + 27x + 18$ | $x^{12} + 3x^{10} - 12x^9 - 81x^8 - 72x^7 + 11x^6 - 324x^5 - 303x^4 + 516x^3 - 144x^2 - 576x + 256$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^4$ | I: 324,164 | $\frac{241}{108}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|------------|-------------------|
| $x^{12} + 21x^{11} + 54x^{10} - 90x^9 - 90x^8 - 108x^7 + 6x^6 + 9x^5 - 54x^4 - 27x^3 - 27x^2 - 72$ | $x^{12} + 12x^{10} + 54x^8 + 20x^6 - 447x^4 - 384x^3 - 792x^2 - 1152x - 368$ | $\begin{bmatrix} 5 & 5 & 9 \\ 4 & 4 & 4 \end{bmatrix}_4^2$ | I: 324,164 | $\frac{691}{324}$ |
| $x^{12} + 18x^{11} + 18x^{10} - 21x^9 + 36x^7 - 30x^6 - 27x^4 - 36x^3 + 27x + 36$ | $x^{12} + 24x^{10} - 14x^9 + 216x^8 - 252x^7 + 585x^6 - 1512x^5 - 2052x^4 - 728x^3 - 10044x^2 + 13776x + 3271$ | $\begin{bmatrix} 5 & 5 & 9 \\ 4 & 4 & 4 \end{bmatrix}_4^2$ | I: 324,164 | $\frac{691}{324}$ |
| $x^{12} - 39x^{11} + 18x^{10} + 39x^9 + 27x^8 - 27x^7 - 18x^6 + 9x^5 - 27x^4 + 18x^3 - 27x + 36$ | $x^{12} + 12x^{10} - 42x^9 + 54x^8 - 378x^7 + 557x^6 - 1134x^5 + 2775x^4 - 1302x^3 + 4041x^2 - 504x - 8384$ | $\begin{bmatrix} 5 & 5 & 9 \\ 4 & 4 & 4 \end{bmatrix}_4^2$ | I: 324,164 | $\frac{691}{324}$ |
| $x^{12} + 15x^{11} + 9x^{10} + 24x^9 + 18x^8 + 27x^7 + 6x^6 - 36x^5 - 9x^3 + 36$ | $x^{12} - 4x^9 - 36x^8 - 60x^7 - 28x^6 - 36x^5 - 15x^4 + 76x^3 - 36x^2 - 48x - 8$ | $\begin{bmatrix} 9 & 9 \\ 4 & 4 \end{bmatrix}_4^2$ | I: 36,9 | $\frac{25}{12}$ |
| $x^{12} - 3x^{11} + 9x^{10} - 6x^9 - 9x^7 + 9x^6 + 9x^5 + 9$ | $x^{12} + 12x^{10} + 54x^8 + 116x^6 + 129x^4 + 72x^2 + 4$ | $\begin{bmatrix} 9 & 9 \\ 4 & 4 \end{bmatrix}_4^2$ | I: 36,9 | $\frac{25}{12}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-----------------|
| $x^{12} + 3x^{10} + 3$ | $x^{12} - 4x^9 + 54x^8 - 180x^7 + 156x^6 - 540x^5 + 2619x^4 - 2404x^3 + 648x^2 - 5688x + 8842$ | $\begin{bmatrix} 2 & 9 \\ 4 & 4 \end{bmatrix}_4^2$ | T: 12,17 | $\frac{25}{12}$ |
| $x^{12} - 3x^{11} - 6x^{10} + 9x^7 + 12x^6 - 9x^5 + 9x^3 - 9x^2 + 9x + 6$ | $x^{12} - 4x^9 + 6x^6 - 4x^3 - 2$ | $\begin{bmatrix} 2 & 2 & 9 \\ 3 & 2 & 9 \\ 4 & 4 & 4 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} + 12x^{11} + 6x^{10} + 12x^9 + 9x^7 + 6x^6 + 9x^5 - 9x^4 - 3x^3 + 9x + 3$ | $x^{12} - 12x^{10} - 16x^9 + 54x^8 + 144x^7 - 132x^6 - 432x^5 + 225x^4 + 776x^3 - 216x^2 - 1032x + 3241$ | $\begin{bmatrix} 2 & 2 & 9 \\ 3 & 2 & 9 \\ 4 & 4 & 4 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} - 3x^{11} + 12x^{10} - 12x^9 + 9x^7 - 9x^6 + 9x^4 + 6x^3 - 9x^2 - 9x + 6$ | $x^{12} - 8x^9 + 6x^6 - 8x^3 + 1$ | $\begin{bmatrix} 2 & 9 \\ 4 & 4 \end{bmatrix}_4^2$ | T: 12,17 | $\frac{25}{12}$ |
| $x^{12} - 3x^{11} + 12x^{10} + 9x^7 - 6x^6 + 6x^3 + 9x^2 - 12$ | $x^{12} + 36x^{10} - 30x^9 + 486x^8 - 810x^7 + 3222x^6 - 7290x^5 + 12069x^4 - 24030x^3 + 24786x^2 - 19440x + 13500$ | $\begin{bmatrix} 2 & 2 & 9 \\ 3 & 2 & 9 \\ 4 & 4 & 4 \end{bmatrix}_4^2$ | T: 12,72 | $\frac{77}{36}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{12} + 12x^{10} + 6x^9 - 12x^6 - 9x^5 + 9x^4 - 3x^3 + 9x + 12$ | $x^{12} - 4x^9 + 18x^6 - 7x^3 + 49$ | $\begin{bmatrix} 3 & 2 & \frac{9}{4} \\ 2 & & \frac{9}{4} \end{bmatrix}_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} + 3x^{11} + 6x^{10} + 6x^9 + 9x^8 - 9x^7 - 3x^6 - 9x^5 + 12x^3 + 9x + 12$ | $x^{12} - 12x^{10} + 54x^8 - 60x^6 - 207x^4 + 432x^2 + 192$ | $\begin{bmatrix} \frac{9}{4} & \frac{9}{4} \\ \frac{9}{4} & \frac{9}{4} \end{bmatrix}_4^2$ | T: 12,17 | $\frac{25}{12}$ |
| $x^{12} - 12x^{11} + 12x^{10} + 3x^9 + 9x^8 + 9x^7 - 9x^6 + 9x^5 + 3x^3 + 9x^2 - 9x + 6$ | $x^{12} - 2x^9 + 12x^6 + 10x^3 + 1$ | $\begin{bmatrix} 2 & \frac{9}{4} \\ \frac{9}{4} & \frac{9}{4} \end{bmatrix}_4^2$ | T: 12,73 | $\frac{235}{108}$ |
| $x^{12} + 3x^{11} - 3x^{10} - 3x^9 - 3x^3 + 3$ | $x^{12} - 12x^{10} - 6x^9 + 54x^8 + 54x^7 - 90x^6 - 162x^5 - 27x^4 + 138x^3 + 162x^2 + 72x + 12$ | $\begin{bmatrix} 2 & \frac{9}{4} \\ \frac{9}{4} & \frac{9}{4} \end{bmatrix}_4^2$ | T: 12,73 | $\frac{235}{108}$ |
| $x^{12} + 12x^{11} - 6x^{10} + 3x^9 - 9x^8 - 9x^7 - 9x^6 - 9x^4 - 3x^3 - 9x^2 - 9x - 12$ | $x^{12} - 8x^9 + 42x^6 - 20x^3 - 2$ | $\begin{bmatrix} 3 & 2 & \frac{9}{4} \\ 2 & & \frac{9}{4} \end{bmatrix}_4^2$ | T: 12,131 | $\frac{79}{36}$ |
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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{12} + 3x^{11} + 12x^{10} + 9x^9 -$ $9x^8 - 9x^7 - 9x^6 - 9x^4 - 6x^3 -$ $9x^2 + 9x - 3$ | $x^{12} - 2x^9 - 12x^6 - 8x^3 - 2$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | T: 12,72 | $\frac{77}{36}$ |
| $x^{12} - 12x^{11} - 12x^{10} - 12x^9 -$ $9x^7 + 3x^6 - 9x^5 - 9x^3 + 9x - 12$ | $x^{12} - 42x^{10} - 28x^9 + 567x^8 + 756x^7 -$ $2478x^6 - 5292x^5 + 441x^4 + 9800x^3 +$ $15876x^2 + 11760x + 784$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | T: 12,73 | $\frac{235}{108}$ |
| $x^{12} - 9x^{11} - 12x^{10} - 6x^9 -$ $9x^8 - 9x^7 - 9x^6 + 9x^5 - 6x^3 +$ 12 | $x^{12} + 12x^{10} - 8x^9 + 54x^8 - 72x^7 +$ $12x^6 - 216x^5 - 495x^4 + 232x^3 -$ $864x^2 + 1344x - 1199$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} + 9x^{11} - 12x^{10} - 12x^9 -$ $9x^7 + 3x^6 - 12x^3 + 9x + 3$ | $x^{12} - 6x^{10} - 14x^9 + 27x^8 + 90x^7 +$ $18x^6 - 270x^5 - 333x^4 + 262x^3 +$ $999x^2 + 1002x + 367$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | T: 12,73 | $\frac{235}{108}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-----------------|
| $x^{12} - 12x^{10} + 3x^9 - 9x^7 + 9x^6 + 9x^5 - 9x^4 + 6x^3 - 12$ | $x^{12} - 42x^{10} - 28x^9 + 756x^8 + 756x^7 - 10920x^6 - 31752x^5 + 24696x^4 + 270872x^3 + 550368x^2 + 477456x + 127792$ | $\left[\begin{smallmatrix} 3 & 2 & \frac{9}{4} \\ 2 & & 4 \end{smallmatrix} \right]_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} - 6x^{11} - 6x^{10} + 3x^9 + 9x^8 - 9x^7 + 9x^6 + 9x^5 - 9x^4 - 6x^3 + 12$ | $x^{12} - 20x^9 + 114x^6 + 28x^3 + 49$ | $\left[\begin{smallmatrix} 3 & 2 & \frac{9}{4} \\ 2 & & 4 \end{smallmatrix} \right]_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} + 6x^{11} - 12x^{10} + 6x^9 - 9x^8 - 9x^7 - 9x^6 - 9x^5 - 9x^4 - 3x^3 + 9x + 6$ | $x^{12} + 12x^{10} - x^9 + 54x^8 - 9x^7 + 120x^6 - 27x^5 + 153x^4 - 31x^3 + 108x^2 - 12x + 16$ | $\left[\begin{smallmatrix} 3 & 2 & \frac{9}{4} \\ 2 & & 4 \end{smallmatrix} \right]_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} - 9x^{11} - 12x^{10} + 12x^9 - 9x^7 - 12x^6 + 9x^4 + 3x^3 - 9x^2 + 6$ | $x^{12} - 12x^{10} - 12x^9 + 54x^8 + 108x^7 - 42x^6 - 108x^5 + 315x^4 + 168x^3 - 162x^2 + 108x + 159$ | $\left[\begin{smallmatrix} 3 & 2 & \frac{9}{4} \\ 2 & & 4 \end{smallmatrix} \right]_4^2$ | T: 12,131 | $\frac{79}{36}$ |
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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{12} + 12x^{11} - 12x^{10} + 3x^9 + 9x^8 + 9x^7 + 3x^6 + 9x^5 - 9x^4 - 9x^3 + 9x^2 - 9x - 12$ | $x^{12} + 6x^{10} - 4x^9 - 54x^8 + 324x^7 - 549x^6 - 756x^5 - 252x^4 + 2996x^3 + 4158x^2 - 4830x - 2975$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 9 \\ 9 \\ 4 \\ 4 \end{array} \right]_4^2$ | T: 12,73 | $\frac{235}{108}$ |
| $x^{12} + 9x^{11} + 12x^{10} - 9x^9 - 9x^8 + 9x^7 - 12x^6 - 9x^4 - 9x^3 + 9x - 6$ | $x^{12} - 5x^9 - 6x^6 + 28x^3 + 49$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 9 \\ 9 \\ 4 \\ 4 \end{array} \right]_4^6$ | T: 12,72 | $\frac{77}{36}$ |
| $x^{12} - 9x^{11} + 12x^{10} - 9x^8 - 9x^7 - 9x^5 + 9x^4 + 6x^3 + 9x^2 - 9x + 3$ | $x^{12} - 4x^9 + 18x^6 - 16x^3 + 4$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 2 \\ 2 \\ 9 \\ 9 \\ 4 \\ 4 \end{array} \right]_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} + 9x^{11} - 12x^{10} - 12x^9 + 9x^8 - 9x^7 + 6x^6 - 9x^5 + 9x^4 - 12x^3 - 9x - 12$ | $x^{12} + 30x^{10} - 40x^9 + 405x^8 - 720x^7 + 3360x^6 - 5400x^5 + 15300x^4 - 14800x^3 + 37800x^2 - 4800x + 13600$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 2 \\ 2 \\ 9 \\ 9 \\ 4 \\ 4 \end{array} \right]_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-----------------|
| $x^{12} - 3x^{11} - 6x^{10} + 6x^9 - 9x^8 + 3x^6 + 9x^5 + 9x^4 + 12x^3 - 9x^2 + 9x + 12$ | $x^{12} - 74x^9 + 1386x^6 - 644x^3 + 1372$ | $\left[\begin{smallmatrix} 3 & 9 & 9 \\ 2 & 4 & 4 \end{smallmatrix} \right]_4^6$ | T: 12,72 | $\frac{77}{36}$ |
| $x^{12} + 9x^{11} + 3x^{10} + 6x^9 - 9x^8 - 6x^6 - 9x^4 - 12x^3 - 9x^2 + 9x + 3$ | $x^{12} - x^9 + 3x^6 - 7x^3 + 7$ | $\left[\begin{smallmatrix} 3 & 2 & 9 \\ 2 & 4 & 4 \end{smallmatrix} \right]_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} - 12x^{11} - 6x^{10} - 3x^9 + 9x^8 + 12x^6 + 9x^5 - 9x^4 + 12x^3 + 9x^2 + 12$ | $x^{12} - 2x^9 + 6x^6 - 2x^3 + 1$ | $\left[\begin{smallmatrix} 9 & 9 \\ 4 & 4 \end{smallmatrix} \right]_4^2$ | T: 12,17 | $\frac{25}{12}$ |
| $x^{12} - 6x^{11} + 3x^{10} - 12x^9 - 9x^7 - 9x^5 - 9x^4 - 6x^3 + 9x^2 - 9x - 12$ | $x^{12} - 2x^9 - 2x^3 + 1$ | $\left[\begin{smallmatrix} 9 & 9 \\ 4 & 4 \end{smallmatrix} \right]_4^2$ | T: 12,17 | $\frac{25}{12}$ |
| $x^{12} - 3x^{11} + 3x^{10} - 6x^9 - 9x^8 - 9x^7 - 6x^6 + 9x^4 - 12x^3 - 9x^2 - 9x - 3$ | $x^{12} + 12x^{10} + 54x^8 + 132x^6 + 225x^4 + 216x^2 + 96$ | $\left[\begin{smallmatrix} 9 & 9 \\ 4 & 4 \end{smallmatrix} \right]_4^2$ | T: 12,17 | $\frac{25}{12}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{12} + 12x^{11} + 6x^{10} - 6x^6 - 9x^5 + 9x^4 - 9x^2 - 9x + 6$ | $x^{12} - 42x^{10} - 98x^9 - 378x^8 - 504x^7 + 6006x^6 + 37044x^5 + 165816x^4 + 382396x^3 + 370440x^2 + 189336x + 116620$ | $\begin{bmatrix} 3 & 2 & 2 & 2 \\ 2 & 4 & 4 & 4 \end{bmatrix}^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} + 3x^{10} - 3x^6 - 3x^3 - 3$ | $x^{12} + 12x^{10} - 12x^9 + 54x^8 - 108x^7 + 36x^6 - 324x^5 - 351x^4 - 1524x^3 - 648x^2 - 3600x - 5232$ | $\begin{bmatrix} 3 & 2 & 2 & 2 \\ 2 & 4 & 4 & 4 \end{bmatrix}^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} - 12x^{11} - 6x^{10} + 12x^9 + 9x^8 + 9x^7 + 12x^6 + 9x^5 + 9x + 6$ | $x^{12} - 2x^9 + 6x^6 - 5x^3 + 1$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ 4 & 4 & 4 & 4 \end{bmatrix}^2$ | T: 12,73 | $\frac{235}{108}$ |
| $x^{12} + 6x^{11} - 6x^{10} + 3x^9 - 9x^5 + 9x^4 + 9x^3 - 9x^2 - 9x - 12$ | $x^{12} - 2x^9 + 4x^3 - 2$ | $\begin{bmatrix} 3 & 2 & 2 & 2 \\ 2 & 4 & 4 & 4 \end{bmatrix}^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} - 9x^{11} - 12x^{10} + 9x^9 - 9x^8 - 9x^7 - 12x^6 - 9x^5 + 9x^4 + 12x^3 + 6$ | $x^{12} + 12x^{10} - 8x^9 + 54x^8 - 72x^7 + 132x^6 - 216x^5 + 225x^4 - 260x^3 + 216x^2 - 132x + 73$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ 4 & 4 & 4 & 4 \end{bmatrix}^2$ | T: 12,73 | $\frac{235}{108}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{12} + 12x^{10} + 9x^9 + 9x^8 - 9x^7 - 9x^4 - 12x^3 - 9x^2 + 9x + 12$ | $x^{12} - 10x^9 + 51x^6 + 14x^3 + 1$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} \\ & & \frac{9}{4} \end{bmatrix}_4^2$ | T: 12,73 | $\frac{235}{108}$ |
| $x^{12} + 3x^{11} + 3x^{10} - 12x^9 + 9x^8 - 9x^7 - 9x^6 - 9x^5 - 9x^4 - 12x^3 + 9x^2 + 9x - 6$ | $x^{12} - 4x^9 + 6x^6 - 7x^3 + 7$ | $\begin{bmatrix} \frac{3}{2} & \frac{9}{4} & \frac{9}{4} \\ & & \frac{9}{4} \end{bmatrix}_4^6$ | T: 12,72 | $\frac{77}{36}$ |
| $x^{12} + 3x^{11} + 3x^{10} - 3x^9 + 9x^8 - 9x^6 - 9x^4 - 3x^3 + 9x^2 + 12$ | $x^{12} - 4x^9 + 12x^6 + 8x^3 + 4$ | $\begin{bmatrix} \frac{3}{2} & \frac{9}{4} & \frac{9}{4} \\ & & \frac{9}{4} \end{bmatrix}_4^2$ | T: 12,72 | $\frac{77}{36}$ |
| $x^{12} - 6x^{10} - 12x^9 + 9x^8 + 9x^7 - 3x^6 - 9x^4 + 3x^3 + 9x + 6$ | $x^{12} - 2x^9 + 6x^6 - 5x^3 - 8$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} \\ & & \frac{9}{4} \end{bmatrix}_4^2$ | T: 12,73 | $\frac{235}{108}$ |
| $x^{12} + 9x^{11} - 12x^{10} - 3x^9 + 9x^7 - 9x^6 - 9x^5 - 9x^4 + 12x^3 + 12$ | $x^{12} + 12x^{10} - 26x^9 + 54x^8 - 234x^7 + 180x^6 - 702x^5 + 513x^4 - 134x^3 + 648x^2 + 1704x + 1552$ | $\begin{bmatrix} \frac{3}{2} & 2 & \frac{9}{4} \\ & & \frac{9}{4} \end{bmatrix}_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| 12 | | | | |

Continued on next page

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{12} - 12x^{11} + 6x^{10} - 3x^9 + 3x^6 - 9x^3 - 9x^2 + 9x + 3$ | $x^{12} + 12x^{10} - 22x^9 + 54x^8 - 198x^7 + 42x^6 - 594x^5 - 315x^4 - 652x^3 - 594x^2 - 174x - 59$ | $\begin{bmatrix} 3 & 2 & \frac{9}{4} \\ 2 & & \frac{9}{4} \end{bmatrix}_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} + 6x^{11} - 3x^{10} + 12x^9 + 9x^8 + 6x^6 + 9x^5 + 9x^4 + 9x^3 + 9x^2 - 9x - 3$ | $x^{12} + 30x^{10} - 20x^9 + 405x^8 - 180x^7 + 3135x^6 + 10800x^4 + 5200x^3 + 24300x^2 + 4800x + 37600$ | $\begin{bmatrix} 3 & 2 & \frac{9}{4} \\ 2 & & \frac{9}{4} \end{bmatrix}_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} + 12x^{11} + 12x^{10} + 3x^9 + 9x^7 - 9x^6 - 9x^5 + 9x^4 + 6x^3 + 9x^2 - 9x + 3$ | $x^{12} - 36x^{10} - 40x^9 + 486x^8 + 1080x^7 - 2076x^6 - 9720x^5 - 8559x^4 + 81800x^3 + 68040x^2 - 473760x + 1400080$ | $\begin{bmatrix} 3 & \frac{9}{4} \\ 2 & \frac{9}{4} \end{bmatrix}_4^2$ | T: 12,72 | $\frac{77}{36}$ |
| $x^{12} + 3x^{11} + 3x^{10} + 9x^7 + 12x^6 - 9x^5 - 9x^3 + 9x^2 + 9x + 12$ | $x^{12} - 7x^9 + 21x^6 - 49x^3 + 343$ | $\begin{bmatrix} 2 & \frac{9}{4} \\ 2 & \frac{9}{4} \end{bmatrix}_4^2$ | T: 12,73 | $\frac{235}{108}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-----------------|
| $x^{12} + 9x^{11} + 3x^{10} - 12x^9 + 9x^7 - 6x^6 - 9x^5 + 12x^3 + 9x^2 - 9x - 6$ | $x^{12} - 8x^9 + 18x^6 - 8x^3 + 4$ | $\begin{bmatrix} 3 & 2 & 2 & 2 \\ 2 & 4 & 4 & 4 \end{bmatrix}^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} - 9x^{11} + 12x^{10} + 3x^9 - 9x^8 - 9x^6 - 9x^4 - 3x^3 - 9x^2 + 9x + 12$ | $x^{12} - 40x^9 + 1428x^6 - 2632x^3 + 1372$ | $\begin{bmatrix} 3 & 2 & 2 & 2 \\ 2 & 4 & 4 & 4 \end{bmatrix}^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} - 12x^{11} + 6x^{10} + 12x^9 + 9x^8 + 9x^7 - 9x^6 - 9x^5 - 3x^3 - 12$ | $x^{12} + 6x^{10} - 24x^9 - 54x^8 + 180x^7 - 360x^6 - 756x^5 - 1512x^4 - 840x^3 + 6804x^2 - 2100$ | $\begin{bmatrix} 3 & 2 & 2 & 2 \\ 2 & 4 & 4 & 4 \end{bmatrix}^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} + 12x^{10} + 9x^9 + 9x^8 - 9x^7 - 12x^6 + 9x^4 - 3x^3 + 9x^2 - 6$ | $x^{12} - 2x^9 - 42x^6 + 196x^3 + 1372$ | $\begin{bmatrix} 3 & 2 & 2 & 2 \\ 2 & 4 & 4 & 4 \end{bmatrix}^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} + 6x^{11} - 12x^{10} + 9x^9 + 9x^7 - 9x^6 + 9x^4 - 3x^3 + 9x + 3$ | $x^{12} + 12x^{10} - 4x^9 + 54x^8 - 36x^7 + 120x^6 - 108x^5 + 153x^4 - 148x^3 + 108x^2 - 120x + 52$ | $\begin{bmatrix} 9 & 2 \\ 4 & 4 \end{bmatrix}^2$ | T: 12,17 | $\frac{25}{12}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{12} + 3x^{10} + 3x^9 + 3x^6 - 3$ | $x^{12} - 8x^9 - 6x^6 + 4x^3 - 2$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | T: 12,72 | $\frac{77}{36}$ |
| $x^{12} - 6x^{11} - 12x^{10} + 12x^9 - 9x^8 + 9x^6 + 9x^5 - 6x^3 - 9x^2 - 9x - 6$ | $x^{12} + 6x^{10} - 2x^9 + 54x^8 - 108x^7 + 183x^6 - 378x^5 + 783x^4 - 2198x^3 + 3348x^2 - 2424x + 784$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | T: 12,72 | $\frac{77}{36}$ |
| $x^{12} - 12x^{10} + 9x^8 + 12x^6 + 9x^4 - 3x^3 + 9x^2 + 3$ | $x^{12} + 12x^{10} - x^9 + 54x^8 - 9x^7 + 114x^6 - 27x^5 + 117x^4 - 31x^3 + 54x^2 - 12x + 1$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | T: 12,73 | $\frac{235}{108}$ |
| $x^{12} + 6x^{10} + 6x^9 + 9x^8 - 9x^7 + 9x^5 + 9x^4 + 6x^3 + 9x^2 - 9x - 3$ | $x^{12} + 12x^{10} - 4x^9 + 54x^8 - 36x^7 + 120x^6 - 108x^5 + 153x^4 - 124x^3 + 108x^2 - 48x + 31$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} - 12x^{10} - 9x^8 - 9x^7 - 6x^6 - 9x^5 - 6x^3 - 12$ | $x^{12} - 12x^{10} - 12x^9 + 54x^8 + 108x^7 - 66x^6 - 324x^5 - 171x^4 + 384x^3 + 378x^2 - 180x - 39$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | T: 12,73 | $\frac{235}{108}$ |
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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{12} + 12x^{11} + 3x^{10} + 3x^9 + 9x^8 - 9x^7 - 9x^6 + 9x^5 + 9x^4 - 3x^3 + 9x^2 + 9x + 6$ | $x^{12} - 8x^9 + 12x^6 - 8x^3 + 4$ | $\begin{bmatrix} 3 & 2 & \frac{9}{4} \\ 2 & & \frac{9}{4} \end{bmatrix}_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} - 12x^{10} + 6x^9 - 9x^6 + 9x^5 - 9x^4 - 9x^3 - 9x + 6$ | $x^{12} - 12x^{10} + 54x^8 - 108x^6 + 567x^4 - 648x^3 + 324x^2 - 72x + 6$ | $\begin{bmatrix} 3 & 2 & \frac{9}{4} \\ 2 & & \frac{9}{4} \end{bmatrix}_4^2$ | T: 12,72 | $\frac{77}{36}$ |
| $x^{12} + 6x^{11} + 3x^{10} + 3x^9 + 9x^8 + 9x^6 + 9x^5 + 9x^3 - 9x^2 + 9x - 6$ | $x^{12} - 28x^9 + 252x^6 - 784x^3 + 1372$ | $\begin{bmatrix} 3 & 2 & \frac{9}{4} \\ 2 & & \frac{9}{4} \end{bmatrix}_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} + 12x^{10} + 9x^9 + 9x^7 - 3x^6 + 9x^5 - 12x^3 + 9x - 6$ | $x^{12} - 56x^9 + 1008x^6 - 6272x^3 + 21952$ | $\begin{bmatrix} 2 & 2 & \frac{9}{4} \\ 2 & & \frac{9}{4} \end{bmatrix}_4^2$ | T: 12,73 | $\frac{235}{108}$ |
| $x^{12} + 6x^{10} - 3x^9 + 9x^8 - 9x^5 + 3x^3 + 9x^2 - 12$ | $x^{12} - 42x^{10} - 140x^9 - 378x^8 + 1008x^7 + 9576x^6 + 26460x^5 + 116424x^4 + 321832x^3 + 312228x^2 + 196392x + 260092$ | $\begin{bmatrix} 3 & 2 & \frac{9}{4} \\ 2 & & \frac{9}{4} \end{bmatrix}_4^2$ | T: 12,131 | $\frac{79}{36}$ |
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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{12} - 6x^{11} - 12x^{10} - 12x^9 - 9x^8 + 9x^7 - 6x^6 - 9x^5 + 9x^4 + 9x^3 - 9x - 12$ | $x^{12} - 30x^{10} - 60x^9 + 162x^8 + 648x^7 - 24x^6 - 2268x^5 - 1512x^4 + 1176x^3 + 3780x^2 + 8568x + 4956$ | $\begin{bmatrix} 3 & 2 & \frac{9}{4} \\ 2 & & \frac{9}{4} \end{bmatrix}_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} - 9x^{11} + 6x^{10} - 9x^9 + 9x^7 + 12x^6 - 9x^4 - 9x^2 - 12$ | $x^{12} - 12x^{10} + 54x^8 - 108x^6 + 81x^4 - 12$ | $\begin{bmatrix} \frac{9}{4} & \frac{9}{4} \\ & \frac{9}{4} \end{bmatrix}_4^2$ | T: 12,17 | $\frac{25}{12}$ |
| $x^{12} - 9x^{11} - 12x^{10} + 3x^9 - 9x^7 - 3x^6 + 9x^5 + 6x^3 - 9x^2 + 9x + 6$ | $x^{12} - 42x^{10} - 28x^9 + 756x^8 + 1008x^7 - 10332x^6 - 31752x^5 + 28224x^4 + 281456x^3 + 550368x^2 + 477456x + 160720$ | $\begin{bmatrix} 3 & 2 & \frac{9}{4} \\ 2 & & \frac{9}{4} \end{bmatrix}_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} - 9x^{11} + 6x^{10} + 12x^9 - 9x^8 + 9x^7 - 12x^6 + 9x^5 + 6x^3 - 9x^2 - 9x - 3$ | $x^{12} - 42x^{10} - 14x^9 + 567x^8 + 252x^7 - 2856x^6 + 6615x^4 - 3920x^3 - 1323x^2 + 12936x - 2891$ | $\begin{bmatrix} 2 & \frac{9}{4} \\ & \frac{9}{4} \end{bmatrix}_4^2$ | T: 12,73 | $\frac{235}{108}$ |
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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{12} + 3x^{11} + 6x^{10} - 9x^9 - 9x^8 +$ $9x^7 - 9x^6 - 9x^4 - 6x^3 + 12$ | $x^{12} + 12x^{10} - 82x^9 + 54x^8 - 738x^7 +$ $336x^6 - 2214x^5 + 1449x^4 - 2470x^3 +$ $2052x^2 - 768x + 256$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | T: 12,72 | $\frac{77}{36}$ |
| $x^{12} + 9x^{11} - 6x^{10} + 12x^9 -$ $9x^8 - 6x^6 - 9x^5 + 3x^3 + 9x^2 +$ 12 | $x^{12} - 24x^9 + 378x^6 - 3024x^3 + 9261$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | T: 12,73 | $\frac{235}{108}$ |
| $x^{12} - 3x^{11} + 6x^{10} + 6x^9 + 9x^8 +$ $6x^6 + 9x^5 - 9x^3 + 9x^2 + 3$ | $x^{12} + 12x^{10} - 2x^9 + 54x^8 - 18x^7 +$ $42x^6 - 54x^5 - 315x^4 + 268x^3 - 594x^2 +$ $966x - 539$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} - 12x^{11} + 6x^{10} + 12x^9 -$ $3x^6 + 9x^4 + 6x^3 - 9x^2 - 12$ | $x^{12} - 21x^{10} - 21x^9 + 189x^8 + 189x^7 -$ $1113x^6 + 3087x^4 - 1176x^3 - 2646x^2 +$ $3087x + 2499$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | T: 12,73 | $\frac{235}{108}$ |
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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{12} - 12x^{10} - 6x^9 + 9x^8 - 9x^7 + 9x^6 - 9x^5 + 9x^4 - 12x^3 + 9x^2 + 9x + 12$ | $x^{12} + 12x^{10} - 22x^9 + 54x^8 - 198x^7 - 288x^6 - 594x^5 - 2295x^4 - 2002x^3 - 3564x^2 - 4224x + 22528$ | $\begin{bmatrix} 3 & 2 & 2 & 2 \\ 2 & 4 & 4 & 4 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} + 6x^{11} - 6x^{10} + 9x^9 - 9x^8 + 3x^6 + 9x^5 + 9x^3 - 9x^2 - 9x - 6$ | $x^{12} - 2x^9 + 3x^6 + 4x^3 + 1$ | $\begin{bmatrix} 2 & 2 & 2 \\ 4 & 4 & 4 \end{bmatrix}_4^2$ | T: 12,73 | $\frac{235}{108}$ |
| $x^{12} - 9x^{11} - 6x^{10} - 12x^9 - 9x^4 + 12x^3 + 9x + 3$ | $x^{12} - 14x^9 + 84x^6 - 245x^3 + 343$ | $\begin{bmatrix} 2 & 2 & 2 \\ 4 & 4 & 4 \end{bmatrix}_4^2$ | T: 12,73 | $\frac{235}{108}$ |
| $x^{12} + 9x^{11} - 6x^{10} - 12x^9 + 9x^8 - 9x^7 - 9x^6 + 9x^5 + 9x^4 + 3x^3 - 9x^2 - 9x - 6$ | $x^{12} - 4x^9 + 123x^6 - 112x^3 + 49$ | $\begin{bmatrix} 3 & 2 & 2 & 2 \\ 2 & 4 & 4 & 4 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} - 9x^{11} + 6x^{10} - 9x^9 - 9x^8 - 9x^7 + 12x^6 - 9x^4 - 12x^3 - 9x^2 - 12$ | $x^{12} + 6x^{10} - 32x^9 - 54x^8 + 198x^7 - 486x^6 + 1512x^5 - 1638x^4 - 4508x^3 + 9450x^2 - 3234x + 301$ | $\begin{bmatrix} 2 & 2 & 2 \\ 4 & 4 & 4 \end{bmatrix}_4^2$ | T: 12,73 | $\frac{235}{108}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-----------------|
| $x^{12} - 12x^{10} + 9x^9 + 9x^8 - 9x^7 + 6x^6 - 6x^3 - 9x^2 + 9x - 12$ | $x^{12} - 42x^{10} - 112x^9 - 378x^8 - 1512x^7 + 4368x^6 + 47628x^5 + 201096x^4 + 544880x^3 + 926100x^2 + 1094856x + 692860$ | $\begin{bmatrix} 3 & 2 & 2 & 2 \\ 2 & 4 & 4 & 4 \end{bmatrix}^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} + 12x^{11} + 12x^{10} + 3x^9 - 9x^8 - 6x^6 + 9x^4 + 9x^3 + 12$ | $x^{12} - 5x^9 + 12x^6 - 14x^3 + 7$ | $\begin{bmatrix} 3 & 2 & 2 & 2 \\ 2 & 4 & 4 & 4 \end{bmatrix}^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} + 6x^{11} + 12x^{10} + 9x^8 - 9x^7 - 6x^6 + 9x^3 + 9x + 3$ | $x^{12} - 36x^{10} - 116x^9 + 486x^8 + 3132x^7 + 1710x^6 - 28188x^5 - 76707x^4 - 872x^3 + 374706x^2 + 768924x + 1306201$ | $\begin{bmatrix} 3 & 2 & 2 & 2 \\ 2 & 4 & 4 & 4 \end{bmatrix}^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} - 6x^{10} + 12x^9 + 9x^7 + 12x^6 + 9x^5 - 9x^4 + 6x^3 + 3$ | $x^{12} - 34x^9 + 1302x^6 + 1988x^3 + 1372$ | $\begin{bmatrix} 3 & 2 & 2 & 2 \\ 2 & 4 & 4 & 4 \end{bmatrix}^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} - 12x^{11} - 3x^{10} + 6x^9 + 9x^7 + 6x^6 - 9x^5 - 9x^4 + 6x^3 + 9x^2 + 9x - 6$ | $x^{12} + 12x^{10} - 2x^9 + 54x^8 - 18x^7 + 114x^6 - 54x^5 + 117x^4 - 62x^3 + 54x^2 - 24x + 4$ | $\begin{bmatrix} 9 & 2 & 2 & 2 \\ 4 & 4 & 4 & 4 \end{bmatrix}^2$ | T: 12,17 | $\frac{25}{12}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{12} + 9x^{11} - 12x^{10} + 3x^9 - 9x^8 + 9x^7 - 12x^6 + 9x^5 - 9x^4 - 9x^2 + 9x + 12$ | $x^{12} - 57x^{10} - 76x^9 + 918x^8 + 2232x^7 - 1878x^6 - 4887x^5 + 11979x^4 + 1901x^3 - 46602x^2 + 291x + 53197$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | T: 12,72 | $\frac{77}{36}$ |
| $x^{12} + 12x^{11} + 12x^{10} - 6x^9 + 9x^7 + 12x^3 - 9x^2 + 12$ | $x^{12} - 8x^9 + 84x^6 - 392x^3 + 1372$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 2 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} + 3x^{11} + 6x^{10} + 3x^9 + 9x^8 + 9x^7 + 9x^6 - 9x^4 + 6x^3 + 9x^2 + 9x - 12$ | $x^{12} - 30x^{10} - 42x^9 + 162x^8 + 504x^7 - 378x^6 - 3024x^5 - 1764x^4 + 7308x^3 + 14364x^2 + 10584x + 2940$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^6$ | T: 12,72 | $\frac{77}{36}$ |
| $x^{12} + 3x^{11} - 6x^{10} + 6x^9 - 9x^7 + 12x^6 - 9x^5 - 9x^4 - 9x^3 + 12$ | $x^{12} - 12x^{10} - 4x^9 + 54x^8 + 36x^7 - 78x^6 - 108x^5 - 99x^4 + 200x^3 + 270x^2 - 276x + 241$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | T: 12,73 | $\frac{235}{108}$ |
| $x^{12} - 6x^{11} + 3x^{10} + 12x^9 + 9x^8 - 3x^6 - 9x^5 - 9x^2 + 9x + 6$ | $x^{12} + 12x^{10} - 72x^9 + 54x^8 - 648x^7 + 36x^6 - 1944x^5 - 351x^4 - 2424x^3 - 648x^2 - 1440x - 192$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 2 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-----------------|
| $x^{12} + 3x^{11} + 12x^{10} - 3x^9 - 6x^6 + 9x^5 - 9x^4 - 9x - 6$ | $x^{12} - 14x^9 + 126x^6 + 196x^3 + 1372$ | $\begin{bmatrix} 3 & 2 & \frac{9}{4} \\ 2 & & \frac{9}{4} \end{bmatrix}_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} - 3x^{11} + 6x^{10} - 12x^9 - 9x^8 - 9x^7 + 9x^5 + 9x^4 - 6x^3 + 9x - 3$ | $x^{12} - 42x^{10} - 14x^9 + 756x^8 + 252x^7 - 10752x^6 - 10584x^5 + 63504x^4 + 148960x^3 + 127008x^2 + 65856x + 19600$ | $\begin{bmatrix} 3 & 2 & \frac{9}{4} \\ 2 & & \frac{9}{4} \end{bmatrix}_4^6$ | T: 12,72 | $\frac{77}{36}$ |
| $x^{12} - 9x^{11} - 12x^{10} + 3x^9 - 3x^6 + 9x^4 + 12x^3 - 9x^2 - 3$ | $x^{12} + 6x^{10} - 18x^9 - 54x^8 - 180x^7 - 486x^6 + 2268x^5 + 1008x^4 - 5460x^3 + 1512x^2 + 2520x - 84$ | $\begin{bmatrix} 3 & 2 & \frac{9}{4} \\ 2 & & \frac{9}{4} \end{bmatrix}_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} - 3x^{11} + 3x^{10} + 6x^9 + 9x^8 - 9x^7 + 9x^6 - 9x^5 - 12x^3 + 9x^2 + 3$ | $x^{12} - 2x^9 + 6x^6 - 8x^3 + 4$ | $\begin{bmatrix} 3 & 2 & \frac{9}{4} \\ 2 & & \frac{9}{4} \end{bmatrix}_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-----------------|
| $x^{12} - 3x^{11} - 3x^{10} + 6x^9 - 9x^8 -$ $9x^7 - 3x^6 - 9x^5 + 3x^3 + 9x^2 + 6$ 79184 | $x^{12} - 42x^{10} - 28x^9 + 756x^8 + 252x^7 -$ $10164x^6 + 10584x^5 + 52920x^4 -$ $146608x^3 + 127008x^2 + 32928x -$ 79184 | $\begin{bmatrix} 3 & 9 & 9 \\ 2 & 4 & 4 \end{bmatrix}_4^6$ | T: 12,72 | $\frac{77}{36}$ |
| $x^{12} - 12x^{10} + 9x^9 + 9x^7 - 9x^5 +$ $9x^3 + 9x^2 - 3$ | $x^{12} - 21x^{10} - 14x^9 + 189x^8 + 189x^7 -$ $1323x^6 - 2646x^5 + 2205x^4 + 10045x^3 +$ $9261x^2 + 2940x + 49$ | $\begin{bmatrix} 9 & 9 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 12,17 | $\frac{25}{12}$ |
| $x^{12} + 12x^{11} + 3x^{10} - 12x^9 +$ $9x^8 + 6x^6 - 9x^5 + 9x^4 - 3x^3 +$ $9x^2 + 9x + 3$ | $x^{12} - 16x^9 + 99x^6 + 140x^3 + 49$ | $\begin{bmatrix} 3 & 9 & 9 \\ 2 & 4 & 4 \end{bmatrix}_4^6$ | T: 12,72 | $\frac{77}{36}$ |
| $x^{12} - 6x^{11} - 6x^{10} + 12x^9 +$ $9x^8 + 9x^7 + 6x^6 + 9x^5 - 9x^4 -$ $6x^3 - 9x + 3$ | $x^{12} - 4x^9 + 6x^6 - 4x^3 + 4$ | $\begin{bmatrix} 3 & 2 & 9 \\ 2 & 4 & 4 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-----------------|
| $x^{12} - 12x^{11} + 12x^{10} + 6x^9 + 9x^8 - 9x^7 - 3x^6 + 9x^5 - 9x^4 - 6x^3 - 6$ | $x^{12} - 2x^9 + 4x^3 + 4$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{9}{4} \frac{9}{4} \right]_4^2$ | T: 12,72 | $\frac{77}{36}$ |
| $x^{12} - 12x^{11} + 12x^{10} - 3x^9 + 12x^6 - 9x^5 - 6x^3 + 9x^2 - 6$ | $x^{12} - 4x^9 + 54x^6 - 4x^3 + 1$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \frac{9}{4} \right]_4^2$ | T: 12,17 | $\frac{25}{12}$ |
| $x^{12} + 3x^{11} + 12x^{10} + 3x^9 - 9x^8 + 9x^7 + 6x^6 + 9x^5 - 9x^4 - 12x^3 + 9x^2 - 9x - 6$ | $x^{12} - 6x^9 + 63x^6 + 1134x^3 + 9261$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \frac{9}{4} \right]_4^6$ | T: 12,17 | $\frac{25}{12}$ |
| $x^{12} - 12x^{11} + 3x^{10} - 9x^9 + 9x^8 + 9x^7 + 3x^6 + 9x^2 - 6$ | $x^{12} - 36x^{10} - 76x^9 + 486x^8 + 2052x^7 + 1710x^6 - 18468x^5 - 76707x^4 - 85912x^3 + 374706x^2 + 1271844x + 1513561$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} 2 \frac{9}{4} \frac{9}{4} \right]_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{12} + 3x^{11} - 3x^{10} + 3x^9 - 3x^6 - 3x^3 - 3$ | $x^{12} + 30x^{10} - 20x^9 + 405x^8 - 540x^7 + 2655x^6 - 5400x^5 + 7200x^4 - 19400x^3 + 8100x^2 + 8400x + 10600$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | T: 12,72 | $\frac{77}{36}$ |
| $x^{12} + 6x^{10} - 9x^9 + 9x^8 - 9x^7 + 9x^6 + 9x^5 - 9x^4 + 12x^3 - 9x^2 - 9x - 12$ | $x^{12} - 30x^{10} - 18x^9 + 162x^8 + 144x^7 - 654x^6 + 756x^5 + 1512x^4 - 5124x^3 + 1512x^2 + 2520x - 84$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 2 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} + 12x^{11} - 3x^{10} - 12x^9 + 9x^8 - 6x^6 + 9x^4 + 12x^3 + 9x + 6$ | $x^{12} - 21x^{10} - 7x^9 + 189x^8 + 126x^7 - 1323x^6 - 2646x^5 + 1764x^4 + 12446x^3 + 18522x^2 + 12495x + 3283$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | T: 12,73 | $\frac{235}{108}$ |
| $x^{12} - 9x^{11} - 3x^{10} + 9x^9 - 9x^8 - 12x^6 + 9x^5 + 9x^4 - 9x^3 + 9x^2 - 3$ | $x^{12} - 42x^{10} - 14x^9 + 567x^8 + 504x^7 - 3192x^6 - 5292x^5 + 6615x^4 + 20188x^3 + 3969x^2 - 24108x - 20531$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^6$ | T: 12,17 | $\frac{25}{12}$ |
| $x^{12} - 12x^{11} - 6x^{10} - 9x^8 + 9x^7 + 9x^4 + 9x^3 - 9x^2 + 9x + 3$ | $x^{12} - 30x^9 + 315x^6 - 1890x^3 + 9261$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | T: 12,73 | $\frac{235}{108}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-----------------|
| $x^{12} + 9x^{11} + 12x^{10} - 12x^9 + 12x^6 + 9x^5 + 9x^2 - 9x + 12$ | $x^{12} - 28x^9 + 840x^6 - 7840x^3 + 21952$ | $\left[\begin{smallmatrix} 9 & 9 \\ 4 & 4 \end{smallmatrix} \right]_4^6$ | T: 12,17 | $\frac{25}{12}$ |
| $x^{12} + 9x^{11} - 12x^{10} + 3x^9 + 9x^7 - 6x^6 - 9x^5 - 9x^4 + 3x^3 + 9x + 6$ | $x^{12} - 12x^{10} - 12x^9 + 54x^8 + 108x^7 - 42x^6 - 108x^5 + 459x^4 + 888x^3 + 378x^2 - 36x + 33$ | $\left[\begin{smallmatrix} 3 & 2 & 9 \\ 2 & 4 & 4 \end{smallmatrix} \right]_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} - 3x^{11} + 3x^{10} + 12x^9 + 9x^7 + 6x^6 - 9x^5 - 9x^4 + 12x^3 - 9x + 12$ | $x^{12} - 14x^9 + 210x^6 - 980x^3 + 1372$ | $\left[\begin{smallmatrix} 3 & 9 \\ 2 & 4 \end{smallmatrix} \right]_4^6$ | T: 12,72 | $\frac{77}{36}$ |
| $x^{12} - 3x^{10} + 3x^6 - 3$ | $x^{12} - 12x^{10} + 54x^8 - 60x^6 - 207x^4 + 432x^2 - 192$ | $\left[\begin{smallmatrix} 9 & 9 \\ 4 & 4 \end{smallmatrix} \right]_4^2$ | T: 12,17 | $\frac{25}{12}$ |
| $x^{12} - 12x^{11} - 6x^{10} - 12x^9 + 9x^8 - 9x^7 + 9x^6 - 9x^5 + 3x^3 + 9x^2 + 9x + 3$ | $x^{12} - 10x^9 + 42x^6 - 196x^3 + 1372$ | $\left[\begin{smallmatrix} 3 & 9 \\ 2 & 4 \end{smallmatrix} \right]_4^6$ | T: 12,72 | $\frac{77}{36}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-----------------|
| $x^{12} - 6x^{11} - 6x^{10} + 9x^9 - 9x^8 - 9x^6 - 9x^4 + 6x^3 - 9x^2 + 12$ | $x^{12} - 7x^9 + 42x^6 - 196x^3 + 343$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^6$ | T: 12,17 | $\frac{25}{12}$ |
| $x^{12} - 12x^{10} + 9x^9 + 9x^7 + 12x^6 + 9x^5 - 9x^2 + 9x - 12$ | $x^{12} - 42x^{10} - 14x^9 - 378x^8 + 504x^7 + 5334x^6 - 5292x^5 + 109368x^4 - 73892x^3 + 31752x^2 - 1176x - 980$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^6$ | T: 12,72 | $\frac{77}{36}$ |
| $x^{12} + 3x^{11} - 3x^{10} + 12x^9 - 9x^8 + 9x^7 + 12x^6 - 12x^3 + 6$ | $x^{12} - 42x^{10} - 14x^9 - 378x^8 - 1008x^7 + 4914x^6 + 10584x^5 + 111132x^4 + 146020x^3 + 111132x^2 + 41160x + 1372$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^6$ | T: 12,72 | $\frac{77}{36}$ |
| $x^{12} - 12x^{11} - 12x^{10} + 3x^9 + 9x^7 - 3x^6 - 9x^5 + 9x^4 - 6x^3 + 9x^2 - 9x - 3$ | $x^{12} + 12x^{10} - 5x^9 + 54x^8 - 45x^7 + 117x^6 - 135x^5 + 135x^4 - 140x^3 + 81x^2 - 15x + 4$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | T: 12,72 | $\frac{77}{36}$ |
| $x^{12} + 9x^{11} + 3x^{10} - 3x^9 + 9x^8 - 9x^7 - 12x^6 - 9x^5 + 9x^4 - 6x^3 - 9x^2 - 9x + 3$ | $x^{12} - x^9 + 9x^6 + 35x^3 + 49$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 2 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | T: 12,131 | $\frac{79}{36}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{12} + 12x^{11} + 6x^{10} + 12x^9 + 9x^8 + 9x^7 - 3x^6 + 9x^5 - 9x^4 - 9x^3 + 9x^2 - 3$ | $x^{12} - 42x^{10} - 56x^9 + 756x^8 + 1260x^7 - 10080x^6 - 21168x^5 + 52920x^4 + 146608x^3 + 63504x^2 + 16464x + 784$ | $\begin{bmatrix} 3 & 2 & \frac{9}{4} \\ 2 & & \end{bmatrix}_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} - 9x^{11} - 3x^{10} - 9x^9 - 9x^7 - 9x^6 + 9x^5 - 12x^3 - 9x^2 - 9x - 12$ | $x^{12} - 42x^{10} - 14x^9 + 756x^8 + 504x^7 - 10668x^6 - 21168x^5 + 45864x^4 + 140728x^3 + 63504x^2 - 82320x - 65072$ | $\begin{bmatrix} 3 & 2 & \frac{9}{4} \\ 2 & & \end{bmatrix}_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} - 3x^{11} + 12x^{10} + 12x^9 + 9x^6 + 9x^4 + 9x^3 - 9x + 12$ | $x^{12} - 28x^9 + 504x^6 + 1568x^3 + 21952$ | $\begin{bmatrix} 2 & \frac{9}{4} \\ 2 & \frac{9}{4} \end{bmatrix}_4^2$ | T: 12,73 | $\frac{235}{108}$ |
| $x^{12} - 12x^{11} - 3x^{10} - 6x^9 + 9x^8 - 9x^7 + 12x^6 + 12x^3 - 9x - 12$ | $x^{12} + 12x^{10} - 4x^9 + 54x^8 - 36x^7 + 120x^6 - 108x^5 + 153x^4 - 100x^3 + 108x^2 + 24x + 52$ | $\begin{bmatrix} \frac{9}{4} \\ \frac{9}{4} \end{bmatrix}_4^2$ | T: 12,17 | $\frac{25}{12}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{12} + 12x^{11} + 6x^{10} - 9x^9 - 9x^8 + 9x^7 - 3x^6 - 9x^5 + 9x^4 - 6x^3 - 9x^2 + 9x + 6$ | $x^{12} - 42x^{10} - 154x^9 - 378x^8 + 1512x^7 + 10962x^6 + 21168x^5 + 82908x^4 + 207956x^3 + 174636x^2 + 445704x + 551740$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \left[\begin{array}{c} 2 \\ 2 \end{array} \right]_2 \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | T: 12,131 | $\frac{79}{36}$ |
| $x^{12} - 6x^{11} - 12x^{10} - 3x^9 - 9x^8 - 9x^7 + 3x^6 - 9x^5 + 6x^3 + 9x^2 + 9x + 6$ | $x^{12} + 6x^{10} - 28x^9 - 54x^8 - 126x^7 - 441x^6 + 2268x^5 + 1134x^4 - 6832x^3 + 2268x^2 + 4116x - 2303$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4^6$ | T: 12,17 | $\frac{25}{12}$ |
| $x^{12} + 6x^{11} - 3x^{10} + 3x^9 + 3x^3 - 9x + 6$ | $x^{12} + 6x^{10} - 42x^9 - 54x^8 - 210x^6 + 1512x^5 + 252x^4 - 6300x^3 + 2268x^2 + 7056x - 4116$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4^6$ | T: 12,72 | $\frac{77}{36}$ |
| $x^{12} - 6x^{11} - 12x^{10} - 6x^9 + 9x^7 - 12x^6 + 9x^5 - 9x^4 + 3x^3 + 9x - 3$ | $x^{12} - 12x^{10} - 6x^9 + 54x^8 + 54x^7 - 96x^6 - 162x^5 + 9x^4 + 156x^3 + 108x^2 + 18x - 3$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \right]_2 \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4^2$ | T: 12,73 | $\frac{235}{108}$ |
| $x^{12} + 3x^6 + 18$ | $x^{12} - 12x^6 + 18$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \left[\begin{array}{c} 5 \\ 2 \end{array} \right]_2^4$ | I: 18,4 | $\frac{37}{18}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|------------|-------------------|
| $x^{12} - 18x^{10} + 30x^9 - 36x^8 - 9x^7 + 18x^6 + 36x^3 + 27x^2 - 27x + 36$ | $x^{12} - 12x^9 + 72x^6 - 324x^5 + 945x^4 - 1224x^3 + 1458x^2 - 756x + 441$ | $\begin{bmatrix} 3 & & & & \\ & 2 & & & \\ & & 2 & & \\ & & & 2 & \\ & & & & 2 \end{bmatrix}_2^2$ | I: 162, 52 | $\frac{373}{162}$ |
| $x^{12} + 18x^{11} + 27x^{10} + 27x^9 - 36x^8 + 36x^7 - 33x^6 + 27x^4 - 36x^3 - 27x^2 - 27x + 18$ | $x^{12} - 24x^6 + 72$ | $\begin{bmatrix} 3 & & & & \\ & 2 & & & \\ & & 2 & & \\ & & & 2 & \\ & & & & 2 \end{bmatrix}_2^4$ | I: 18, 4 | $\frac{37}{18}$ |
| $x^{12} - 9x^{11} + 36x^{10} + 30x^9 + 9x^8 - 36x^7 - 12x^6 - 27x^5 + 27x^4 + 36x^3 + 27x^2 - 27x - 18$ | $x^{12} - 18x^9 + 108x^6 - 288x^3 + 576$ | $\begin{bmatrix} 3 & & & & \\ & 2 & & & \\ & & 2 & & \\ & & & 2 & \\ & & & & 2 \end{bmatrix}_2^2$ | I: 162, 52 | $\frac{373}{162}$ |
| $x^{12} - 27x^{11} - 36x^{10} + 18x^9 + 36x^8 - 36x^7 + 6x^6 + 27x^5 - 9x^3 - 27x^2 + 18$ | $x^{12} - 12x^9 + 24x^6 + 72x^3 - 144$ | $\begin{bmatrix} 3 & & & & \\ & 2 & & & \\ & & 2 & & \\ & & & 2 & \\ & & & & 2 \end{bmatrix}_2^4$ | I: 162, 52 | $\frac{373}{162}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{12} + 36x^{11} - 9x^{10} - 6x^9 - 36x^8 - 27x^7 - 9x^6 + 27x^4 - 27x^3 + 36$ | $x^{12} - 36x^7 + 24x^6 + 729x^4 - 1944x^3 + 2106x^2 - 1080x + 225$ | $\left[\begin{array}{ccc} \frac{3}{2} & 2 & 2 \\ & 2 & \frac{5}{2} \end{array} \right]_2^2$ | I: 162,52 | $\frac{373}{162}$ |
| $x^{12} - 9x^{11} - 36x^{10} + 33x^9 + 36x^8 - 36x^7 + 3x^6 - 27x^5 - 9x^3 + 27x - 9$ | $x^{12} - 6x^9 - 84x^6 + 504x^3 - 144$ | $\left[\begin{array}{ccc} & & \\ & & \\ & & \\ & & \end{array} \right]_2^4$ | I: 54,12 | $\frac{41}{18}$ |
| $x^{12} + 9x^{11} - 39x^9 - 9x^8 - 27x^7 + 24x^6 + 27x^5 + 27x^4 - 27x^3 - 27x + 18$ | $x^{12} - 48x^9 + 312x^6 - 288x^3 + 72$ | $\left[\begin{array}{ccc} \frac{3}{2} & 2 & 2 \\ & 2 & \frac{5}{2} \end{array} \right]_2^4$ | I: 162,52 | $\frac{373}{162}$ |
| $x^{12} + 18x^{11} - 9x^{10} - 27x^9 + 9x^8 - 9x^7 + 3x^6 - 27x^4 + 27x^3 - 27x^2 - 27x - 36$ | $x^{12} - 24x^9 + 96x^6 + 576x^3 - 2304$ | $\left[\begin{array}{ccc} \frac{3}{2} & 2 & 2 \\ & 2 & \frac{5}{2} \end{array} \right]_2^4$ | I: 162,52 | $\frac{373}{162}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{12} - 27x^{11} - 36x^{10} - 21x^9 + 36x^8 + 36x^7 + 21x^6 + 27x^5 - 27x^4 + 36x^3 - 36$ | $x^{12} - 12x^9 + 6x^6 + 108x^3 - 9$ | $\begin{bmatrix} 2 & 2 & \frac{5}{2} \\ & & \end{bmatrix}_2^4$ | I: 54,12 | $\frac{41}{18}$ |
| $x^{12} + 9x^{11} + 18x^{10} - 24x^9 - 36x^8 + 36x^7 + 3x^6 - 27x^4 + 36x^3 - 27x - 9$ | $x^{12} - 6x^9 - 144x^6 + 864x^3 + 1296$ | $\begin{bmatrix} \frac{3}{2} & 2 & 2 & \frac{5}{2} \\ & & & \end{bmatrix}_2^4$ | I: 162,52 | $\frac{373}{162}$ |
| $x^{12} - 27x^{11} + 9x^{10} - 18x^9 - 18x^8 + 18x^7 + 3x^6 - 27x^5 - 27x^4 - 18x^3 + 27x - 9$ | $x^{12} - 240x^6 + 288$ | $\begin{bmatrix} \frac{5}{2} \\ & \end{bmatrix}_2^4$ | I: 6,1 | $\frac{11}{6}$ |
| $x^{12} + 36x^{11} - 9x^{10} - 3x^9 - 9x^8 + 18x^7 + 3x^6 - 27x^5 + 27x^3 + 27x^2 + 18$ | $x^{12} - 12x^9 + 135x^8 - 21x^6 + 2565x^4 + 2682x^3 + 4455x^2 + 2970x + 2421$ | $\begin{bmatrix} 2 & 2 & \frac{5}{2} \\ & & \end{bmatrix}_2^4$ | I: 54,12 | $\frac{41}{18}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{12} + 36x^{11} - 27x^{10} - 30x^9 + 27x^8 + 36x^7 + 9x^6 + 27x^5 + 27x - 18$ | $x^{12} - 42x^9 + 651x^6 - 4410x^3 + 12348$ | $\begin{bmatrix} 3 & & & & \\ 2 & 2 & 2 & & \\ & & & 2 & \\ & & & & 2 \end{bmatrix}_2^2$ | I: 162,52 | $\frac{373}{162}$ |
| $x^{12} - 27x^{11} - 36x^{10} + 3x^9 - 36x^8 - 18x^7 + 24x^6 + 27x^5 - 27x^4 - 27x^3 + 27x^2 + 27x + 18$ | $x^{12} - 12x^9 - 156x^6 - 288x^3 - 144$ | $\begin{bmatrix} 3 & & & & \\ 2 & 2 & 2 & & \\ & & & 2 & \\ & & & & 2 \end{bmatrix}_2^4$ | I: 162,52 | $\frac{373}{162}$ |
| $x^{12} + 9x^{10} + 36x^9 + 36x^8 - 9x^7 - 15x^6 - 27x^5 - 27x^4 - 9x^3 + 27x^2 + 27x + 18$ | $x^{12} - 12x^9 - 96x^6 + 1152x^3 - 2304$ | $\begin{bmatrix} 3 & & & & \\ 2 & 2 & 2 & & \\ & & & 2 & \\ & & & & 2 \end{bmatrix}_2^4$ | I: 162,52 | $\frac{373}{162}$ |
| $x^{12} - 9x^{10} + 21x^9 - 36x^8 - 27x^7 + 27x^6 - 27x^5 - 18x^3 + 9$ | $x^{12} - 3x^9 + 9x^6 + 18x^3 + 36$ | $\begin{bmatrix} 3 & & & & \\ 2 & 2 & 2 & & \\ & & & 2 & \\ & & & & 2 \end{bmatrix}_2^2$ | I: 54,13 | $\frac{121}{54}$ |
| $x^{12} + 36x^{11} - 9x^{10} + 39x^9 - 18x^8 + 18x^7 - 12x^6 + 27x^5 + 27x^4 - 36x^3 + 27x^2 + 27x - 36$ | $x^{12} - 36x^9 + 234x^6 + 324x^3 + 81$ | $\begin{bmatrix} 3 & & & & \\ 2 & 2 & 2 & & \\ & & & 2 & \\ & & & & 2 \end{bmatrix}_2^4$ | I: 54,12 | $\frac{41}{18}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{12} + 9x^{11} - 36x^{10} + 24x^9 + 27x^8 - 36x^7 + 15x^6 - 27x^5 + 27x^4 - 36x^3 - 27x^2 + 27x - 36$ | $x^{12} - 24x^9 - 144x^6 + 216x^3 + 1296$ | $\left[\begin{array}{ccc} \frac{3}{2} & 2 & 2 \\ & 2 & \frac{5}{2} \end{array} \right]_2^4$ | I: 162,52 | $\frac{373}{162}$ |
| $x^{12} - 81x^{11} - 36x^{10} - 9x^9 + 18x^8 - 99x^7 + 120x^6 - 54x^5 - 108x^4 - 27x^3 - 54x^2 + 54x - 99$ | $x^{12} - 36x^7 - 6x^6 + 324x^5 + 1161x^4 + 2052x^3 + 2106x^2 + 1404x + 522$ | $\left[\begin{array}{ccc} \frac{3}{2} & 2 & \frac{5}{2} \\ & 2 & \frac{5}{2} \end{array} \right]_2^2$ | I: 54,13 | $\frac{121}{54}$ |
| $x^{12} + 9x^{11} - 36x^{10} + 9x^9 - 27x^8 + 27x^7 + 36x^6 + 27x^4 + 9x^3 - 27x^2 - 18$ | $x^{12} - 27x^9 + 261x^6 - 630x^3 + 1764$ | $\left[\begin{array}{ccc} \frac{3}{2} & 2 & 2 \\ & 2 & \frac{5}{2} \end{array} \right]_2^2$ | I: 162,52 | $\frac{373}{162}$ |
| $x^{12} - 117x^{11} + 27x^{10} + 66x^9 - 99x^8 + 99x^7 - 69x^6 + 81x^5 - 54x^4 + 99x^3 - 27x^2 + 27x - 99$ | $x^{12} - 9x^9 + 27x^6 - 36x^3 + 36$ | $\left[\begin{array}{ccc} \frac{3}{2} & 2 & 2 \\ & 2 & \frac{5}{2} \end{array} \right]_2^2$ | I: 162,52 | $\frac{373}{162}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{12} + 27x^{11} - 27x^{10} - 36x^9 - 9x^8 - 15x^6 + 27x^5 - 27x^4 - 36x^3 + 27x + 18$ | $x^{12} - 6x^9 - 24x^6 + 144x^3 - 144$ | $\begin{bmatrix} \frac{3}{2} & 2 & 2 \\ & & 2 \end{bmatrix}_2^4$ | I: 162,52 | $\frac{373}{162}$ |
| $x^{12} - 9x^{11} - 9x^{10} - 12x^9 + 9x^8 + 3x^6 + 9x^3 - 9$ | $x^{12} - 18x^9 + 24x^6 + 288x^3 - 144$ | $\begin{bmatrix} \frac{3}{2} & 2 & 2 \\ & & 2 \end{bmatrix}_2^4$ | I: 162,52 | $\frac{373}{162}$ |
| $x^{12} + 9x^{11} + 9x^{10} + 30x^9 + 27x^8 - 27x^7 + 36x^6 - 27x^5 - 18x^3 - 27x + 9$ | $x^{12} - 12x^9 + 99x^6 - 126x^3 + 63$ | $\begin{bmatrix} 2 & \frac{5}{2} \\ & 2 \end{bmatrix}_2^2$ | I: 18,3 | $\frac{13}{6}$ |
| $x^{12} - 27x^{10} - 9x^9 - 18x^8 + 12x^6 - 27x^3 - 27x^2 + 18$ | $x^{12} - 36x^{10} + 486x^8 - 2976x^6 + 7641x^4 - 4860x^2 + 18$ | $\begin{bmatrix} \frac{5}{2} \\ & 2 \end{bmatrix}_2^4$ | I: 6,1 | $\frac{11}{6}$ |
| $x^{12} - 54x^{11} + 54x^{10} + 24x^9 + 63x^8 + 117x^7 + 51x^6 + 108x^5 - 54x^4 - 63x^3 - 54x^2 - 54x + 117$ | $x^{12} - 21x^9 - 21x^6 + 882x^3 + 12348$ | $\begin{bmatrix} \frac{3}{2} & 2 & 2 \\ & & 2 \end{bmatrix}_2^2$ | I: 162,52 | $\frac{373}{162}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{12} - 36x^{11} - 18x^{10} - 18x^9 + 27x^8 - 9x^7 + 18x^6 + 27x^4 + 18x^3 + 27x + 36$ | $x^{12} - 27x^9 + 219x^6 - 378x^3 + 252$ | $\left[\begin{smallmatrix} 3 & & & \\ & 2 & & \\ & & 2 & \\ & & & 2 \end{smallmatrix} \right]_2^2$ | I: 54,13 | $\frac{121}{54}$ |
| $x^{12} - 36x^{11} + 27x^{10} + 87x^9 + 90x^8 + 108x^7 + 57x^6 - 27x^5 - 18x^3 + 54x^2 - 72$ | $x^{12} - 21x^9 + 273x^6 - 882x^3 + 12348$ | $\left[\begin{smallmatrix} 3 & & & \\ & 2 & & \\ & & 2 & \\ & & & 2 \end{smallmatrix} \right]_2^2$ | I: 162,52 | $\frac{373}{162}$ |
| $x^{12} + 9x^{11} - 36x^{10} + 36x^9 - 36x^8 + 18x^7 - 27x^6 + 27x^4 - 36x^3 - 27x^2 + 27x - 18$ | $x^{12} - 12x^9 + 36x^6 + 144x^3 + 144$ | $\left[\begin{smallmatrix} 3 & & & \\ & 2 & & \\ & & 2 & \\ & & & 2 \end{smallmatrix} \right]_2^2$ | I: 54,13 | $\frac{121}{54}$ |
| $x^{12} - 18x^{11} + 27x^{10} - 27x^9 - 27x^8 - 36x^7 + 9x^6 - 27x^5 - 27x^4 + 9x^3 + 27x^2 - 27x + 36$ | $x^{12} - 3x^9 + 18x^6 - 63x^3 + 63$ | $\left[\begin{smallmatrix} 6 & & & \\ & 2 & & \\ & & 2 & \\ & & & 2 \end{smallmatrix} \right]_2^6$ | I: 18,3 | $\frac{13}{6}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|------------------|
| $x^{12} + 36x^{11} + 9x^{10} - 18x^9 - 36x^8 + 18x^7 - 36x^6 + 27x^5 + 27x^4 - 27x^3 + 27x^2 + 27x - 18$ | $x^{12} - 9x^9 + 15x^6 + 252$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad 2 \quad \begin{array}{c} 5 \\ 2 \end{array} \right]_2^6$ | I: 54,13 | $\frac{121}{54}$ |
| $x^{12} + 27x^{11} + 36x^{10} + 39x^9 + 18x^7 + 6x^6 - 18x^3 - 27x + 36$ | $x^{12} - 3x^9 - 45x^6 - 126x^3 + 1764$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad 2 \quad \begin{array}{c} 5 \\ 2 \end{array} \right]_2^2$ | I: 54,13 | $\frac{121}{54}$ |
| $x^{12} - 27x^{11} + 21x^9 + 36x^8 - 18x^7 - 6x^6 + 27x^5 + 27x^4 - 18x^3 + 27x - 9$ | $x^{12} - 48x^6 + 288$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 5 \\ 2 \end{array} \right]_2^4$ | I: 18,4 | $\frac{37}{18}$ |
| $x^{12} - 18x^{10} - 9x^9 - 9x^8 + 9x^7 + 33x^6 + 27x^5 - 27x^4 - 27x^3 + 27x^2 - 9$ | $x^{12} - 18x^9 + 84x^6 - 72x^3 - 144$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \quad 2 \quad \begin{array}{c} 5 \\ 2 \end{array} \right]_2^4$ | I: 54,12 | $\frac{41}{18}$ |
| $x^{12} + 9x^{11} - 36x^{10} - 15x^9 + 18x^8 + 9x^7 + 33x^6 + 27x^5 + 27x^4 + 9x^3 - 27x^2 + 27x + 36$ | $x^{12} - 15x^9 + 72x^6 - 189x^3 + 567$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \quad \begin{array}{c} 5 \\ 2 \end{array} \right]_2^6$ | I: 18,3 | $\frac{13}{6}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{12} - 9x^{11} - 21x^9 + 18x^8 - 18x^7 - 21x^6 + 27x^5 - 36x^3 - 27x^2 + 27x + 36$ | $x^{12} - 12x^9 + 108x^6 - 432x^3 + 576$ | $\begin{bmatrix} 3 & & & \\ & 2 & & \\ & & 2 & \\ & & & 2 \end{bmatrix}_2^2$ | I: 162,52 | $\frac{373}{162}$ |
| $x^{12} + 18x^{11} + 36x^{10} - 3x^9 + 36x^8 - 36x^7 - 3x^6 - 27x^5 + 27x^4 + 18x^3 + 27x^2 - 27x + 9$ | $x^{12} + 36x^6 + 36$ | $\begin{bmatrix} 3 & & & \\ & 5 & & \\ & & 2 & \\ & & & 2 \end{bmatrix}_2^2$ | I: 18,4 | $\frac{37}{18}$ |
| $x^{12} - 81x^{11} + 63x^{10} - 75x^9 - 63x^8 - 81x^7 + 12x^6 + 81x^5 + 27x^4 + 9x^3 - 54x^2 + 81x + 90$ | $x^{12} - 21x^9 + 357x^6 - 1764x^3 + 12348$ | $\begin{bmatrix} 3 & & & \\ & 2 & & \\ & & 2 & \\ & & & 2 \end{bmatrix}_2^2$ | I: 162,52 | $\frac{373}{162}$ |
| $x^{12} + 9x^{11} + 27x^9 + 27x^8 + 9x^7 - 9x^6 - 27x^5 - 27x^4 + 36x^3 + 27x^2 - 18$ | $x^{12} + 24x^6 + 36$ | $\begin{bmatrix} 2 & & & \\ & 5 & & \\ & & 2 & \\ & & & 2 \end{bmatrix}_2^2$ | I: 18,3 | $\frac{13}{6}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{12} + 18x^{11} + 9x^{10} + 6x^9 + 18x^7 + 24x^6 - 27x^5 - 27x^4 + 36x^3 + 27x^2 + 27x - 36$ | $x^{12} - 120x^6 + 72$ | $\left[\begin{smallmatrix} 5 \\ 2 \end{smallmatrix} \right]_2^4$ | I: 6,1 | $\frac{11}{6}$ |
| $x^{12} - 27x^{10} - 39x^9 - 36x^8 + 36x^7 + 33x^6 + 27x^4 + 18x^3 - 27x - 9$ | $x^{12} - 12x^9 - 42x^6 - 36x^3 - 9$ | $\left[\begin{smallmatrix} 3 & 2 & 2 \\ 2 & 2 & 2 \end{smallmatrix} \right]_2^4$ | I: 162,52 | $\frac{373}{162}$ |
| $x^{12} + 99x^{11} + 93x^9 + 90x^8 - 108x^7 + 42x^6 + 27x^5 - 81x^4 + 117x^3 - 54x^2 - 81x + 90$ | $x^{12} - 42x^9 + 861x^6 + 7056x^3 + 12348$ | $\left[\begin{smallmatrix} 3 & 2 \\ 2 & 2 \end{smallmatrix} \right]_2^2$ | I: 54,13 | $\frac{121}{54}$ |
| $x^{12} + 36x^{11} - 27x^{10} - 33x^9 - 18x^8 + 9x^7 - 24x^6 - 36x^3 - 27x^2 - 27x + 36$ | $x^{12} - 3x^{10} - 30x^8 + 77x^6 + 510x^4 + 537x^2 + 169$ | $\left[\begin{smallmatrix} 5 \\ 2 \end{smallmatrix} \right]_2^2$ | I: 6,1 | $\frac{11}{6}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{12} - 9x^{11} - 27x^{10} + 39x^9 - 18x^8 + 36x^7 + 27x^4 + 9x^3 - 27x^2 + 27x + 9$ | $x^{12} + 36x^6 - 144x^3 + 144$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & & 2 \end{array} \right]_2^2$ | I: 54,12 | $\frac{41}{18}$ |
| $x^{12} - 27x^{11} + 9x^{10} + 30x^9 + 9x^8 - 27x^7 + 30x^6 + 27x^5 + 9x^3 + 27x - 9$ | $x^{12} - 264x^6 - 288x^3 + 72$ | $\left[\begin{array}{ccc} 3 & 2 & 2 \\ & & 2 \end{array} \right]_2^4$ | I: 162,52 | $\frac{373}{162}$ |
| $x^{12} - 36x^{11} - 18x^{10} + 3x^9 + 27x^8 - 18x^7 - 27x^6 + 9x^3 - 27x + 36$ | $x^{12} - 33x^9 + 351x^6 - 1260x^3 + 1764$ | $\left[\begin{array}{ccc} 3 & 2 & 2 \\ & & 2 \end{array} \right]_2^6$ | I: 54,13 | $\frac{121}{54}$ |
| $x^{12} + 18x^{11} - 27x^{10} + 21x^9 + 18x^8 + 18x^7 + 27x^5 - 27x^4 - 27x^3 - 18$ | $x^{12} + 567x^6 - 2646x^3 + 3087$ | $\left[\begin{array}{ccc} 5 & & \\ & & 2 \end{array} \right]_2^6$ | I: 6,1 | $\frac{11}{6}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{12} + 36x^{11} + 24x^9 - 36x^8 - 9x^6 - 27x^5 - 27x^3 - 27x^2 + 27x + 36$ | $x^{12} + 105x^6 - 2646x^3 + 12348$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2^6$ | I: 54,13 | $\frac{121}{54}$ |
| $x^{12} + 27x^{11} - 18x^{10} + 24x^9 + 9x^8 - 36x^7 + 24x^6 - 27x^5 + 27x^4 + 18x^3 + 27x^2 - 27x + 9$ | $x^{12} - 63x^9 + 987x^6 + 2646x^3 + 12348$ | $\begin{bmatrix} 3 & 5 \\ 2 & 2 \end{bmatrix}_2^6$ | I: 18,4 | $\frac{37}{18}$ |
| $x^{12} - 27x^{11} + 18x^{10} + 15x^9 + 18x^8 - 18x^7 - 36x^6 - 27x^4 + 18x^3 - 27x^2 - 27x - 18$ | $x^{12} - 9x^9 + 99x^6 - 378x^3 + 1764$ | $\begin{bmatrix} 3 & 5 \\ 2 & 2 \end{bmatrix}_2^6$ | I: 18,4 | $\frac{37}{18}$ |
| $x^{12} - 36x^{11} + 36x^{10} - 3x^9 - 81x^8 - 27x^7 + 120x^6 + 27x^5 + 54x^4 + 36x^3 - 81x - 99$ | $x^{12} - 3x^9 + 207x^6 - 756x^3 + 1764$ | $\begin{bmatrix} 3 & 2 & 2 \\ 2 & 2 & 2 \end{bmatrix}_2^2$ | I: 162,52 | $\frac{373}{162}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{12} + 81x^{11} + 9x^{10} + 33x^9 + 117x^8 - 6x^6 - 54x^5 + 54x^4 + 36x^3 - 27x^2 - 45$ | $x^{12} - 6x^9 + 9x^6 + 63$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & & \frac{5}{2} \end{array} \right]_2^2$ | I: 54,12 | $\frac{41}{18}$ |
| $x^{12} + 45x^{11} - 63x^{10} + 63x^9 - 18x^8 + 9x^7 - 69x^6 - 81x^5 + 27x^4 - 108x^3 + 54x^2 + 54x - 99$ | $x^{12} - 6x^9 + 51x^6 - 126x^3 + 252$ | $\left[\begin{array}{ccc} \frac{3}{2} & 2 & 2 \\ & & \frac{5}{2} \end{array} \right]_2^2$ | I: 162,52 | $\frac{373}{162}$ |
| $x^{12} - 18x^{11} + 27x^{10} - 24x^9 + 18x^8 + 9x^7 + 24x^6 - 27x^5 + 27x^4 - 18x^3 - 27x^2 + 27x + 9$ | $x^{12} - 21x^9 + 399x^6 - 3528x^3 + 12348$ | $\left[\begin{array}{ccc} \frac{3}{2} & 2 & 2 \\ & & \frac{5}{2} \end{array} \right]_2^6$ | I: 54,13 | $\frac{121}{54}$ |
| $x^{12} - 27x^{11} - 36x^{10} + 21x^9 - 36x^8 + 36x^7 + 18x^6 - 27x^5 - 27x^4 - 36x^3 + 27x^2 - 27x + 9$ | $x^{12} - 12x^9 + 99x^6 - 378x^3 + 567$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & & \frac{5}{2} \end{array} \right]_2^2$ | I: 54,12 | $\frac{41}{18}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{12} + 9x^{11} + 18x^{10} - 18x^9 - 27x^8 - 18x^7 - 9x^6 + 27x^4 + 18x^3 + 27x^2 - 27x - 18$ | $x^{12} - 3x^9 + 39x^6 - 126x^3 + 252$ | $\left[\begin{smallmatrix} 3 & & & \\ & 2 & & \\ & & 2 & \\ & & & 2 \end{smallmatrix} \right]_2^2$ | I: 162,52 | $\frac{373}{162}$ |
| $x^{12} - 9x^{11} + 18x^{10} - 12x^9 - 18x^8 + 18x^7 + 18x^6 + 27x^5 + 27x^4 - 27x^3 + 27x^2 + 27x - 18$ | $x^{12} - 6x^9 + 9x^6 + 18x^3 + 9$ | $\left[\begin{smallmatrix} 3 & & & \\ & 2 & & \\ & & 2 & \\ & & & 2 \end{smallmatrix} \right]_2^2$ | I: 54,13 | $\frac{121}{54}$ |
| $x^{12} + 27x^{11} - 36x^{10} + 30x^9 - 99x^8 - 72x^7 + 102x^6 + 54x^5 + 81x^4 - 63x^3 - 108x^2 + 54x + 36$ | $x^{12} - 12x^9 + 54x^6 - 72x^3 + 36$ | $\left[\begin{smallmatrix} 3 & & & \\ & 2 & & \\ & & 2 & \\ & & & 2 \end{smallmatrix} \right]_2^2$ | I: 54,13 | $\frac{121}{54}$ |
| $x^{12} + 27x^{11} + 9x^{10} - 27x^9 - 18x^8 - 27x^7 - 39x^6 + 27x^5 - 18x^3 + 27x^2 + 27x - 36$ | $x^{12} - 12x^9 + 42x^6 - 36x^3 - 9$ | $\left[\begin{smallmatrix} 3 & & & \\ & 2 & & \\ & & 2 & \\ & & & 2 \end{smallmatrix} \right]_2^4$ | I: 162,52 | $\frac{373}{162}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{12} + 18x^{11} + 27x^{10} + 33x^9 + 9x^8 + 9x^7 - 39x^6 + 27x^5 + 27x^4 - 9x^3 + 27x^2 + 27x - 18$ | $x^{12} - 15x^9 + 261x^6 - 1134x^3 + 1764$ | $\left[\begin{array}{ccc} 3 & & \\ 2 & 2 & 2 \\ & & 5 \\ & & 2 \end{array} \right]_2^2$ | I: 162,52 | $\frac{373}{162}$ |
| $x^{12} - 27x^{11} + 18x^{10} - 18x^9 - 36x^8 + 9x^7 + 36x^6 + 27x^5 + 27x^4 + 18x^3 - 27x^2 - 27x - 18$ | $x^{12} - 3x^9 + 18x^6 + 189x^3 + 567$ | $\left[\begin{array}{ccc} 2 & & \\ 2 & 2 & 2 \\ & & 5 \\ & & 2 \end{array} \right]_2^2$ | I: 54,12 | $\frac{41}{18}$ |
| $x^{12} - 81x^{11} - 90x^{10} + 78x^9 + 90x^8 - 72x^7 - 120x^6 + 27x^5 + 81x^4 - 9x^3 + 27x^2 + 108x + 9$ | $x^{12} - 42x^9 + 693x^6 - 1764x^3 + 3087$ | $\left[\begin{array}{ccc} 2 & & \\ & & 5 \\ & & 2 \end{array} \right]_2^2$ | I: 18,3 | $\frac{13}{6}$ |
| $x^{12} - 18x^{11} - 27x^{10} + 21x^9 + 18x^8 - 18x^7 - 12x^6 + 27x^4 + 36x^3 + 27x - 36$ | $x^{12} - 15x^9 + 15x^6 + 135x^3 + 45$ | $\left[\begin{array}{ccc} 2 & & \\ 2 & 2 & 2 \\ & & 5 \\ & & 2 \end{array} \right]_2^4$ | I: 54,12 | $\frac{41}{18}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{12} + 27x^{11} + 18x^{10} + 33x^9 - 9x^8 + 36x^7 + 18x^6 + 18x^3 - 27x - 18$ | $x^{12} - 18x^9 + 81x^6 + 63$ | $\left[\begin{smallmatrix} 5 \\ 2 \end{smallmatrix} \right]_2^6$ | I: 6,1 | $\frac{11}{6}$ |
| $x^{12} + 27x^{11} - 27x^{10} + 36x^9 + 18x^8 - 27x^7 + 21x^6 - 27x^4 - 27x^3 + 27x^2 + 36$ | $x^{12} - 6x^9 + 72x^6 + 126x^3 + 63$ | $\left[\begin{smallmatrix} 5 \\ 2 \end{smallmatrix} \right]_2^2$ | I: 18,3 | $\frac{13}{6}$ |
| $x^{12} + 99x^{11} + 117x^{10} - 114x^9 - 81x^8 + 9x^7 - 15x^6 + 54x^5 - 108x^4 + 45x^3 - 81x^2 - 108x - 72$ | $x^{12} - 6x^{11} + 21x^{10} - 50x^9 + 90x^8 - 126x^7 + 135x^6 - 108x^5 + 135x^4 - 170x^3 + 66x^2 + 12x + 4$ | $\left[\begin{smallmatrix} 5 \\ 2 \end{smallmatrix} \right]_2^2$ | I: 6,1 | $\frac{11}{6}$ |
| $x^{12} - 18x^{11} + 18x^{10} - 24x^9 + 27x^8 + 27x^7 - 15x^6 - 27x^5 + 27x^4 + 18x^3 + 9$ | $x^{12} - 3x^9 - 3x^6 + 126x^3 + 252$ | $\left[\begin{smallmatrix} 3 \\ 2 \end{smallmatrix} \quad 2 \quad 2 \quad \begin{smallmatrix} 5 \\ 2 \end{smallmatrix} \right]_2^2$ | I: 162,52 | $\frac{373}{162}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{12} - 27x^{11} + 12x^9 + 9x^8 - 27x^7 + 27x^6 - 9x^3 - 27x^2 - 18$ | $x^{12} - 63x^9 + 1533x^6 - 7938x^3 + 12348$ | $\begin{bmatrix} 3 & & & \\ 2 & 2 & \frac{5}{2} & \\ & & & 2 \end{bmatrix}_2^2$ | I: 54,13 | $\frac{121}{54}$ |
| $x^{12} - 27x^{10} - 39x^9 + 36x^8 + 9x^7 + 36x^6 + 27x^5 - 27x^4 - 27x^3 - 27x^2 - 27x + 9$ | $x^{12} - 15x^9 + 93x^6 - 252x^3 + 252$ | $\begin{bmatrix} 3 & & & \\ 2 & 2 & \frac{5}{2} & \\ & & & 2 \end{bmatrix}_2^2$ | I: 162,52 | $\frac{373}{162}$ |
| $x^{12} + 27x^{11} + 15x^9 - 36x^8 + 33x^6 - 27x^5 - 9x^3 - 27x^2 + 36$ | $x^{12} + 9x^6 - 18x^3 + 9$ | $\begin{bmatrix} 2 & 2 & \frac{5}{2} & \\ & & & 2 \end{bmatrix}_2^2$ | I: 54,12 | $\frac{41}{18}$ |
| $x^{12} - 81x^{11} - 54x^{10} + 99x^9 - 108x^8 + 45x^7 - 3x^6 - 81x^5 + 81x^4 - 27x^3 + 54x + 63$ | $x^{12} - 6x^9 + 9x^6 - 252x^3 + 1764$ | $\begin{bmatrix} 3 & & & \\ 2 & 2 & \frac{5}{2} & \\ & & & 2 \end{bmatrix}_2^2$ | I: 54,13 | $\frac{121}{54}$ |
| $x^{12} + 18x^{11} + 18x^{10} + 18x^9 + 9x^7 + 36x^6 - 27x^5 - 36x^3 - 27x^2 - 27x + 9$ | $x^{12} - 6x^9 + 6x^6 + 36x^3 + 36$ | $\begin{bmatrix} 2 & 2 & \frac{5}{2} & \\ & & & 2 \end{bmatrix}_2^2$ | I: 54,12 | $\frac{41}{18}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|------------------|
| $x^{12} + 36x^{10} + 12x^9 - 9x^8 - 18x^7 + 6x^6 - 27x^5 + 27x^4 - 18x^3 - 27x^2 + 27x + 36$ | $x^{12} - 9x^9 + 141x^6 + 378x^3 + 252$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^6$ | I: 18,4 | $\frac{37}{18}$ |
| $x^{12} - 81x^{11} + 9x^{10} + 15x^9 + 54x^8 - 9x^7 - 21x^6 + 81x^5 + 81x^4 - 63x^3 + 81x^2 + 54x - 99$ | $x^{12} - 6x^9 + 36x^6 + 144x^3 + 576$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^2$ | I: 54,13 | $\frac{121}{54}$ |
| $x^{12} - 18x^{10} + 39x^9 + 9x^8 - 18x^7 - 27x^6 - 27x^5 + 27x^4 - 27x^3 + 27x^2 + 36$ | $x^{12} - 21x^9 + 252x^6 - 1323x^3 + 3087$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \right]_2^2$ | I: 54,12 | $\frac{41}{18}$ |
| $x^{12} + 9x^{10} + 27x^9 - 18x^8 - 36x^7 - 27x^6 - 27x^5 + 36x^3 - 27x^2 + 36$ | $x^{12} - 30x^9 + 288x^6 - 378x^3 + 567$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \right]_2^2$ | I: 18,3 | $\frac{13}{6}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|------------------|
| $x^{12} - 9x^{11} - 27x^{10} + 30x^9 - 36x^8 - 27x^7 - 36x^6 - 27x^5 + 18x^3 + 27x^2 - 18$ | $x^{12} - 24x^9 + 123x^6 + 252x^3 + 252$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2^2$ | I: 54,13 | $\frac{121}{54}$ |
| $x^{12} + 18x^{11} + 27x^{10} - 36x^9 + 27x^8 + 27x^7 + 24x^6 - 27x^5 + 27x^4 + 36$ | $x^{12} + 9x^6 + 9$ | $\begin{bmatrix} 3 & 5 \\ 2 & 2 \end{bmatrix}_2^2$ | I: 18,4 | $\frac{37}{18}$ |
| $x^{12} + 9x^{11} + 9x^{10} + 39x^9 + 36x^8 + 27x^7 + 30x^6 + 27x^5 + 18x^3 - 27x^2 + 36$ | $x^{12} - 21x^9 + 126x^6 - 441x^3 + 3087$ | $\begin{bmatrix} 2 & 5 \\ 2 & 2 \end{bmatrix}_2^6$ | I: 18,3 | $\frac{13}{6}$ |
| $x^{12} + 18x^{11} - 27x^{10} - 15x^9 - 9x^8 - 27x^7 + 9x^6 + 27x^5 - 27x^4 - 9x^3 + 27x + 9$ | $x^{12} - 12x^9 + 72x^6 - 144x^3 + 144$ | $\begin{bmatrix} 2 & 5 \\ 2 & 2 \end{bmatrix}_2^2$ | I: 18,3 | $\frac{13}{6}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|------------------|
| $x^{12} - 27x^{11} - 18x^{10} - 33x^9 + 9x^8 - 27x^7 - 21x^6 - 27x^5 - 27x^4 - 18x^3 + 27x^2 + 36$ | $x^{12} - 24x^9 + 207x^6 + 378x^3 + 567$ | $\left[\begin{matrix} 2 & \frac{5}{2} \\ & 2 \end{matrix} \right]_2^2$ | I: 18,3 | $\frac{13}{6}$ |
| $x^{12} + 27x^{11} - 27x^{10} + 3x^9 - 9x^8 - 36x^7 - 9x^6 + 27x^5 + 36x^3 + 27x + 36$ | $x^{12} - 36x^9 + 324x^6 + 1008$ | $\left[\begin{matrix} \frac{5}{2} \\ & 2 \end{matrix} \right]_2^6$ | I: 6,1 | $\frac{11}{6}$ |
| $x^{12} - 27x^{11} + 36x^{10} - 21x^9 - 36x^8 - 9x^7 + 33x^6 - 27x^5 - 27x^4 + 18x^3 - 27x^2 - 27x + 36$ | $x^{12} - 30x^9 + 351x^6 - 1386x^3 + 1764$ | $\left[\begin{matrix} \frac{3}{2} & 2 & \frac{5}{2} \\ & & 2 \end{matrix} \right]_2^6$ | I: 54,13 | $\frac{121}{54}$ |
| $x^{12} - 9x^{11} - 33x^9 - 18x^8 + 36x^7 + 36x^6 + 27x^5 - 27x^4 + 27x^3 - 27x^2 - 27x + 36$ | $x^{12} + 12x^6 + 144$ | $\left[\begin{matrix} 2 & \frac{5}{2} \\ & 2 \end{matrix} \right]_2^2$ | I: 18,3 | $\frac{13}{6}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{12} - 27x^{11} - 9x^{10} - 30x^9 +$ $9x^8 + 36x^7 - 18x^6 + 27x^5 -$ $18x^3 - 27x^2 + 9$ | $x^{12} - 6x^9 + 27x^6 - 54x^3 + 36$ | $\left[\begin{array}{ccc} 3 & 2 & 2 \\ 2 & 2 & 2 \end{array} \right]_2^2$ | I: 162,52 | $\frac{373}{162}$ |
| $x^{12} + 72x^{11} + 6x^9 - 27x^8 -$ $18x^7 - 33x^6 - 54x^5 + 9x^3 -$ $108x + 63$ | $x^{12} - 18x^9 + 207x^6 - 126x^3 + 1764$ | $\left[\begin{array}{ccc} 3 & 2 & 2 \\ 2 & 2 & 2 \end{array} \right]_2^2$ | I: 162,52 | $\frac{373}{162}$ |
| $x^{12} - 18x^{11} - 36x^{10} - 36x^8 +$ $36x^7 + 33x^6 + 27x^5 + 27x^3 -$ $27x^2 + 27x - 18$ | $x^{12} + 3x^6 + 9$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ 2 & 2 & 2 \end{array} \right]_2^2$ | I: 18,3 | $\frac{13}{6}$ |
| $x^{12} - 108x^{11} - 117x^{10} +$ $84x^9 - 72x^8 + 108x^7 - 78x^6 +$ $81x^5 - 108x^4 + 72x^3 + 54x^2 -$ $81x + 117$ | $x^{12} - 12x^9 + 57x^6 - 126x^3 + 252$ | $\left[\begin{array}{ccc} 3 & 2 & 2 \\ 2 & 2 & 2 \end{array} \right]_2^6$ | I: 54,13 | $\frac{121}{54}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--------------------------------------|--|----------|-----------------|
| $x^{12} - 18x^{11} - 27x^{10} + 15x^9 + 36x^8 + 27x^7 - 18x^6 - 27x^5 - 27x^4 - 36x^3 - 27x^2 + 36$ | $x^{12} - 6x^9 + 18x^6 - 18x^3 + 9$ | $\begin{bmatrix} 2 & \frac{5}{2} \\ & 2 \end{bmatrix}_2^2$ | I: 18,3 | $\frac{13}{6}$ |
| $x^{12} + 36x^{11} - 27x^{10} + 18x^9 - 18x^8 - 27x^7 + 36x^6 + 27x^5 - 27x^3 - 27x^2 + 9$ | $x^{12} + 72x^6 + 144$ | $\begin{bmatrix} \frac{3}{2} & \frac{5}{2} \\ & 2 \end{bmatrix}_2^2$ | I: 18,4 | $\frac{37}{18}$ |
| $x^{12} - 9x^{11} + 27x^{10} + 3x^9 - 36x^7 + 9x^6 + 27x^4 - 18x^3 + 36$ | $x^{12} - 9x^9 + 36x^6 - 63x^3 + 63$ | $\begin{bmatrix} 2 & 2 & \frac{5}{2} \\ & & 2 \end{bmatrix}_2^2$ | I: 54,12 | $\frac{41}{18}$ |
| $x^{12} + 81x^{11} - 81x^{10} + 51x^9 + 63x^8 - 108x^7 - 93x^6 + 108x^5 + 72x^3 + 108x^2 - 81x + 90$ | $x^{12} - 6x^9 + 18x^6 - 36x^3 + 36$ | $\begin{bmatrix} 2 & \frac{5}{2} \\ & 2 \end{bmatrix}_2^2$ | I: 18,3 | $\frac{13}{6}$ |
| $x^{12} - 18x^{11} + 27x^{10} + 18x^8 - 18x^7 + 24x^6 - 27x^2 + 27x + 36$ | $x^{12} + 63x^6 - 882x^3 + 3087$ | $\begin{bmatrix} 2 & 2 & \frac{5}{2} \\ & & 2 \end{bmatrix}_2^2$ | I: 54,12 | $\frac{41}{18}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{12} - 27x^{11} + 9x^{10} + 12x^9 + 27x^8 + 36x^7 - 9x^6 - 27x^5 - 27x^4 + 18x^3 + 27x + 36$ | $x^{12} - 42x^9 + 504x^6 + 882x^3 + 3087$ | $\left[\begin{array}{c} 5 \\ 2 \end{array} \right]_2^2$ | I: 18,3 | $\frac{13}{6}$ |
| $x^{12} + 9x^{11} - 18x^{10} + 30x^9 + 18x^7 + 36x^6 - 27x^5 + 27x^4 - 27x^3 + 27x^2 + 36$ | $x^{12} + 36$ | $\left[\begin{array}{c} 5 \\ 2 \end{array} \right]_2^2$ | I: 6,1 | $\frac{11}{6}$ |
| $x^{12} + 3x^{11} + 3$ | $x^{12} - 12x^{10} - 41x^9 + 54x^8 + 369x^7 + 477x^6 - 1107x^5 - 3429x^4 - 1136x^3 + 5265x^2 + 6729x - 446$ | $\left[\begin{array}{ccc} 13 & 13 & 19 \\ 8 & 8 & 8 \end{array} \right]_8^2$ | T: 12,173 | $\frac{493}{216}$ |
| $x^{12} - 12x^{11} + 9x^{10} - 3x^9 - 9x^7 + 6x^6 - 9x^5 + 9x^4 + 9x^3 + 9x^2 + 9x - 12$ | $x^{12} + 6x^{10} - 32x^9 - 324x^8 - 576x^7 - 2202x^6 - 3240x^5 + 7605x^4 + 3244x^3 - 19008x^2 + 2904x + 5284$ | $\left[\begin{array}{ccc} 15 & 15 & 19 \\ 8 & 8 & 8 \end{array} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 12x^{11} - 9x^{10} - 9x^7 + 6x^6 + 9x^5 + 9x^4 + 12x^3 + 9x^2 - 12$ | $x^{12} - 48x^{10} - 50x^9 + 864x^8 + 1800x^7 - 6060x^6 - 21600x^5 + 288x^4 + 81808x^3 + 122688x^2 + 55104x - 7424$ | $\left[\frac{15}{8} \quad \frac{15}{8} \quad \frac{19}{8} \quad \frac{19}{8} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| $x^{12} + 6x^{11} - 9x^{10} + 12x^9 - 9x^8 + 12x^6 + 9x^5 + 9x^4 + 3x^3 - 9x^2 + 9x + 3$ | $x^{12} - 30x^{10} - 32x^9 + 297x^8 + 612x^7 - 606x^6 - 2484x^5 - 2493x^4 - 4508x^3 - 10476x^2 - 10704x - 3824$ | $\left[\frac{15}{8} \quad \frac{15}{8} \quad \frac{19}{8} \quad \frac{19}{8} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| $x^{12} + 6x^{11} + 3x^9 + 9x^8 + 9x^7 - 12x^6 - 9x^4 - 6x^3 + 9x^2 + 9x - 6$ | $x^{12} - 12x^{10} - 16x^9 - 54x^8 + 564x^6 + 1296x^5 + 2457x^4 + 4256x^3 + 3240x^2 + 1920x + 400$ | $\left[\frac{15}{8} \quad \frac{15}{8} \quad \frac{19}{8} \quad \frac{19}{8} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| $x^{12} - 12x^{11} - 9x^{10} + 3x^9 + 6x^6 + 9x^5 + 9x^4 + 6x^3 - 9x^2 + 9x + 3$ | $x^{12} - 12x^{10} - 16x^9 - 162x^8 - 720x^7 - 900x^6 - 432x^5 - 63x^4 + 944x^3 + 648x^2 + 192x - 80$ | $\left[\frac{13}{8} \quad \frac{13}{8} \quad \frac{19}{8} \quad \frac{19}{8} \right]_8^2$ | T: 12,173 | $\frac{493}{216}$ |
| $x^{12} + 6x^{11} - 6x^9 + 9x^7 - 9x^6 - 9x^5 - 9x^4 - 6x^3 - 9x^2 + 9x + 6$ | $x^{12} - 3x^{10} - 4x^9 - 27x^8 - 24x^6 - 27x^5 + 63x^4 - 52x^3 + 3x - 5$ | $\left[\frac{13}{8} \quad \frac{13}{8} \quad \frac{19}{8} \quad \frac{19}{8} \right]_8^2$ | T: 12,173 | $\frac{493}{216}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{12} + 6x^{11} + 6x^9 - 12x^6 + 9x^5 + 9x^4 - 3x^3 + 9x^2 + 9x + 12$ | $x^{12} - 12x^{10} - 25x^9 + 54x^8 + 225x^7 + 15x^6 - 675x^5 - 657x^4 + 410x^3 + 1107x^2 + 795x + 214$ | $\left[\begin{array}{c} \frac{13}{8} \\ \frac{13}{8} \\ \frac{19}{8} \\ \frac{19}{8} \end{array} \right]_8^2$ | T: 12,173 | $\frac{493}{216}$ |
| $x^{12} + 6x^{11} - 9x^{10} + 9x^8 - 9x^6 - 9x^5 + 6x^3 - 9x - 12$ | $x^{12} - 21x^{10} - 32x^9 + 108x^8 + 387x^7 + 537x^6 + 270x^5 - 864x^4 - 1646x^3 + 888x - 212$ | $\left[\begin{array}{c} \frac{13}{8} \\ \frac{13}{8} \\ \frac{19}{8} \\ \frac{19}{8} \end{array} \right]_8^2$ | T: 12,173 | $\frac{493}{216}$ |
| $x^{12} - 12x^{11} + 9x^{10} + 9x^9 + 9x^8 + 9x^7 + 9x^6 + 9x^4 + 3x^3 + 9x - 12$ | $x^{12} + 15x^{10} - 40x^9 - 324x^8 + 369x^7 + 1302x^6 - 1998x^5 - 2385x^4 + 5387x^3 - 972x^2 - 2130x + 898$ | $\left[\begin{array}{c} \frac{13}{8} \\ \frac{13}{8} \\ \frac{19}{8} \\ \frac{19}{8} \end{array} \right]_8^2$ | T: 12,173 | $\frac{493}{216}$ |
| $x^{12} + 6x^{11} + 9x^{10} + 3x^9 - 9x^8 - 9x^6 + 9x^4 - 9x^3 + 9x^2 + 3$ | $x^{12} - 12x^{10} - 40x^9 - 324x^8 - 720x^7 - 648x^6 - 864x^5 - 549x^4 - 1480x^3 - 2160x^2 - 1536x - 368$ | $\left[\begin{array}{c} \frac{13}{8} \\ \frac{13}{8} \\ \frac{19}{8} \\ \frac{19}{8} \end{array} \right]_8^2$ | T: 12,173 | $\frac{493}{216}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} - 12x^{11} - 3x^9 + 9x^8 + 9x^7 -$ $3x^6 - 9x^4 - 6x^3 + 9x - 6$ | $x^{12} - 3x^{10} - 10x^9 - 108x^8 + 270x^7 -$ $849x^6 + 2916x^5 - 351x^4 - 18760x^3 +$ $44766x^2 - 30408x - 21248$ | $\left[\frac{15}{8} \quad \frac{15}{8} \quad \frac{19}{8} \quad \frac{19}{8} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| $x^{12} - 6x^{11} - 9x^{10} + 12x^9 -$ $9x^8 - 9x^7 + 9x^6 + 9x^5 + 9x^4 +$ $12x^3 - 9x^2 - 9x - 6$ | $x^{12} - 12x^{10} - 8x^9 + 54x^8 + 72x^7 -$ $468x^6 - 216x^5 + 2241x^4 + 1720x^3 -$ $3240x^2 - 4512x + 10768$ | $\left[\frac{15}{8} \quad \frac{15}{8} \quad \frac{19}{8} \quad \frac{19}{8} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| $x^{12} - 12x^{11} + 9x^{10} - 9x^8 -$ $9x^7 - 12x^6 - 9x^5 + 12x^3 +$ $9x^2 - 9x - 6$ | $x^{12} - 12x^{10} - 8x^9 - 108x^8 - 576x^7 -$ $456x^6 + 1296x^5 + 3690x^4 + 8224x^3 +$ $15120x^2 + 15360x + 5344$ | $\left[\frac{15}{8} \quad \frac{15}{8} \quad \frac{19}{8} \quad \frac{19}{8} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| $x^{12} - 3x^{11} + 9x^{10} + 12x^9 +$ $12x^6 - 6x^3 + 9x + 3$ | $x^{12} + 24x^{10} - 32x^9 + 216x^8 - 576x^7 +$ $672x^6 - 3456x^5 - 1008x^4 - 5888x^3 -$ $6912x^2 + 6144x + 1024$ | $\left[\frac{15}{8} \quad \frac{15}{8} \quad \frac{19}{8} \quad \frac{19}{8} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} - 6x^{11} - 6x^9 + 9x^8 + 9x^7 - 9x^5 + 9x^3 - 9x^2 - 9x + 6$ | $x^{12} - 12x^{10} - 40x^9 - 108x^8 - 72x^7 + 1080x^6 + 2592x^5 + 693x^4 - 3616x^3 - 3888x^2 - 1248x + 16$ | $\left[\begin{array}{c} \frac{15}{8} \\ \frac{15}{8} \\ \frac{19}{8} \\ \frac{19}{8} \end{array} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| $x^{12} + 12x^{11} + 9x^{10} + 3x^9 + 9x^7 - 9x^6 + 9x^5 + 9x^4 + 12x^3 + 9x^2 + 9x - 3$ | $x^{12} - 12x^{10} - x^9 + 54x^8 + 9x^7 - 105x^6 - 27x^5 + 63x^4 + 44x^3 + 27x^2 - 51x - 5$ | $\left[\begin{array}{c} \frac{13}{8} \\ \frac{13}{8} \\ \frac{19}{8} \\ \frac{19}{8} \end{array} \right]_8^2$ | T: 12,173 | $\frac{493}{216}$ |
| $x^{12} - 3x^{11} - 12x^9 + 6x^6 - 9x^4 + 9x^3 - 9x^2 - 3$ | $x^{12} - 3x^{10} - 7x^9 - 54x^8 - 144x^7 - 174x^6 + 108x^5 + 1548x^4 + 3668x^3 + 3888x^2 + 2208x + 568$ | $\left[\begin{array}{c} \frac{15}{8} \\ \frac{15}{8} \\ \frac{19}{8} \\ \frac{19}{8} \end{array} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| $x^{12} - 6x^{11} - 9x^{10} - 9x^9 + 9x^7 - 6x^6 - 9x^4 - 6x^3 - 9x^2 - 12$ | $x^{12} + 24x^{10} - 8x^9 + 162x^8 - 144x^7 + 168x^6 - 864x^5 - 162x^4 + 16x^3 + 1296x^2 + 384x - 704$ | $\left[\begin{array}{c} \frac{19}{8} \\ \frac{19}{8} \end{array} \right]_8^2$ | T: 12,46 | $\frac{53}{24}$ |
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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} - 3x^{11} - 9x^{10} + 9x^8 - 12x^6 + 9x^4 + 3x^3 + 9x - 3$ | $x^{12} - 12x^{10} - 8x^9 + 54x^8 + 72x^7 - 756x^6 - 216x^5 + 3969x^4 + 5944x^3 - 5832x^2 - 17184x - 9584$ | $\left[\frac{15}{8} \quad \frac{15}{8} \quad \frac{19}{8} \quad \frac{19}{8} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| $x^{12} - 12x^{11} - 12x^9 - 9x^8 - 9x^7 + 9x^6 + 9x^5 + 9x^4 - 12x^3 + 9x^2 + 9x + 12$ | $x^{12} + 6x^{10} - 94x^9 - 135x^8 - 1314x^7 + 1512x^6 + 3672x^5 + 52992x^4 + 87056x^3 + 280584x^2 + 105456x - 33536$ | $\left[\frac{15}{8} \quad \frac{15}{8} \quad \frac{19}{8} \quad \frac{19}{8} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| $x^{12} + 6x^{11} + 9x^{10} + 6x^9 + 9x^8 - 9x^7 - 12x^6 - 9x^4 - 12x^3 - 9x^2 - 9x + 6$ | $x^{12} + 24x^{10} - 20x^9 - 162x^8 - 648x^7 - 2328x^6 - 3564x^5 - 3627x^4 - 5624x^3 + 2592x^2 + 312x - 8$ | $\left[\frac{15}{8} \quad \frac{15}{8} \quad \frac{19}{8} \quad \frac{19}{8} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| $x^{12} - 6x^{11} - 9x^{10} - 6x^9 - 9x^8 + 9x^7 - 3x^6 - 3x^3 - 9x^2 + 9x - 12$ | $x^{12} - 27x^{10} - 51x^9 + 216x^8 + 666x^7 - 366x^6 - 2160x^5 + 756x^4 + 9684x^3 + 14256x^2 + 8856x + 2088$ | $\left[\frac{15}{8} \quad \frac{15}{8} \quad \frac{19}{8} \quad \frac{19}{8} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} + 6x^{11} - 6x^9 + 9x^8 + 9x^7 - 9x^4 - 3x^3 + 9x - 6$ | $x^{12} - 12x^{10} - 8x^9 + 54x^8 + 72x^7 + 12x^6 - 216x^5 - 639x^4 + 1336x^3 + 1080x^2 - 3360x + 400$ | $\left[\begin{array}{c} 15 \\ 8 \end{array} \quad \begin{array}{c} 15 \\ 8 \end{array} \quad \begin{array}{c} 19 \\ 8 \end{array} \quad \begin{array}{c} 19 \\ 8 \end{array} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| $x^{12} - 12x^{11} - 9x^{10} + 6x^9 + 9x^6 - 9x^4 + 6x^3 - 9x - 12$ | $x^{12} - 12x^{10} - 4x^9 + 54x^8 + 36x^7 - 132x^6 - 108x^5 + 225x^4 + 116x^3 - 216x^2 - 24x + 88$ | $\left[\begin{array}{c} 19 \\ 8 \end{array} \quad \begin{array}{c} 19 \\ 8 \end{array} \right]_8^2$ | T: 12,46 | $\frac{53}{24}$ |
| $x^{12} + 6x^{11} + 6x^9 + 9x^7 - 3x^6 + 3x^3 + 9x^2 - 12$ | $x^{12} - 3x^{10} - 26x^9 - 54x^8 + 27x^7 + 54x^6 + 108x^5 + 351x^4 - 341x^3 - 2268x^2 + 4488x - 2396$ | $\left[\begin{array}{c} 13 \\ 8 \end{array} \quad \begin{array}{c} 13 \\ 8 \end{array} \quad \begin{array}{c} 19 \\ 8 \end{array} \quad \begin{array}{c} 19 \\ 8 \end{array} \right]_8^2$ | T: 12,173 | $\frac{493}{216}$ |
| $x^{12} + 12x^{11} + 9x^{10} + 9x^9 - 9x^8 - 9x^7 + 12x^6 + 9x^5 - 9x^2 + 9x + 3$ | $x^{12} - 12x^{10} - 8x^9 + 54x^8 + 72x^7 - 282x^6 - 216x^5 + 1125x^4 - 476x^3 - 1566x^2 + 2076x - 776$ | $\left[\begin{array}{c} 15 \\ 8 \end{array} \quad \begin{array}{c} 15 \\ 8 \end{array} \quad \begin{array}{c} 19 \\ 8 \end{array} \quad \begin{array}{c} 19 \\ 8 \end{array} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 6x^{11} - 9x^{10} + 9x^8 - 9x^7 + 6x^6 - 9x^4 + 6x^3 - 9x^2 + 6$ | $x^{12} - 12x^{10} - 16x^9 + 144x^7 + 48x^6 - 648x^5 - 639x^4 + 2216x^3 - 432x^2 + 768x + 592$ | $\left[\frac{15}{8} \quad \frac{15}{8} \quad \frac{19}{8} \quad \frac{19}{8} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| $x^{12} - 12x^{11} - 9x^9 + 9x^8 - 9x^7 - 12x^6 - 9x^5 - 9x^3 - 9x + 6$ | $x^{12} - 12x^{10} - 32x^9 - 816x^6 + 648x^5 - 3519x^4 - 1256x^3 - 1296x^2 - 192x + 208$ | $\left[\frac{19}{8} \quad \frac{19}{8} \right]_8^2$ | T: 12,46 | $\frac{53}{24}$ |
| $x^{12} + 12x^{11} - 9x^{10} + 12x^9 + 9x^7 - 9x^6 - 6x^3 - 9x^2 - 9x - 12$ | $x^{12} + 24x^{10} - 64x^9 + 162x^8 - 792x^7 + 888x^6 - 864x^5 - 639x^4 + 1928x^3 - 864x^2 + 768x + 1168$ | $\left[\frac{15}{8} \quad \frac{15}{8} \quad \frac{19}{8} \quad \frac{19}{8} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| $x^{12} - 6x^{11} + 9x^{10} - 12x^9 - 9x^8 + 9x^7 + 12x^6 + 9x^5 + 9x^3 - 9x^2 + 9x + 12$ | $x^{12} - 12x^{10} - 16x^9 - 108x^8 - 432x^6 - 1728x^5 + 144x^4 - 2944x^3 - 3456x^2 - 6144x - 5120$ | $\left[\frac{15}{8} \quad \frac{15}{8} \quad \frac{19}{8} \quad \frac{19}{8} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| $x^{12} + 6x^{11} - 9x^{10} - 9x^9 - 9x^8 - 9x^7 - 9x^6 + 9x^5 + 9x^4 + 6x^3 - 9x^2 - 9x + 12$ | $x^{12} - 12x^{10} - 8x^9 - 54x^8 - 360x^7 - 12x^6 + 1944x^5 + 513x^4 - 2504x^3 - 216x^2 - 480x + 400$ | $\left[\frac{15}{8} \quad \frac{15}{8} \quad \frac{19}{8} \quad \frac{19}{8} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{12} - 3x^{11} + 9x^{10} + 12x^9 - 9x^8 + 9x^7 + 6x^6 + 9x^3 - 9x - 3$ | $x^{12} - 39x^{10} - 37x^9 + 324x^8 + 342x^7 - 1278x^6 - 216x^5 + 1440x^4 - 292x^3 - 2592x^2 + 624x + 4672$ | $\left[\begin{array}{ccc} \frac{13}{8} & \frac{13}{8} & \frac{19}{8} \\ & \frac{19}{8} & \frac{19}{8} \end{array} \right]_8^2$ | T: 12,173 | $\frac{493}{216}$ |
| $x^{12} + 6x^{11} + 9x^{10} + 9x^9 + 9x^8 + 9x^7 - 3x^6 + 9x^4 - 3x^3 + 9x^2 - 9x + 12$ | $x^{12} - 12x^{10} - 56x^9 - 216x^8 - 288x^7 + 96x^6 + 432x^5 + 1854x^4 - 800x^3 + 432x^2 - 3072x + 1696$ | $\left[\begin{array}{ccc} \frac{15}{8} & \frac{15}{8} & \frac{19}{8} \\ & \frac{19}{8} & \frac{19}{8} \end{array} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| $x^{12} + 12x^{11} - 9x^{10} - 12x^9 - 9x^8 + 9x^5 + 9x^4 - 3x^3 + 9x + 6$ | $x^{12} - 12x^{10} - 64x^9 - 108x^8 + 432x^7 + 1320x^6 - 1980x^4 - 3424x^3 - 2592x^2 + 768x + 1408$ | $\left[\begin{array}{ccc} \frac{15}{8} & \frac{15}{8} & \frac{19}{8} \\ & \frac{19}{8} & \frac{19}{8} \end{array} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| $x^{12} - 3x^{11} + 9x^7 - 9x^6 - 9x^4 - 9x$ | $x^{12} - 12x^{10} - 56x^9 + 54x^8 + 504x^7 - 228x^6 - 1512x^5 + 801x^4 + 2824x^3 - 1080x^2 - 3936x + 2704$ | $\left[\begin{array}{ccc} \frac{15}{8} & \frac{15}{8} & \frac{19}{8} \\ & \frac{19}{8} & \frac{19}{8} \end{array} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{12} + 3x^{11} - 9x^{10} - 9x^8 - 9x^5 + 9x^4 + 3x^3 + 9x^2 + 9x - 6$ | $x^{12} + 15x^{10} - 20x^9 + 135x^8 + 252x^7 + 297x^6 - 396x^4 + 328x^3 - 756x^2 - 624x + 256$ | $\left[\frac{19}{8} \frac{19}{8} \right]_8^2$ | T: 12,46 | $\frac{53}{24}$ |
| $x^{12} + 3x^{11} + 3x^9 - 9x^8 + 9x^7 - 6x^6 + 9x^5 - 6x^3 + 9x + 3$ | $x^{12} + 6x^{10} - 28x^9 - 135x^8 + 468x^7 - 1260x^6 + 3672x^5 - 7200x^4 - 22240x^3 + 69120x^2 + 46848x - 75776$ | $\left[\frac{15}{8} \frac{15}{8} \frac{19}{8} \frac{19}{8} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| $x^{12} - 6x^{11} + 9x^{10} - 9x^9 - 6x^6 + 9x^5 - 9x^4 - 9x^2 + 9x - 3$ | $x^{12} - 12x^{10} - 4x^9 + 54x^8 + 36x^7 - 108x^6 - 108x^5 + 81x^4 + 140x^3 - 96x - 32$ | $\left[\frac{15}{8} \frac{15}{8} \frac{19}{8} \frac{19}{8} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| $x^{12} + 3x^{11} + 9x^{10} - 6x^9 + 9x^8 - 6x^6 + 9x^5 + 12x^3 - 6$ | $x^{12} - 12x^{10} - 8x^9 + 54x^8 + 72x^7 - 180x^6 - 216x^5 + 513x^4 + 952x^3 - 648x^2 - 2208x - 1520$ | $\left[\frac{13}{8} \frac{13}{8} \frac{19}{8} \frac{19}{8} \right]_8^2$ | T: 12,173 | $\frac{493}{216}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{12} - 3x^{11} + 3x^9 + 3x^6 - 3x^3 + 3$ | $x^{12} - 48x^{10} - 56x^9 + 702x^8 + 1368x^7 - 3192x^6 - 8856x^5 + 1395x^4 + 16792x^3 + 10800x^2 - 1920x - 2336$ | $\left[\frac{19}{8} \frac{19}{8} \right]_8^2$ | T: 12,46 | $\frac{53}{24}$ |
| $x^{12} - 12x^{11} - 9x^{10} + 9x^9 - 9x^7 + 12x^6 + 9x^5 - 9x^4 + 12x^3 - 9x^2 + 9x + 3$ | $x^{12} + 33x^{10} - 10x^9 + 216x^8 - 234x^7 + 105x^6 + 702x^5 - 4491x^4 + 134x^3 - 1728x^2 + 408x + 16$ | $\left[\frac{15}{8} \frac{15}{8} \frac{19}{8} \frac{19}{8} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| $x^{12} - 12x^{11} + 9x^{10} + 9x^8 + 9x^7 - 6x^6 - 9x^5 + 6x^3 + 9x^2 - 9x - 12$ | $x^{12} - 12x^{10} - 8x^9 + 54x^8 + 72x^7 - 180x^6 - 216x^5 + 513x^4 + 568x^3 - 648x^2 - 1056x + 1168$ | $\left[\frac{15}{8} \frac{15}{8} \frac{19}{8} \frac{19}{8} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| $x^{12} + 6x^{11} - 12x^9 - 9x^8 - 9x^7 - 6x^6 - 9x^5 - 9x^4 + 9x^2 - 9x + 3$ | $x^{12} - 12x^{10} - 8x^9 + 108x^8 + 216x^7 - 960x^6 - 3888x^5 - 1269x^4 + 14464x^3 + 28944x^2 + 22560x + 6544$ | $\left[\frac{15}{8} \frac{15}{8} \frac{19}{8} \frac{19}{8} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 3x^{11} + 9x^{10} - 12x^9 +$ $9x^8 - 9x^5 - 9x^4 - 3x^3 + 9x^2 +$ $9x - 12$ | $x^{12} - 3x^{10} - 50x^9 + 144x^7 - 864x^6 -$ $432x^5 - 2304x^4 - 2768x^3 + 216x^2 +$ $1320x + 7312$ | $\left[\frac{15}{8} \quad \frac{15}{8} \quad \frac{19}{8} \quad \frac{19}{8} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| $x^{12} + 3x^{11} + 9x^{10} + 6x^9 - 9x^8 +$ $9x^7 + 3x^6 - 3x^3 - 12$ | $x^{12} - 12x^{10} - 20x^9 + 54x^8 + 180x^7 -$ $60x^6 - 540x^5 - 207x^4 + 700x^3 +$ $432x^2 - 480x - 416$ | $\left[\frac{15}{8} \quad \frac{15}{8} \quad \frac{19}{8} \quad \frac{19}{8} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| $x^{12} - 12x^{11} - 9x^{10} - 6x^9 +$ $9x^7 + 9x^6 + 9x^5 - 9x^2 + 9x + 3$ | $x^{12} - 12x^{10} - 8x^9 + 54x^8 + 72x^7 -$ $276x^6 - 216x^5 + 1089x^4 + 952x^3 -$ $1512x^2 - 2208x + 2320$ | $\left[\frac{15}{8} \quad \frac{15}{8} \quad \frac{19}{8} \quad \frac{19}{8} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| $x^{12} + 6x^{11} + 9x^{10} - 9x^9 - 9x^8 +$ $9x^7 - 3x^6 - 9x^4 - 12x^3 + 9x^2 -$ 3 | $x^{12} - 12x^{10} - 4x^9 + 54x^8 + 36x^7 -$ $108x^6 - 108x^5 + 81x^4 + 116x^3 - 24x - 8$ | $\left[\frac{15}{8} \quad \frac{15}{8} \quad \frac{19}{8} \quad \frac{19}{8} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{12} - 3x^{11} - 3x^6 - 3x^3 - 3$ | $x^{12} - 30x^{10} - 52x^9 + 108x^8 + 288x^7 + 684x^6 + 2268x^5 + 990x^4 - 9232x^3 - 19224x^2 - 15072x - 4328$ | $\left[\begin{array}{c} \frac{15}{8} \\ \frac{15}{8} \\ \frac{19}{8} \\ \frac{19}{8} \end{array} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| $x^{12} - 3x^{11} + 9x^9 + 9x^7 + 3x^6 + 9x^5 + 9x^4 - 9x + 3$ | $x^{12} + 6x^{10} - 83x^9 - 135x^8 - 126x^7 + 1248x^6 + 6345x^5 + 12996x^4 - 17972x^3 - 92448x^2 - 91488x + 256$ | $\left[\begin{array}{c} \frac{15}{8} \\ \frac{15}{8} \\ \frac{19}{8} \\ \frac{19}{8} \end{array} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| $x^{12} + 12x^{11} - 9x^8 - 9x^7 + 3x^6 - 9x^5 + 9x^4 - 9x^3 + 9x^2 + 3$ | $x^{12} - 54x^8 - 144x^7 - 48x^6 - 432x^5 - 1647x^4 - 288x^3 + 1296x^2 - 864x - 720$ | $\left[\begin{array}{c} \frac{15}{8} \\ \frac{15}{8} \\ \frac{19}{8} \\ \frac{19}{8} \end{array} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| $x^{12} + 6x^{11} - 9x^{10} - 3x^9 - 9x^8 - 3x^6 + 9x^5 + 9x^4 - 9x^3 - 9x + 3$ | $x^{12} - 36x^{10} - 24x^9 + 162x^8 - 216x^7 - 732x^6 + 1080x^5 + 2403x^4 - 1080x^3 - 648x^2 - 864x - 3312$ | $\left[\begin{array}{c} \frac{19}{8} \\ \frac{19}{8} \end{array} \right]_8^2$ | T: 12,46 | $\frac{53}{24}$ |
| $x^{12} + 12x^{11} + 9x^{10} - 3x^9 - 9x^8 - 9x^7 - 3x^3 - 9x^2 - 9x + 12$ | $x^{12} - 24x^9 - 108x^8 - 216x^7 - 828x^6 + 2592x^5 - 1485x^4 + 15120x^3 + 13608x^2 - 46656x - 30672$ | $\left[\begin{array}{c} \frac{13}{8} \\ \frac{13}{8} \\ \frac{19}{8} \\ \frac{19}{8} \end{array} \right]_8^2$ | T: 12,173 | $\frac{493}{216}$ |
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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{12} + 6x^{11} + 9x^{10} + 6x^9 - 9x^8 - 9x^7 + 9x^6 - 6x^5 + 9x^4 - 9x^3 - 9x^2 - 9x - 12$ | $x^{12} + 24x^{10} - 16x^9 + 162x^8 - 216x^7 + 24x^6 - 432x^5 - 63x^4 + 8x^3 + 192x + 16$ | $\left[\begin{array}{c} 15 \\ 8 \end{array} \quad \begin{array}{c} 15 \\ 8 \end{array} \quad \begin{array}{c} 19 \\ 8 \end{array} \quad \begin{array}{c} 19 \\ 8 \end{array} \right]_8^2$ | T: 12,173 | $\frac{1495}{648}$ |
| $x^{12} + 3$ | $x^{12} - 3x^9 + 9x^6 - 9x^3 + 3$ | $\left[\begin{array}{c} 5 \\ 2 \end{array} \right]_4^2$ | T: 12,5 | $\frac{23}{12}$ |
| $x^{12} - 12x^9 - 9x^8 + 9x - 12$ | $x^{12} - 3x^9 - 15x^6 - 9x^3 + 9$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \quad \begin{array}{c} 5 \\ 2 \end{array} \right]_4^2$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} - 9x^{10} - 12x^9 + 9x^8 - 9x^7 - 3x^6 + 9x^5 - 12x^3 + 9x^2 + 9x + 6$ | $x^{12} - 12x^9 + 36x^6 + 48x^3 - 12$ | $\left[2 \quad \begin{array}{c} 9 \\ 4 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \quad \begin{array}{c} 5 \\ 2 \end{array} \right]_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{11} - 9x^9 - 9x^7 + 6x^6 + 12x^3 - 3$ | $x^{12} - 3x^9 + 3x^6 - 9x^3 + 9$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \quad \begin{array}{c} 5 \\ 2 \end{array} \right]_4^2$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} + 9x^{11} - 9x^{10} - 3x^9 - 9x^8 - 9x^7 + 6x^6 + 9x^4 + 6x^3 - 9x - 3$ | $x^{12} - 33x^9 + 300x^6 + 171x^3 - 3$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \quad \begin{array}{c} 5 \\ 4 \end{array} \quad 2 \quad \begin{array}{c} 5 \\ 2 \end{array} \right]_4^2$ | T: 12,131 | $\frac{727}{324}$ |
| $x^{12} + 9x^{11} + 9x^{10} - 6x^9 + 9x^7 - 3x^6 - 9x^5 + 9x^4 + 3x^3 + 9x^2 + 9x + 6$ | $x^{12} - 24x^9 - 54x^8 + 216x^7 + 144x^6 + 648x^5 - 3303x^4 - 2952x^3 + 19440x^2 - 22464x + 9024$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \quad \begin{array}{c} 5 \\ 4 \end{array} \quad \begin{array}{c} 5 \\ 2 \end{array} \right]_4^2$ | T: 12,72 | $\frac{223}{108}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{12} + 9x^{11} + 9x^8 - 9x^7 - 9x^6 - 9x^5 - 9x^4 - 6x^3 - 9x^2 + 12$ | $x^{12} - 42x^9 + 651x^6 - 1470x^3 + 1029$ | $\begin{bmatrix} 9 & 9 & 5 \\ 4 & 4 & 2 \end{bmatrix}_4^6$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} + 9x^{11} - 6x^9 + 9x^7 + 6x^6 + 9x^5 + 9x^4 + 12x^3 - 9x + 6$ | $x^{12} - 6x^9 + 12x^6 - 6x^3 - 3$ | $\begin{bmatrix} 2 & 9 & 9 & 5 \\ & 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{10} + 9x^7 + 9x^6 - 9x^4 + 9x^2 + 9x - 12$ | $x^{12} - 24x^6 - 96x^3 + 96$ | $\begin{bmatrix} 2 & 9 & 9 & 5 \\ & 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{11} - 9x^{10} + 6x^9 + 9x^8 + 9x^7 + 12x^6 + 9x^4 + 12x^3 + 12$ | $x^{12} - 3x^9 + 60x^6 - 126x^3 + 441$ | $\begin{bmatrix} 9 & 9 & 5 \\ 4 & 4 & 2 \end{bmatrix}_4^6$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} - 9x^{11} + 12x^9 - 9x^8 + 3x^6 + 9x^5 + 9x^4 + 3x^3 + 9x^2 - 9x + 6$ | $x^{12} - 9x^{10} - 12x^9 + 108x^8 - 18x^7 - 177x^6 + 351x^4 + 486x^3 + 486x^2 + 540x + 360$ | $\begin{bmatrix} 9 & 9 & 5 \\ 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} + 9x^{10} - 9x^9 - 9x^8 - 9x^7 + 6x^6 - 9x^5 - 9x^4 - 6x^3 - 9x^2 + 9x + 6$ | $x^{12} + 18x^{10} - 96x^9 + 405x^8 - 540x^7 + 72x^6 - 1296x^5 - 7479x^4 - 7176x^3 - 16200x^2 + 7200x + 55500$ | $\begin{bmatrix} 5 & 5 & 2 \\ 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{727}{324}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{12} - 9x^{11} + 9x^{10} - 9x^9 - 9x^7 + 6x^6 + 9x^5 + 9x^4 - 12x^3 + 9x + 3$ | $x^{12} - 6x^9 + 18x^6 - 21x^3 + 21$ | $\left[\begin{array}{c} 2 \quad \frac{9}{4} \quad \frac{9}{4} \\ \frac{5}{2} \end{array} \right]_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} + 9x^{10} + 9x^9 - 9x^8 + 6x^6 + 9x^5 - 9x^4 - 3x^3 + 9x^2 - 9x - 12$ | $x^{12} - 6x^9 + 36x^3 + 6$ | $\left[\begin{array}{c} \frac{5}{2} \\ 2 \end{array} \right]_4^2$ | T: 12,5 | $\frac{23}{12}$ |
| $x^{12} + 9x^{11} - 3x^9 - 9x^8 - 9x^7 + 12x^6 - 9x^4 - 6x^3 + 3$ | $x^{12} - 18x^9 + 66x^6 + 84x^3 + 588$ | $\left[\begin{array}{c} \frac{9}{4} \quad \frac{9}{4} \quad \frac{5}{2} \\ 4 \end{array} \right]_4^6$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} - 9x^{10} + 9x^9 + 9x^8 - 9x^7 - 12x^6 - 9x^5 - 9x^4 + 12x^3 + 9x^2 - 9x + 3$ | $x^{12} + 6x^6 - 12x^3 + 12$ | $\left[\begin{array}{c} 2 \quad \frac{9}{4} \quad \frac{9}{4} \\ \frac{5}{2} \end{array} \right]_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{11} - 9x^{10} - 9x^9 + 3x^6 + 9x^5 + 9x^4 - 3x^3 - 9x^2 + 12$ | $x^{12} + 546x^6 - 1176x^3 + 1029$ | $\left[\begin{array}{c} 2 \quad \frac{9}{4} \quad \frac{9}{4} \\ \frac{5}{2} \end{array} \right]_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{11} + 9x^{10} + 3x^9 - 9x^8 + 9x^7 + 6x^6 + 9x^5 - 9x^4 + 6x^3 + 9x^2 + 12$ | $x^{12} - 42x^9 + 294x^6 - 12348x^3 + 605052$ | $\left[\begin{array}{c} \frac{9}{4} \quad \frac{9}{4} \quad \frac{5}{2} \\ 4 \end{array} \right]_4^6$ | T: 12,72 | $\frac{85}{36}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{12} + 3x^9 + 9x^8 + 9x^4 - 12x^3 - 9x^2 + 9x - 3$ | $x^{12} + 12x^6 - 72x^3 + 36$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & & \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} + 9x^{11} + 9x^{10} + 9x^9 + 9x^8 - 9x^7 - 12x^6 - 9x^2 - 3$ | $x^{12} - 12$ | $\begin{bmatrix} \frac{5}{2} \\ & & & \end{bmatrix}_4^2$ | T: 12,5 | $\frac{23}{12}$ |
| $x^{12} + 9x^{10} + 3x^9 + 9x^8 - 9x^7 + 12x^6 + 9x^5 - 9x^4 + 6x^3 + 9x^2 - 9x + 12$ | $x^{12} - 12x^9 + 30x^6 + 36x^3 + 12$ | $\begin{bmatrix} 2 & \frac{5}{2} \\ & & & \end{bmatrix}_4^2$ | T: 12,19 | $\frac{79}{36}$ |
| $x^{12} + 9x^{10} + 9x^9 - 9x^8 - 9x^7 - 3x^6 + 9x^5 + 3x^3 + 9x^2 + 3$ | $x^{12} - 36x^9 + 54x^8 + 108x^7 + 540x^6 - 756x^5 - 1125x^4 - 3252x^3 + 2592x^2 + 4032x + 8634$ | $\begin{bmatrix} \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & \end{bmatrix}_4^2$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} - 9x^{11} - 9x^9 + 9x^8 + 9x^7 - 3x^6 + 9x^5 - 6x^3 - 9x - 12$ | $x^{12} - 6x^9 + 54x^6 - 135x^3 - 648$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & & \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{11} + 9x^{10} + 9x^8 + 9x^7 - 12x^6 + 9x^4 + 12x^3 - 9x^2 + 12$ | $x^{12} - 60x^9 + 900x^6 + 480x^3 + 336$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & & \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{12} - 9x^{10} + 3x^9 - 9x^8 - 9x^7 - 6x^6 + 9x^4 + 6x^3 + 9x - 12$ | $x^{12} - 9x^9 + 36x^6 - 21x^3 - 3$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & & \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{11} - 12x^9 - 9x^6 + 9x^5 + 9x^4 + 3x^3 - 3$ | $x^{12} - 6x^6 - 36x^3 - 18$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & & \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} + 9x^{11} - 9x^{10} + 9x^7 - 9x^6 + 9x^5 - 9x^4 - 12x^3 - 9x^2 + 9x - 12$ | $x^{12} - 18x^{10} - 30x^9 + 27x^8 + 342x^7 + 792x^6 + 162x^5 - 387x^4 - 2928x^3 - 5994x^2 - 4644x - 948$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & & \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| 12 | | | | |
| $x^{12} - 12x^9 + 9x^6 - 9x^5 + 9x^4 - 9x^3 + 3$ | $x^{12} - 12x^9 + 54x^8 + 36x^7 + 60x^6 - 108x^5 + 315x^4 - 444x^3 - 144x + 282$ | $\begin{bmatrix} \frac{5}{4} & \frac{5}{4} & \frac{5}{2} \\ & & \end{bmatrix}_4^2$ | T: 12,72 | $\frac{223}{108}$ |
| $x^{12} - 9x^{11} + 9x^{10} - 12x^9 + 9x^7 + 9x^4 - 9x^3 - 9x - 12$ | $x^{12} - 6x^9 + 24x^6 - 24x^3 + 6$ | $\begin{bmatrix} \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & \end{bmatrix}_4^2$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} + 9x^{11} + 9x^{10} + 9x^8 + 9x^5 - 9x^4 + 6x^3 - 9x^2 - 9x + 3$ | $x^{12} - 12x^6 + 48$ | $\begin{bmatrix} 2 & \frac{5}{2} \\ & \end{bmatrix}_4^2$ | T: 12,19 | $\frac{79}{36}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{12} - 9x^{11} - 9x^{10} + 12x^9 - 9x^8 + 9x^7 - 6x^6 - 9x^5 + 9x^4 - 9x^3 - 9x^2 + 9x - 3$ | $x^{12} - 3x^9 - 6x^6 - 6x^3 - 3$ | $\left[\begin{array}{ccc} 2 & \frac{9}{4} & \frac{5}{2} \\ & \frac{9}{4} & \frac{5}{2} \\ & & 4 \end{array} \right]_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} + 9x^{11} - 3x^9 - 9x^7 - 12x^6 - 12x^3 + 9x^2 - 9x + 6$ | $x^{12} - 9x^9 - 6x^6 - 27x^3 + 9$ | $\left[\begin{array}{ccc} \frac{5}{4} & \frac{5}{4} & \frac{5}{2} \\ & \frac{5}{4} & \frac{5}{2} \\ & & 4 \end{array} \right]_4^2$ | T: 12,72 | $\frac{223}{108}$ |
| $x^{12} + 9x^{11} - 9x^{10} + 6x^9 + 9x^8 - 3x^6 - 9x^5 - 9x^4 - 9x^3 - 9x^2 - 9x - 12$ | $x^{12} - 12x^6 - 24x^3 - 12$ | $\left[\begin{array}{ccc} \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & \frac{9}{4} & \frac{5}{2} \\ & & 4 \end{array} \right]_4^2$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} - 9x^{10} - 3x^9 - 9x^8 - 9x^6 - 9x^5 + 9x^4 - 3x^3 - 9x^2 + 9x + 6$ | $x^{12} - 3x^9 + 6x^3 - 3$ | $\left[\begin{array}{ccc} 2 & \frac{9}{4} & \frac{5}{2} \\ & \frac{9}{4} & \frac{5}{2} \\ & & 4 \end{array} \right]_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{10} - 6x^9 - 9x^8 - 9x^7 - 12x^6 - 9x^5 + 9x^4 + 9x^2 - 9x + 3$ | $x^{12} + 54x^8 - 180x^7 + 246x^6 + 216x^5 - 909x^4 + 1212x^3 - 2430x^2 - 2988x + 10011$ | $\left[\begin{array}{ccc} 2 & \frac{9}{4} & \frac{5}{2} \\ & \frac{9}{4} & \frac{5}{2} \\ & & 4 \end{array} \right]_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{12} - 9x^{11} - 9x^{10} - 6x^9 + 9x^8 - 9x^5 - 9x^4 - 6x^3 - 9x + 3$ | $x^{12} - 12x^9 + 87x^6 - 288x^3 + 441$ | $\begin{bmatrix} 9 & 9 & 5 \\ 4 & 4 & 2 \end{bmatrix}_4^6$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} - 9x^{10} + 9x^9 - 9x^8 + 9x^7 - 6x^6 + 9x^5 + 6x^3 - 9x^2 + 9x - 12$ | $x^{12} - 18x^{10} - 18x^9 + 27x^8 + 180x^7 - 96x^6 + 324x^5 - 3231x^4 + 2226x^3 - 3564x^2 + 8964x - 8868$ | $\begin{bmatrix} 2 & 9 & 9 & 5 \\ 4 & 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} + 9x^{11} + 9x^{10} - 6x^9 + 9x^8 - 9x^6 - 9x^4 - 9x^3 + 9x^2 + 9x - 6$ | $x^{12} - 588x^6 - 24696x^3 + 605052$ | $\begin{bmatrix} 2 & 9 & 9 & 5 \\ 4 & 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} + 9x^{10} + 12x^9 + 9x^8 - 9x^7 - 12x^6 - 9x^5 - 9x^4 + 6x^3 + 3$ | $x^{12} - 12x^9 + 42x^6 + 36$ | $\begin{bmatrix} 2 & 9 & 9 & 5 \\ 4 & 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{11} - 6x^9 - 9x^7 - 3x^6 + 9x^5 - 6x^3 + 9x^2 + 9x + 3$ | $x^{12} - 6x^9 + 33x^6 - 36x^3 + 21$ | $\begin{bmatrix} 5 & 5 & 2 \\ 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{727}{324}$ |
| $x^{12} + 9x^{10} + 9x^9 + 9x^6 + 9x^5 - 6x^3 - 9x - 3$ | $x^{12} + 18x^{10} - 12x^9 + 27x^8 - 288x^7 - 222x^6 - 1296x^5 + 81x^4 + 972x^3 + 8748x^2 + 11232x + 12240$ | $\begin{bmatrix} 9 & 9 & 5 \\ 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,72 | $\frac{85}{36}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{12} + 9x^{11} + 9x^{10} - 12x^9 + 9x^8 - 9x^7 + 3x^6 - 9x^5 - 9x^4 - 6x^3 - 9x^2 + 9x - 6$ | $x^{12} + 54x^8 - 108x^7 + 54x^6 + 216x^5 - 333x^4 - 12x^3 + 162x^2 - 468x + 507$ | $\begin{bmatrix} 5 & 5 & 2 \\ 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{727}{324}$ |
| $x^{12} - 9x^{11} + 12x^9 + 9x^8 + 9x^7 - 9x^4 - 9x^3 + 9x - 6$ | $x^{12} - 54x^9 + 918x^6 - 2268x^3 + 47628$ | $\begin{bmatrix} 9 & 9 & 5 \\ 4 & 4 & 2 \end{bmatrix}_4^6$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} - 6x^9 + 9x^7 - 9x^6 - 9x^4 - 9x^3 + 9x^2 - 9x + 3$ | $x^{12} - 48x^9 + 576x^6 + 21504x^3 + 150528$ | $\begin{bmatrix} 2 & 9 & 9 \\ 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{11} + 9x^{10} + 3x^9 + 9x^8 - 9x^7 + 6x^6 - 9x^4 - 6x^3 - 9x + 6$ | $x^{12} - 6x^9 + 12x^6 - 18$ | $\begin{bmatrix} 2 & 9 & 9 \\ 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{11} + 9x^{10} + 3x^9 + 9x^7 + 9x^5 + 9x^4 + 12x^3 + 9x + 3$ | $x^{12} + 12x^6 + 48$ | $\begin{bmatrix} 2 & 5 \\ 4 & 2 \end{bmatrix}_4^2$ | T: 12,19 | $\frac{79}{36}$ |
| $x^{12} - 9x^{11} + 9x^{10} - 9x^8 - 9x^7 + 9x^6 - 9x^5 - 9x^4 - 9x^3 - 9x^2 - 9x - 12$ | $x^{12} - 18x^{10} - 24x^9 + 27x^8 + 576x^7 + 282x^6 - 2592x^5 + 3321x^4 - 10584x^3 + 972x^2 + 864x - 720$ | $\begin{bmatrix} 2 & 9 & 9 \\ 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{12} - 9x^{11} + 9x^{10} - 12x^9 - 9x^8 - 12x^6 + 9x^5 - 9x^4 + 6x^3 + 9x + 3$ | $x^{12} - 6x^9 + 54x^6 + 420x^3 + 588$ | $\left[\begin{array}{c} 2 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 5 \\ 2 \end{array} \right]_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{10} + 3x^9 + 9x^6 + 9x^5 + 3x^3 + 9x^2 + 9x + 12$ | $x^{12} - 12x^9 + 45x^6 - 54x^3 + 21$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 5 \\ 2 \end{array} \right]_4^6$ | T: 12,72 | $\frac{223}{108}$ |
| $x^{12} - 9x^{11} + 6x^9 + 9x^8 + 3x^6 + 9x^5 + 9x^4 + 3x^3 - 9x^2 + 9x + 3$ | $x^{12} - 6x^9 + 36x^6 + 36x^3 + 12$ | $\left[\begin{array}{c} 5 \\ 2 \end{array} \right]_4^2$ | T: 12,5 | $\frac{23}{12}$ |
| $x^{12} + 9x^{11} - 9x^{10} + 9x^9 + 9x^7 + 9x^6 + 9x^5 - 12x^3 + 9x^2 + 3$ | $x^{12} - 72x^9 + 1617x^6 + 294x^3 + 1029$ | $\left[\begin{array}{c} 2 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 5 \\ 2 \end{array} \right]_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 12x^9 - 9x^7 - 6x^6 + 9x^5 - 9x^3 - 9x^2 - 9x + 12$ | $x^{12} - 36x^{10} - 54x^9 + 216x^8 + 828x^7 + 2610x^6 + 5508x^5 + 6408x^4 + 7692x^3 + 6156x^2 + 3456x + 1956$ | $\left[\begin{array}{c} 2 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 5 \\ 2 \end{array} \right]_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{11} - 6x^9 - 9x^7 - 3x^6 + 9x^4 + 3x^3 - 9x^2 - 9x + 12$ | $x^{12} - 6x^9 + 12x^6 - 12x^3 + 12$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 5 \\ 2 \end{array} \right]_4^2$ | T: 12,72 | $\frac{85}{36}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{12} - 9x^{10} - 3x^9 + 6x^6 - 9x^5 - 9x^3 - 9x + 6$ | $x^{12} - 6x^9 + 12x^6 - 12x^3 + 6$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} + 9x^{11} + 9x^9 - 9x^7 - 6x^6 - 9x^4 - 9x^3 - 9x^2 + 9x + 12$ | $x^{12} - 6x^9 + 1638x^6 - 2058x^3 + 1029$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} + 9x^{11} - 3x^9 + 9x^8 - 9x^7 - 9x^6 + 9x^4 - 9x^2 - 9x + 3$ | $x^{12} - 3x^9 + 6x^6 + 63$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^9 + 9x^8 - 9x^7 - 9x^6 - 9x^5 - 12x^3 - 9x^2 + 9x - 3$ | $x^{12} - 12x^9 + 54x^6 + 60x^3 + 6$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} + 9x^{10} + 3x^9 - 9x^8 + 9x^7 + 12x^6 + 6x^3 + 6$ | $x^{12} - 6x^6 - 12x^3 + 6$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{11} - 9x^{10} + 3x^9 - 9x^8 - 9x^7 + 3x^6 - 9x^5 + 12x^3 + 9x^2 - 9x - 12$ | $x^{12} - 12x^9 + 6x^6 + 12x^3 + 6$ | $\begin{bmatrix} \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & 2 \end{bmatrix}_4^2$ | T: 12,72 | $\frac{85}{36}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-------------------|
| $x^{12} + 9x^{11} - 9x^{10} - 6x^9 - 12x^6 - 9x^5 - 9x^4 - 3x^3 - 9x^2 - 9x + 12$ | $x^{12} - 3x^9 + 39x^6 + 63x^3 + 147$ | $\begin{bmatrix} 2 & \frac{5}{2} \\ & 4 \end{bmatrix}_4^2$ | T: 12,19 | $\frac{79}{36}$ |
| $x^{12} - 9x^{10} - 9x^7 + 12x^6 + 9x^5 + 9x^4 - 12x^3 + 9x^2 - 9x - 3$ | $x^{12} - 6x^9 - 12x^6 + 6$ | $\begin{bmatrix} 2 & \frac{5}{2} \\ & 4 \end{bmatrix}_4^2$ | T: 12,19 | $\frac{79}{36}$ |
| $x^{12} - 9x^{11} - 3x^9 - 9x^8 + 3x^6 + 9x^5 - 9x^4 + 6x^3 + 9x^2 - 3$ | $x^{12} - 6x^9 + 6x^3 - 3$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{5}{2} \\ & 4 & 2 \\ & & 4 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} + 9x^{11} + 9x^{10} + 9x^9 - 9x^6 + 9x^5 - 3x^3 + 9x^2 - 12$ | $x^{12} - 12x^9 - 42x^6 - 36x^3 - 18$ | $\begin{bmatrix} \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & 4 & 2 \\ & & 4 \end{bmatrix}_4^2$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} - 9x^{10} - 6x^9 - 9x^8 - 9x^7 - 9x^6 + 9x^5 - 9x^4 + 9x^2 - 12$ | $x^{12} + 6x^6 - 3$ | $\begin{bmatrix} 2 & \frac{5}{2} \\ & 4 \end{bmatrix}_4^2$ | T: 12,19 | $\frac{79}{36}$ |
| $x^{12} + 6x^9 - 3x^6 - 9x^5 - 9x^4 - 9x^3 + 12$ | $x^{12} - 30x^9 + 294x^6 - 882x^3 + 1029$ | $\begin{bmatrix} \frac{5}{4} & \frac{5}{4} & 2 \\ & 4 & 2 \\ & & 4 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{727}{324}$ |
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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{12} - 9x^{11} - 9x^{10} + 3x^9 + 9x^8 - 9x^7 + 6x^6 - 9x^5 - 3x^3 - 9x - 3$ | $x^{12} + 48x^6 - 12$ | $\begin{bmatrix} 2 & \frac{5}{2} \\ & 4 \end{bmatrix}_4^2$ | T: 12,19 | $\frac{79}{36}$ |
| $x^{12} - 9x^{11} - 9x^{10} - 9x^7 - 12x^6 + 9x^5 + 9x^4 - 12x^3 - 9x + 3$ | $x^{12} - 24x^9 + 180x^6 - 432x^3 + 336$ | $\begin{bmatrix} \frac{5}{4} & \frac{5}{4} & \frac{5}{2} \\ & 4 & 2 \end{bmatrix}_4^6$ | T: 12,72 | $\frac{223}{108}$ |
| $x^{12} + 9x^{10} - 3x^9 + 9x^7 - 6x^6 - 9x^5 - 9x^3 + 12$ | $x^{12} - 6x^9 + 6x^6 + 63x^3 + 63$ | $\begin{bmatrix} 2 & \frac{5}{2} \\ & 4 \end{bmatrix}_4^2$ | T: 12,19 | $\frac{79}{36}$ |
| $x^{12} + 9x^{10} + 6x^9 + 9x^7 + 12x^6 - 9x^5 + 12x^3 + 9x^2 + 9x - 6$ | $x^{12} - 60x^9 + 5130x^6 - 199800x^3 + 2778300$ | $\begin{bmatrix} \frac{5}{4} & \frac{5}{4} & 2 & \frac{5}{2} \\ & 4 & 2 & 4 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{727}{324}$ |
| $x^{12} + 9x^{10} - 9x^9 + 9x^8 + 9x^7 + 3x^6 - 9x^5 - 12x^3 - 9x^2 - 9x + 6$ | $x^{12} - 18x^{10} - 24x^9 + 405x^8 + 72x^7 + 2508x^6 - 26028x^5 + 26505x^4 - 98196x^3 + 445500x^2 - 574200x + 226500$ | $\begin{bmatrix} \frac{5}{4} & \frac{5}{4} & 2 & \frac{5}{2} \\ & 4 & 2 & 4 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{727}{324}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{12} + 9x^{11} - 9x^{10} + 9x^9 - 9x^8 + 9x^6 - 9x^2 + 9x + 12$ | $x^{12} - 36x^{10} - 84x^9 + 486x^8 + 2268x^7 + 8910x^6 - 20412x^5 - 206307x^4 - 225288x^3 + 957906x^2 + 2578716x + 1934361$ | $\left[\begin{array}{c} 2 \\ 4 \end{array} \frac{9}{4} \frac{5}{2} \right]_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{11} + 9x^{10} - 9x^9 - 9x^8 - 9x^7 - 3x^6 + 9x^5 + 3x^3 + 9x + 6$ | $x^{12} - 24x^6 - 48$ | $\left[\begin{array}{c} 2 \\ 4 \end{array} \frac{5}{2} \right]_4^2$ | T: 12,19 | $\frac{79}{36}$ |
| $x^{12} + 9x^{10} + 12x^9 - 9x^8 + 3x^6 - 9x^5 + 9x^4 - 3x^3 - 9x^2 + 9x + 3$ | $x^{12} - 36x^9 + 54x^8 - 72x^7 + 510x^6 - 540x^5 + 387x^4 - 2508x^3 + 1134x^2 + 1368x + 10281$ | $\left[\begin{array}{c} 2 \\ 4 \end{array} \frac{9}{4} \frac{5}{2} \right]_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{11} + 12x^9 - 9x^8 - 12x^6 - 9x^4 - 12x^3 + 9x^2 + 12$ | $x^{12} - 24x^9 + 948x^6 - 624x^3 + 336$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \frac{9}{4} \frac{5}{2} \right]_4^6$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} - 9x^{11} - 9x^9 - 9x^7 + 12x^6 - 9x^5 - 9x^4 - 9x^3 - 9x^2 + 3$ | $x^{12} - 60x^9 + 987x^6 + 1260x^3 + 1029$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{5}{4} 2 \frac{5}{2} \right]_4^2$ | T: 12,131 | $\frac{727}{324}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{12} - 9x^{11} - 9x^{10} + 6x^9 - 9x^8 + 12x^6 - 9x^5 + 9x^4 + 12x^3 + 9x^2 + 12$ | $x^{12} - 24x^9 + 198x^6 - 96x^3 + 12$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & & \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} + 9x^{11} + 9x^{10} - 12x^9 + 9x^6 - 9x^4 + 12x^3 + 3$ | $x^{12} + 15x^6 - 180x^3 + 441$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & & \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{10} + 3x^9 - 9x^8 + 9x^7 + 3x^6 + 9x^5 + 3x^3 + 9x + 12$ | $x^{12} - 18x^{10} - 18x^9 + 54x^8 + 468x^7 - 1038x^6 + 1944x^5 - 3780x^4 - 4428x^3 + 12636x^2 + 3024x - 6444$ | $\begin{bmatrix} \frac{5}{4} & \frac{5}{4} & 2 & \frac{5}{2} \\ & & & \end{bmatrix}_4^2$ | T: 12,131 | $\frac{727}{324}$ |
| $x^{12} - 12x^9 + 9x^8 + 12x^6 - 9x^5 + 9x^4 - 9x^3 + 9x^2 - 9x - 12$ | $x^{12} - 6x^9 + 12x^6 - 18x^3 + 9$ | $\begin{bmatrix} \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & \end{bmatrix}_4^2$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} - 9x^{11} - 9x^{10} + 9x^8 - 9x^7 + 3x^6 + 9x^5 + 9x^4 - 12x^3 - 9x^2 + 9x + 3$ | $x^{12} - 36x^{10} - 204x^9 + 486x^8 + 5508x^7 + 8910x^6 - 49572x^5 - 206307x^4 + 49032x^3 + 957906x^2 + 897156x + 1001241$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & & \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{12} - 9x^9 + 9x^8 + 9x^7 + 9x^5 - 9x^4 + 9x + 12$ | $x^{12} - 36x^{10} - 60x^9 + 216x^8 + 900x^7 + 2784x^6 + 6480x^5 + 8676x^4 + 10560x^3 + 9720x^2 + 3240x + 660$ | $\begin{bmatrix} 9 & 9 & 5 \\ 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} - 9x^{11} + 9x^{10} - 12x^9 + 9x^8 - 6x^6 + 9x^5 + 6x^3 + 9x^2 - 9x - 6$ | $x^{12} - 18x^9 + 138x^6 - 468x^3 + 588$ | $\begin{bmatrix} 5 & 5 & 2 \\ 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{727}{324}$ |
| $x^{12} - 9x^{11} + 6x^9 - 9x^8 + 9x^7 + 12x^6 - 9x^5 + 9x^4 - 9x^3 - 9x^2 - 9x - 12$ | $x^{12} - 18x^{10} - 54x^9 + 27x^8 + 666x^7 + 1632x^6 - 162x^5 - 1899x^4 - 14124x^3 - 24138x^2 - 48276x - 30180$ | $\begin{bmatrix} 2 & 9 & 9 \\ 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} + 9x^{10} + 6x^9 - 9x^7 - 9x^5 - 9x^4 + 3x^3 - 9x^2 + 9x + 3$ | $x^{12} - 3x^9 + 33x^6 - 63x^3 + 63$ | $\begin{bmatrix} 2 & 5 \\ 4 & 2 \end{bmatrix}_4^2$ | T: 12,19 | $\frac{79}{36}$ |
| $x^{12} - 9x^{10} + 12x^9 - 9x^8 + 9x^7 + 9x^6 - 9x^5 - 3x^3 - 9x^2 - 9x - 6$ | $x^{12} - 12x^9 + 132x^6 - 288x^3 + 336$ | $\begin{bmatrix} 5 & 5 & 2 \\ 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{727}{324}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-------------------|
| $x^{12} + 9x^{10} - 9x^9 - 9x^8 - 9x^7 + 3x^6 + 9x^4 - 12x^3 + 9x + 3$ | $x^{12} - 12x^9 + 132x^6 - 336x^3 + 588$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} \\ & \frac{5}{4} & \frac{5}{2} \\ & & 2 \end{bmatrix}_4$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{11} - 9x^9 - 9x^7 + 6x^6 - 9x^5 + 9x^3 - 12$ | $x^{12} + 18x^{10} - 240x^9 + 27x^8 - 4752x^7 + 1626x^6 - 16848x^5 + 12681x^4 + 36576x^3 - 106920x^2 + 127872x - 56640$ | $\begin{bmatrix} \frac{5}{4} & \frac{5}{4} & 2 \\ & \frac{5}{4} & \frac{5}{2} \\ & & 2 \end{bmatrix}_4$ | T: 12,131 | $\frac{727}{324}$ |
| $x^{12} - 9x^{11} + 9x^8 - 9x^7 - 3x^6 + 9x^5 + 9x^4 - 12x^3 + 3$ | $x^{12} - 36x^9 + 324x^6 + 9072x^3 + 47628$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} \\ & \frac{5}{4} & \frac{5}{2} \\ & & 2 \end{bmatrix}_4$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{11} - 9x^{10} - 3x^9 + 9x^8 - 9x^7 + 3x^6 + 9x^5 - 9x^2 - 6$ | $x^{12} - 60x^9 + 270x^6 + 91800x^3 + 2778300$ | $\begin{bmatrix} \frac{5}{4} & \frac{5}{4} & 2 \\ & \frac{5}{4} & \frac{5}{2} \\ & & 2 \end{bmatrix}_4$ | T: 12,131 | $\frac{727}{324}$ |
| $x^{12} + 9x^{11} + 9x^{10} + 12x^9 + 9x^8 + 9x^7 - 3x^6 + 9x^3 + 9x + 3$ | $x^{12} - 18x^9 + 144x^6 - 672x^3 + 2352$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} \\ & \frac{5}{4} & \frac{5}{2} \\ & & 2 \end{bmatrix}_4$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{11} - 6x^9 + 12x^6 + 9x^4 - 3x^3 - 9x^2 + 3$ | $x^{12} - 12x^9 + 42x^6 - 108x^3 + 441$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} \\ & \frac{5}{4} & \frac{5}{2} \\ & & 2 \end{bmatrix}_4$ | T: 12,131 | $\frac{775}{324}$ |
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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{12} + 9x^{11} + 9x^{10} - 9x^9 + 9x^7 - 6x^6 - 9x^5 - 9x^4 - 6x^3 - 9x^2 + 9x + 3$ | $x^{12} - 12x^9 + 1071x^6 - 756x^3 + 1029$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 5 \\ 2 \end{array} \right]_4^6$ | T: 12,72 | $\frac{223}{108}$ |
| $x^{12} + 9x^{11} - 3x^9 + 9x^8 + 9x^7 - 3x^6 - 9x^5 + 9x^4 - 12x^3 + 9x + 3$ | $x^{12} - 18x^9 + 1026x^6 - 11340x^3 + 47628$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 5 \\ 2 \end{array} \right]_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{10} + 3x^9 - 6x^6 - 9x^5 - 9x^4 + 6x^3 - 9x^2 + 9x + 12$ | $x^{12} - 6x^9 + 9x^6 + 6x^3 + 3$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 5 \\ 2 \end{array} \right]_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{11} - 9x^9 - 9x^8 - 9x^7 - 3x^6 + 9x^5 - 9x^4 - 9x^3 + 9x^2 - 12$ | $x^{12} + 18x^{10} - 96x^9 + 27x^8 - 2052x^7 - 1230x^6 - 8100x^5 - 9999x^4 + 17100x^3 - 324x^2 + 20304x - 21360$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 2 \\ 2 \end{array} \right]_4^2$ | T: 12,131 | $\frac{727}{324}$ |
| $x^{12} + 9x^{11} + 3x^9 + 9x^7 - 12x^6 + 9x^4 + 12x^3 + 9x + 12$ | $x^{12} - 30x^9 + 288x^6 - 1008x^3 + 2352$ | $\left[\begin{array}{c} 5 \\ 2 \end{array} \right]_4^6$ | T: 12,5 | $\frac{23}{12}$ |
| $x^{12} - 9x^{11} + 12x^6 + 9x^5 + 6x^3 - 9x + 6$ | $x^{12} - 1260x^9 + 543900x^6 - 5294205000$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 5 \\ 2 \end{array} \right]_4^2$ | T: 12,72 | $\frac{223}{108}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{12} - 9x^{11} + 9x^{10} - 9x^9 - 9x^8 - 9x^7 + 6x^6 + 9x^5 + 9x^4 + 12x^3 - 9x^2 - 9x - 6$ | $x^{12} - 72x^9 + 1632x^6 - 5376x^3 + 150528$ | $\begin{bmatrix} 9 & 9 & 5 \\ 4 & 4 & 2 \end{bmatrix}_4^6$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} - 9x^9 + 12x^6 + 9x^5 - 3x^3 + 9x^2 - 9x + 6$ | $x^{12} - 6x^9 + 24x^6 - 45x^3 + 24$ | $\begin{bmatrix} 5 & 5 & 2 \\ 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{727}{324}$ |
| $x^{12} - 9x^{11} + 9x^{10} - 6x^9 + 9x^8 - 9x^7 - 6x^6 + 9x^4 + 3x^3 - 9x^2 + 9x + 3$ | $x^{12} - 120x^9 + 5400x^6 - 108000x^3 + 2778300$ | $\begin{bmatrix} 5 & 5 & 5 \\ 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,72 | $\frac{223}{108}$ |
| $x^{12} - 9x^{11} + 9x^{10} - 6x^9 + 3x^6 - 9x^5 - 9x^3 - 9x^2 + 9x + 12$ | $x^{12} + 42x^6 - 72x^3 + 36$ | $\begin{bmatrix} 2 & 9 & 9 \\ 4 & 4 & 4 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} + 9x^{11} + 9x^{10} - 9x^9 + 12x^6 + 9x^5 - 9x^4 - 3x^3 + 9x + 3$ | $x^{12} - 6x^9 + 15x^6 - 6x^3 + 3$ | $\begin{bmatrix} 2 & 9 & 9 \\ 4 & 4 & 4 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{11} - 9x^{10} + 9x^8 - 9x^7 - 12x^6 - 9x^5 + 9x^4 + 9x^2 + 9x + 3$ | $x^{12} - 3x^9 - 3x^6 + 21x^3 + 147$ | $\begin{bmatrix} 2 & 9 & 9 \\ 4 & 4 & 4 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{12} + 9x^{11} + 9x^{10} - 6x^9 - 9x^7 + 9x^6 - 3x^3 + 9x^2 + 12$ | $x^{12} + 186x^6 - 48x^3 + 12$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & & \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{11} + 9x^{10} - 12x^9 - 9x^7 + 6x^6 + 9x^5 - 3x^3 - 9x - 6$ | $x^{12} - 6x^9 + 189x^6 + 1029$ | $\begin{bmatrix} \frac{5}{4} & \frac{5}{4} & \frac{5}{2} \\ & & \end{bmatrix}_4^6$ | T: 12,72 | $\frac{223}{108}$ |
| $x^{12} + 9x^{10} - 9x^9 + 9x^7 + 3x^6 - 9x^5 + 9x^4 + 6x^3 + 9x + 3$ | $x^{12} - 6x^9 - 12x^6 + 189x^3 + 441$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & & \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} + 9x^{11} + 9x^{10} - 9x^9 + 9x^8 + 9x^6 - 6$ | $x^{12} + 9x^6 + 21$ | $\begin{bmatrix} \frac{5}{2} \\ & \end{bmatrix}_4^6$ | T: 12,5 | $\frac{23}{12}$ |
| $x^{12} + 9x^{10} - 9x^9 + 9x^7 - 9x^6 - 9x^5 - 9x^4 - 6x^3 + 9x^2 + 3$ | $x^{12} - 36x^{10} - 6x^9 + 216x^8 + 72x^7 + 1770x^6 + 972x^5 + 2088x^4 + 1788x^3 - 324x^2 - 216x - 204$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & & \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{11} + 3x^9 + 9x^8 - 9x^7 - 12x^6 + 9x^5 + 9x^4 + 12x^3 + 9x - 3$ | $x^{12} - 6x^6 - 3$ | $\begin{bmatrix} 2 & \frac{5}{2} \\ & \end{bmatrix}_4^2$ | T: 12,19 | $\frac{79}{36}$ |
| 3 | | | | |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{12} + 9x^{10} + 12x^9 + 9x^8 - 9x^7 - 6x^6 + 9x^5 + 9x^4 + 9x + 3$ | $x^{12} - 36x^9 + 888x^6 + 1104x^3 + 336$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \right]_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} + 9x^{10} + 3x^9 - 9x^8 + 9x^7 - 3x^6 + 9x^5 - 9x^2 - 9x + 12$ | $x^{12} - 24x^9 + 192x^6 - 48x^3 + 12$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \right]_4^2$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} + 9x^{11} - 9x^9 + 9x^8 - 9x^7 + 6x^6 + 9x^4 - 9x^3 - 9x^2 + 9x - 6$ | $x^{12} - 6x^9 + 24x^6 - 63x^3 + 63$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \right]_4^6$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} - 9x^{11} + 9x^{10} + 3x^9 - 9x^8 - 9x^7 + 12x^6 + 12x^5 - 9x^4 - 12x^3 + 9x^2 + 12$ | $x^{12} - 48x^9 + 828x^6 + 1032x^3 + 588$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \right]_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{11} + 9x^9 - 9x^8 + 9x^7 + 12x^6 + 9x^5 + 9x^3 - 9x^2 + 9x - 6$ | $x^{12} + 6x^6 - 36x^3 + 36$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \right]_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} + 9x^{11} + 9x^{10} - 12x^9 - 9x^8 + 9x^7 - 3x^6 - 9x^5 - 9x^4 - 3x^3 + 9x^2 - 9x - 6$ | $x^{12} + 42x^6 + 1029$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \right]_4^2$ | T: 12,19 | $\frac{79}{36}$ |
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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{12} + 9x^{11} + 9x^{10} + 6x^9 - 9x^8 - 9x^7 + 6x^6 + 9x^5 - 9x^4 + 9x^3 - 9x^2 + 3$ | $x^{12} - 9x^9 + 15x^6 + 63x^3 + 441$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & & \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 6x^9 - 9x^8 - 9x^7 - 6x^6 - 9x^4 - 12x^3 + 9x^2 + 12$ | $x^{12} - 12x^9 + 90x^6 - 84x^3 + 21$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & & \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{11} + 9x^{10} + 12x^9 - 9x^7 + 12x^6 - 9x^5 - 3x^3 + 9x^2 - 9x + 3$ | $x^{12} - 210x^9 + 12642x^6 - 160524x^3 + 605052$ | $\begin{bmatrix} \frac{5}{4} & \frac{5}{4} & 2 & \frac{5}{2} \\ & & & \end{bmatrix}_4^2$ | T: 12,131 | $\frac{727}{324}$ |
| $x^{12} - 9x^{10} - 12x^9 - 6x^6 - 9x^5 + 9x^4 - 12x^3 + 9x^2 - 9x + 12$ | $x^{12} - 6x^9 + 30x^6 - 18x^3 + 21$ | $\begin{bmatrix} \frac{5}{4} & \frac{5}{4} & 2 & \frac{5}{2} \\ & & & \end{bmatrix}_4^2$ | T: 12,131 | $\frac{727}{324}$ |
| $x^{12} - 9x^{11} - 9x^9 - 9x^8 - 9x^7 + 12x^6 + 9x^5 - 3x^3 - 6$ | $x^{12} - 6x^9 + 894x^6 - 1380x^3 + 588$ | $\begin{bmatrix} \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & \end{bmatrix}_4^6$ | T: 12,72 | $\frac{85}{36}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{12} - 9x^{11} - 9x^{10} - 6x^9 + 9x^7 - 6x^6 - 9x^5 - 9x^4 + 9x^2 - 9x + 12$ 1432080 | $x^{12} - 36x^{10} - 120x^9 + 486x^8 + 3240x^7 + 4644x^6 - 29160x^5 - 129519x^4 + 264600x^3 + 612360x^2 - 1594080x + 1432080$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \quad \begin{array}{c} 5 \\ 2 \end{array} \right]_4^2$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} - 9x^{11} + 9x^9 - 9x^8 + 9x^7 - 12x^6 + 3x^3 + 9x^2 + 9x - 12$ | $x^{12} + 18x^6 - 3$ | $\left[\begin{array}{c} 5 \\ 2 \end{array} \right]_4^2$ | T: 12,5 | $\frac{23}{12}$ |
| $x^{12} - 9x^{10} - 9x^9 + 9x^8 - 9x^7 + 12x^6 - 9x^5 + 9x^4 + 9x^3 - 9x^2 + 12$ | $x^{12} - 3x^6 + 3$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \quad \begin{array}{c} 5 \\ 2 \end{array} \right]_4^2$ | T: 12,19 | $\frac{79}{36}$ |
| $x^{12} + 9x^{11} - 9x^{10} - 9x^9 - 9x^7 - 3x^6 - 9x^4 + 9x^3 - 9x^2 + 12$ | $x^{12} - 18x^{10} - 24x^9 + 54x^8 + 144x^7 - 876x^6 - 5508x^5 - 7128x^4 + 9648x^3 + 26244x^2 + 11448x - 4284$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \quad \begin{array}{c} 5 \\ 4 \end{array} \quad \begin{array}{c} 5 \\ 2 \end{array} \right]_4^2$ | T: 12,72 | $\frac{223}{108}$ |
| $x^{12} + 9x^{11} - 3x^9 + 9x^8 + 9x^7 + 9x^6 + 9x^4 + 12x^3 - 9x^2 - 9x + 3$ | $x^{12} - 12x^9 + 42x^6 - 84x^3 + 1029$ | $\left[\begin{array}{c} 2 \\ 4 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \quad \begin{array}{c} 5 \\ 2 \end{array} \right]_4^2$ | T: 12,131 | $\frac{775}{324}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{12} - 9x^{11} - 9x^{10} - 9x^9 + 9x^8 - 12x^6 - 9x^5 + 9x^4 - 3x^3 + 9x^2 - 9x + 3$ | $x^{12} + 60x^6 - 72x^3 + 588$ | $\begin{bmatrix} 5 & 5 & 2 \\ 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{727}{324}$ |
| $x^{12} + 9x^{11} - 9x^6 - 9x^4 - 3x^3 + 12$ | $x^{12} - 42x^9 + 567x^6 - 294x^3 + 1029$ | $\begin{bmatrix} 2 & 9 & 9 \\ 4 & 4 & 4 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} + 9x^{10} + 3x^9 - 9x^8 - 12x^6 + 9x^5 - 9x^4 + 12x^3 - 9x^2 - 9x + 12$ | $x^{12} - 6x^9 + 24x^6 - 36x^3 + 36$ | $\begin{bmatrix} 9 & 9 & 5 \\ 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} - 9x^{11} - 9x^8 + 9x^7 + 6x^6 - 9x^3 + 9x^2 + 12$ | $x^{12} - 18x^{10} - 42x^9 + 54x^8 + 612x^7 - 318x^6 - 3564x^5 - 4320x^4 + 3708x^3 + 17496x^2 + 16416x + 4356$ | $\begin{bmatrix} 5 & 5 & 2 \\ 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{727}{324}$ |
| $x^{12} + 9x^{11} - 9x^{10} - 9x^9 - 9x^7 + 9x^6 + 9x^5 - 6x^3 + 9x^2 + 12$ | $x^{12} - 42x^9 + 2058x^6 - 37044x^3 + 605052$ | $\begin{bmatrix} 2 & 9 & 9 \\ 4 & 4 & 4 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{12} + 9x^{10} + 6x^9 - 9x^8 + 9x^7 - 12x^6 - 9x^4 + 3x^3 - 9x^2 + 3$ | $x^{12} - 9x^9 + 36x^6 - 84x^3 + 147$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & & \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{11} - 9x^{10} - 9x^8 + 9x^7 + 9x^5 - 12x^3 - 9x^2 + 3$ | $x^{12} - 6x^9 + 12x^6 - 6x^3 + 3$ | $\begin{bmatrix} \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & \end{bmatrix}_4^2$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} - 9x^{11} + 9x^{10} + 12x^9 + 3x^6 + 9x^5 + 9x^4 - 6x^3 + 9x^2 + 9x + 3$ | $x^{12} - 12x^9 + 120x^6 - 144x^3 + 336$ | $\begin{bmatrix} \frac{5}{4} & \frac{5}{4} & 2 & \frac{5}{2} \\ & & & \end{bmatrix}_4^2$ | T: 12,131 | $\frac{727}{324}$ |
| $x^{12} - 9x^{11} + 9x^{10} - 3x^9 - 9x^7 + 6x^6 + 9x^5 + 12x^3 - 9x - 6$ | $x^{12} - 6x^9 + 18x^6 - 24x^3 + 12$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & & \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{11} + 9x^{10} + 3x^9 + 9x^8 + 9x^6 - 9x^5 + 9x^4 + 9x + 3$ | $x^{12} - 6x^9 + 30x^6 - 105x^3 + 147$ | $\begin{bmatrix} \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & \end{bmatrix}_4^6$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} + 9x^{11} + 3x^9 - 9x^8 + 9x^6 - 12x^3 + 9x^2 - 9x - 6$ | $x^{12} - 15x^9 + 72x^6 - 126x^3 + 147$ | $\begin{bmatrix} \frac{5}{2} \\ & \end{bmatrix}_4^6$ | T: 12,5 | $\frac{23}{12}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{12} + 9x^{10} - 12x^9 - 9x^8 + 9x^7 + 9x^6 + 9x^4 - 12x^3 - 9x^2 - 9x + 3$ | $x^{12} - 3x^6 + 21$ | $\begin{bmatrix} 2 & \frac{5}{2} \\ & 4 \end{bmatrix}_4^2$ | T: 12,19 | $\frac{79}{36}$ |
| $x^{12} + 3x^9 + 9x^8 + 9x^6 + 9x^5 - 3x^3 - 9x^2 + 9x + 3$ | $x^{12} - 54x^9 + 906x^6 - 348x^3 + 588$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{5}{2} \\ & 4 & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} + 9x^{10} + 12x^9 - 9x^7 + 12x^6 + 9x^5 + 9x^4 - 3x^3 - 9x + 12$ | $x^{12} - 6x^9 + 42x^6 + 12$ | $\begin{bmatrix} 2 & \frac{5}{2} \\ & 4 \end{bmatrix}_4^2$ | T: 12,19 | $\frac{79}{36}$ |
| $x^{12} - 9x^{11} - 9x^{10} + 9x^8 + 6x^6 + 9x^5 - 9x^4 + 3x^3 + 9x^2 + 9x - 6$ | $x^{12} - 33x^9 + 267x^6 + 63x^3 + 441$ | $\begin{bmatrix} 2 & \frac{5}{2} \\ & 4 \end{bmatrix}_4^2$ | T: 12,19 | $\frac{79}{36}$ |
| $x^{12} + 9x^{11} - 6x^9 + 9x^7 - 6x^6 + 9x^4 + 12x^3 - 9x - 6$ | $x^{12} - 21x^9 + 168x^6 - 588x^3 + 1029$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{5}{2} \\ & 4 & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} + 9x^{11} - 9x^{10} + 9x^9 + 9x^8 - 9x^7 + 6x^6 - 9x^4 - 9x^2 + 9x + 3$ | $x^{12} - 12x^9 + 120x^6 - 840x^3 + 2352$ | $\begin{bmatrix} \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & 4 & 2 \end{bmatrix}_4^6$ | T: 12,72 | $\frac{85}{36}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{12} + 9x^{11} + 9x^{10} - 3x^9 - 9x^7 - 9x^6 + 9x^4 - 9x + 3$ | $x^{12} - 12x^9 + 300x^6 + 336x^3 + 336$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \quad \begin{array}{c} 5 \\ 2 \end{array} \right]_4^6$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} - 9x^{11} - 9x^{10} - 9x^9 + 9x^7 - 12x^6 - 9x^5 + 12x^3 + 9x^2 - 9x + 12$ | $x^{12} - 6x^9 - 12x^6 + 168x^3 + 2352$ | $\left[\begin{array}{c} 2 \\ 4 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \quad \begin{array}{c} 5 \\ 2 \end{array} \right]_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} + 9x^{11} - 9x^{10} - 12x^9 - 9x^8 - 9x^7 + 9x^6 + 9x^4 + 12x^3 + 9x^2 + 12$ | $x^{12} - 18x^9 + 87x^6 - 42x^3 + 21$ | $\left[\begin{array}{c} 2 \\ 4 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \quad \begin{array}{c} 5 \\ 2 \end{array} \right]_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} + 12x^9 + 9x^8 - 9x^7 + 12x^6 + 9x^5 + 9x^4 - 12x^3 + 9x + 12$ | $x^{12} - 36x^9 + 348x^6 - 336x^3 + 336$ | $\left[\begin{array}{c} 2 \\ 4 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \quad \begin{array}{c} 5 \\ 2 \end{array} \right]_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} + 9x^{10} - 3x^9 + 9x^7 - 3x^6 - 9x^4 + 3x^3 + 9x + 3$ | $x^{12} - 126x^9 + 10878x^6 - 111132x^3 + 605052$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \quad \begin{array}{c} 5 \\ 4 \end{array} \quad \begin{array}{c} 5 \\ 2 \end{array} \right]_4^6$ | T: 12,72 | $\frac{223}{108}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{12} + 9x^{11} + 9x^{10} + 6x^9 - 9x^7 + 6x^6 + 9x^5 + 9x^4 + 12x^3 - 9x^2 - 9x + 12$ | $x^{12} + 84x^6 - 147x^3 + 1029$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4 \left[\begin{array}{c} 6 \\ 5 \\ 2 \end{array} \right]_4$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} - 9x^{11} + 9x^{10} + 6x^9 + 9x^8 - 9x^7 - 12x^6 + 9x^4 - 6x^3 + 9x^2 + 12$ | $x^{12} - 66x^9 + 1533x^6 + 2352x^3 + 1029$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4 \left[\begin{array}{c} 6 \\ 5 \\ 2 \end{array} \right]_4$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} + 9x^{11} - 9x^{10} + 3x^9 - 9x^7 - 6x^6 - 9x^5 + 9x^4 + 9x^3 + 9x^2 - 6$ | $x^{12} - 18x^9 + 312x^6 - 567x^3 + 441$ | $\left[\begin{array}{c} 6 \\ 5 \\ 2 \end{array} \right]_4$ | T: 12,5 | $\frac{23}{12}$ |
| $x^{12} + 9x^{11} + 9x^{10} - 3x^9 - 9x^8 - 9x^7 + 3x^6 + 9x^5 - 9x^4 + 6x^3 - 9x^2 - 9x + 12$ | $x^{12} + 48$ | $\left[\begin{array}{c} 2 \\ 5 \\ 2 \end{array} \right]_4$ | T: 12,5 | $\frac{23}{12}$ |
| $x^{12} + 9x^{10} - 6x^9 + 9x^8 + 9x^7 - 9x^6 - 9x^4 - 9x^3 - 9x^2 + 9x + 12$ | $x^{12} - 24x^9 + 1824x^6 - 26880x^3 + 150528$ | $\left[2 \begin{array}{c} 9 \\ 4 \end{array} \right]_4 \left[\begin{array}{c} 2 \\ 5 \\ 2 \end{array} \right]_4$ | T: 12,131 | $\frac{775}{324}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{12} + 9x^{11} - 6x^9 - 9x^8 + 9x^6 - 9x^2 + 3$ | $x^{12} + 3x^6 + 3$ | $\left[\begin{array}{c} 2 \\ 2 \\ \frac{5}{2} \\ 4 \end{array} \right]_4^2$ | T: 12,19 | $\frac{79}{36}$ |
| $x^{12} - 9x^{10} - 6x^9 - 9x^8 - 9x^7 - 12x^6 - 9x^5 + 3x^3 - 9x^2 + 12$ | $x^{12} + 9x^6 - 6x^3 + 3$ | $\left[\begin{array}{c} 2 \\ 2 \\ \frac{9}{4} \\ \frac{9}{4} \\ \frac{5}{2} \\ 4 \end{array} \right]_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} + 9x^{11} - 3x^9 - 9x^8 - 6x^6 + 9x^5 - 9x^4 + 12x^3 + 9x^2 + 9x - 3$ | $x^{12} - 6x^9 + 12x^6 - 36x^3 - 18$ | $\left[\begin{array}{c} 2 \\ 2 \\ \frac{5}{2} \\ 4 \end{array} \right]_4^2$ | T: 12,19 | $\frac{79}{36}$ |
| $x^{12} - 6x^9 + 9x^8 + 9x^7 + 9x^6 + 9x^5 - 9x^4 + 6x^3 - 9x^2 + 3$ | $x^{12} - 6x^9 + 75x^6 + 42x^3 + 21$ | $\left[\begin{array}{c} \frac{9}{4} \\ \frac{9}{4} \\ \frac{5}{2} \\ 4 \end{array} \right]_4^6$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} - 9x^{11} + 12x^9 - 9x^7 + 12x^6 - 9x^4 - 12x^3 + 12$ | $x^{12} - 18x^9 + 147x^6 - 546x^3 + 1029$ | $\left[\begin{array}{c} \frac{9}{4} \\ \frac{9}{4} \\ \frac{5}{2} \\ 4 \end{array} \right]_4^6$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} + 9x^{11} + 9x^{10} - 3x^9 - 9x^8 + 6x^6 - 9x^4 + 9x^3 + 9x^2 - 9x - 6$ | $x^{12} - 3x^9 + 15x^6 - 21x^3 + 21$ | $\left[\begin{array}{c} 2 \\ 2 \\ \frac{9}{4} \\ \frac{9}{4} \\ \frac{5}{2} \\ 4 \end{array} \right]_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} + 9x^{11} + 9x^{10} + 9x^8 - 9x^7 + 6x^6 + 9x^4 - 9x + 3$ | $x^{12} - 6x^9 + 63x^6 - 462x^3 + 1029$ | $\left[\begin{array}{c} 2 \\ 2 \\ \frac{9}{4} \\ \frac{9}{4} \\ \frac{5}{2} \\ 4 \end{array} \right]_4^2$ | T: 12,131 | $\frac{775}{324}$ |
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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{12} + 9x^{11} - 9x^{10} + 9x^9 - 9x^8 - 9x^7 + 6x^6 + 9x^5 + 9x^4 - 9x^3 + 9x^2 + 12$ | $x^{12} + 21x^6 + 1029$ | $\begin{bmatrix} 2 & \frac{5}{2} \\ & 2 \end{bmatrix}_4^2$ | T: 12,19 | $\frac{79}{36}$ |
| $x^{12} - 9x^{11} + 6x^9 - 9x^8 + 9x^7 - 6x^6 - 9x^4 - 3x^3 - 9x + 12$ | $x^{12} - 12x^9 + 78x^6 - 189x^3 + 147$ | $\begin{bmatrix} 2 & \frac{5}{2} \\ & 2 \end{bmatrix}_4^2$ | T: 12,19 | $\frac{79}{36}$ |
| $x^{12} - 9x^{11} + 9x^{10} - 6x^9 - 9x^7 + 12x^6 - 9x^5 - 9x^4 - 9x^2 + 9x + 12$ | $x^{12} - 24x^9 + 360x^6 - 672x^3 + 336$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} - 9x^{11} + 9x^{10} + 6x^9 - 9x^8 - 9x^7 + 9x^5 + 9x^4 + 3x^3 + 9x^2 - 6$ | $x^{12} - 6x^9 + 15x^6 - 12x^3 + 3$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} + 9x^{11} + 9x^{10} - 9x^8 - 9x^7 + 12x^6 + 12x^3 - 9x^2 - 9x + 12$ | $x^{12} - 21x^9 + 189x^6 - 735x^3 + 1029$ | $\begin{bmatrix} 2 & \frac{9}{4} & \frac{9}{4} & \frac{5}{2} \\ & & & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| Continued on next page | | | | |

Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{12} - 9x^{11} - 3x^9 - 9x^8 + 9x^7 + 3x^6 - 9x^4 + 12x^3 + 9x + 3$ | $x^{12} - 12x^9 + 54x^8 - 72x^7 + 30x^6 + 108x^5 + 99x^4 - 420x^3 + 1134x^2 - 936x + 489$ | $\begin{bmatrix} 5 & 5 & 2 \\ 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{727}{324}$ |
| $x^{12} - 9x^{10} + 6x^9 + 9x^7 - 12x^3 - 9x^2 - 9x - 6$ | $x^{12} - 24x^9 + 312x^6 - 1512x^3 + 2352$ | $\begin{bmatrix} 2 & 5 \\ 2 & 2 \end{bmatrix}_4^2$ | T: 12,19 | $\frac{79}{36}$ |
| $x^{12} + 9x^{11} - 9x^{10} - 9x^9 + 9x^8 - 9x^7 + 6x^6 + 9x^5 - 6x^3 + 9x^2 + 12$ | $x^{12} - 12x^9 + 60x^6 - 72x^3 + 36$ | $\begin{bmatrix} 9 & 9 & 5 \\ 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} - 9x^{11} + 9x^{10} - 9x^9 - 9x^8 - 9x^7 - 6x^6 + 9x^5 - 9x^4 + 9x^3 - 9x^2 + 12$ | $x^{12} - 84x^9 + 9996x^6 - 49392x^3 + 605052$ | $\begin{bmatrix} 5 & 5 & 2 \\ 4 & 4 & 2 \end{bmatrix}_4^2$ | T: 12,131 | $\frac{727}{324}$ |
| $x^{12} - 9x^{11} - 9x^9 - 9x^6 + 9x^4 - 9x^2 + 12$ | $x^{12} - 6x^6 + 21$ | $\begin{bmatrix} 2 & 5 \\ 2 & 2 \end{bmatrix}_4^2$ | T: 12,19 | $\frac{79}{36}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{12} + 9x^{11} - 9x^{10} - 12x^9 - 9x^8 + 9x^7 - 9x^6 + 12x^3 + 9x^2 + 9x + 3$ | $x^{12} - 18x^9 + 126x^6 - 396x^3 + 588$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 5 \\ 2 \end{array} \right]_4^6$ | T: 12,72 | $\frac{223}{108}$ |
| $x^{12} + 9x^{11} - 9x^9 - 9x^8 + 9x^7 - 12x^6 - 9x^5 + 9x^4 + 6x^3 - 9x^2 - 9x + 3$ | $x^{12} - 24x^9 + 273x^6 - 882x^3 + 1029$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 2 \\ 2 \end{array} \right]_4^2$ | T: 12,131 | $\frac{727}{324}$ |
| $x^{12} + 9x^{10} - 9x^9 - 9x^6 - 9x^5 + 9x^4 + 6x^3 - 9x^2 - 6$ | $x^{12} + 12x^6 - 12x^3 + 3$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 5 \\ 2 \end{array} \right]_4^2$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} - 9x^{11} + 9x^{10} + 12x^9 + 9x^8 + 9x^7 + 12x^6 + 9x^5 + 9x^4 + 6x^3 + 12$ | $x^{12} - 9x^9 + 30x^6 - 42x^3 + 21$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 5 \\ 2 \end{array} \right]_4^6$ | T: 12,72 | $\frac{85}{36}$ |
| $x^{12} + 9x^{11} - 9x^9 + 9x^8 + 9x^7 - 9x^6 + 9x^4 + 6x^3 + 3$ | $x^{12} - 9x^9 + 33x^6 - 63x^3 + 63$ | $\left[\begin{array}{c} 2 \\ 4 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \begin{array}{c} 5 \\ 2 \end{array} \right]_4^2$ | T: 12,131 | $\frac{775}{324}$ |

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Table 3.2 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{12} - 9x^{11} - 9x^{10} + 9x^9 + 9x^7 - 3x^6 + 3x^3 + 9x + 12$ | $x^{12} - 9x^9 + 24x^6 + 63$ | $\left[\begin{matrix} 5 & 6 \\ 4 & 2 \end{matrix} \right]_4$ | T: 12,5 | $\frac{23}{12}$ |
| $x^{12} + 9x^{10} + 12x^9 - 9x^8 - 9x^5 + 9x^4 - 6x^3 + 9x + 12$ | $x^{12} - 48x^9 + 966x^6 + 2016x^3 + 1029$ | $\left[\begin{matrix} 5 & 5 & 2 \\ 4 & 4 & 2 \end{matrix} \right]_4^2$ | T: 12,131 | $\frac{727}{324}$ |
| $x^{12} - 9x^9 + 9x^8 - 3x^6 - 9x^5 + 9x^3 + 9x^2 + 12$ | $x^{12} - 15x^9 + 240x^6 + 630x^3 + 441$ | $\left[\begin{matrix} 2 & 5 \\ 4 & 2 \end{matrix} \right]_4^2$ | T: 12,19 | $\frac{79}{36}$ |
| $x^{12} - 9x^{11} + 9x^{10} - 6x^9 + 9x^7 + 9x^6 - 9x^5 - 9x^4 - 6x^3 + 9x + 3$ | $x^{12} - 6x^9 + 156x^6 + 504x^3 + 2352$ | $\left[\begin{matrix} 2 & 5 \\ 4 & 2 \end{matrix} \right]_4^2$ | T: 12,19 | $\frac{79}{36}$ |
| $x^{12} + 9x^{11} + 9x^{10} + 3x^9 + 9x^8 - 9x^6 - 9x^5 - 9x^4 - 9x^3 - 9x^2 + 9x + 3$ | $x^{12} - 6x^9 + 6x^6 + 36$ | $\left[\begin{matrix} 2 & 9 & 9 \\ 4 & 4 & 2 \end{matrix} \right]_4^2$ | T: 12,131 | $\frac{775}{324}$ |
| $x^{12} + 9x^{11} + 9x^{10} - 9x^7 - 9x^6 + 3x^3 + 9x^2 + 9x + 3$ | $x^{12} - 63x^6 + 1029$ | $\left[\begin{matrix} 5 & 6 \\ 4 & 2 \end{matrix} \right]_4$ | T: 12,5 | $\frac{23}{12}$ |

Table 3.3: Degree 14 extensions of \mathbb{Q}_2

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-------------|------------------|
| $x^{14} - x^5 - x^3 - x + 1$ | $x^{14} + 21x^{12} - 42x^{11} + 350x^{10} - 553x^9 + 2184x^8 - 2696x^7 + 8869x^6 - 8701x^5 + 18151x^4 - 8246x^3 + 17920x^2 - 8148x + 9409$ | $\left[\begin{array}{c} 14 \\ 1 \end{array} \right]$ | T: 1,1 | 0 |
| $x^{14} - 2x^7 + 4$ | $x^{14} + 14x^{12} + 140x^{10} + 672x^8 - 22x^7 + 2352x^6 + 308x^5 + 3136x^4 + 2464x^3 + 3136x^2 + 1232x + 484$ | $\left[\begin{array}{c} 6 \\ 7 \end{array} \right]$ | I: 7,1 | $\frac{6}{7}$ |
| $x^{14} + 3x^{12} - 2x^{11} - 2x^{10} + 4x^9 + 2x^7 + 2x^5 + 2x^4 - 2x^3 + 2x^2 + 4x - 3$ | $x^{14} - 441x^{10} + 35721x^6 - 166698x^4 + 250047x^2 - 107163$ | $\left[\begin{array}{ccccccc} 2 & 2 & 2 & 2 & 2 & 2 & 2 \\ & & & & & & 1 \end{array} \right]^7$ | I: 128,2328 | $\frac{127}{64}$ |
| $x^{14} + 2x^{13} - x^{12} + 2x^{10} + 2x^9 + 2x^7 + 2x + 1$ | $x^{14} - 42x^{12} + 126x^{10} + 7938x^8 - 36855x^6 - 304479x^4 + 137781x^2 + 789507$ | $\left[\begin{array}{ccc} 14 \\ 2 & 2 & 2 \\ & & 1 \end{array} \right]$ | I: 8,5 | $\frac{7}{4}$ |
| Continued on next page | | | | |

Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|--------------|------------------|
| $x^{14} + 2x^{13} + x^{12} + 2x^{10} + 2x^5 - 1$ | $x^{14} + 14x^{12} + 14x^{10} - 294x^8 - 455x^6 + 1253x^4 + 189x^2 - 361$ | $\begin{bmatrix} 2 & 2 & 2 \\ & 2 & 2 \\ & & 2 \end{bmatrix}_1^7$ | I: 8,5 | $\frac{7}{4}$ |
| $x^{14} + 3x^{12} + 2x^{10} + 4x^9 - 2x^8 + 4x^7 + 2x^5 + 2x^4 + 2x^3 + 2x - 3$ | $x^{14} - 14x^{12} + 42x^{10} + 14x^8 - 140x^6 + 98x^4 - 21x^2 + 1$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 & 2 \\ & & 2 & 2 & 2 \\ & & & 2 & 2 \\ & & & & 2 \end{bmatrix}_1^7$ | I: 128, 2328 | $\frac{127}{64}$ |
| $x^{14} + 2x^{13} + x^{12} + 2x^{11} - 2x^{10} + 2x^8 + 4x^7 - 2x^6 + 4x^5 + 4x^4 + 2x^2 - 3$ | $x^{14} - 14x^{12} + 42x^{10} + 119x^8 - 490x^6 - 364x^4 + 1246x^2 + 961$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 & 2 \\ & & 2 & 2 & 2 \\ & & & 2 & 2 \\ & & & & 2 \end{bmatrix}_1^7$ | I: 128, 2328 | $\frac{127}{64}$ |
| $x^{14} - 3x^{12} + 4x^{11} - 2x^{10} + 4x^9 - 2x^8 + 4x^6 - 2x^5 - 2x^4 + 2x^2 - 2x + 3$ | $x^{14} - 84x^{10} - 70x^8 + 1505x^6 + 7x^4 - 6405x^2 + 4489$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{bmatrix}_1^7$ | I: 16, 14 | $\frac{15}{8}$ |
| $x^{14} + 2x^{13} + 3x^{12} + 2x^{11} - 2x^{10} - 2x^{10} + 2x^8 + 2x^7 + 4x^6 - 2x^4 - 2x^3 - 2x^2 + 4x - 3$ | $x^{14} + 42x^{12} + 378x^{10} - 3213x^8 - 39690x^6 + 88452x^4 + 908334x^2 - 2101707$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 & 2 \\ & & 2 & 2 & 2 \\ & & & 2 & 2 \\ & & & & 2 \end{bmatrix}_1^7$ | I: 128, 2328 | $\frac{127}{64}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-------------|------------------|
| $x^{14} - x^{12} + 2x^{11} + 2x^{10} + 2x^9 + 2x^7 + 2x^6 + 2x^5 + 2x^4 + 2x^2 - 1$ | $x^{14} + 42x^{12} + 126x^{10} - 7938x^8 - 36855x^6 + 304479x^4 + 137781x^2 - 789507$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & & & 1 \end{bmatrix}^7$ | I: 16,14 | $\frac{15}{8}$ |
| $x^{14} + 2x^{13} + x^{12} + 4x^{11} - 2x^{10} + 2x^9 + 4x^8 - 2x^6 + 4x^5 + 4x^4 + 2x^3 + 4x^2 + 1$ | $x^{14} - 63x^{12} - 42x^{11} + 1316x^{10} + 1232x^9 - 11361x^8 - 11660x^7 + 37282x^6 + 39578x^5 - 20720x^4 - 25844x^3 - 1295x^2 + 2436x + 313$ | $\begin{bmatrix} 2 \\ & & & 1 \end{bmatrix}^7$ | I: 2,1 | 1 |
| $x^{14} - 2x^{13} - 3x^{12} - 2x^{10} + 4x^9 + 2x^8 - 2x^7 - 2x^6 + 4x^5 + 4x^4 + 4x^3 + 4x^2 + 2x + 3$ | $x^{14} + 42x^{12} + 567x^{10} + 2457x^8 - 1701x^6 - 17010x^4 + 2187$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{bmatrix}^{14}$ | I: 64,267 | $\frac{63}{32}$ |
| $x^{14} + x^{12} + 2x^{10} + 2x^8 + 2x^7 + 2x^5 + 2x^4 + 2x^3 + 1$ | $x^{14} - 21x^{12} - 126x^{10} + 1890x^8 + 3969x^6 - 34020x^4 + 15309x^2 + 2187$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{bmatrix}^{14}$ | I: 64,267 | $\frac{63}{32}$ |
| $x^{14} + 4x^{13} + 3x^{12} + 2x^{11} - 2x^9 + 2x^7 - 2x^4 - 2x^3 - 2x^2 + 1$ | $x^{14} - 49x^{10} + 441x^6 + 686x^4 + 343x^2 + 49$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 2 \\ & & & & & 1 \end{bmatrix}^7$ | I: 128,2328 | $\frac{127}{64}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-------------|------------------|
| $x^{14} + 4x^{13} + x^{12} + 4x^{10} + 2x^9 - 2x^8 - 2x^7 + 4x^6 - 2x^5 + 4x^4 - 2x^3 + 2x^2 + 1$ | $x^{14} - 7x^{12} - 28x^{10} + 210x^8 - 14x^6 - 168x^4 + 56x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^7$ | I: 64,267 | $\frac{63}{32}$ |
| $x^{14} + 4x^{13} - x^{12} - 2x^{11} + 2x^{10} + 2x^9 + 2x^8 + 2x^7 + 2x^6 + 4x^4 - 2x^3 + 2x^2 + 2x + 1$ | $x^{14} + 7x^{12} - 63x^{10} - 266x^8 - 245x^6 - 7x^4 + 21x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^7$ | I: 64,267 | $\frac{63}{32}$ |
| $x^{14} + x^{12} + 4x^{11} - 2x^9 + 2x^8 + 2x^7 + 4x^4 + 4x^3 - 2x^2 - 3$ | $x^{14} + 21x^{12} - 252x^{10} - 5670x^8 - 1134x^6 + 40824x^4 + 40824x^2 + 2187$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^{14}$ | I: 64,267 | $\frac{63}{32}$ |
| $x^{14} + 4x^{13} + x^{12} + 4x^{11} - 2x^{10} + 2x^9 - 2x^8 + 4x^7 + 2x^6 - 2x^5 - 2x^4 - 2x^3 - 2x^2 + 4x + 1$ | $x^{14} - 42x^{12} + 567x^{10} - 2457x^8 - 1701x^6 + 17010x^4 - 2187$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_1^7$ | I: 128,2328 | $\frac{127}{64}$ |
| $x^{14} + x^{12} + 2x^{11} + 2x^{10} + 2x^9 + 2x^8 + 2x^4 + 2x^3 + 2x^2 + 2x + 1$ | $x^{14} - 84x^{10} + 70x^8 + 1505x^6 - 7x^4 - 6405x^2 - 4489$ | $\left[\begin{array}{cc} 2 & 2 \\ & 2 \end{array} \right]_1^7$ | I: 8,5 | $\frac{7}{4}$ |
| Continued on next page | | | | |

Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-------------|------------------|
| $x^{14} - 3x^{12} + 2x^{11} + 2x^{10} + 4x^8 + 4x^7 + 2x^6 + 2x^4 + 2x^2 + 2x + 3$ | $x^{14} - 756x^{10} + 1890x^8 + 121905x^6 - 1701x^4 - 4669245x^2 - 9817443$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 1 \end{array} \right]_1^7$ | I: 16,14 | $\frac{15}{8}$ |
| $x^{14} + 4x^{13} - 3x^{12} - 2x^{11} + 2x^9 - 2x^8 + 2x^7 + 2x^6 - 2x^3 + 4x^2 + 1$ | $x^{14} - 441x^{10} + 35721x^6 + 166698x^4 + 250047x^2 + 107163$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 1 \end{array} \right]_1^{14}$ | I: 64,267 | $\frac{63}{32}$ |
| $x^{14} + 2x^{13} + x^{12} + 2x^9 + 2x^8 + 2x^7 + 2x^6 + 2x^3 + 2x - 1$ | $x^{14} - 756x^{10} - 1890x^8 + 121905x^6 + 1701x^4 - 4669245x^2 + 9817443$ | $\left[\begin{array}{cccc} 2 & 2 & 2 \\ & & & 1 \end{array} \right]_1^{14}$ | I: 8,5 | $\frac{7}{4}$ |
| $x^{14} - x^{12} + 2x^{11} + 2x^9 + 2x^8 + 2x^7 + 2x^6 + 2x^5 + 2x^4 + 2x^3 + 2x - 1$ | $x^{14} + 21x^{12} - 126x^{10} - 1890x^8 + 3969x^6 + 34020x^4 + 15309x^2 - 2187$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 1 \end{array} \right]_1^7$ | I: 128,2328 | $\frac{127}{64}$ |
| $x^{14} + x^{12} + 2x^{11} + 2x^9 + 2x^8 + 2x^5 + 2x^4 + 2x - 1$ | $x^{14} - 21x^{12} - 567x^{10} + 7182x^8 - 19845x^6 + 1701x^4 + 15309x^2 + 2187$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 1 \end{array} \right]_1^{14}$ | I: 64,267 | $\frac{63}{32}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-------------|------------------|
| $x^{14} + 2x^{13} - x^{12} + 2x^7 + 2x^5 + 2x^3 + 2x - 1$ | $x^{14} - 42x^{12} + 378x^{10} + 378x^8 - 11340x^6 + 23814x^4 - 15309x^2 + 2187$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_{14}$ | I: 64,267 | $\frac{63}{32}$ |
| $x^{14} + 2x^{13} + 3x^{12} + 4x^8 + 4x^7 + 4x^6 - 2x^5 - 2x^3 + 2x^2 + 2x - 3$ | $x^{14} - 7x^{12} - 63x^{10} + 266x^8 - 245x^6 + 7x^4 + 21x^2 + 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_{7}$ | I: 128,2328 | $\frac{127}{64}$ |
| $x^{14} + x^{12} + 2x^{11} + 2x^{10} + 2x^9 + 2x^5 + 2x^3 + 2x^2 + 1$ | $x^{14} + 7x^{12} - 14x^{10} - 70x^8 + 49x^6 + 140x^4 + 21x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_{7}$ | I: 64,267 | $\frac{63}{32}$ |
| $x^{14} + x^{12} + 4x^{11} - 2x^{10} + 2x^9 - 2x^7 + 4x^6 - 2x^2 + 2x + 3$ | $x^{14} + 14x^{12} + 42x^{10} - 14x^8 - 140x^6 - 98x^4 - 21x^2 - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_{7}$ | I: 64,267 | $\frac{63}{32}$ |
| $x^{14} + 4x^{13} + x^{12} + 2x^{11} + 4x^9 + 2x^7 + 2x^6 - 2x^5 + 2x^4 + 2x^3 + 2x^2 + 2x - 3$ | $x^{14} - 21x^{12} - 252x^{10} + 5670x^8 - 1134x^6 - 40824x^4 + 40824x^2 - 2187$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_{7}$ | I: 128,2328 | $\frac{127}{64}$ |
| $x^{14} - x^{12} + 2x^{11} + 2x^{10} + 2x^7 + 2x^4 + 2x^2 + 2x + 1$ | $x^{14} - 49x^{10} + 441x^6 - 686x^4 + 343x^2 - 49$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{array} \right]_{7}$ | I: 64,267 | $\frac{63}{32}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|--------------|------------------|
| $x^{14} + x^{12} + 2x^{11} + 2x^{10} + 2x^9 + 2x^8 + 2x^4 + 2x^3 + 2x - 1$ | $x^{14} + 14x^{12} + 63x^{10} + 91x^8 - 21x^6 - 70x^4 + 1$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 2 \\ & & & & & 2 \\ & & & & & 2 \\ & & & & & 2 \\ & & & & & 2 \\ & & & & & 2 \end{bmatrix}_1^7$ | I: 128, 2328 | $\frac{127}{64}$ |
| $x^{14} - x^{12} + 2x^{10} + 2x^9 + 2x^7 + 2x^6 + 2x^5 + 2x^2 + 2x + 1$ | $x^{14} - 14x^{12} + 63x^{10} - 91x^8 - 21x^6 + 70x^4 - 1$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & & & & 2 \\ & & & & 2 \\ & & & & 2 \\ & & & & 2 \\ & & & & 2 \end{bmatrix}_1^7$ | I: 64, 267 | $\frac{63}{32}$ |
| $x^{14} + 4x^{13} - 3x^{12} - 2x^{11} + 2x^{10} - 2x^9 + 4x^7 + 2x^6 + 2x^5 + 4x^3 + 4x^2 - 2x - 3$ | $x^{14} + 14x^{12} + 42x^{10} - 119x^8 - 490x^6 + 364x^4 + 1246x^2 - 961$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & & & & 2 \\ & & & & 2 \\ & & & & 2 \\ & & & & 2 \\ & & & & 2 \end{bmatrix}_1^7$ | I: 64, 267 | $\frac{63}{32}$ |
| $x^{14} + 4x^{13} + 3x^{12} - 2x^{11} + 2x^{10} - 2x^8 + 4x^6 - 2x^5 + 4x^3 - 2x^2 + 2x + 1$ | $x^{14} + 42x^{12} + 623x^{10} + 4431x^8 + 16513x^6 + 31906x^4 + 28784x^2 + 9409$ | $\begin{bmatrix} 2 \\ & & & & 2 \\ & & & & 2 \\ & & & & 2 \\ & & & & 2 \\ & & & & 2 \end{bmatrix}_1^7$ | I: 2, 1 | 1 |
| $x^{14} + 4x^{13} - 2x^{12} + 3x^{10} + 2x^7 + x^6 - 2x^5 + 2x^4 - 2x^3 + 3x^2 - 2x - 1$ | $x^{14} + 70x^{12} - 2800x^{10} - 21000x^8 - 14000x^6 + 1680000x^4 + 5600000x^2 + 1000000$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 2 \\ & & & & & 2 \\ & & & & & 2 \\ & & & & & 2 \\ & & & & & 2 \\ & & & & & 2 \end{bmatrix}_1^7$ | I: 128, 2328 | $\frac{159}{64}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|--------------|------------------|
| $x^{14} + 4x^{13} + 4x^{12} + 4x^{11} - 3x^{10} + 2x^7 + x^6 - 2x^5 + 4x^4 + 2x^3 - x^2 - 2x + 1$ | $x^{14} + 14x^{12} - 112x^{10} - 1680x^8 - 224x^6 + 5376x^4 + 3584x^2 + 128$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 2 & 3 \\ & & & & & & 7 \\ & & & & & & 1 \end{bmatrix}$ | I: 128, 2328 | $\frac{159}{64}$ |
| $x^{14} - 4x^{13} + 4x^{11} + 7x^{10} + 4x^9 + 4x^8 - 2x^7 - 7x^6 - 2x^5 + 8x^4 - 2x^3 - 3x^2 + 2x + 3$ | $x^{14} - 140x^{12} + 4200x^{10} + 14000x^8 - 1400000x^6 + 98000000x^4 - 210000000x^2 + 10000000$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 2 & 3 \\ & & & & & & 7 \\ & & & & & & 1 \end{bmatrix}$ | I: 128, 2328 | $\frac{159}{64}$ |
| $x^{14} + 4x^{11} - 3x^{10} + 2x^8 - 2x^7 + x^6 - 2x^5 + 4x^4 + 2x^3 - x^2 - 2x + 3$ | $x^{14} - 84x^{12} + 1512x^{10} + 3024x^8 - 181440x^6 + 762048x^4 - 979776x^2 + 279936$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 2 & 3 \\ & & & & & & 7 \\ & & & & & & 1 \end{bmatrix}$ | I: 128, 2328 | $\frac{159}{64}$ |
| $x^{14} + 4x^{13} - 2x^{12} - 3x^{10} + 4x^9 - 2x^7 + 3x^6 + 2x^5 + 2x^3 - x^2 + 2x - 1$ | $x^{14} + 28x^{12} + 252x^{10} + 728x^8 - 336x^6 - 2240x^4 + 128$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 2 & 3 \\ & & & & & & 7 \\ & & & & & & 1 \end{bmatrix}$ | I: 128, 2328 | $\frac{159}{64}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-------------|------------------|
| $x^{14} + 4x^{11} - 3x^{10} + 4x^9 + 2x^8 +$ $2x^7 - 3x^6 + 2x^5 - 2x^4 - 2x^3 -$ $x^2 - 2x + 1$ | $x^{14} - 28x^{12} - 42x^{11} + 371x^{10} +$ $1022x^9 - 791x^8 - 4240x^7 + 8057x^6 +$ $35938x^5 + 35840x^4 + 6146x^3 +$ $123060x^2 + 334516x + 420353$ | $\begin{bmatrix} 7 \\ 3 \\ 1 \end{bmatrix}$ | I: 2,1 | $\frac{3}{2}$ |
| $x^{14} + 2x^{12} + 4x^{11} + x^{10} + 4x^9 +$ $2x^7 + 3x^6 - 2x^5 + 4x^4 - 2x^3 -$ $3x^2 - 2x + 3$ | $x^{14} - 392x^{10} + 2744x^8 + 5488x^6 -$ $32928x^4 + 43904$ | $\begin{bmatrix} 7 \\ 2 & 2 & 2 & 2 & 2 & 3 \\ 1 \end{bmatrix}$ | I: 128,2328 | $\frac{159}{64}$ |
| $x^{14} + 4x^{13} + 4x^{11} - 3x^{10} +$ $8x^9 + 2x^8 - 2x^7 + 3x^6 + 2x^5 -$ $2x^3 + x^2 + 6x - 7$ | $x^{14} - 28x^{12} + 168x^{10} + 112x^8 -$ $2240x^6 + 3136x^4 - 1344x^2 + 128$ | $\begin{bmatrix} 7 \\ 2 & 2 & 2 & 2 & 2 & 3 \\ 1 \end{bmatrix}$ | I: 128,2328 | $\frac{159}{64}$ |
| $x^{14} - 2x^{12} - x^{10} + 4x^9 + 4x^8 +$ $2x^7 + x^6 - 2x^5 - 2x^4 + 2x^3 -$ $x^2 - 2x + 1$ | $x^{14} + 84x^{12} + 2268x^{10} + 19656x^8 -$ $27216x^6 - 544320x^4 + 279936$ | $\begin{bmatrix} 7 \\ 2 & 2 & 2 & 2 & 2 & 3 \\ 1 \end{bmatrix}$ | I: 128,2328 | $\frac{159}{64}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-------------|------------------|
| $x^{14} + 2x^{12} + 4x^{11} - 3x^{10} + 4x^9 - 2x^8 - 2x^7 - 3x^6 - 2x^5 - 2x^4 + 2x^3 - 3x^2 - 2x + 1$ | $x^{14} - 3024x^{10} - 15120x^8 + 1950480x^6 + 54432x^4 - 298831680x^2 + 1256632704$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 1 \end{array} \right]^7_1$ | I: 16,14 | $\frac{19}{8}$ |
| $x^{14} - 2x^{12} + 4x^{11} - x^{10} - 2x^7 - 3x^6 + 2x^5 - 2x^4 - 2x^3 - 3x^2 - 2x - 1$ | $x^{14} - 14x^{12} - 1176x^{10} - 8232x^8 - 12544x^6 + 4704x^4 + 6272x^2 + 896$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 3 \\ & & & 1 \end{array} \right]^7_1$ | I: 128,2328 | $\frac{159}{64}$ |
| $x^{14} + 4x^{13} + 6x^{12} - 5x^{10} - 4x^9 - 6x^8 + 6x^7 + 7x^6 - 6x^5 - 2x^4 - 6x^3 + 3x^2 + 2x - 3$ | $x^{14} - 14x^{12} - 392x^{10} + 784x^8 + 19600x^6 + 34496x^4 + 15680x^2 + 896$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 3 \\ & & & 1 \end{array} \right]^7_1$ | I: 128,2328 | $\frac{159}{64}$ |
| $x^{14} + 4x^{13} + 2x^{12} + 4x^{11} + x^{10} + 4x^9 + 2x^7 - 3x^6 - 2x^5 + 4x^4 + 2x^3 + 3x^2 + 2x + 3$ | $x^{14} - 70x^{12} - 1400x^{10} + 70000x^8 + 490000x^6 - 14000000x^4 + 21000000x^2 + 10000000$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 3 \\ & & & 1 \end{array} \right]^7_1$ | I: 128,2328 | $\frac{159}{64}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|--------------|------------------|
| $x^{14} + 4x^{13} - 2x^{12} + 4x^{11} - x^{10} + 4x^9 + 2x^8 + 2x^7 + 3x^6 - 2x^5 + 4x^4 - 2x^3 + 3x^2 + 2x - 1$ | $x^{14} + 42x^{12} - 1008x^{10} - 45360x^8 - 18144x^6 + 1306368x^4 + 2612736x^2 + 279936$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 2 & 3 \\ & & & & & & 1 \end{bmatrix}^7$ | I: 128, 2328 | $\frac{159}{64}$ |
| $x^{14} - 4x^{13} - 2x^{12} + 4x^{11} - 3x^{10} + 8x^9 + 2x^8 - 6x^7 - x^6 + 2x^5 + 8x^4 + 6x^3 - 3x^2 - 2x + 5$ | $x^{14} - 14x^{12} - 252x^{10} + 2128x^8 - 3920x^6 + 224x^4 + 1344x^2 + 128$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 2 & 3 \\ & & & & & & 1 \end{bmatrix}^7$ | I: 128, 2328 | $\frac{159}{64}$ |
| $x^{14} - 4x^{13} - 2x^{12} + 8x^{11} - 7x^{10} + 8x^9 + 6x^7 - 7x^6 + 2x^5 + 8x^4 - 2x^3 - 7x^2 - 6x + 3$ | $x^{14} - 140x^{12} + 4200x^{10} + 119000x^8 - 4900000x^6 - 36400000x^4 + 1246000000x^2 + 9610000000$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 2 & 3 \\ & & & & & & 1 \end{bmatrix}^7$ | I: 128, 2328 | $\frac{159}{64}$ |
| $x^{14} + 4x^{13} + 4x^{11} - 3x^{10} + 4x^9 + 2x^7 - x^6 - 2x^5 + 4x^4 + 2x^3 - 3x^2 - 2x + 3$ | $x^{14} - 8400x^{10} - 70000x^8 + 15050000x^6 + 700000x^4 - 6405000000x^2 + 44890000000$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 \\ & & & & 1 \end{bmatrix}^7$ | I: 16, 14 | $\frac{19}{8}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-------------|------------------|
| $x^{14} + 4x^{13} - 2x^{12} + 8x^{11} - 5x^{10} + 4x^9 + 2x^8 - 6x^7 - x^6 - 2x^5 + 2x^4 + 6x^3 + x^2 + 2x - 5$ | $x^{14} + 140x^{12} + 6300x^{10} + 91000x^8 - 210000x^6 - 7000000x^4 + 10000000$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 2 & 3 \\ & & & & & & 1 \end{bmatrix}^7$ | I: 128,2328 | $\frac{159}{64}$ |
| $x^{14} + 4x^{12} + 4x^{11} - x^{10} + 4x^9 + 2x^8 + 2x^7 + 3x^6 - 2x^5 - 2x^4 + 2x^3 + x^2 + 2x + 1$ | $x^{14} - 14x^{12} - 392x^{10} + 392x^8 + 18816x^6 - 1568x^4 - 31360x^2 + 896$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 \\ & & & & 1 \end{bmatrix}^7$ | I: 16,14 | $\frac{19}{8}$ |
| $x^{14} - 4x^{13} - 4x^{12} + 4x^{11} + 3x^{10} - 4x^8 - 6x^7 - 5x^6 + 6x^5 - 6x^4 - 6x^3 + x^2 + 6x + 1$ | $x^{14} - 196x^{10} + 7056x^6 + 21952x^4 + 21952x^2 + 6272$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 2 & 3 \\ & & & & & & 1 \end{bmatrix}^7$ | I: 128,2328 | $\frac{159}{64}$ |
| $x^{14} + 4x^{13} + 8x^{12} - x^{10} + 4x^9 + 8x^8 - 6x^7 + 7x^6 + 2x^5 - 6x^4 - 2x^3 - 5x^2 + 6x + 1$ | $x^{14} - 140x^{12} + 1400x^{10} + 294000x^8 - 4550000x^6 - 125300000x^4 + 189000000x^2 + 361000000$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 \\ & & & & 1 \end{bmatrix}^7$ | I: 16,14 | $\frac{19}{8}$ |

Continued on next page

Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|--------------|------------------|
| $x^{14} + 4x^{13} + 2x^{12} + 3x^{10} - 2x^7 + x^6 - 2x^5 - 2x^3 + x^2 - 2x + 1$ | $x^{14} - 84x^{12} + 1512x^{10} + 25704x^8 - 635040x^6 - 2830464x^4 + 58133376x^2 + 269018496$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 2 & 3 \\ & & & & & & 7 \\ & & & & & & 1 \end{bmatrix}$ | I: 128, 2328 | $\frac{159}{64}$ |
| $x^{14} - 3x^{10} + 4x^9 - 2x^7 - 3x^6 - 2x^5 - 2x^3 + 3x^2 + 2x - 3$ | $x^{14} - 70x^{12} - 6300x^{10} + 266000x^8 - 2450000x^6 + 7000000x^4 + 21000000x^2 + 10000000$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 2 & 3 \\ & & & & & & 7 \\ & & & & & & 1 \end{bmatrix}$ | I: 128, 2328 | $\frac{159}{64}$ |
| $x^{14} - 4x^{12} + 8x^{11} + 5x^{10} + 4x^9 + 2x^8 + 6x^7 - 7x^6 + 6x^5 + 4x^4 - 6x^3 - 7x^2 - 2x + 3$ | $x^{14} - 4900x^{10} + 4410000x^6 + 68600000x^4 + 343000000x^2 + 490000000$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 2 & 3 \\ & & & & & & 7 \\ & & & & & & 1 \end{bmatrix}$ | I: 128, 2328 | $\frac{159}{64}$ |
| $x^{14} + 2x^{12} + x^{10} - 2x^8 - 2x^7 + x^6 + 2x^5 - 2x^3 + 3x^2 - 2x - 3$ | $x^{14} - 84x^{12} + 504x^{10} + 63504x^8 - 589680x^6 - 9743328x^4 + 8817984x^2 + 101056896$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 3 \\ & & & & 7 \\ & & & & 1 \end{bmatrix}$ | I: 16, 14 | $\frac{19}{8}$ |
| Continued on next page | | | | |

Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-------------|------------------|
| $x^{14} - 4x^{11} + x^{10} + 4x^9 + 2x^8 - 2x^7 - 3x^6 - 2x^5 + 4x^4 - 2x^3 - x^2 + 2x - 3$ | $x^{14} - 14x^{12} - 196x^{10} + 1960x^8 + 9408x^6 - 9408x^4 + 896$ | $\begin{bmatrix} 2 & 2 & 2 & 3 \\ & & & 1 \end{bmatrix}^7$ | I: 16,14 | $\frac{19}{8}$ |
| $x^{14} + 4x^{13} + 4x^{11} - x^{10} + 4x^9 + 2x^8 + 2x^7 - 3x^6 + 2x^5 - 2x^4 - 2x^3 - x^2 - 2x - 1$ | $x^{14} - 1764x^{10} + 571536x^6 + 5334336x^4 + 16003008x^2 + 13716864$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 3 \\ & & & & & 1 \end{bmatrix}^7$ | I: 128,2328 | $\frac{159}{64}$ |
| $x^{14} + 4x^{13} + 8x^{12} - 4x^{11} + x^{10} - 4x^9 + 8x^8 + 6x^7 - 7x^6 + 6x^5 + 6x^4 + 2x^3 + x^2 + 2x - 1$ | $x^{14} - 14x^{12} - 784x^{10} - 4704x^8 + 14112x^6 + 25088x^4 - 18816x^2 + 896$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 3 \\ & & & & & 1 \end{bmatrix}^7$ | I: 128,2328 | $\frac{159}{64}$ |
| $x^{14} + 2x^{12} - 3x^{10} + 4x^9 - 2x^7 - 3x^6 + 2x^5 + 2x^3 + 3x^2 - 2x + 3$ | $x^{14} - 14x^{12} + 392x^8 - 3136x^4 - 3136x^2 + 896$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 3 \\ & & & & & 1 \end{bmatrix}^7$ | I: 128,2328 | $\frac{159}{64}$ |
| $x^{14} + x^{10} + 2x^8 + 2x^7 + x^6 + 2x^5 + 2x^3 - x^2 + 2x + 1$ | $x^{14} - 14x^{12} - 196x^{10} + 2352x^8 - 7840x^6 + 10976x^4 - 6272x^2 + 896$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 3 \\ & & & & & 1 \end{bmatrix}^7$ | I: 128,2328 | $\frac{159}{64}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|--------------|------------------|
| $x^{14} - 2x^{12} - 4x^{11} + x^{10} + 6x^7 - 7x^6 - 2x^5 - 4x^4 + 6x^3 - 5x^2 - 2x - 1$ | $x^{14} - 42x^{12} - 504x^{10} + 15120x^8 + 63504x^6 - 1088640x^4 + 979776x^2 + 279936$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 2 & 3 \\ & & & & & & 7 \\ & & & & & & 1 \end{bmatrix}$ | I: 128, 2328 | $\frac{159}{64}$ |
| $x^{14} + 4x^{13} + 3x^{10} + 4x^9 + 2x^7 - x^6 + 2x^5 - 2x^3 + 3x^2 - 2x + 3$ | $x^{14} - 42x^{12} - 2268x^{10} + 57456x^8 - 317520x^6 + 54432x^4 + 979776x^2 + 279936$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 2 & 3 \\ & & & & & & 7 \\ & & & & & & 1 \end{bmatrix}$ | I: 128, 2328 | $\frac{159}{64}$ |
| $x^{14} + 4x^{13} + 4x^{12} + 4x^{11} - 3x^{10} + 4x^9 - 2x^7 - x^6 - 2x^5 + 2x^4 - 2x^3 + 3x^2 + 2x + 1$ | $x^{14} - 42x^{11} + 371x^{10} + 854x^9 + 6405x^8 + 10768x^7 + 98329x^6 + 216482x^5 + 949228x^4 + 1471666x^3 + 5724964x^2 + 7397628x + 17724049$ | $\begin{bmatrix} 3 \\ & & & & & & 7 \\ & & & & & & 1 \end{bmatrix}$ | I: 2, 1 | $\frac{3}{2}$ |
| $x^{14} + 4x^{13} + 8x^{12} + 4x^{11} + 5x^{10} + 8x^9 - 6x^8 - 6x^7 + x^6 + 6x^5 + 2x^3 + 7x^2 + 6x - 7$ | $x^{14} + 84x^{12} + 2156x^{10} + 19208x^8 + 60368x^6 + 47040x^4 + 12544x^2 + 896$ | $\begin{bmatrix} 3 \\ & & & & & & 7 \\ & & & & & & 1 \end{bmatrix}$ | I: 2, 1 | $\frac{3}{2}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-------------|------------------|
| $x^{14} + 2x^{12} + 4x^{11} + x^{10} + 4x^9 + 2x^8 - 2x^7 + x^6 - 2x^5 - 2x^4 + 2x^3 - 3x^2 - 2x + 1$ | $x^{14} - 336x^{10} - 560x^8 + 24080x^6 + 224x^4 - 409920x^2 + 574592$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 1 \end{array} \right]^7$ | I: 16,14 | $\frac{19}{8}$ |
| $x^{14} + 4x^{12} + 4x^{11} + x^{10} + 2x^7 + x^6 - 2x^5 + 2x^3 + x^2 + 2x - 3$ | $x^{14} - 14x^{12} - 56x^{10} + 560x^8 + 784x^6 - 4480x^4 + 1344x^2 + 128$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 3 \\ & & & 1 \end{array} \right]^7$ | I: 128,2328 | $\frac{159}{64}$ |
| $x^{14} - 4x^{13} - 4x^{12} - 7x^{10} + 8x^9 - 6x^8 + 2x^7 - 5x^6 + 6x^5 - 6x^4 - 2x^3 - 7x^2 - 6x + 3$ | $x^{14} - 28x^{12} + 168x^{10} + 952x^8 - 7840x^6 - 11648x^4 + 79744x^2 + 123008$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 3 \\ & & & 1 \end{array} \right]^7$ | I: 128,2328 | $\frac{159}{64}$ |
| $x^{14} - 4x^{13} + 2x^{12} + 8x^{11} + 7x^{10} + 6x^8 - 2x^7 + 7x^6 - 6x^5 - 4x^4 + 2x^3 - 3x^2 + 6x - 5$ | $x^{14} - 28x^{12} + 56x^{10} + 2352x^8 - 7280x^6 - 40096x^4 + 12096x^2 + 46208$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 3 \\ & & & 1 \end{array} \right]^7$ | I: 16,14 | $\frac{19}{8}$ |
| $x^{14} - 4x^{13} + 8x^{12} + 8x^{11} - 3x^{10} - 4x^9 + 2x^8 - 6x^7 + 7x^6 - 2x^5 + 4x^4 - 2x^3 + x^2 + 2x + 5$ | $x^{14} - 14x^{12} - 588x^{10} - 2744x^8 - 3136x^6 + 1568x^4 + 3136x^2 + 896$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 3 \\ & & & 1 \end{array} \right]^7$ | I: 128,2328 | $\frac{159}{64}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|---------|-----------------|
| $x^{14} + 8x^{13} - 4x^{12} + 4x^{11} + 5x^{10} - 4x^9 - 4x^8 + 2x^7 - x^6 + 6x^5 - 4x^4 + 6x^3 + 3x^2 + 6x + 3$ | $x^{14} + 28x^{12} - 42x^{11} + 1043x^{10} + 686x^9 + 27041x^8 + 33840x^7 + 508025x^6 + 804706x^5 + 6352920x^4 + 8567650x^3 + 48628468x^2 + 47642756x + 178610849$ | $\begin{bmatrix} 7 \\ 3 \end{bmatrix}_1$ | I: 2,1 | $\frac{3}{2}$ |
| $x^{14} + 2x^{12} + 2x^{10} + 2x^9 + 2x^8 + 2x^7 + 2x^6 + 2x^4 + 2x^3 + 2x + 2$ | $x^{14} - 35x^{12} - 42x^{11} + 371x^{10} + 1218x^9 - 1617x^8 - 10412x^7 + 2247x^6 + 38108x^5 - 469x^4 - 69034x^3 + 10885x^2 + 38402x - 3623$ | $\begin{bmatrix} 8 & 8 \\ 7 & 7 \end{bmatrix}_7$ | T: 14,6 | $\frac{31}{28}$ |
| $x^{14} + 2x^9 + 2x^4 + 2x^2 + 2x + 2$ | $x^{14} - 7x^{12} - 28x^{11} + 7x^{10} + 168x^9 + 147x^8 - 272x^7 - 413x^6 + 364x^5 + 511x^4 - 196x^3 - 427x^2 - 420x + 173$ | $\begin{bmatrix} 8 & 8 \\ 7 & 7 \end{bmatrix}_7^3$ | T: 14,6 | $\frac{31}{28}$ |
| $x^{14} + 2x^{13} + 2x^{11} + 2x^{10} + 2x^7 + 2x^6 + 2x^3 + 2$ | $x^{14} - 84x^{10} - 140x^8 + 784x^6 - 1008x^2 + 432$ | $\begin{bmatrix} 10 & 10 \\ 7 & 7 \end{bmatrix}_7^6$ | T: 14,6 | $\frac{19}{14}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{14} + 2x^{12} + 2x^8 + 2x^5 + 2x^4 + 2x^3 + 2x^2 + 2$ | $x^{14} + 7x^{12} - 14x^{11} - 7x^{10} - 238x^9 - 301x^8 - 174x^7 + 1631x^6 + 2842x^5 + 3003x^4 + 686x^3 - 1911x^2 - 882x - 189$ | $\left[\begin{array}{c} \frac{8}{7} \\ \frac{8}{7} \\ \frac{8}{7} \\ \frac{10}{7} \\ \frac{10}{7} \end{array} \right]_7^6$ | T: 14,21 | $\frac{311}{224}$ |
| $x^{14} + 2x^{10} + 2x^8 + 2x^7 + 2x^6 + 2x^5 + 2x^4 + 2x^3 + 2x^2 + 2$ | $x^{14} + 21x^{12} - 7x^{10} - 707x^8 + 2415x^6 - 2961x^4 + 1323x^2 - 81$ | $\left[\begin{array}{c} \frac{8}{7} \\ \frac{8}{7} \\ \frac{8}{7} \\ \frac{10}{7} \\ \frac{10}{7} \end{array} \right]_7^3$ | T: 14,21 | $\frac{311}{224}$ |
| $x^{14} + 2x^{13} + 2x^{12} + 2x^{11} + 2x^{10} + 2x^9 + 2x^5 + 2x^4 + 2x^3 + 2$ | $x^{14} - 7x^{12} - 91x^{10} + 497x^8 + 2331x^6 - 6993x^4 - 22869x^2 - 6561$ | $\left[\begin{array}{c} \frac{10}{7} \\ \frac{10}{7} \\ \frac{10}{7} \end{array} \right]_7^3$ | T: 14,6 | $\frac{19}{14}$ |
| $x^{14} + 2x^{13} + 2x^{10} + 2x^8 + 2x^7 + 2x^5 + 2x^4 + 2$ | $x^{14} + 7x^{12} + 35x^{10} - 14x^9 - 203x^8 - 356x^7 + 105x^6 + 518x^5 + 539x^4 - 532x^3 - 287x^2 + 196x - 23$ | $\left[\begin{array}{c} \frac{12}{7} \\ \frac{12}{7} \\ \frac{12}{7} \end{array} \right]_7^3$ | T: 14,6 | $\frac{45}{28}$ |
| $x^{14} + 2x^{10} + 2x^8 + 2x^7 + 2x^5 + 2$ | $x^{14} - 14x^{10} - 112x^9 - 238x^8 + 342x^7 + 1176x^6 + 1862x^5 - 1372x^4 - 2324x^3 - 4032x^2 + 1148x + 190$ | $\left[\begin{array}{c} \frac{12}{7} \\ \frac{12}{7} \\ \frac{12}{7} \end{array} \right]_7^3$ | T: 14,6 | $\frac{45}{28}$ |
| Continued on next page | | | | |

Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{14} + 2x^{10} + 2x^9 + 2x^8 + 2x^7 + 2x^5 + 2x^4 + 2$ | $x^{14} - 7x^{12} - 35x^{10} + 161x^8 + 399x^6 + 35x^4 - 133x^2 - 1$ | $\left[\begin{array}{c} \frac{8}{7} \\ \frac{8}{7} \\ \frac{8}{7} \\ \frac{12}{7} \\ \frac{12}{7} \end{array} \right]_7^3$ | T: 14,21 | $\frac{367}{224}$ |
| $x^{14} + 2x^{12} + 2x^{10} + 2x^9 + 2x^8 + 2x^5 + 2x^2 + 2$ | $x^{14} - 14x^{12} - 14x^{11} + 14x^{10} + 140x^9 + 378x^8 - 236x^7 - 770x^6 - 1918x^5 - 1568x^4 + 4032x^3 + 3878x^2 + 7476x - 470$ | $\left[\begin{array}{c} \frac{8}{7} \\ \frac{8}{7} \\ \frac{8}{7} \\ \frac{12}{7} \\ \frac{12}{7} \end{array} \right]_7^6$ | T: 14,21 | $\frac{367}{224}$ |
| $x^{14} + 2x^{13} + 2x^{12} + 2x^{10} + 2x^9 + 2x^8 + 2x^7 + 2x^6 + 2x^5 + 2x^2 + 2$ | $x^{14} - 35x^{12} - 42x^{11} + 371x^{10} + 1218x^9 - 1617x^8 - 10308x^7 + 735x^6 + 40740x^5 + 11795x^4 - 125202x^3 + 30541x^2 + 96138x - 48135$ | $\left[\begin{array}{c} \frac{12}{7} \\ \frac{12}{7} \\ \frac{12}{7} \end{array} \right]_7^6$ | T: 14,6 | $\frac{45}{28}$ |
| $x^{14} + 2x^{12} + 2x^{11} + 2x^{10} + 2x^5 + 2x^4 + 2$ | $x^{14} - 35x^{12} - 14x^{11} + 427x^{10} + 504x^9 - 2261x^8 - 4976x^7 + 2835x^6 + 17738x^5 + 14357x^4 - 12334x^3 - 29085x^2 - 19166x - 4489$ | $\left[\begin{array}{c} \frac{8}{7} \\ \frac{8}{7} \\ \frac{8}{7} \\ \frac{12}{7} \\ \frac{12}{7} \end{array} \right]_7^3$ | T: 14,21 | $\frac{367}{224}$ |
| Continued on next page | | | | |

Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{14} + 2x^{13} + 2x^{11} + 2x^{10} +$ $2x^9 + 2x^8 + 2x^7 + 2x^6 + 2x^5 + 2$ | $x^{14} - 14x^{12} - 14x^{11} - 14x^{10} + 504x^9 +$ $308x^8 - 3496x^7 - 1652x^6 + 14896x^5 -$ $4256x^4 - 20888x^3 + 18536x^2 - 4032x +$ 72 | $\left[\begin{array}{c} \frac{12}{7} \\ \frac{12}{7} \\ \frac{12}{7} \end{array} \right]_7^6$ | T: 14,6 | $\frac{45}{28}$ |
| $x^{14} + 2x^{13} + 2x^{12} + 2x^8 + 2x^7 +$ $2x^6 + 2x^5 + 2x^2 + 2$ | $x^{14} - 14x^{12} + 140x^{10} - 1512x^8 -$ $192x^7 + 9072x^6 + 5376x^5 - 32032x^4 -$ $26880x^3 + 83776x^2 - 10752x - 28032$ | $\left[\begin{array}{c} \frac{8}{7} \\ \frac{8}{7} \\ \frac{8}{7} \\ \frac{12}{7} \\ \frac{12}{7} \end{array} \right]_7^6$ | T: 14,21 | $\frac{367}{224}$ |
| $x^{14} + 4x^{13} + 4x^{12} + 2x^{10} -$ $2x^9 + 4x^8 - 2x^7 + 2x^6 + 4x^4 +$ $2x^2 + 4x - 2$ | $x^{14} - 140x^{10} + 616x^8 + 560x^6 -$ $5460x^4 + 5796x^2 - 108$ | $\left[\begin{array}{c} \frac{8}{7} \\ \frac{8}{7} \\ \frac{12}{7} \\ \frac{12}{7} \\ \frac{12}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{815}{448}$ |
| $x^{14} + 2x^{12} + 4x^{11} + 2x^{10} +$ $2x^9 + 2x^8 - 2x^7 + 4x^5 + 4x^3 -$ $2x^2 - 2$ | $x^{14} - 21x^{12} + 21x^{10} + 119x^8 - 133x^6 -$ $35x^4 + 35x^2 + 9$ | $\left[\begin{array}{c} \frac{12}{7} \\ \frac{12}{7} \\ \frac{12}{7} \end{array} \right]_7^3$ | T: 14,9 | $\frac{101}{56}$ |
| Continued on next page | | | | |

Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|-------------------|
| $x^{14} + 2x^{12} + 2x^{11} + 2x^{10} + 2x^9 + 2x^8 + 2x^7 + 2x^2 + 2$ | $x^{14} - 21x^{12} - 56x^{11} - 21x^{10} - 399x^8 - 1012x^7 - 805x^6 - 952x^5 - 2779x^4 + 2772x^3 + 23569x^2 + 38472x + 20931$ | $\left[\frac{8}{7} \quad \frac{8}{7} \quad \frac{8}{7} \quad \frac{12}{7} \quad \frac{12}{7} \quad \frac{12}{7} \quad 2 \right]_7^3$ | T: 14,29 | $\frac{815}{448}$ |
| $x^{14} + 4x^{13} + 4x^{10} - 2x^9 - 2x^8 - 2x^7 + 4x^5 + 4x^4 + 4x^3 + 4x^2 - 2$ | $x^{14} + 7x^{12} - 42x^{11} - 217x^{10} - 546x^9 - 1449x^8 + 2706x^7 + 28077x^6 + 57246x^5 + 40733x^4 + 31416x^3 + 25123x^2 - 2016x - 6009$ | $\left[\frac{12}{7} \quad \frac{12}{7} \quad \frac{12}{7} \quad \frac{12}{7} \quad 2 \right]_7^3$ | T: 14,9 | $\frac{101}{56}$ |
| $x^{14} + 4x^{13} - 2x^{12} + 4x^{11} + 2x^9 - 2x^8 - 2x^7 + 4x^5 + 2x^4 + 4x^3 - 2x^2 - 2$ | $x^{14} - 14x^{12} + 98x^{10} - 56x^9 - 714x^8 - 326x^7 + 2450x^6 + 4872x^5 + 4032x^4 + 1624x^3 + 266x^2 - 2$ | $\left[\frac{8}{7} \quad \frac{8}{7} \quad \frac{8}{7} \quad \frac{8}{7} \quad 2 \right]_7^3$ | T: 14,9 | $\frac{87}{56}$ |
| $x^{14} + 2x^{12} + 2x^{10} + 2x^7 + 2x^6 + 2x^2 + 2$ | $x^{14} - 84x^{10} + 140x^8 + 784x^6 - 1008x^2 - 432$ | $\left[\frac{10}{7} \quad \frac{10}{7} \quad \frac{10}{7} \quad 2 \right]_7^3$ | T: 14,9 | $\frac{47}{28}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{14} + 2x^{13} + 2x^{10} + 2x^9 + 2x^7 + 2x^2 + 2$ | $x^{14} - 14x^{12} - 14x^{11} - 14x^{10} - 112x^9 - 224x^8 + 346x^7 + 5894x^6 + 17640x^5 + 15750x^4 - 8456x^3 - 16660x^2 - 5040x - 666$ | $\left[\begin{array}{c} \frac{12}{7} \\ \frac{12}{7} \\ \frac{12}{7} \\ 2 \end{array} \right]_7^3$ | T: 14,9 | $\frac{101}{56}$ |
| $x^{14} + 2x^{13} + 2x^{11} + 2x^8 + 2x^7 + 2x^6 + 2$ | $x^{14} + 28x^{12} + 308x^{10} + 1680x^8 + 4704x^6 + 6272x^4 + 3136x^2 + 484$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \right]_7^3$ | T: 14,1 | $\frac{10}{7}$ |
| $x^{14} + 2x^{13} + 2x^9 + 2x^8 + 2x^7 + 2x^4 + 2$ | $x^{14} + 7x^{12} - 91x^{10} - 497x^8 + 2331x^6 + 6993x^4 - 22869x^2 + 6561$ | $\left[\begin{array}{c} \frac{10}{7} \\ \frac{10}{7} \\ \frac{10}{7} \\ 2 \end{array} \right]_7^3$ | T: 14,9 | $\frac{47}{28}$ |
| $x^{14} + 2x^{12} + 2x^{11} + 4x^{10} + 2x^8 - 2x^7 - 2x^6 + 4x^4 + 4x^3 - 2$ | $x^{14} - 49x^{12} + 833x^{10} - 5817x^8 - 44x^7 + 15771x^6 - 2156x^5 - 15323x^4 + 2156x^3 + 4963x^2 - 308x - 23$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \right]_7^3$ | T: 14,1 | $\frac{10}{7}$ |
| $x^{14} + 2x^{12} + 2x^{10} + 2x^9 + 2x^7 + 2x^6 + 2x^4 + 2x^2 + 2$ | $x^{14} - 21x^{12} - 7x^{10} + 707x^8 + 2415x^6 + 2961x^4 + 1323x^2 + 81$ | $\left[\begin{array}{c} \frac{8}{7} \\ \frac{8}{7} \\ \frac{8}{7} \\ \frac{10}{7} \\ \frac{10}{7} \\ 2 \end{array} \right]_7^3$ | T: 14,29 | $\frac{759}{448}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{14} - 2x^{11} + 2x^{10} - 2x^9 + 2x^7 + 2x^4 + 2x^2 + 2$ | $x^{14} - 14x^{12} - 238x^{10} - 1344x^9 - 2730x^8 - 8418x^7 - 27930x^6 - 47040x^5 - 38752x^4 - 17136x^3 - 5138x^2 - 504x - 6$ | $\left[\begin{array}{ccc} \frac{8}{7} & \frac{8}{7} & \frac{8}{7} \\ & \frac{12}{7} & 2 \\ & & \frac{2}{7} \end{array} \right]^3_7$ | T: 14,9 | $\frac{87}{56}$ |
| $x^{14} - 2x^{12} - 2x^{11} + 2x^{10} - 2x^8 - 2x^7 + 2x^6 + 4x^5 + 2x^4 + 4x^3 + 2x^2 - 2$ | $x^{14} - 14x^{12} - 112x^{10} + 336x^8 - 1704x^7 + 4368x^6 - 8736x^5 + 15008x^4 - 8736x^3 - 4928x^2 + 1344x + 96$ | $\left[\begin{array}{ccc} \frac{8}{7} & \frac{8}{7} & \frac{12}{7} \\ & \frac{12}{7} & \frac{12}{7} \\ & & 2 \end{array} \right]^3_7$ | T: 14,29 | $\frac{815}{448}$ |
| $x^{14} - 2x^{11} + 2x^9 - 2x^8 + 2x^7 + 2x^6 - 2x^4 + 4x^3 + 2x^2 - 2$ | $x^{14} - 21x^{12} + 49x^{10} + 539x^8 - 1813x^6 - 147x^4 + 3087x^2 - 1323$ | $\left[\begin{array}{ccc} \frac{8}{7} & \frac{8}{7} & \frac{10}{7} \\ & \frac{10}{7} & \frac{10}{7} \\ & & 2 \end{array} \right]^3_7$ | T: 14,29 | $\frac{759}{448}$ |
| $x^{14} + 2x^{13} + 2x^{12} + 2x^7 + 2x^6 + 2x^4 + 2$ | $x^{14} + 7x^{12} - 35x^{10} - 161x^8 + 399x^6 - 35x^4 - 133x^2 + 1$ | $\left[\begin{array}{ccc} \frac{8}{7} & \frac{8}{7} & \frac{12}{7} \\ & \frac{12}{7} & \frac{12}{7} \\ & & 2 \end{array} \right]^3_7$ | T: 14,29 | $\frac{815}{448}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{14} - 2x^{13} - 2x^{12} + 2x^{11} + 4x^{10} + 4x^9 + 2x^7 + 2x^6 + 2x^4 + 4x^2 + 4x - 2$ | $x^{14} - 35x^{12} - 42x^{11} + 385x^{10} + 882x^9 - 1225x^8 - 5008x^7 - 777x^6 + 8932x^5 + 2219x^4 - 10710x^3 - 21x^2 + 4970x - 1343$ | $\left[\begin{matrix} \frac{12}{7} & \frac{12}{7} & 2 \\ \frac{12}{7} & \frac{12}{7} & 2 \end{matrix} \right]_7^3$ | T: 14,9 | $\frac{101}{56}$ |
| $x^{14} + 4x^{11} - 2x^{10} + 2x^9 + 2x^8 - 2x^6 + 4x^5 - 2x^4 + 4x^3 - 2x^2 + 4x - 2$ | $x^{14} + 14x^{12} - 168x^{10} - 392x^8 + 392x^6 + 504x^4 - 504x^2 + 108$ | $\left[\begin{matrix} \frac{12}{7} & \frac{12}{7} & \frac{16}{7} \\ \frac{12}{7} & \frac{12}{7} & \frac{16}{7} \end{matrix} \right]_7^6$ | T: 14,21 | $\frac{493}{224}$ |
| $x^{14} + 2x^{12} + 2x^{11} + 2x^9 + 2x^2 + 2$ | $x^{14} - 21x^{12} - 49x^{10} + 1225x^8 - 1617x^6 - 4851x^4 + 9261x^2 - 3969$ | $\left[\begin{matrix} \frac{10}{7} & \frac{10}{7} & \frac{16}{7} \\ \frac{10}{7} & \frac{10}{7} & \frac{16}{7} \end{matrix} \right]_7^3$ | T: 14,21 | $\frac{243}{112}$ |
| $x^{14} - 2x^{11} - 2x^{10} - 2x^9 - 2x^8 + 4x^7 - 2x^4 + 4x^3 + 4x^2 + 2$ | $x^{14} - 7x^{12} + 21x^{10} - 70x^9 - 287x^8 + 1340x^7 + 77x^6 - 2632x^5 - 6811x^4 + 19936x^3 - 10535x^2 - 3290x + 1507$ | $\left[\begin{matrix} \frac{10}{7} & \frac{10}{7} & \frac{16}{7} \\ \frac{10}{7} & \frac{10}{7} & \frac{16}{7} \end{matrix} \right]_7^3$ | T: 14,21 | $\frac{243}{112}$ |
| Continued on next page | | | | |

Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{14} + 2x^{13} + 2x^{12} + 2x^{11} + 2x^9 + 2x^8 + 2x^6 + 2$ | $x^{14} - 28x^{12} + 210x^{10} - 140x^9 - 378x^8 + 1144x^7 - 980x^6 - 1764x^5 + 3808x^4 - 3304x^3 - 700x^2 + 4200x - 1500$ | $\left[\frac{12}{7} \frac{12}{7} \frac{16}{7} \frac{16}{7} \frac{16}{7} \right]_7^3$ | T: 14,29 | $\frac{997}{448}$ |
| $x^{14} + 2x^{12} + 4x^{11} - 2x^{10} + 2x^9 + 4x^8 + 4x^7 + 4x^6 + 4x^5 + 4x^4 + 4x + 2$ | $x^{14} - 112x^{10} + 364x^8 + 616x^6 - 224x^4 - 224x^2 - 16$ | $\left[\frac{16}{7} \frac{16}{7} \frac{16}{7} \right]_7^3$ | T: 14,6 | $\frac{59}{28}$ |
| $x^{14} + 4x^{13} + 2x^{12} + 4x^{10} - 2x^9 + 4x^5 - 2x^2 + 4x + 2$ | $x^{14} - 14x^{12} - 168x^{10} + 392x^8 + 392x^6 - 504x^4 - 504x^2 - 108$ | $\left[\frac{12}{7} \frac{12}{7} \frac{16}{7} \frac{16}{7} \right]_7^3$ | T: 14,29 | $\frac{997}{448}$ |
| $x^{14} - 2x^{13} + 4x^{12} + 2x^{11} - 2x^{10} + 2x^9 + 2x^8 - 2x^6 + 4x^5 + 4x^4 + 4x^3 + 2$ | $x^{14} - 56x^{12} - 42x^{11} + 728x^{10} + 798x^9 - 1218x^8 - 7780x^7 - 4578x^6 + 34300x^5 + 11186x^4 - 58436x^3 - 938x^2 + 32872x - 7106$ | $\left[\frac{12}{7} \frac{12}{7} \frac{16}{7} \frac{16}{7} \right]_7^3$ | T: 14,29 | $\frac{997}{448}$ |
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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{14} + 4x^{13} + 4x^{12} + 4x^{11} - 2x^{10} - 2x^9 + 4x^7 - 2x^4 + 2x^2 + 4x + 2$ | $x^{14} - 21x^{12} + 175x^{10} - 70x^9 - 959x^8 + 724x^7 + 4669x^6 - 644x^5 - 14413x^4 - 10976x^3 + 13671x^2 + 25186x + 11459$ | $\left[\frac{16}{7} \frac{16}{7} \frac{16}{7} \right]_7^3$ | T: 14,6 | $\frac{59}{28}$ |
| $x^{14} + 4x^{13} + 4x^{12} + 4x^{11} - 2x^{10} - 2x^9 + 2x^8 - 2x^6 + 2x^4 + 4x^3 + 4x^2 - 2$ | $x^{14} - 7x^{12} - 63x^{10} - 126x^9 + 203x^8 + 52x^7 + 749x^6 + 4816x^5 + 1379x^4 - 12068x^3 - 13223x^2 - 3374x + 99$ | $\left[2 \frac{16}{7} \frac{16}{7} \frac{16}{7} \right]_7^3$ | T: 14,9 | $\frac{61}{28}$ |
| $x^{14} - 2x^{13} + 4x^{12} + 2x^{11} + 2x^{10} - 2x^9 - 2x^8 - 2x^6 + 2x^4 - 2x^2 + 4x - 2$ | $x^{14} + 21x^{12} - 49x^{10} - 1225x^8 - 1617x^6 + 4851x^4 + 9261x^2 + 3969$ | $\left[\frac{10}{7} \frac{10}{7} \frac{10}{7} 2 \frac{16}{7} \frac{16}{7} \right]_7^3$ | T: 14,29 | $\frac{495}{224}$ |
| $x^{14} - 2x^{12} + 2x^{11} + 4x^{10} - 2x^9 + 2x^8 + 4x^7 + 4x^5 + 4x^4 + 4x - 2$ | $x^{14} - 112x^{10} - 364x^8 + 616x^6 + 224x^4 - 224x^2 + 16$ | $\left[2 \frac{16}{7} \frac{16}{7} \frac{16}{7} \right]_7^3$ | T: 14,9 | $\frac{61}{28}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{14} + 4x^{13} - 2x^{12} + 4x^{11} - 2x^{10} + 2x^9 - 2x^8 + 4x^7 + 4x^6 + 2x^4 + 4x^3 + 2x^2 + 4x - 2$ | $x^{14} - 14x^{12} - 42x^{11} - 112x^{10} + 798x^9 - 294x^8 + 1984x^7 - 19614x^6 + 24668x^5 + 2324x^4 + 173348x^3 - 487466x^2 + 524972x - 188822$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{16}{7} \frac{16}{7} \right]_7^6$ | T: 14,21 | $\frac{493}{224}$ |
| $x^{14} + 2x^{13} + 2x^{12} + 2x^{11} + 4x^{10} + 2x^9 + 2x^8 + 4x^7 + 4x^5 + 2x^4 + 4x^3 + 4x + 2$ | $x^{14} - 14x^{12} + 140x^8 - 140x^6 - 84x^4 + 84x^2 - 4$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{16}{7} \frac{16}{7} \right]_7^3$ | T: 14,21 | $\frac{493}{224}$ |
| $x^{14} + 4x^{12} + 2x^{11} + 4x^{10} - 2x^9 + 2x^8 - 2x^6 + 4x^5 - 2x^4 + 4x^3 - 2x^2 + 4x + 2$ | $x^{14} + 21x^{12} + 63x^{10} - 833x^8 - 2793x^6 + 8127x^4 + 6993x^2 + 729$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} 2 \frac{16}{7} \frac{16}{7} \right]_7^3$ | T: 14,29 | $\frac{997}{448}$ |
| $x^{14} - 2x^{13} + 2x^{11} + 4x^{10} + 2x^9 - 2x^8 + 4x^7 + 2x^6 + 4x^5 - 2x^4 - 2x^2 + 4x - 2$ | $x^{14} - 21x^{12} + 91x^{10} - 154x^9 + 147x^8 + 2020x^7 + 273x^6 - 4452x^5 - 2303x^4 - 28x^3 - 357x^2 + 42x - 1$ | $\left[\frac{10}{7} \frac{10}{7} \frac{10}{7} 2 \frac{16}{7} \frac{16}{7} \right]_7^3$ | T: 14,29 | $\frac{495}{224}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{14} - 2x^{11} + 2x^9 + 2x^8 + 4x^7 + 2x^4 + 4x^2 - 2$ | $x^{14} - 7x^{12} + 35x^{10} - 154x^9 - 553x^8 + 4x^7 + 1953x^6 + 2156x^5 - 1911x^4 - 4312x^3 + 1127x^2 + 3430x - 1519$ | $\left[\frac{10}{7} \frac{10}{7} \frac{10}{7} \frac{16}{7} \frac{16}{7} \frac{16}{7} \right]_7^6$ | T: 14,21 | $\frac{243}{112}$ |
| $x^{14} + 4x^{13} + 4x^{12} + 4x^{11} + 4x^{10} + 2x^9 + 2x^8 + 4x^7 - 2x^6 - 2x^4 + 4x^3 + 4x - 2$ | $x^{14} - 21x^{12} + 105x^{10} - 98x^9 - 259x^8 - 52x^7 - 791x^6 + 168x^5 + 1813x^4 - 28x^3 - 987x^2 + 14x + 141$ | $\left[\frac{10}{7} \frac{10}{7} \frac{10}{7} 2 \frac{16}{7} \frac{16}{7} \frac{16}{7} \right]_7^3$ | T: 14,29 | $\frac{495}{224}$ |
| $x^{14} + 2x^{13} + 2x^{12} + 2x^{10} - 2x^9 - 2x^8 + 4x^7 + 2x^6 + 2x^4 + 4x^3 + 2x^2 - 2$ | $x^{14} - 21x^{12} + 35x^{10} + 1085x^8 - 1953x^6 - 7875x^4 + 14553x^2 + 2187$ | $\left[\frac{10}{7} \frac{10}{7} \frac{10}{7} \frac{16}{7} \frac{16}{7} \frac{16}{7} \right]_7^6$ | T: 14,21 | $\frac{243}{112}$ |
| $x^{14} + 2x^{12} + 2x^9 + 2x^8 + 2x^6 + 2$ | $x^{14} - 21x^{12} + 63x^{10} + 833x^8 - 2793x^6 - 8127x^4 + 6993x^2 - 729$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{16}{7} \frac{16}{7} \frac{16}{7} \right]_7^3$ | T: 14,21 | $\frac{493}{224}$ |
| $x^{14} + 4x^{13} - 2x^{12} + 2x^{11} - 2x^{10} + 2x^9 - 2x^8 - 2x^6 + 4x^4 + 2x^2 + 2$ | $x^{14} - 7x^{12} - 63x^{10} + 217x^8 + 1491x^6 + 2331x^4 + 1323x^2 + 243$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{16}{7} \frac{16}{7} \frac{16}{7} \right]_7^6$ | T: 14,21 | $\frac{493}{224}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{14} + 2x^{13} - 2x^9 - 2x^8 + 4x^7 - 2x^6 + 4x^5 + 4x^3 + 2$ | $x^{14} - 35x^{12} + 371x^{10} - 210x^9 - 2037x^8 + 4736x^7 + 23919x^6 - 17696x^5 - 151669x^4 - 62468x^3 + 295057x^2 + 244510x + 48499$ | $\left[\frac{16}{7} \frac{16}{7} \frac{16}{7} \right]_7^6$ | T: 14,6 | $\frac{59}{28}$ |
| $x^{14} + 2x^{13} - 2x^{12} + 4x^{11} + 2x^{10} - 2x^9 - 2x^8 + 4x^6 + 4x^5 + 4x^4 + 4x^2 + 4x - 2$ | $x^{14} + 7x^{12} - 469x^{10} - 966x^9 - 3087x^8 - 12212x^7 + 25389x^6 + 136892x^5 + 20027x^4 - 356440x^3 - 284501x^2 + 117698x + 125071$ | $\left[\frac{16}{7} \frac{16}{7} \frac{16}{7} \right]_7^6$ | T: 14,6 | $\frac{59}{28}$ |
| $x^{14} + 4x^{13} + 2x^{12} + 4x^{11} + 4x^{10} - 2x^9 - 2x^8 + 4x^6 - 2x^4 + 2x^2 + 4x + 2$ | $x^{14} + 28x^{12} - 42x^{11} - 70x^{10} + 546x^9 + 42x^8 - 9608x^7 - 13104x^6 + 28448x^5 + 34412x^4 + 12488x^3 + 8722x^2 - 89152x - 89654$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{16}{7} \frac{16}{7} \right]_7^6$ | T: 14,21 | $\frac{493}{224}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|-------------------|
| $x^{14} + 2x^{11} + 2x^9 + 2x^8 + 2x^6 + 2$ | $x^{14} + 7x^{12} - 217x^{10} - 42x^9 - 1533x^8 - 3664x^7 - 11361x^6 - 59360x^5 - 28777x^4 - 25088x^3 - 211547x^2 - 103838x + 68437$ | $\left[2 \frac{16}{7} \frac{16}{7} \frac{16}{7} \right]_7^3$ | T: 14,9 | $\frac{61}{28}$ |
| $x^{14} + 2x^{13} + 4x^{12} + 2x^{11} - 2x^9 + 2x^8 + 4x^6 + 4x^4 + 4x^3 + 4x^2 - 2$ | $x^{14} + 14x^{12} - 140x^8 - 140x^6 + 84x^4 + 84x^2 + 4$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{10}{7} \frac{10}{7} \frac{16}{7} \frac{16}{7} \right]_7^3$ | T: 14,29 | $\frac{997}{448}$ |
| $x^{14} + 4x^{12} - 2x^{11} - 2x^{10} + 2x^9 - 2x^8 + 4x^5 + 4x^4 + 4x + 2$ | $x^{14} + 21x^{12} + 35x^{10} - 1085x^8 - 1953x^6 + 7875x^4 + 14553x^2 - 2187$ | $\left[\frac{10}{7} \frac{10}{7} \frac{10}{7} \frac{10}{7} \frac{16}{7} \frac{16}{7} \right]_7^3$ | T: 14,29 | $\frac{495}{224}$ |
| $x^{14} + 2x^{13} + 4x^{12} + 4x^{11} + 2x^{10} + 2x^9 + 4x^8 + 4x^6 + 4x^5 + 2x^4 + 2x^2 + 4x - 2$ | $x^{14} - 28x^{12} - 14x^{11} + 238x^{10} + 238x^9 - 714x^8 - 1256x^7 + 644x^6 + 2912x^5 + 448x^4 - 2744x^3 - 686x^2 + 784x + 210$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{16}{7} \frac{16}{7} \right]_7^3$ | T: 14,21 | $\frac{493}{224}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{14} + 2x^{13} + 2x^{12} + 4x^{11} +$ $2x^{10} - 2x^9 + 4x^8 + 4x^7 - 2x^6 +$ $4x^5 + 2x^4 - 2$ | $x^{14} - 35x^{12} + 245x^{10} - 798x^9 - 357x^8 +$ $19204x^7 + 41853x^6 - 50008x^5 -$ $285901x^4 - 326116x^3 + 228277x^2 +$ $891002x + 632575$ | $\left[2 \frac{16}{7} \frac{16}{7} \frac{16}{7} \right]_7^3$ | T: 14,9 | $\frac{61}{28}$ |
| $x^{14} + 4x^{13} + 2x^{10} + 2x^9 + 4x^8 +$ $4x^7 + 4x^6 + 4x^5 + 4x^3 - 2x^2 +$ $4x - 2$ | $x^{14} - 14x^{12} - 42x^{11} - 364x^{10} +$ $42x^9 + 7938x^8 + 17168x^7 - 24024x^6 -$ $134036x^5 - 186046x^4 - 94640x^3 +$ $2338x^2 + 12460x + 1594$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} 2 \frac{16}{7} \frac{16}{7} \frac{16}{7} \right]_7^3$ | T: 14,29 | $\frac{997}{448}$ |
| $x^{14} + 2x^{13} + 2x^{11} + 2x^{10} +$ $2x^9 - 2x^8 + 4x^7 + 2x^6 + 4x^4 +$ $4x^3 + 4x - 2$ | $x^{14} + 7x^{12} - 63x^{10} - 217x^8 + 1491x^6 -$ $2331x^4 + 1323x^2 - 243$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} 2 \frac{16}{7} \frac{16}{7} \frac{16}{7} \right]_7^3$ | T: 14,29 | $\frac{997}{448}$ |
| $x^{14} + 2x^{10} + 2x^9 + 2x^8 + 4x^7 -$ $2x^4 - 2x^2 + 4x - 2$ | $x^{14} + 28x^{10} - 28x^9 - 518x^8 + 648x^7 +$ $1568x^6 - 6804x^5 - 532x^4 + 22848x^3 -$ $6076x^2 - 23520x + 11364$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{16}{7} \frac{16}{7} \frac{16}{7} \right]_7^3$ | T: 14,21 | $\frac{493}{224}$ |
| Continued on next page | | | | |

Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|--------------------|
| $x^{14} + 2x^{13} + 2x^{12} + 2x^9 + 2x^8 + 2x^6 + 2x^2 + 2$ | $x^{14} - 14x^{11} - 28x^{10} + 210x^9 + 210x^8 - 1460x^7 - 1022x^6 + 3892x^5 + 1862x^4 - 2156x^3 - 994x^2 - 2408x - 818$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \right]_7^3$ | T: 14,29 | $\frac{997}{448}$ |
| $x^{14} - 2x^{13} + 2x^{12} + 2x^{11} + 4x^9 - 2x^8 + 4x^7 + 2x^6 + 4x^5 - 2x^4 + 4x^3 - 2x^2 + 4x + 2$ | $x^{14} - 336x^{10} + 952x^8 + 6048x^6 - 8064x^4 - 24192x^2 - 5184$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \right]_7^3$ | T: 14,21 | $\frac{549}{224}$ |
| $x^{14} - 2x^{13} - 2x^{12} - 2x^{11} + 4x^9 + 4x^7 + 4x^6 - 2x^4 + 4x + 2$ | $x^{14} + 21x^{12} - 189x^{10} - 3213x^8 + 9639x^6 + 107163x^4 + 56133x^2 - 2187$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \right]_7^3$ | T: 14,29 | $\frac{1109}{448}$ |
| $x^{14} + 2x^{13} + 4x^{12} - 2x^{11} + 4x^{10} - 2x^8 + 2x^6 + 4x^5 - 2x^2 + 2$ | $x^{14} - 42x^{12} + 630x^{10} - 3780x^8 + 4536x^6 + 27216x^4 - 40824x^2 - 78732$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \right]_7^3$ | T: 14,29 | $\frac{1109}{448}$ |
| $x^{14} - 2x^{13} - 2x^{11} + 4x^8 + 4x^7 + 2x^4 - 2x^2 + 4x - 2$ | $x^{14} - 7x^{12} - 21x^{10} + 119x^8 + 119x^6 - 441x^4 + 77x^2 + 1$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \right]_7^3$ | T: 14,29 | $\frac{1109}{448}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{14} + 4x^{13} + 2x^{12} + 2x^{11} - 2x^{10} + 4x^9 + 4x^8 + 4x^7 + 2x^6 + 4x^5 - 2x^4 + 2x^2 + 4x - 2$ | $x^{14} + 7x^{12} - 161x^{10} - 1435x^8 - 1197x^6 + 9261x^4 + 3213x^2 - 81$ | $\left[\frac{12}{7} \quad \frac{12}{7} \quad \frac{12}{7} \quad \frac{18}{7} \quad \frac{18}{7} \right]_7^3$ | T: 14,21 | $\frac{549}{224}$ |
| $x^{14} - 2x^{13} - 2x^{12} - 2x^{11} + 2x^{10} + 2x^8 - 2$ | $x^{14} + 7x^{12} - 21x^{10} - 147x^8 + 91x^6 + 693x^4 + 385x^2 - 9$ | $\left[\frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \right]_7^3$ | T: 14,6 | $\frac{33}{14}$ |
| $x^{14} + 4x^{13} + 2x^{12} + 2x^{11} - 2x^{10} - 2x^8 + 2x^6 + 4x^5 + 2x^4 + 4x^3 + 4x + 2$ | $x^{14} - 42x^{10} + 56x^8 + 196x^6 - 28x^2 - 4$ | $\left[\frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \right]_7^3$ | T: 14,6 | $\frac{33}{14}$ |
| $x^{14} + 2x^{12} - 2x^{11} + 4x^9 + 2x^6 + 4x^2 + 2$ | $x^{14} - 21x^{12} - 14x^{11} + 161x^{10} + 266x^9 - 1029x^8 - 1172x^7 + 5033x^6 - 644x^5 - 10675x^4 + 9114x^3 + 3773x^2 - 4998x + 567$ | $\left[\frac{12}{7} \quad \frac{12}{7} \quad \frac{12}{7} \quad \frac{18}{7} \quad \frac{18}{7} \right]_7^6$ | T: 14,21 | $\frac{549}{224}$ |
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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|--------------------|
| $x^{14} + 2x^{13} + 4x^{12} + 2x^{11} + 2x^{10} + 4x^9 + 2x^6 + 2x^4 + 4x^3 + 4x^2 - 2$ | $x^{14} + 7x^{12} - 161x^{10} - 63x^8 + 959x^6 + 49x^4 - 511x^2 - 81$ | $\left[\frac{12}{7} \quad \frac{12}{7} \quad \frac{12}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \right]_7^3$ | T: 14,21 | $\frac{549}{224}$ |
| $x^{14} + 2x^{12} + 2x^{11} + 4x^{10} + 4x^9 - 2x^8 - 2x^6 + 4x^5 - 2x^2 + 4x - 2$ | $x^{14} + 63x^{12} + 1575x^{10} + 19845x^8 + 132111x^6 + 443961x^4 + 648081x^2 + 264627$ | $\left[\frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \right]_7^6$ | T: 14,6 | $\frac{33}{14}$ |
| $x^{14} + 4x^{13} - 2x^{12} - 2x^{11} - 2x^{10} - 2x^8 + 2x^6 + 4x^4 + 4x^3 - 2x^2 + 4x - 2$ | $x^{14} - 21x^{12} - 63x^{10} + 1001x^8 + 3871x^6 + 2709x^4 + 567x^2 + 27$ | $\left[\frac{12}{7} \quad \frac{12}{7} \quad \frac{12}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \right]_7^6$ | T: 14,21 | $\frac{549}{224}$ |
| $x^{14} + 2x^{13} + 2x^{12} + 2x^{11} + 2x^{10} + 4x^9 + 2x^8 + 2x^6 + 4x^5 + 4x^4 + 4x^3 - 2x^2 - 2$ | $x^{14} - 7x^{12} - 14x^{11} + 63x^{10} + 70x^9 - 287x^8 - 396x^7 + 567x^6 + 2128x^5 - 3633x^4 + 1274x^3 - 847x^2 - 10626x + 1665$ | $\left[\frac{12}{7} \quad \frac{12}{7} \quad \frac{12}{7} \quad 2 \quad \frac{18}{7} \quad \frac{18}{7} \right]_7^3$ | T: 14,29 | $\frac{1109}{448}$ |
| Continued on next page | | | | |

Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|--------------------|
| $x^{14} + 2x^{12} + 2x^{11} + 4x^8 + 4x^7 + 2x^4 + 4x^3 + 2x^2 + 4x - 2$ | $x^{14} + 21x^{12} + 91x^{10} - 7x^8 - 553x^6 - 525x^4 + 189x^2 + 27$ | $\left[\begin{array}{c} \frac{12}{7} \\ \frac{12}{7} \\ \frac{12}{7} \\ \frac{18}{7} \\ \frac{18}{7} \end{array} \right]_7^6$ | T: 14,21 | $\frac{549}{224}$ |
| $x^{14} - 2x^{13} + 2x^{12} + 2x^{11} + 4x^{10} + 4x^9 + 2x^4 + 4x^3 - 2$ | $x^{14} - 21x^{12} - 189x^{10} + 3213x^8 + 9639x^6 - 107163x^4 + 56133x^2 + 2187$ | $\left[\begin{array}{c} \frac{12}{7} \\ \frac{12}{7} \\ \frac{12}{7} \\ \frac{18}{7} \\ \frac{18}{7} \end{array} \right]_7^6$ | T: 14,21 | $\frac{549}{224}$ |
| $x^{14} - 2x^{13} + 2x^{12} + 2x^{11} - 2x^{10} + 4x^9 + 2x^8 + 2x^6 - 2x^4 + 2$ | $x^{14} - 63x^{12} + 1575x^{10} - 19845x^8 + 132111x^6 - 443961x^4 + 648081x^2 - 264627$ | $\left[\begin{array}{c} 2 \\ \frac{18}{7} \\ \frac{18}{7} \end{array} \right]_7^3$ | T: 14,9 | $\frac{17}{7}$ |
| $x^{14} + 2x^{13} + 4x^{12} - 2x^{11} - 2x^{10} + 4x^9 - 2x^8 + 4x^7 + 2x^6 + 4x^4 + 2x^2 - 2$ | $x^{14} - 21x^{12} - 49x^{10} + 1043x^8 + 4515x^6 + 5481x^4 + 189x^2 - 2187$ | $\left[\begin{array}{c} \frac{12}{7} \\ \frac{12}{7} \\ \frac{12}{7} \\ 2 \\ \frac{18}{7} \\ \frac{18}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1109}{448}$ |
| $x^{14} + 2x^{12} - 2x^{11} + 4x^{10} + 2x^8 + 4x^6 + 4x^5 + 2x^2 + 2$ | $x^{14} + 21x^{12} - 63x^{10} - 1001x^8 + 3871x^6 - 2709x^4 + 567x^2 - 27$ | $\left[\begin{array}{c} \frac{12}{7} \\ \frac{12}{7} \\ \frac{12}{7} \\ 2 \\ \frac{18}{7} \\ \frac{18}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1109}{448}$ |
| $x^{14} - 2x^{13} - 2x^{12} - 2x^{11} + 2x^{10} - 2x^6 - 2x^2 - 2$ | $x^{14} + 42x^{12} + 630x^{10} + 3780x^8 + 4536x^6 - 27216x^4 - 40824x^2 + 78732$ | $\left[\begin{array}{c} \frac{12}{7} \\ \frac{12}{7} \\ \frac{12}{7} \\ \frac{18}{7} \\ \frac{18}{7} \end{array} \right]_7^6$ | T: 14,21 | $\frac{549}{224}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|--------------------|
| $x^{14} + 2x^{13} + 4x^{12} + 2x^{11} + 4x^{10} + 4x^9 + 4x^8 + 2x^6 + 4x^5 + 2x^4 - 2x^2 - 2$ | $x^{14} - 28x^{12} - 14x^{11} + 266x^{10} + 168x^9 - 1120x^8 - 396x^7 + 3150x^6 + 1876x^5 - 1120x^4 + 616x^3 + 98x^2 - 56x + 2$ | $\left[\frac{10}{7} \quad \frac{10}{7} \quad \frac{10}{7} \quad \frac{18}{7} \quad \frac{18}{7} \right]_7^6$ | T: 14,21 | $\frac{271}{112}$ |
| $x^{14} + 4x^{13} - 2x^{12} - 2x^{11} - 2x^{10} + 4x^9 + 4x^7 + 2x^6 + 2x^4 + 4x^3 - 2x^2 + 4x - 2$ | $x^{14} - 35x^{12} - 42x^{11} + 371x^{10} + 1218x^9 - 1617x^8 - 10356x^7 + 5775x^6 + 33012x^5 + 707x^4 - 34146x^3 - 42035x^2 + 8022x + 5883$ | $\left[\frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \right]_7^6$ | T: 14,6 | $\frac{33}{14}$ |
| $x^{14} - 2x^{13} + 4x^{12} + 2x^{11} + 4x^{10} + 4x^9 + 2x^8 + 4x^7 + 2x^4 + 4x^3 + 4x^2 - 2$ | $x^{14} - 336x^{10} - 952x^8 + 6048x^6 + 8064x^4 - 24192x^2 + 5184$ | $\left[\frac{12}{7} \quad \frac{12}{7} \quad \frac{12}{7} \quad 2 \quad \frac{18}{7} \quad \frac{18}{7} \right]_7^3$ | T: 14,29 | $\frac{1109}{448}$ |
| $x^{14} - 2x^{12} - 2x^{11} + 2x^{10} + 4x^9 + 2x^8 + 4x^7 + 4x^6 + 4x^5 - 2x^4 + 4x^3 + 2$ | $x^{14} + 21x^{12} + 35x^{10} - 665x^8 + 147x^6 + 2583x^4 - 2079x^2 - 243$ | $\left[\frac{10}{7} \quad \frac{10}{7} \quad \frac{10}{7} \quad 2 \quad \frac{18}{7} \quad \frac{18}{7} \right]_7^3$ | T: 14,29 | $\frac{551}{224}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{14} + 2x^{12} - 2x^{11} - 2x^{10} + 2x^8 + 4x^4 + 4x^2 - 2$ | $x^{14} - 14x^{11} + 56x^9 - 98x^8 + 200x^7 - 2338x^6 + 5432x^5 - 4200x^4 - 3192x^3 + 5698x^2 + 1904x - 470$ | $\left[\frac{10}{7} \frac{10}{7} \frac{10}{7} \frac{12}{7} \frac{12}{7} 2 \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,29 | $\frac{551}{224}$ |
| $x^{14} - 2x^{13} - 2x^{11} + 2x^{10} + 4x^9 + 4x^8 - 2x^4 - 2x^2 + 2$ | $x^{14} - 14x^{12} - 210x^{10} + 2660x^8 - 1596x^6 - 34776x^4 + 24948x^2 - 324$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,21 | $\frac{549}{224}$ |
| $x^{14} + 2x^{13} - 2x^{11} + 4x^9 + 2x^8 + 4x^7 - 2x^6 + 4x^4 + 2$ | $x^{14} - 14x^{12} - 70x^{11} - 154x^{10} + 364x^9 + 2632x^8 + 3532x^7 - 4970x^6 - 18956x^5 - 19894x^4 - 8708x^3 - 1582x^2 + 84x + 66$ | $\left[\frac{10}{7} \frac{10}{7} \frac{10}{7} \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,21 | $\frac{271}{112}$ |
| $x^{14} + 4x^{12} + 2x^{11} + 4x^9 - 2x^8 + 2x^6 - 2x^4 + 4x^2 + 4x + 2$ | $x^{14} - 21x^{12} + 77x^{10} + 1001x^8 - 8505x^6 + 17829x^4 + 2079x^2 - 18225$ | $\left[\frac{10}{7} \frac{10}{7} \frac{10}{7} \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,21 | $\frac{271}{112}$ |
| $x^{14} - 2x^{13} + 4x^{12} + 2x^{11} + 4x^9 + 4x^7 + 4x^5 - 2x^4 + 4x^2 + 4x - 2$ | $x^{14} - 14x^{12} - 154x^{10} + 1428x^8 - 2072x^6 - 2268x^4 + 5796x^2 - 2700$ | $\left[\frac{10}{7} \frac{10}{7} \frac{10}{7} 2 \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,29 | $\frac{551}{224}$ |

Continued on next page

Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|--------------------|
| $x^{14} + 2x^{13} + 2x^{12} + 2x^{11} +$ $2x^{10} + 2x^8 + 4x^7 - 2x^6 + 4x^5 +$ $4x^4 + 2x^2 + 4x - 2$ | $x^{14} - 14x^{12} + 28x^{10} + 196x^8 - 224x^6 -$ $560x^4 + 224x^2 - 16$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,21 | $\frac{549}{224}$ |
| $x^{14} + 2x^{11} + 2x^{10} + 2$ | $x^{14} - 14x^{12} - 42x^{11} - 238x^{10} +$ $84x^9 - 6552x^8 - 4428x^7 + 134862x^6 -$ $6636x^5 - 793156x^4 + 307944x^3 +$ $1961554x^2 - 439320x - 1057278$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{18}{7} \frac{18}{7} \right]_7^6$ | T: 14,21 | $\frac{549}{224}$ |
| $x^{14} + 4x^{13} + 4x^{12} - 2x^{11} +$ $2x^8 + 4x^7 - 2x^6 + 4x^5 + 2x^4 +$ $4x^3 - 2x^2 + 4x + 2$ | $x^{14} - 7x^{12} - 161x^{10} + 1435x^8 -$ $1197x^6 - 9261x^4 + 3213x^2 + 81$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} 2 \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,29 | $\frac{1109}{448}$ |
| $x^{14} + 2x^{13} + 4x^{12} - 2x^{11} -$ $2x^{10} + 4x^9 - 2x^6 + 4x^5 - 2x^4 +$ $2x^2 + 4x + 2$ | $x^{14} + 28x^{12} + 154x^{10} - 532x^8 - 420x^6 +$ $2016x^4 - 1512x^2 + 324$ | $\left[\frac{10}{7} \frac{10}{7} \frac{10}{7} 2 \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,29 | $\frac{551}{224}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|--------------------|
| $x^{14} - 2x^{13} + 2x^{12} + 2x^{11} +$ $2x^{10} - 2x^8 + 4x^6 + 4x^5 + 4x^4 +$ $4x^2 + 4x - 2$ | $x^{14} - 14x^{12} - 70x^{11} + 56x^{10} + 812x^9 +$ $686x^8 - 2384x^7 - 6930x^6 + 1512x^5 +$ $9646x^4 + 8876x^3 - 16870x^2 + 4788x +$ 222 | $\left[\frac{10}{7} \frac{10}{7} \frac{10}{7} \right]_7$ | T: 14,29 | $\frac{551}{224}$ |
| $x^{14} + 2x^{13} - 2x^{12} - 2x^{11} -$ $2x^{10} - 2x^8 + 4x^7 - 2x^6 + 2x^4 +$ $4x^3 + 4x^2 + 4x - 2$ | $x^{14} - 35x^{12} - 126x^{11} - 133x^{10} +$ $1974x^9 + 9219x^8 + 3300x^7 - 28875x^6 -$ $16548x^5 + 31703x^4 - 6006x^3 + 511x^2 +$ $3318x + 255$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \right]_7^6$ | T: 14,6 | $\frac{33}{14}$ |
| $x^{14} - 2x^{12} + 2x^{11} + 4x^9 + 2x^8 +$ $4x^7 - 2x^6 + 4x^5 + 2x^2 + 4x + 2$ | $x^{14} - 21x^{12} + 175x^{10} - 735x^8 +$ $1631x^6 - 1827x^4 + 889x^2 - 121$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,6 | $\frac{33}{14}$ |
| $x^{14} + 2x^{13} + 4x^{12} + 2x^{11} +$ $2x^{10} + 4x^9 - 2x^8 + 4x^7 + 4x^6 -$ $2x^4 + 4x^3 - 2x^2 - 2$ | $x^{14} - 7x^{12} - 161x^{10} + 63x^8 + 959x^6 -$ $49x^4 - 511x^2 + 81$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \right]_7^3$ | T: 14,29 | $\frac{1109}{448}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{14} + 4x^{12} - 2x^{11} + 2x^{10} + 4x^7 - 2x^6 + 4x^4 + 4x^3 - 2x^2 + 4x - 2$ | $x^{14} + 7x^{12} - 49x^{10} - 245x^8 + 931x^6 + 1813x^4 - 5831x^2 + 441$ | $\left[2 \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,9 | $\frac{17}{7}$ |
| $x^{14} + 2x^{13} + 2x^{12} - 2x^{11} + 2x^{10} + 4x^9 + 4x^8 + 4x^7 - 2x^6 + 4x^5 + 4x^3 + 4x - 2$ | $x^{14} - 14x^{12} + 70x^{10} - 140x^8 + 56x^6 + 112x^4 - 56x^2 - 36$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,21 | $\frac{549}{224}$ |
| $x^{14} + 2x^{13} + 2x^{12} + 2x^{11} + 2x^6 + 2x^4 + 4x^3 + 2x^2 + 2$ | $x^{14} - 14x^{12} - 210x^{10} + 3248x^8 - 8064x^6 - 6552x^4 + 3780x^2 - 324$ | $\left[\frac{10}{7} \frac{10}{7} \frac{10}{7} \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,21 | $\frac{271}{112}$ |
| $x^{14} - 2x^{12} - 2x^{11} + 2x^{10} + 4x^9 + 4x^7 + 2x^4 + 4x^2 + 4x + 2$ | $x^{14} - 42x^{10} - 56x^8 + 196x^6 - 28x^2 + 4$ | $\left[2 \frac{18}{7} \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,9 | $\frac{17}{7}$ |
| $x^{14} + 4x^{13} - 2x^{12} - 2x^{11} + 2x^8 + 4x^7 + 4x^4 + 4x^2 + 4x - 2$ | $x^{14} - 28x^{12} + 154x^{10} + 532x^8 - 420x^6 - 2016x^4 - 1512x^2 - 324$ | $\left[\frac{10}{7} \frac{10}{7} \frac{10}{7} \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,21 | $\frac{271}{112}$ |
| $x^{14} + 4x^{13} + 4x^{12} + 2x^{11} - 2x^8 - 2x^6 + 2x^4 + 2x^2 - 2$ | $x^{14} + 7x^{12} - 77x^{10} - 847x^8 - 1701x^6 + 5733x^4 + 23625x^2 + 19683$ | $\left[\frac{10}{7} \frac{10}{7} \frac{10}{7} \frac{18}{7} \frac{18}{7} \right]_7^6$ | T: 14,21 | $\frac{271}{112}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|--------------------|
| $x^{14} + 2x^{13} + 4x^{12} + 2x^{11} +$ $4x^{10} + 4x^9 - 2x^8 + 4x^7 + 4x^6 +$ $4x^4 + 4x^3 - 2x^2 + 4x + 2$ | $x^{14} - 21x^{12} + 35x^{10} + 665x^8 + 147x^6 -$ $2583x^4 - 2079x^2 + 243$ | $\left[\frac{10}{7} \quad \frac{10}{7} \quad \frac{12}{7} \quad 2 \quad \frac{18}{7} \quad \frac{18}{7} \right]_7^6$ | T: 14,21 | $\frac{271}{112}$ |
| $x^{14} + 2x^{13} + 4x^{12} - 2x^{11} +$ $2x^{10} + 4x^9 + 2x^8 + 4x^7 + 2x^6 +$ $4x^5 - 2x^2 + 2$ | $x^{14} - 42x^{12} + 252x^{10} + 5292x^8 -$ $18144x^6 - 136080x^4 + 163296x^2 -$ 34992 | $\left[\frac{12}{7} \quad \frac{12}{7} \quad \frac{12}{7} \quad 2 \quad \frac{18}{7} \quad \frac{18}{7} \right]_7^3$ | T: 14,29 | $\frac{1109}{448}$ |
| $x^{14} + 2x^{11} - 2x^{10} + 4x^9 - 2x^8 +$ $4x^7 - 2x^6 + 4x^5 + 2x^4 + 2x^2 +$ $4x + 2$ | $x^{14} - 7x^{12} - 77x^{10} + 847x^8 - 1701x^6 -$ $5733x^4 + 23625x^2 - 19683$ | $\left[\frac{10}{7} \quad \frac{10}{7} \quad \frac{10}{7} \quad 2 \quad \frac{18}{7} \quad \frac{18}{7} \right]_7^3$ | T: 14,29 | $\frac{551}{224}$ |
| $x^{14} + 4x^{13} + 2x^{12} - 2x^{11} -$ $2x^{10} + 4x^9 - 2x^8 + 4x^7 + 2x^6 +$ $2x^4 + 2x^2 + 4x - 2$ | $x^{14} + 14x^{12} + 70x^{10} + 140x^8 + 56x^6 -$ $112x^4 - 56x^2 + 36$ | $\left[\frac{12}{7} \quad \frac{12}{7} \quad \frac{12}{7} \quad 2 \quad \frac{18}{7} \quad \frac{18}{7} \right]_7^3$ | T: 14,29 | $\frac{1109}{448}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{14} + 4x^{12} - 2x^{11} + 4x^{10} + 4x^9 + 2x^6 + 4x^5 + 4x^4 + 4x - 2$ | $x^{14} + 7x^{12} - 126x^{11} - 217x^{10} + 210x^9 + 567x^8 - 2628x^7 - 4179x^6 + 69552x^5 + 38213x^4 - 57246x^3 - 108017x^2 - 33306x + 12759$ | $\left[2 \frac{18}{7} \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,9 | $\frac{17}{7}$ |
| $x^{14} - 2x^{11} + 2x^{10} + 4x^7 + 2x^6 + 4x^5 - 2x^4 - 2x^2 - 2$ | $x^{14} + 7x^{12} - 42x^{11} - 217x^{10} - 546x^9 - 1449x^8 + 3132x^7 + 2247x^6 - 24864x^5 - 32095x^4 + 29694x^3 + 76153x^2 + 42630x + 5871$ | $\left[2 \frac{18}{7} \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,9 | $\frac{17}{7}$ |
| $x^{14} - 2x^{13} - 2x^{12} - 2x^{11} + 4x^{10} + 4x^7 + 4x^6 + 4x^4 + 4x^3 + 2x^2 + 4x + 2$ | $x^{14} - 7x^{12} - 21x^{10} + 147x^8 + 91x^6 - 693x^4 + 385x^2 + 9$ | $\left[2 \frac{18}{7} \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,9 | $\frac{17}{7}$ |
| $x^{14} + 4x^{13} + 2x^{12} + 2x^{11} + 4x^{10} + 4x^8 - 2x^6 + 4x^5 + 2x^4 + 4x^3 + 2$ | $x^{14} + 21x^{12} - 49x^{10} - 1043x^8 + 4515x^6 - 5481x^4 + 189x^2 + 2187$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \right]_7^6$ | T: 14,21 | $\frac{549}{224}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{14} + 2x^{13} + 2x^{11} + 2x^{10} + 2x^8 + 4x^7 + 4x^3 + 4x^2 + 4x + 2$ | $x^{14} + 21x^{12} + 77x^{10} - 1001x^8 - 8505x^6 - 17829x^4 + 2079x^2 + 18225$ | $\left[\frac{10}{7} \frac{10}{7} 2 \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,29 | $\frac{551}{224}$ |
| $x^{14} + 4x^{13} + 2x^{12} + 2x^{11} - 2x^{10} + 4x^9 + 4x^8 + 4x^7 + 4x^5 + 2x^4 + 2x^2 - 2$ | $x^{14} + 7x^{12} - 42x^{11} - 217x^{10} - 546x^9 - 1449x^8 - 276x^7 + 16023x^6 + 95760x^5 + 174209x^4 + 219870x^3 + 179473x^2 + 70014x + 9195$ | $\left[2 \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,9 | $\frac{17}{7}$ |
| $x^{14} + 4x^{12} + 2x^{11} + 4x^{10} + 2x^6 + 4x^5 + 4x^4 + 2$ | $x^{14} + 14x^{12} - 154x^{10} - 1428x^8 - 2072x^6 + 2268x^4 + 5796x^2 + 2700$ | $\left[\frac{10}{7} \frac{10}{7} \frac{10}{7} \frac{18}{7} \frac{18}{7} \right]_7^6$ | T: 14,21 | $\frac{271}{112}$ |
| $x^{14} + 4x^{13} + 2x^{12} - 2x^{11} + 2x^{10} + 2x^8 + 4x^5 + 4x^4 + 4x^2 + 4x - 2$ | $x^{14} - 7x^{12} - 49x^{10} + 245x^8 + 931x^6 - 1813x^4 - 5831x^2 - 441$ | $\left[\frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,6 | $\frac{33}{14}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|--------------------|
| $x^{14} + 2x^{13} + 2x^{11} + 2x^{10} +$ $2x^8 + 2x^6 + 2x^4 + 2x^2 + 2$ | $x^{14} - 7x^{12} - 14x^{11} - 35x^{10} - 98x^9 -$ $553x^8 - 1068x^7 - 2023x^6 - 6048x^5 -$ $6013x^4 - 7070x^3 - 14315x^2 - 4494x +$ 99 | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \ 2 \ \frac{18}{7} \ \frac{18}{7} \right]_7^3$ | T: 14,29 | $\frac{1109}{448}$ |
| $x^{14} - 2x^{12} + 2x^{11} - 2x^{10} +$ $4x^9 - 2x^8 + 4x^7 - 2x^6 + 4x^3 -$ $2x^2 - 2$ | $x^{14} + 21x^{12} + 175x^{10} + 735x^8 +$ $1631x^6 + 1827x^4 + 889x^2 + 121$ | $\left[2 \ \frac{18}{7} \ \frac{18}{7} \right]_7^3$ | T: 14,9 | $\frac{17}{7}$ |
| $x^{14} + 2x^{13} + 2x^{11} + 2x^{10} +$ $2x^2 + 2$ | $x^{14} - 21x^{12} - 14x^{11} + 91x^{10} + 154x^9 +$ $189x^8 - 220x^7 + 175x^6 + 2156x^5 +$ $581x^4 - 2086x^3 - 1043x^2 - 42x + 9$ | $\left[\frac{12}{7} \ \frac{12}{7} \ \frac{12}{7} \ \frac{18}{7} \ \frac{18}{7} \right]_7^3$ | T: 14,21 | $\frac{549}{224}$ |
| $x^{14} + 2x^{12} + 2x^{11} - 2x^{10} +$ $4x^9 - 2x^8 + 4x^5 + 2x^4 + 4x^3 -$ $2x^2 + 4x - 2$ | $x^{14} - 21x^{12} + 91x^{10} + 7x^8 - 553x^6 +$ $525x^4 + 189x^2 - 27$ | $\left[\frac{12}{7} \ \frac{12}{7} \ \frac{12}{7} \ 2 \ \frac{18}{7} \ \frac{18}{7} \right]_7^3$ | T: 14,29 | $\frac{1109}{448}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{14} + 2x^{12} + 2x^{11} - 2x^{10} + 4x^7 + 2x^6 + 4x^5 + 2x^4 - 2x^2 + 4x - 2$ | $x^{14} + 42x^{12} + 252x^{10} - 5292x^8 - 18144x^6 + 136080x^4 + 163296x^2 + 34992$ | $\left[\begin{array}{c} \frac{12}{7} \\ \frac{12}{7} \\ \frac{10}{7} \\ 2 \\ \frac{18}{7} \\ \frac{18}{7} \end{array} \right]_7^6$ | T: 14,21 | $\frac{549}{224}$ |
| $x^{14} + 4x^{12} + 2x^{11} + 2x^{10} - 2x^8 + 4x^7 + 4x^4 + 4x^3 + 4x^2 - 2$ | $x^{14} + 14x^{12} - 210x^{10} - 3248x^8 - 8064x^6 + 6552x^4 + 3780x^2 + 324$ | $\left[\begin{array}{c} \frac{10}{7} \\ \frac{10}{7} \\ 2 \\ \frac{18}{7} \\ \frac{18}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{551}{224}$ |
| $x^{14} + 2x^{12} + 2x^{11} + 4x^{10} - 2x^8 - 2x^6 + 4x^5 + 4x^4 + 4x^2 + 2$ | $x^{14} - 14x^{12} - 42x^{11} - 868x^{10} + 588x^9 + 2226x^8 - 12120x^7 + 36078x^6 - 16296x^5 - 29260x^4 + 346920x^3 - 667814x^2 + 35616x + 786666$ | $\left[\begin{array}{c} \frac{12}{7} \\ \frac{12}{7} \\ 2 \\ \frac{18}{7} \\ \frac{18}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1109}{448}$ |
| $x^{14} - 2x^{13} + 2x^{12} - 2x^{11} - 2x^{10} + 4x^8 + 4x^7 + 2x^6 + 4x^5 + 2x^4 + 2x^2 - 2$ | $x^{14} + 7x^{12} - 21x^{10} - 119x^8 + 119x^6 + 441x^4 + 77x^2 - 1$ | $\left[\begin{array}{c} \frac{12}{7} \\ \frac{12}{7} \\ 2 \\ \frac{18}{7} \\ \frac{18}{7} \end{array} \right]_7^3$ | T: 14,21 | $\frac{549}{224}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|--------------------|
| $x^{14} - 2x^{12} - 2x^{11} - 2x^{10} +$ $2x^8 + 4x^7 - 2x^6 - 2x^4 + 4x^3 +$ $4x^2 + 4x + 2$ | $x^{14} - 35x^{12} - 42x^{11} + 371x^{10} +$ $1218x^9 - 1617x^8 - 9972x^7 + 3087x^6 +$ $38388x^5 + 42371x^4 - 198114x^3 -$ $11795x^2 + 180222x + 16167$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \right]_7^6$ | T: 14,6 | $\frac{33}{14}$ |
| $x^{14} + 2x^{13} - 2x^{12} - 2x^{11} +$ $4x^{10} - 2x^8 + 4x^7 + 4x^5 - 2x^4 -$ 2 | $x^{14} + 14x^{12} - 210x^{10} - 2660x^8 -$ $1596x^6 + 34776x^4 + 24948x^2 + 324$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} 2 \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,29 | $\frac{1109}{448}$ |
| $x^{14} + 2x^{13} + 2x^{11} + 4x^{10} +$ $4x^9 + 2x^8 + 4x^7 + 2x^6 + 4x^3 +$ $4x - 2$ | $x^{14} + 14x^{12} + 28x^{10} - 196x^8 - 224x^6 +$ $560x^4 + 224x^2 + 16$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} 2 \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,29 | $\frac{1109}{448}$ |
| $x^{14} - 2x^{13} + 2x^{10} + 4x^7 - 2x^6 -$ $2x^4 + 4x^3 + 4x - 2$ | $x^{14} - 14x^{12} + 434x^8 - 336x^6 - 84x^4 +$ $84x^2 - 4$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,21 | $\frac{313}{112}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{14} - 2x^{13} + 4x^{12} + 4x^{11} + 4x^9 - 2x^8 + 4x^5 - 2x^4 + 4x^3 + 4x^2 + 4x + 2$ | $x^{14} + 7x^{12} - 49x^{10} + 21x^8 + 133x^6 - 63x^4 - 63x^2 + 27$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^6$ | T: 14,21 | $\frac{313}{112}$ |
| $x^{14} + 2x^{13} + 4x^{12} + 4x^{11} + 2x^{10} + 2x^8 + 4x^7 - 2x^4 + 2x^2 + 2$ | $x^{14} - 42x^{12} + 378x^{10} + 1890x^8 - 15876x^6 - 40824x^4 + 122472x^2 + 218700$ | $\left[\frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^6$ | T: 14,6 | $\frac{73}{28}$ |
| $x^{14} + 2x^{13} + 4x^{11} + 2x^{10} - 2x^8 + 2x^6 + 4x^5 + 4x^4 - 2$ | $x^{14} + 14x^{12} - 196x^{10} - 714x^8 + 3500x^6 + 6216x^4 - 12852x^2 + 2700$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^6$ | T: 14,21 | $\frac{313}{112}$ |
| $x^{14} + 2x^{13} + 4x^{12} + 4x^8 + 4x - 2$ | $x^{14} - 756x^{10} + 4536x^8 + 117936x^6 - 966168x^4 - 489888x^2 - 34992$ | $\left[2 \frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{621}{224}$ |
| $x^{14} + 2x^{13} + 2x^{12} + 4x^{11} + 2x^{10} + 4x^9 + 2x^8 + 4x^7 - 2x^6 - 2x^4 + 4x^3 - 2x^2 + 4x - 2$ | $x^{14} + 42x^{12} + 532x^{10} + 2338x^8 + 4088x^6 + 3108x^4 + 1008x^2 + 108$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^6$ | T: 14,21 | $\frac{313}{112}$ |
| Continued on next page | | | | |

Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{14} + 2x^{13} + 4x^{11} + 4x^9 - 2x^6 + 4x^5 + 4x^3 + 2$ | $x^{14} - 35x^{12} + 273x^{10} - 49x^8 - 3171x^6 + 2583x^4 + 3591x^2 + 729$ | $\left[2 \frac{18}{7} \frac{18}{7} \frac{16}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{157}{56}$ |
| $x^{14} + 2x^{13} + 4x^{12} + 4x^{11} - 2x^{10} - 2x^8 + 4x^7 + 2x^6 + 2x^4 - 2x^2 - 2$ | $x^{14} + 35x^{12} + 287x^{10} - 679x^8 - 7945x^6 + 5523x^4 + 20601x^2 + 3267$ | $\left[\frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{20}{7} \frac{20}{7} \right]_7^6$ | T: 14,21 | $\frac{619}{224}$ |
| $x^{14} - 2x^{13} + 2x^{12} + 4x^{10} - 2x^8 + 4x^7 - 2x^4 + 2x^2 + 2$ | $x^{14} - 14x^{12} - 28x^{10} + 532x^8 + 896x^6 - 1848x^4 - 1008x^2 + 432$ | $\left[\frac{8}{7} \frac{8}{7} \frac{8}{7} \frac{20}{7} \frac{20}{7} \right]_7^6$ | T: 14,21 | $\frac{591}{224}$ |
| $x^{14} - 2x^{13} - 2x^{10} + 4x^9 + 4x^7 + 2x^6 + 4x^4 + 2x^2 - 2$ | $x^{14} + 21x^{12} + 21x^{10} - 441x^8 - 77x^6 + 665x^4 - 63x^2 - 1$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,21 | $\frac{313}{112}$ |
| $x^{14} + 2x^{13} - 2x^{12} + 4x^{10} + 4x^9 + 4x^8 + 2x^6 + 4x^5 + 4x^3 + 2x^2 + 2$ | $x^{14} + 14x^{12} - 448x^8 + 3976x^4 - 3136x^2 - 3600$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,21 | $\frac{313}{112}$ |
| Continued on next page | | | | |

Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{14} - 2x^{13} + 4x^{12} + 4x^8 + 4x^7 + 2x^6 + 4x^5 + 4x^4 + 4x^3 + 2x^2 + 4x - 2$ | $x^{14} - 98x^{10} + 518x^8 - 784x^6 - 84x^4 + 504x^2 + 108$ | $\left[\begin{array}{c} \frac{8}{7} \\ \frac{8}{7} \\ \frac{8}{7} \\ \frac{20}{7} \\ \frac{20}{7} \end{array} \right]_7^6$ | T: 14, 21 | $\frac{591}{224}$ |
| $x^{14} - 2x^{13} + 4x^{12} - 2x^8 + 4x^7 + 2x^6 + 4x^5 + 4x^3 - 2x^2 + 4x + 2$ | $x^{14} - 42x^{12} - 126x^{10} + 6426x^8 - 4536x^6 - 136080x^4 + 102060x^2 - 8748$ | $\left[\begin{array}{c} \frac{16}{7} \\ \frac{16}{7} \\ \frac{16}{7} \\ \frac{20}{7} \\ \frac{20}{7} \end{array} \right]_7^3$ | T: 14, 29 | $\frac{621}{224}$ |
| $x^{14} - 2x^{13} + 4x^{11} - 2x^8 + 4x^4 + 4x^3 - 2x^2 - 2$ | $x^{14} - 196x^{10} - 196x^8 + 9856x^6 + 11928x^4 - 76608x^2 + 52272$ | $\left[\begin{array}{c} \frac{18}{7} \\ \frac{18}{7} \\ \frac{18}{7} \\ \frac{20}{7} \\ \frac{20}{7} \end{array} \right]_7^6$ | T: 14, 21 | $\frac{313}{112}$ |
| $x^{14} - 2x^{13} + 4x^{11} + 2x^{10} + 2x^8 - 2x^6 + 4x^5 + 4x^4 + 2x^2 + 2$ | $x^{14} - 21x^{12} - 693x^{10} - 3591x^8 + 2835x^6 + 18711x^4 + 5103x^2 - 2187$ | $\left[\begin{array}{c} \frac{18}{7} \\ \frac{18}{7} \\ \frac{18}{7} \\ \frac{20}{7} \\ \frac{20}{7} \end{array} \right]_7^3$ | T: 14, 29 | $\frac{157}{56}$ |
| $x^{14} + 2x^{13} + 4x^{12} + 4x^9 + 4x^8 + 4x^7 + 2x^4 + 4x^3 - 2x^2 + 2$ | $x^{14} - 14x^{12} - 42x^{10} + 630x^8 + 1288x^6 + 420x^4 - 252x^2 - 108$ | $\left[\begin{array}{c} 2 \\ \frac{20}{7} \\ \frac{20}{7} \end{array} \right]_7^3$ | T: 14, 9 | $\frac{75}{28}$ |
| $x^{14} + 2x^{13} + 4x^{12} + 4x^{11} + 4x^8 + 4x^5 + 4x^3 + 4x^2 + 4x - 2$ | $x^{14} - 63x^{12} + 1071x^{10} - 5481x^8 - 6237x^6 + 73143x^4 + 45927x^2 - 54675$ | $\left[\begin{array}{c} \frac{8}{7} \\ \frac{8}{7} \\ \frac{8}{7} \\ 2 \\ \frac{20}{7} \end{array} \right]_7^3$ | T: 14, 29 | $\frac{1207}{448}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{14} - 2x^{13} + 2x^{12} - 2x^{10} + 2x^8 + 2x^6 + 4x^5 + 4x^4 + 4x^2 - 2$ | $x^{14} - 14x^{12} + 448x^8 - 3976x^4 - 3136x^2 + 3600$ | $\left[2 \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{157}{56}$ |
| $x^{14} + 2x^{13} + 4x^{12} + 4x^{11} - 2x^8 + 4x^7 + 2x^4 + 4x^3 + 4x^2 + 4x + 2$ | $x^{14} - 42x^{12} + 11718x^8 - 27216x^6 - 20412x^4 + 61236x^2 - 8748$ | $\left[2 \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{157}{56}$ |
| $x^{14} - 2x^{13} + 4x^{12} + 2x^{10} + 4x^9 + 4x^7 + 2x^2 + 4x + 2$ | $x^{14} - 98x^{10} - 518x^8 - 784x^6 + 84x^4 + 504x^2 - 108$ | $\left[\frac{8}{7} \frac{8}{7} \frac{8}{7} 2 \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{1207}{448}$ |
| $x^{14} - 2x^{13} - 2x^{12} + 2x^{10} + 4x^9 + 4x^8 - 2x^6 + 4x^5 + 2x^4 + 4x^3 + 4x^2 + 4x + 2$ | $x^{14} - 56x^{10} + 210x^8 - 168x^6 - 168x^4 + 224x^2 - 36$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,21 | $\frac{313}{112}$ |
| $x^{14} - 2x^{13} - 2x^{12} + 4x^9 + 2x^6 + 2x^4 + 4x - 2$ | $x^{14} + 35x^{12} + 273x^{10} + 49x^8 - 3171x^6 - 2583x^4 + 3591x^2 - 729$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,21 | $\frac{313}{112}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{14} - 2x^{13} + 4x^{12} + 4x^{11} - 2x^{10} + 4x^9 - 2x^6 + 4x^5 + 4x^4 - 2$ | $x^{14} + 21x^{12} - 945x^{10} - 2079x^8 + 59535x^6 - 93555x^4 - 158193x^2 - 19683$ | $\left[2 \begin{matrix} \frac{18}{7} & \frac{18}{7} & \frac{18}{7} \\ \frac{18}{7} & \frac{20}{7} & \frac{20}{7} \\ \frac{20}{7} & \frac{20}{7} & \frac{20}{7} \end{matrix} \right]_7^3$ | T: 14,29 | $\frac{157}{56}$ |
| $x^{14} - 2x^{13} + 2x^{12} + 2x^{10} + 4x^9 - 2x^8 + 4x^7 + 4x^6 + 4x^3 + 2x^2 + 4x - 2$ | $x^{14} + 63x^{12} + 1071x^{10} + 5481x^8 - 6237x^6 - 73143x^4 + 45927x^2 + 54675$ | $\left[\begin{matrix} \frac{8}{7} \\ \frac{8}{7} & \frac{8}{7} \\ \frac{8}{7} & \frac{20}{7} & \frac{20}{7} \\ \frac{20}{7} & \frac{20}{7} & \frac{20}{7} \end{matrix} \right]_7^6$ | T: 14,21 | $\frac{591}{224}$ |
| $x^{14} - 2x^{13} + 4x^{10} + 4x^9 + 2x^8 + 4x^7 + 2x^6 + 2x^4 + 4x - 2$ | $x^{14} - 7x^{12} - 105x^{10} + 77x^8 + 735x^6 + 385x^4 - 217x^2 + 9$ | $\left[2 \begin{matrix} \frac{18}{7} \\ \frac{18}{7} & \frac{18}{7} \\ \frac{18}{7} & \frac{20}{7} & \frac{20}{7} \\ \frac{20}{7} & \frac{20}{7} & \frac{20}{7} \end{matrix} \right]_7^3$ | T: 14,29 | $\frac{157}{56}$ |
| $x^{14} - 2x^{13} - 2x^{10} + 4x^9 - 2x^8 + 4x^7 + 4x^6 + 4x^4 + 4x^3 + 4x^2 + 4x + 2$ | $x^{14} + 14x^{12} + 14x^{10} - 406x^8 - 1344x^6 - 1260x^4 + 324$ | $\left[2 \begin{matrix} \frac{16}{7} \\ \frac{16}{7} & \frac{16}{7} \\ \frac{16}{7} & \frac{20}{7} & \frac{20}{7} \\ \frac{20}{7} & \frac{20}{7} & \frac{20}{7} \end{matrix} \right]_7^3$ | T: 14,29 | $\frac{621}{224}$ |
| $x^{14} - 2x^{13} + 4x^9 + 2x^8 + 4x^7 + 2x^6 + 4x^5 + 4x^4 + 4x^3 + 2x^2 + 4x + 2$ | $x^{14} + 7x^{12} - 49x^{10} + 63x^8 + 63x^6 - 175x^4 + 91x^2 + 1$ | $\left[2 \begin{matrix} \frac{16}{7} \\ \frac{16}{7} & \frac{16}{7} \\ \frac{16}{7} & \frac{20}{7} & \frac{20}{7} \\ \frac{20}{7} & \frac{20}{7} & \frac{20}{7} \end{matrix} \right]_7^3$ | T: 14,29 | $\frac{621}{224}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|--------------------|
| $x^{14} + 2x^{13} + 4x^{12} + 2x^{10} + 4x^8 - 2x^6 + 4x^5 + 2x^4 - 2$ | $x^{14} + 21x^{12} + 35x^{10} - 1127x^8 - 4137x^6 + 6237x^4 + 10017x^2 - 9801$ | $\left[\begin{array}{c} \frac{8}{7} \\ \frac{8}{7} \\ \frac{8}{7} \\ \frac{20}{7} \\ \frac{20}{7} \end{array} \right]_7^3$ | T: 14,21 | $\frac{591}{224}$ |
| $x^{14} - 2x^{13} - 2x^{10} - 2x^8 + 4x^7 + 4x^6 + 4x^5 + 2x^4 + 2x^2 - 2$ | $x^{14} - 21x^{12} - 259x^{10} + 1379x^8 + 11739x^6 - 29799x^4 - 138159x^2 + 263169$ | $\left[\begin{array}{c} \frac{8}{7} \\ \frac{8}{7} \\ \frac{8}{7} \\ 2 \\ \frac{20}{7} \\ \frac{20}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1207}{448}$ |
| $x^{14} + 2x^{13} - 2x^{12} + 4x^{10} + 4x^6 + 4x^5 + 2x^4 - 2$ | $x^{14} + 21x^{12} - 441x^{10} + 1701x^8 + 5103x^6 - 42525x^4 + 66339x^2 + 2187$ | $\left[\begin{array}{c} \frac{16}{7} \\ \frac{16}{7} \\ \frac{16}{7} \\ \frac{20}{7} \\ \frac{20}{7} \end{array} \right]_7^6$ | T: 14,21 | $\frac{619}{224}$ |
| $x^{14} + 2x^{13} - 2x^{12} + 4x^{11} + 4x^9 + 4x^7 + 2x^6 + 4x^4 + 4x - 2$ | $x^{14} + 35x^{12} + 399x^{10} + 1967x^8 + 4165x^6 + 2919x^4 + 693x^2 + 27$ | $\left[\begin{array}{c} \frac{20}{7} \\ \frac{20}{7} \\ \frac{20}{7} \end{array} \right]_7^6$ | T: 14,6 | $\frac{73}{28}$ |
| $x^{14} + 2x^{13} + 2x^{10} + 4x^9 + 2x^8 - 2x^6 - 2x^4 + 4x^3 + 2$ | $x^{14} + 14x^{12} + 42x^{10} - 70x^8 - 196x^6 + 168x^4 + 168x^2 - 100$ | $\left[\begin{array}{c} \frac{20}{7} \\ \frac{20}{7} \\ \frac{20}{7} \end{array} \right]_7^3$ | T: 14,6 | $\frac{73}{28}$ |
| $x^{14} - 2x^{13} - 2x^{12} + 4x^{10} + 2x^6 + 4x^4 + 4x^3 - 2x^2 + 2$ | $x^{14} - 35x^{12} + 105x^{10} + 119x^8 - 427x^6 - 105x^4 + 315x^2 - 27$ | $\left[2 \begin{array}{c} \frac{18}{7} \\ \frac{18}{7} \\ \frac{18}{7} \\ \frac{20}{7} \\ \frac{20}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{157}{56}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{14} - 2x^{13} - 2x^{12} - 2x^{10} + 4x^9 + 2x^8 + 4x^6 + 4x^5 - 2x^4 + 4x^2 + 4x + 2$ | $x^{14} - 7x^{12} - 77x^{10} - 133x^8 + 35x^6 + 77x^4 + 7x^2 - 1$ | $\left[\frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{20}{7} \quad \frac{20}{7} \right]_7^3$ | T: 14,21 | $\frac{313}{112}$ |
| $x^{14} - 2x^{13} - 2x^{12} + 4x^{10} + 4x^9 + 4x^7 - 2x^4 + 4x^2 + 4x - 2$ | $x^{14} - 504x^{10} - 5670x^8 - 13608x^6 + 40824x^4 + 163296x^2 + 78732$ | $\left[\frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{20}{7} \quad \frac{20}{7} \right]_7^6$ | T: 14,21 | $\frac{313}{112}$ |
| $x^{14} + 2x^{13} + 4x^{10} + 2x^8 + 2x^6 + 4x^5 + 2x^4 + 4x^3 + 4x^2 + 4x + 2$ | $x^{14} - 7x^{12} + 7x^{10} + 35x^8 - 49x^6 - 49x^4 + 49x^2 - 9$ | $\left[\frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{20}{7} \quad \frac{20}{7} \right]_7^3$ | T: 14,21 | $\frac{313}{112}$ |
| $x^{14} + 2x^{13} + 4x^{11} + 4x^9 + 2x^8 + 4x^7 + 4x^6 + 4x^5 + 2x^4 + 4x^3 + 2$ | $x^{14} - 7x^{12} - 7x^{10} + 91x^8 - 91x^6 - 21x^4 + 21x^2 - 1$ | $\left[\frac{16}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad \frac{20}{7} \quad \frac{20}{7} \right]_7^3$ | T: 14,21 | $\frac{619}{224}$ |
| $x^{14} - 2x^{13} + 4x^{12} + 4x^{11} + 2x^{10} + 4x^9 - 2x^8 + 4x^6 + 4x^3 - 2x^2 + 4x + 2$ | $x^{14} + 21x^{12} + 119x^{10} + 35x^8 - 665x^6 + 455x^4 - 77x^2 + 1$ | $\left[2 \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \right]_7^3$ | T: 14,9 | $\frac{75}{28}$ |
| $x^{14} + 2x^{13} + 4x^{12} - 2x^8 + 2x^6 + 4x^5 - 2x^4 + 4x^2 - 2$ | $x^{14} + 14x^{12} - 112x^{10} - 1708x^8 + 3864x^6 + 48888x^4 - 84672x^2 + 34992$ | $\left[\frac{16}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad \frac{20}{7} \quad \frac{20}{7} \right]_7^6$ | T: 14,21 | $\frac{619}{224}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{14} - 2x^{13} + 2x^{12} + 2x^{10} + 4x^9 + 2x^8 + 4x^7 - 2x^6 + 4x^3 - 2x^2 + 4x - 2$ | $x^{14} - 35x^{12} + 315x^{10} + 1001x^8 - 22785x^6 + 64071x^4 - 15309x^2 - 59049$ | $\left[\frac{16}{7} \right]_7^3 \left[\frac{20}{7} \right]_7^3$ | T: 14,21 | $\frac{619}{224}$ |
| $x^{14} + 2x^{13} - 2x^{12} + 2x^{10} + 4x^9 + 4x^8 + 4x^7 + 4x^6 + 4x^5 + 4x^4 + 4x^3 - 2x^2 + 2$ | $x^{14} - 14x^{12} - 280x^{10} + 3430x^8 + 14196x^6 - 140364x^4 - 14364x^2 + 2916$ | $\left[2 \frac{18}{7} \right]_7^3 \left[\frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{157}{56}$ |
| $x^{14} - 2x^{13} + 2x^{12} + 4x^{10} - 2x^8 + 4x^7 + 2x^6 + 4x^4 + 2$ | $x^{14} + 7x^{12} - 77x^{10} + 133x^8 + 35x^6 - 77x^4 + 7x^2 + 1$ | $\left[2 \frac{18}{7} \right]_7^3 \left[\frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{157}{56}$ |
| $x^{14} + 2x^{13} + 4x^{12} - 2x^{10} + 4x^7 + 2x^6 + 4x^5 + 4x^3 - 2$ | $x^{14} - 7x^{12} - 49x^{10} + 245x^8 + 49x^6 - 539x^4 + 343x^2 - 49$ | $\left[\frac{18}{7} \right]_7^3 \left[\frac{20}{7} \right]_7^3$ | T: 14,21 | $\frac{313}{112}$ |
| $x^{14} + 2x^{13} - 2x^{12} + 4x^9 + 4x^8 + 4x^7 + 2x^6 + 2x^4 + 2x^2 - 2$ | $x^{14} + 7x^{12} - 245x^{10} - 2107x^8 + 7203x^6 + 69237x^4 + 27783x^2 - 3969$ | $\left[\frac{20}{7} \right]_7^3 \left[\frac{20}{7} \right]_7^3$ | T: 14,6 | $\frac{73}{28}$ |
| $x^{14} - 2x^{13} + 4x^{11} + 4x^9 + 2x^8 + 4x^7 + 4x^6 - 2x^4 + 2x^2 + 4x + 2$ | $x^{14} - 63x^{12} + 189x^{10} + 11907x^8 - 6237x^6 - 161595x^4 - 45927x^2 + 2187$ | $\left[\frac{18}{7} \right]_7^6 \left[\frac{20}{7} \right]_7^6$ | T: 14,21 | $\frac{313}{112}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|-------------------|
| $x^{14} + 2x^{13} + 2x^{12} + 4x^{11} + 4x^9 + 4x^8 + 4x^4 + 4x^3 + 4x^2 + 4x - 2$ | $x^{14} - 7x^{12} - 245x^{10} + 2107x^8 + 7203x^6 - 69237x^4 + 27783x^2 + 3969$ | $\left[2 \begin{matrix} 20 & 20 \\ 7 & 7 \end{matrix} \right]_7^3$ | T: 14,9 | $\frac{75}{28}$ |
| $x^{14} - 2x^{13} + 2x^{12} + 2x^{10} + 4x^9 + 4x^8 + 4x^7 + 2x^6 + 4x^3 + 4x + 2$ | $x^{14} + 42x^{12} - 126x^{10} - 6426x^8 - 4536x^6 + 136080x^4 + 102060x^2 + 8748$ | $\left[\begin{matrix} 16 & 16 \\ 7 & 7 \end{matrix} \right]_7 \begin{matrix} 16 & 16 \\ 7 & 7 \end{matrix} \begin{matrix} 20 & 20 \\ 7 & 7 \end{matrix} \right]_7^6$ | T: 14,21 | $\frac{619}{224}$ |
| $x^{14} + 2x^{13} + 4x^{11} + 4x^{10} + 4x^9 - 2x^8 + 4x^7 + 2x^6 + 4x^5 + 2x^4 - 2x^2 - 2$ | $x^{14} - 7x^{12} - 49x^{10} - 63x^8 + 63x^6 + 175x^4 + 91x^2 - 1$ | $\left[\begin{matrix} 16 & 16 \\ 7 & 7 \end{matrix} \right]_7 \begin{matrix} 16 & 16 \\ 7 & 7 \end{matrix} \begin{matrix} 20 & 20 \\ 7 & 7 \end{matrix} \right]_7^3$ | T: 14,21 | $\frac{619}{224}$ |
| $x^{14} + 2x^{13} + 2x^{12} + 4x^7 + 2x^6 + 2x^4 - 2x^2 - 2$ | $x^{14} + 21x^{12} - 259x^{10} - 1379x^8 + 11739x^6 + 29799x^4 - 138159x^2 - 263169$ | $\left[\begin{matrix} 8 & 8 \\ 7 & 7 \end{matrix} \right]_7 \begin{matrix} 8 & 8 \\ 7 & 7 \end{matrix} \begin{matrix} 20 & 20 \\ 7 & 7 \end{matrix} \right]_7^3$ | T: 14,21 | $\frac{591}{224}$ |
| $x^{14} + 2x^{13} + 4x^{11} - 2x^{10} + 4x^9 + 4x^6 + 4x^4 + 4x^3 - 2x^2 + 2$ | $x^{14} - 42x^{12} + 532x^{10} - 2338x^8 + 4088x^6 - 3108x^4 + 1008x^2 - 108$ | $\left[2 \begin{matrix} 18 & 18 \\ 7 & 7 \end{matrix} \begin{matrix} 18 & 18 \\ 7 & 7 \end{matrix} \begin{matrix} 20 & 20 \\ 7 & 7 \end{matrix} \right]_7^3$ | T: 14,29 | $\frac{157}{56}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{14} - 2x^{13} + 4x^{10} + 4x^8 - 2x^6 - 2x^4 + 4x^3 + 4x^2 + 4x + 2$ | $x^{14} + 49x^{12} + 987x^{10} + 10577x^8 + 64911x^6 + 226863x^4 + 414477x^2 + 301401$ | $\left[2 \frac{18}{7} \frac{18}{7} \frac{16}{7} \frac{16}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{157}{56}$ |
| $x^{14} + 2x^{13} + 2x^{10} + 4x^9 - 2x^8 + 4x^6 + 4x^4 + 4x^2 + 4x - 2$ | $x^{14} + 14x^{12} - 42x^{10} - 630x^8 + 1288x^6 - 420x^4 - 252x^2 + 108$ | $\left[\frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^6$ | T: 14,6 | $\frac{73}{28}$ |
| $x^{14} + 2x^{13} + 2x^{12} + 2x^{10} + 4x^7 + 2x^6 + 4x^5 + 2x^4 + 4x^3 - 2x^2 - 2$ | $x^{14} - 7x^{12} - 119x^{10} + 217x^8 + 2751x^6 - 1827x^4 - 12285x^2 - 6561$ | $\left[\frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,21 | $\frac{619}{224}$ |
| $x^{14} - 2x^{13} + 4x^{11} - 2x^{10} + 4x^9 - 2x^8 + 4x^5 + 2x^4 - 2x^2 + 4x + 2$ | $x^{14} + 42x^{12} - 11718x^8 - 27216x^6 + 20412x^4 + 61236x^2 + 8748$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^6$ | T: 14,21 | $\frac{313}{112}$ |
| $x^{14} - 2x^{13} + 2x^{12} + 4x^{10} + 4x^7 + 2x^6 + 4x^5 + 4x^3 + 4x^2 - 2$ | $x^{14} - 35x^{12} + 175x^{10} + 2345x^8 + 3549x^6 - 4599x^4 - 6993x^2 - 729$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,21 | $\frac{313}{112}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{14} + 2x^{13} + 4x^{11} + 2x^{10} + 4x^9 - 2x^8 + 4x^7 + 2x^6 + 4x^5 + 2x^2 + 2$ | $x^{14} + 35x^{12} + 175x^{10} - 2345x^8 + 3549x^6 + 4599x^4 - 6993x^2 + 729$ | $\left[2 \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{157}{56}$ |
| $x^{14} + 2x^{13} - 2x^{12} + 4x^{11} + 4x^9 + 2x^8 + 4x^6 + 4x^5 + 2x^4 - 2x^2 + 4x - 2$ | $x^{14} - 21x^{12} - 945x^{10} + 2079x^8 + 59535x^6 + 93555x^4 - 158193x^2 + 19683$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^6$ | T: 14,21 | $\frac{313}{112}$ |
| $x^{14} - 2x^{13} + 2x^{12} - 2x^{10} + 4x^9 + 4x^7 + 4x^6 + 4x^5 - 2x^2 - 2$ | $x^{14} + 21x^{12} - 693x^{10} + 3591x^8 + 2835x^6 - 18711x^4 + 5103x^2 + 2187$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^6$ | T: 14,21 | $\frac{313}{112}$ |
| $x^{14} - 2x^{13} + 4x^{12} + 4x^{11} - 2x^{10} + 4x^9 + 2x^8 + 4x^7 + 2x^6 + 4x^5 - 2x^2 + 2$ | $x^{14} + 35x^{12} + 35x^{10} - 427x^8 - 357x^6 + 945x^4 + 945x^2 + 81$ | $\left[2 \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{157}{56}$ |
| $x^{14} - 2x^{13} + 2x^{12} - 2x^{10} + 4x^9 + 2x^8 + 4x^7 + 4x^5 + 4x^3 + 4x^2 + 2$ | $x^{14} - 35x^{12} + 35x^{10} + 427x^8 - 357x^6 - 945x^4 + 945x^2 - 81$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,21 | $\frac{313}{112}$ |
| Continued on next page | | | | |

Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{14} - 2x^{13} + 2x^{12} + 4x^{10} - 2x^8 + 2x^6 + 4x^5 + 2x^4 - 2x^2 + 2$ | $x^{14} + 7x^{12} - 119x^{10} - 217x^8 + 2751x^6 + 1827x^4 - 12285x^2 + 6561$ | $\left[2 \frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{621}{224}$ |
| $x^{14} + 2x^{13} + 2x^{12} - 2x^{10} - 2x^8 + 4x^7 + 2x^6 + 4x^4 - 2x^2 + 4x - 2$ | $x^{14} + 35x^{12} + 427x^{10} + 2485x^8 + 7497x^6 + 11529x^4 + 8127x^2 + 2025$ | $\left[2 \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,9 | $\frac{75}{28}$ |
| $x^{14} + 2x^{13} - 2x^{12} + 2x^{10} + 2x^8 - 2x^6 - 2x^4 + 4x^3 + 2x^2 + 4x - 2$ | $x^{14} + 7x^{12} - 105x^{10} - 77x^8 + 735x^6 - 385x^4 - 217x^2 - 9$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,21 | $\frac{313}{112}$ |
| $x^{14} - 2x^{13} - 2x^{12} + 4x^{10} - 2x^8 - 2x^6 + 4x^4 + 4x^3 - 2x^2 + 4x - 2$ | $x^{14} + 42x^{12} + 112x^{10} - 1036x^8 + 56x^6 + 3192x^4 - 2016x^2 - 432$ | $\left[2 \frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{621}{224}$ |
| $x^{14} - 2x^{13} + 2x^{12} + 4x^{11} + 4x^{10} + 4x^8 + 4x^4 - 2x^2 + 4x + 2$ | $x^{14} - 14x^{12} + 42x^{10} + 70x^8 - 196x^6 - 168x^4 + 168x^2 + 100$ | $\left[2 \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,9 | $\frac{75}{28}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|-------------------|
| $x^{14} + 2x^{13} - 2x^{12} - 2x^{10} + 2x^8 + 4x^7 - 2x^6 - 2x^4 + 4x - 2$ | $x^{14} - 7x^{12} - 21x^{10} + 133x^8 + 63x^6 - 441x^4 + 189x^2 + 81$ | $\left[2 \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{157}{56}$ |
| $x^{14} + 2x^{13} - 2x^{12} + 2x^{10} + 4x^9 - 2x^8 + 4x^7 + 4x^6 - 2x^4 + 4x^3 - 2x^2 - 2$ | $x^{14} - 35x^{12} + 287x^{10} + 679x^8 - 7945x^6 - 5523x^4 + 20601x^2 - 3267$ | $\left[2 \frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{621}{224}$ |
| $x^{14} - 2x^{13} - 2x^{12} + 4x^{11} + 2x^{10} + 4x^8 + 4x^6 + 4x^4 + 4x^3 - 2$ | $x^{14} + 14x^{12} - 280x^{10} - 3430x^8 + 14196x^6 + 140364x^4 - 14364x^2 - 2916$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,21 | $\frac{313}{112}$ |
| $x^{14} - 2x^{13} + 2x^{12} + 2x^{10} + 4x^9 + 4x^8 + 4x^7 + 4x^5 - 2x^2 + 2$ | $x^{14} + 35x^{12} + 105x^{10} - 119x^8 - 427x^6 + 105x^4 + 315x^2 + 27$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^6$ | T: 14,21 | $\frac{313}{112}$ |
| $x^{14} + 2x^{13} + 4x^{11} - 2x^{10} + 2x^8 + 4x^6 + 4x^5 + 4x^4 + 4x^3 + 2x^2 + 4x + 2$ | $x^{14} + 42x^{12} + 378x^{10} - 1890x^8 - 20412x^6 - 27216x^4 + 8748$ | $\left[\frac{8}{7} \frac{8}{7} \frac{8}{7} \frac{20}{7} \frac{20}{7} \right]_7^6$ | T: 14,21 | $\frac{591}{224}$ |
| Continued on next page | | | | |

Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|--------------------|
| $x^{14} + 2x^{13} + 2x^{10} + 4x^9 + 2x^8 + 2x^4 + 4x^3 - 2$ | $x^{14} - 84x^{10} + 168x^8 + 1456x^6 - 3976x^4 - 672x^2 - 16$ | $\left[\frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,21 | $\frac{619}{224}$ |
| $x^{14} - 2x^{13} - 2x^{12} + 2x^{10} + 4x^9 + 4x^7 + 4x^6 - 2x^4 + 4x^3 + 4x^2 + 4x - 2$ | $x^{14} - 14x^{12} - 196x^{10} + 714x^8 + 3500x^6 - 6216x^4 - 12852x^2 - 2700$ | $\left[2 \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{157}{56}$ |
| $x^{14} - 2x^{13} + 4x^{12} + 4x^{11} + 4x^{10} + 4x^9 + 4x^8 + 4x^7 - 2x^6 - 2x^4 + 4x^3 - 2x^2 - 2$ | $x^{14} + 14x^{12} - 14x^{10} - 602x^8 + 168x^6 + 6552x^4 - 6804x^2 + 324$ | $\left[2 \frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{621}{224}$ |
| $x^{14} + 2x^{13} + 2x^{12} + 4x^{10} + 4x^8 + 2x^6 - 2x^4 + 2x^2 + 4x - 2$ | $x^{14} - 21x^{12} - 217x^{10} + 245x^8 + 945x^6 - 945x^4 - 189x^2 + 243$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^6$ | T: 14,21 | $\frac{313}{112}$ |
| $x^{14} - 2x^{13} + 4x^{12} + 4x^8 + 4x^7 + 4x^6 + 4x^3 - 2x^2 + 2$ | $x^{14} - 7x^{12} - 175x^{10} + 35x^8 + 4655x^6 + 777x^4 - 34335x^2 + 9747$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^6$ | T: 14,21 | $\frac{313}{112}$ |
| $x^{14} - 2x^{13} + 4x^{12} + 4x^9 + 4x^8 + 2x^2 + 2$ | $x^{14} + 14x^{12} - 28x^{10} - 532x^8 + 896x^6 + 1848x^4 - 1008x^2 - 432$ | $\left[\frac{8}{7} \frac{8}{7} \frac{8}{7} 2 \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{1207}{448}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|--------------------|
| $x^{14} + 2x^{13} - 2x^{12} + 4x^{11} + 2x^{10} - 2x^8 + 4x^6 + 4x^5 + 4x^4 + 4x^3 + 2x^2 + 4x - 2$ | $x^{14} - 42x^{12} + 378x^{10} + 1890x^8 - 20412x^6 + 27216x^4 - 8748$ | $\left[\begin{array}{c} \frac{8}{7} \\ \frac{8}{7} \\ 2 \\ \frac{20}{7} \\ \frac{20}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1207}{448}$ |
| $x^{14} - 2x^{13} - 2x^{12} + 4x^{11} + 4x^{10} + 2x^8 + 4x^7 - 2x^6 - 2x^4 + 4x^2 + 2$ | $x^{14} - 756x^{10} - 4536x^8 + 117936x^6 + 966168x^4 - 489888x^2 + 34992$ | $\left[\begin{array}{c} \frac{16}{7} \\ \frac{16}{7} \\ \frac{16}{7} \\ \frac{20}{7} \\ \frac{20}{7} \end{array} \right]_7^6$ | T: 14,21 | $\frac{619}{224}$ |
| $x^{14} - 2x^{13} + 2x^{12} + 2x^{10} - 2x^8 + 4x^6 + 4x^4 - 2x^2 + 2$ | $x^{14} + 7x^{12} - 175x^{10} - 35x^8 + 4655x^6 - 777x^4 - 34335x^2 - 9747$ | $\left[\begin{array}{c} 2 \\ \frac{18}{7} \\ \frac{18}{7} \\ \frac{18}{7} \\ \frac{20}{7} \\ \frac{20}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{157}{56}$ |
| $x^{14} - 2x^{13} + 4x^{11} + 4x^{10} - 2x^8 + 2x^6 + 4x^4 + 4x^3 - 2x^2 + 4x + 2$ | $x^{14} - 14x^{12} - 14x^{10} + 602x^8 + 168x^6 - 6552x^4 - 6804x^2 - 324$ | $\left[\begin{array}{c} \frac{16}{7} \\ \frac{16}{7} \\ \frac{16}{7} \\ \frac{20}{7} \\ \frac{20}{7} \end{array} \right]_7^3$ | T: 14,21 | $\frac{619}{224}$ |
| $x^{14} - 2x^{13} + 4x^{12} + 4x^8 + 4x^7 + 2x^6 + 2x^4 + 4x^3 + 2x^2 + 4x - 2$ | $x^{14} + 42x^{12} + 392x^{10} - 1736x^8 - 32256x^6 - 84168x^4 - 60480x^2 + 1296$ | $\left[\begin{array}{c} 2 \\ \frac{18}{7} \\ \frac{18}{7} \\ \frac{18}{7} \\ \frac{20}{7} \\ \frac{20}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{157}{56}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|--------------------|
| $x^{14} + 2x^{13} + 2x^{10} + 4x^9 - 2x^8 + 2x^6 + 2x^4 + 2$ | $x^{14} - 14x^{12} + 14x^{10} + 406x^8 - 1344x^6 + 1260x^4 - 324$ | $\left[\frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,21 | $\frac{619}{224}$ |
| $x^{14} + 2x^{13} + 4x^{12} + 4x^9 + 2x^8 + 4x^7 + 4x^6 + 4x^4 + 2x^2 + 4x - 2$ | $x^{14} + 35x^{12} + 315x^{10} - 1001x^8 - 22785x^6 - 64071x^4 - 15309x^2 + 59049$ | $\left[2 \frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{621}{224}$ |
| $x^{14} + 2x^{13} - 2x^8 + 4x^6 + 4x^5 + 2x^4 + 4x - 2$ | $x^{14} + 21x^{12} + 63x^{10} - 945x^8 - 3969x^6 + 11907x^4 + 35721x^2 + 19683$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^6$ | T: 14,21 | $\frac{313}{112}$ |
| $x^{14} - 2x^{13} - 2x^{12} - 2x^{10} + 4x^8 + 4x^5 + 4x^3 + 4x^2 + 4x - 2$ | $x^{14} + 14x^{12} + 42x^{10} - 70x^8 - 252x^6 - 112x^4 + 4$ | $\left[\frac{8}{7} \frac{8}{7} \frac{8}{7} 2 \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{1207}{448}$ |
| $x^{14} - 2x^{13} + 2x^{12} + 4x^{11} + 4x^9 + 4x^8 - 2x^6 + 2x^4 + 4x^3 + 4x^2 - 2$ | $x^{14} - 84x^{10} - 168x^8 + 1456x^6 + 3976x^4 - 672x^2 + 16$ | $\left[2 \frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{621}{224}$ |
| $x^{14} - 2x^{13} + 2x^{12} + 4x^{11} - 2x^{10} + 4x^9 + 4x^7 + 4x^6 - 2x^4 - 2$ | $x^{14} - 42x^{12} + 112x^{10} + 1036x^8 + 56x^6 - 3192x^4 - 2016x^2 + 432$ | $\left[\frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{20}{7} \frac{20}{7} \right]_7^6$ | T: 14,21 | $\frac{619}{224}$ |
| Continued on next page | | | | |

Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{14} + 2x^{13} + 4x^{12} + 4x^{11} + 4x^8 + 4x^6 + 4x^5 + 4x + 2$ | $x^{14} + 21x^{12} + 77x^{10} - 623x^8 - 4025x^6 - 6951x^4 - 3213x^2 + 27$ | $\left[\frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^6$ | T: 14,21 | $\frac{619}{224}$ |
| $x^{14} + 2x^{13} + 2x^{10} + 2x^8 + 2x^4 + 2$ | $x^{14} - 21x^{12} + 119x^{10} - 203x^8 - 77x^6 + 301x^4 + 63x^2 - 25$ | $\left[\frac{8}{7} \frac{8}{7} \frac{8}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,21 | $\frac{591}{224}$ |
| $x^{14} + 2x^{13} + 4x^{12} - 2x^{10} + 4x^9 + 2x^8 + 2x^6 + 4x^5 + 4x^4 + 4x^3 - 2x^2 - 2$ | $x^{14} - 49x^{12} + 987x^{10} - 10577x^8 + 64911x^6 - 226863x^4 + 414477x^2 - 301401$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,21 | $\frac{313}{112}$ |
| $x^{14} + 2x^{13} + 4x^{12} + 2x^{10} + 4x^9 + 2x^8 + 4x^7 + 2x^6 + 4x^5 - 2x^4 + 4x^3 + 2$ | $x^{14} - 35x^{12} + 399x^{10} - 1967x^8 + 4165x^6 - 2919x^4 + 693x^2 - 27$ | $\left[2 \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,9 | $\frac{75}{28}$ |
| $x^{14} - 2x^{13} + 4x^{10} + 4x^9 + 2x^6 + 2x^4 + 4x^2 + 4x + 2$ | $x^{14} + 42x^{12} - 12096x^8 + 966168x^4 - 2286144x^2 - 7873200$ | $\left[2 \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{157}{56}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|------------------|
| $x^{14} - 2x^{13} + 2x^{12} - 2x^{10} + 2x^8 + 4x^7 + 2x^6 + 4x^5 + 4x^4 + 4x^3 - 2x^2 - 2$ | $x^{14} + 14x^{12} - 434x^8 - 336x^6 + 84x^4 + 84x^2 + 4$ | $\left[2 \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{157}{56}$ |
| $x^{14} + 2x^{13} + 2x^{12} + 4x^{11} + 4x^{10} + 4x^9 + 2x^8 + 4x^6 + 4x^5 - 2x^4 + 4x^2 + 4x - 2$ | $x^{14} - 14x^{12} - 84x^{10} + 1736x^8 - 2016x^6 - 42336x^4 + 120960x^2 - 15552$ | $\left[2 \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{157}{56}$ |
| $x^{14} - 2x^{13} - 2x^{12} + 4x^9 + 2x^8 + 4x^6 - 2$ | $x^{14} + 63x^{12} + 189x^{10} - 11907x^8 - 6237x^6 + 161595x^4 - 45927x^2 - 2187$ | $\left[2 \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{157}{56}$ |
| $x^{14} - 2x^{13} - 2x^{12} + 2x^{10} + 2x^8 + 2x^6 + 4x^3 + 4x^2 + 2$ | $x^{14} - 56x^{10} - 210x^8 - 168x^6 + 168x^4 + 224x^2 + 36$ | $\left[2 \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{157}{56}$ |
| $x^{14} - 2x^{13} + 2x^{12} + 4x^{11} - 2x^8 + 4x^7 - 2x^6 + 2x^4 + 4x^3 + 2x^2 + 4x - 2$ | $x^{14} + 7x^{12} - 119x^{10} - 259x^8 + 4767x^6 - 9135x^4 - 9261x^2 + 23409$ | $\left[2 \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{157}{56}$ |
| Continued on next page | | | | |

Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{14} - 2x^{13} - 2x^{12} + 4x^{10} + 4x^8 - 2x^6 + 2x^4 + 2$ | $x^{14} - 63x^{12} + 1071x^{10} - 945x^8 - 53865x^6 - 110565x^4 - 56133x^2 - 2187$ | $\left[2 \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,9 | $\frac{75}{28}$ |
| $x^{14} - 2x^{13} + 4x^{12} + 4x^{11} - 2x^{10} + 4x^9 - 2x^8 - 2x^4 + 2x^2 + 2$ | $x^{14} - 35x^{12} + 427x^{10} - 2485x^8 + 7497x^6 - 11529x^4 + 8127x^2 - 2025$ | $\left[\frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,6 | $\frac{73}{28}$ |
| $x^{14} + 2x^{13} - 2x^{12} + 4x^{11} + 4x^7 + 4x^6 + 2x^4 + 4x + 2$ | $x^{14} - 7x^{12} - 119x^{10} + 259x^8 + 4767x^6 + 9135x^4 - 9261x^2 - 23409$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,21 | $\frac{313}{112}$ |
| $x^{14} + 2x^{13} - 2x^{12} + 4x^9 + 4x^8 + 4x^7 + 4x^5 + 2x^4 + 4x^3 - 2x^2 + 4x - 2$ | $x^{14} + 21x^{12} - 217x^{10} - 245x^8 + 945x^6 + 945x^4 - 189x^2 - 243$ | $\left[2 \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{157}{56}$ |
| $x^{14} - 2x^{13} + 2x^{10} + 4x^9 - 2x^8 + 4x^7 + 4x^6 - 2x^4 + 4x^3 - 2$ | $x^{14} + 21x^{12} - 63x^{10} - 2457x^8 - 7371x^6 + 5103x^4 + 15309x^2 + 2187$ | $\left[\frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{20}{7} \frac{20}{7} \right]_7^6$ | T: 14,21 | $\frac{619}{224}$ |
| $x^{14} - 2x^{13} + 2x^{12} + 2x^{10} - 2x^8 + 2x^6 + 4x^5 + 2x^4 - 2x^2 - 2$ | $x^{14} - 14x^{12} + 42x^{10} + 70x^8 - 252x^6 + 112x^4 - 4$ | $\left[\frac{8}{7} \frac{8}{7} \frac{8}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,21 | $\frac{591}{224}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{14} - 2x^{13} + 4x^{12} + 4x^9 - 2x^8 + 4x^7 - 2x^6 + 4x^5 + 2x^4 + 2x^2 - 2$ | $x^{14} - 14x^{12} - 14x^{10} + 238x^8 - 56x^6 - 560x^4 + 140x^2 - 4$ | $\left[\frac{16}{7}, \frac{16}{7}, \frac{16}{7}, \frac{20}{7}, \frac{20}{7}, \frac{20}{7} \right]_7^3$ | T: 14, 21 | $\frac{619}{224}$ |
| $x^{14} - 2x^{13} + 4x^{11} + 2x^{10} - 2x^8 + 4x^5 + 4x^4 + 4x^2 + 4x - 2$ | $x^{14} + 21x^{12} + 119x^{10} + 203x^8 - 77x^6 - 301x^4 + 63x^2 + 25$ | $\left[\frac{8}{7}, \frac{8}{7}, \frac{8}{7}, 2, \frac{20}{7}, \frac{20}{7} \right]_7^3$ | T: 14, 29 | $\frac{1207}{448}$ |
| $x^{14} + 2x^{13} + 4x^{11} + 4x^{10} + 4x^7 + 2x^6 + 4x^5 + 4x^4 + 4x^3 + 4x - 2$ | $x^{14} - 14x^{12} - 112x^{10} + 1708x^8 + 3864x^6 - 48888x^4 - 84672x^2 - 34992$ | $\left[2, \frac{16}{7}, \frac{16}{7}, \frac{16}{7}, \frac{20}{7}, \frac{20}{7} \right]_7^3$ | T: 14, 29 | $\frac{621}{224}$ |
| $x^{14} + 2x^{13} + 2x^{12} + 4x^{11} + 2x^{10} - 2x^8 + 4x^7 + 4x^4 + 4x^3 + 4x^2 + 2$ | $x^{14} - 196x^{10} + 196x^8 + 9856x^6 - 11928x^4 - 76608x^2 - 52272$ | $\left[2, \frac{18}{7}, \frac{18}{7}, \frac{18}{7}, \frac{20}{7}, \frac{20}{7} \right]_7^3$ | T: 14, 29 | $\frac{157}{56}$ |
| $x^{14} + 2x^{13} + 2x^{12} + 4x^7 + 4x^5 - 2x^4 + 2x^2 + 4x - 2$ | $x^{14} + 7x^{12} - 49x^{10} - 245x^8 + 49x^6 + 539x^4 + 343x^2 + 49$ | $\left[2, \frac{18}{7}, \frac{18}{7}, \frac{18}{7}, \frac{20}{7}, \frac{20}{7} \right]_7^3$ | T: 14, 29 | $\frac{157}{56}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{14} + 2x^{13} - 2x^{12} + 4x^{11} + 2x^{10} + 4x^9 - 2x^8 + 4x^7 + 2x^6 + 4x^5 + 4x^3 - 2x^2 + 4x + 2$ | $x^{14} + 14x^{12} - 14x^{10} - 238x^8 - 56x^6 + 560x^4 + 140x^2 + 4$ | $\left[2 \frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{621}{224}$ |
| $x^{14} + 2x^{13} + 2x^{12} + 2x^8 + 4x^7 + 4x^5 + 4x^4 + 2x^2 + 2$ | $x^{14} - 504x^{10} + 5670x^8 - 13608x^6 - 40824x^4 + 163296x^2 - 78732$ | $\left[2 \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{157}{56}$ |
| $x^{14} + 2x^{13} - 2x^{12} + 4x^{10} - 2x^4 + 2x^2 + 4x + 2$ | $x^{14} + 14x^{12} - 84x^{10} - 1736x^8 - 2016x^6 + 42336x^4 + 120960x^2 + 15552$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^6$ | T: 14,21 | $\frac{313}{112}$ |
| $x^{14} - 2x^{13} + 4x^{12} + 4x^{11} - 2x^{10} - 2x^8 + 4x^7 + 4x^5 + 2x^4 + 4x^3 + 2x^2 - 2$ | $x^{14} - 21x^{12} - 63x^{10} + 2457x^8 - 7371x^6 - 5103x^4 + 15309x^2 - 2187$ | $\left[2 \frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{621}{224}$ |
| $x^{14} + 2x^{13} - 2x^{12} + 4x^{11} + 4x^{10} + 4x^9 - 2x^8 + 2x^6 + 4x^5 + 2x^4 + 2x^3 + 4x^2 + 4x + 2$ | $x^{14} + 7x^{12} + 7x^{10} - 35x^8 - 49x^6 + 49x^4 + 49x^2 + 9$ | $\left[2 \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{157}{56}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|------------------|
| $x^{14} - 2x^{13} + 2x^{12} + 2x^{10} + 4x^9 - 2x^8 + 4x^5 + 4x^3 - 2x^2 - 2$ | $x^{14} - 21x^{12} - 441x^{10} + 6615x^8 + 3969x^6 - 130977x^4 + 250047x^2 - 107163$ | $\left[2 \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{157}{56}$ |
| $x^{14} - 2x^{13} + 4x^{12} + 4x^{11} + 2x^8 + 4x^5 + 2x^4 + 2x^2 + 4x + 2$ | $x^{14} - 21x^{12} + 21x^{10} + 441x^8 - 77x^6 - 665x^4 - 63x^2 + 1$ | $\left[2 \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{157}{56}$ |
| $x^{14} - 2x^{13} + 4x^{11} - 2x^{10} + 4x^9 + 4x^8 + 4x^7 - 2x^6 + 4x^5 + 2x^2 - 2$ | $x^{14} - 7x^{12} - 49x^{10} - 21x^8 + 133x^6 + 63x^4 - 63x^2 - 27$ | $\left[2 \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{157}{56}$ |
| $x^{14} + 2x^{13} + 4x^{12} + 4x^{10} + 4x^9 + 4x^8 + 4x^7 + 4x^6 + 4x^4 - 2x^2 + 2$ | $x^{14} - 21x^{12} + 63x^{10} + 945x^8 - 3969x^6 - 11907x^4 + 35721x^2 - 19683$ | $\left[2 \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{157}{56}$ |
| $x^{14} - 2x^{13} + 2x^{10} + 4x^9 - 2x^6 - 2x^2 + 2$ | $x^{14} - 21x^{12} + 119x^{10} - 35x^8 - 665x^6 - 455x^4 - 77x^2 - 1$ | $\left[\frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,6 | $\frac{73}{28}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{14} + 2x^{13} + 4x^{12} + 4x^{10} + 4x^8 - 2x^6 + 4x^5 - 2x^4 + 4x^3 + 4x^2 - 2$ | $x^{14} - 21x^{12} - 441x^{10} - 1701x^8 + 5103x^6 + 42525x^4 + 66339x^2 - 2187$ | $\left[2 \frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{621}{224}$ |
| $x^{14} - 2x^{13} + 4x^{12} - 2x^{10} + 4x^9 + 2x^8 + 2x^6 + 4x^5 + 4x^2 - 2$ | $x^{14} + 21x^{12} - 441x^{10} - 6615x^8 + 3969x^6 + 130977x^4 + 250047x^2 + 107163$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^6$ | T: 14,21 | $\frac{313}{112}$ |
| $x^{14} - 2x^{13} + 4x^{10} + 4x^8 + 4x^6 + 4x^5 + 2x^4 + 4x^3 + 4x + 2$ | $x^{14} - 42x^{12} + 12096x^8 - 966168x^4 - 2286144x^2 + 7873200$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^6$ | T: 14,21 | $\frac{313}{112}$ |
| $x^{14} + 2x^{13} + 4x^{12} + 4x^9 + 4x^7 + 2x^6 + 2x^4 + 4x^2 - 2$ | $x^{14} + 63x^{12} + 1071x^{10} + 945x^8 - 53865x^6 + 110565x^4 - 56133x^2 + 2187$ | $\left[\frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^6$ | T: 14,6 | $\frac{73}{28}$ |
| $x^{14} + 2x^{13} - 2x^{10} + 4x^9 + 4x^8 + 4x^5 + 4x + 2$ | $x^{14} + 7x^{12} - 7x^{10} - 91x^8 - 91x^6 + 21x^4 + 21x^2 + 1$ | $\left[2 \frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{621}{224}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|--------------------|
| $x^{14} + 2x^{13} - 2x^{12} + 4x^{11} + 2x^{10} + 4x^9 - 2x^8 + 2x^6 - 2x^4 + 2x^2 + 4x + 2$ | $x^{14} - 42x^{12} + 392x^{10} + 1736x^8 - 32256x^6 + 84168x^4 - 60480x^2 - 1296$ | $\left[\frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{20}{7} \quad \frac{20}{7} \right]_7^3$ | T: 14,21 | $\frac{313}{112}$ |
| $x^{14} - 2x^{13} + 4x^{12} + 4x^{11} + 4x^8 - 2x^4 + 4x^3 + 2x^2 - 2$ | $x^{14} + 42x^{12} + 378x^{10} - 1890x^8 - 15876x^6 + 40824x^4 + 122472x^2 - 218700$ | $\left[2 \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \right]_7^3$ | T: 14,9 | $\frac{75}{28}$ |
| $x^{14} + 2x^{13} - 2x^{12} + 4x^{11} + 4x^{10} + 4x^6 - 2x^4 + 4x^3 + 4x^2 + 2$ | $x^{14} - 21x^{12} + 35x^{10} + 1127x^8 - 4137x^6 - 6237x^4 + 10017x^2 + 9801$ | $\left[\frac{8}{7} \quad \frac{8}{7} \quad \frac{8}{7} \quad 2 \quad \frac{20}{7} \quad \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{1207}{448}$ |
| $x^{14} - 2x^{13} + 4x^{11} + 4x^7 + 2x^6 + 4x^5 - 2x^4 + 4x^3 + 4x^2 - 2$ | $x^{14} - 21x^{12} + 77x^{10} + 623x^8 - 4025x^6 + 6951x^4 - 3213x^2 - 27$ | $\left[2 \quad \frac{16}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad \frac{20}{7} \quad \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{621}{224}$ |
| $x^{14} + 2x^{13} + 2x^{12} + 4x^{11} + 2x^{10} + 4x^9 + 2x^8 + 4x^7 - 2x^6 + 4x^4 + 4x^3 + 2x^2 - 2$ | $x^{14} + 7x^{12} - 21x^{10} - 133x^8 + 63x^6 + 441x^4 + 189x^2 - 81$ | $\left[\frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{20}{7} \quad \frac{20}{7} \right]_7^3$ | T: 14,21 | $\frac{313}{112}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|--------------------|
| $x^{14} + 4x^{13} + 2x^{12} + 2x^{10} + 4x^8 + 4x^7 + 2x^6 + 4x^3 - 2x^2 + 4x - 2$ | $x^{14} - 126x^{10} - 308x^8 - 140x^6 + 84x^4 + 28x^2 + 2$ | $\left[\frac{12}{7} \frac{12}{7} \frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{3}{7} \right]^3$ | T: 14,29 | $\frac{1165}{448}$ |
| $x^{14} + 4x^{13} - 2x^{12} + 4x^{11} + 2x^{10} + 4x^8 + 4x^7 + 4x^6 + 4x^4 + 2x^2 + 2$ | $x^{14} + 70x^{12} + 1582x^{10} + 12068x^8 + 18228x^6 - 31752x^4 - 10584x^2 + 4536$ | $\left[\frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]^3$ | T: 14,29 | $\frac{1291}{448}$ |
| $x^{14} + 4x^{12} + 4x^{11} + 4x^9 + 2x^8 + 4x^7 + 4x^6 + 4x^5 + 4x^4 + 4x^3 + 4x^2 + 4x - 2$ | $x^{14} - 2800x^{10} - 63000x^8 - 175000x^6 + 1050000x^4 + 3500000x^2 + 2500000$ | $\left[\frac{8}{7} \frac{8}{7} \frac{8}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]^3$ | T: 14,29 | $\frac{1263}{448}$ |
| $x^{14} + 8x^{13} + 8x^{12} + 4x^{11} + 8x^9 + 8x^8 - 4x^7 + 8x^6 + 8x^5 + 6x^4 + 4x^2 + 4x - 6$ | $x^{14} + 42x^{12} + 126x^{10} - 9072x^8 - 63504x^6 + 459270x^4 + 4133430x^2 + 3188646$ | $\left[\frac{8}{7} \frac{8}{7} \frac{8}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]^3$ | T: 14,29 | $\frac{1263}{448}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{14} + 8x^{13} + 6x^{12} + 6x^{10} + 4x^9 + 8x^8 - 4x^7 - 4x^6 + 8x^5 + 8x^4 + 4x^3 + 6x^2 - 4x + 6$ | $x^{14} - 14x^{12} - 14x^{10} + 308x^8 + 882x^6 + 784x^4 + 196x^2 + 14$ | $\left[\begin{array}{ccc} \frac{12}{7} & \frac{12}{7} & \frac{18}{7} \\ \frac{18}{7} & \frac{18}{7} & \frac{18}{7} \\ \frac{12}{7} & \frac{18}{7} & \frac{3}{7} \end{array} \right]^3$ | T: 14,29 | $\frac{1221}{448}$ |
| $x^{14} - 4x^{13} - 6x^{12} + 8x^{11} - 4x^{10} + 4x^7 - 4x^6 + 4x^5 + 2x^4 - 4x^3 - 4x - 6$ | $x^{14} - 14x^{12} - 350x^{10} + 3920x^8 - 2940x^6 - 10080x^4 + 6048x^2 + 5832$ | $\left[\begin{array}{ccc} \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ \frac{18}{7} & \frac{20}{7} & \frac{3}{7} \end{array} \right]^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} - 4x^{13} + 4x^{12} + 4x^{11} - 4x^{10} + 8x^9 + 6x^8 - 6x^6 + 4x^5 + 2x^4 + 8x^3 - 6x^2 - 4x + 6$ | $x^{14} - 1750x^{10} + 7000x^8 + 700000x^6 - 7481250x^4 + 113906250$ | $\left[\begin{array}{ccc} \frac{16}{7} & \frac{16}{7} & \frac{16}{7} \\ \frac{16}{7} & \frac{16}{7} & \frac{3}{7} \\ \frac{16}{7} & \frac{16}{7} & \frac{3}{7} \end{array} \right]^3$ | T: 14,9 | $\frac{143}{56}$ |
| $x^{14} + 8x^{13} - 2x^{12} - 2x^{10} - 4x^9 + 2x^8 + 8x^7 + 2x^4 + 8x^3 - 2x^2 + 8x + 6$ | $x^{14} - 14x^{12} - 154x^{10} + 2464x^8 + 588x^6 - 64386x^4 + 44982x^2 + 1134$ | $\left[\begin{array}{ccc} \frac{8}{7} & \frac{8}{7} & \frac{20}{7} \\ \frac{8}{7} & \frac{8}{7} & \frac{20}{7} \\ \frac{8}{7} & \frac{20}{7} & \frac{3}{7} \end{array} \right]^3$ | T: 14,29 | $\frac{1263}{448}$ |
| $x^{14} + 4x^{13} - 2x^{12} + 2x^{10} + 4x^7 - 2x^6 - 2x^4 + 4x + 2$ | $x^{14} + 42x^{12} + 672x^{10} + 5110x^8 + 18942x^6 + 32634x^4 + 23058x^2 + 4050$ | $\left[\begin{array}{ccc} \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ \frac{18}{7} & \frac{20}{7} & \frac{3}{7} \end{array} \right]^3$ | T: 14,29 | $\frac{649}{224}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|--------------------|
| $x^{14} + 4x^{13} + 2x^{10} + 4x^8 + 4x^7 - 2x^4 + 4x^3 + 4x^2 + 4x - 2$ | $x^{14} + 42x^{12} - 882x^{10} - 29106x^8 + 341334x^6 + 23814x^4 - 500094x^2 + 214326$ | $\left[\begin{array}{ccc} \frac{18}{7} & \frac{18}{7} & \frac{18}{7} \\ \frac{20}{7} & \frac{20}{7} & \frac{20}{7} \\ \frac{3}{7} & \frac{3}{7} & \frac{3}{7} \end{array} \right]$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 4x^7 + 4x^5 + 2x^4 - 2x^2 - 2$ | $x^{14} + 14x^{12} - 154x^{10} + 84x^8 + 1232x^6 - 2352x^4 + 1008x^2 + 216$ | $\left[\begin{array}{ccc} \frac{8}{7} & \frac{8}{7} & \frac{20}{7} \\ \frac{12}{7} & \frac{12}{7} & \frac{20}{7} \\ \frac{3}{7} & \frac{3}{7} & \frac{3}{7} \end{array} \right]$ | T: 14,29 | $\frac{1263}{448}$ |
| $x^{14} + 4x^{13} - 2x^{10} + 4x^9 + 4x^8 + 4x^6 + 4x^4 + 4x^3 + 4x^2 - 2$ | $x^{14} - 532x^{10} - 3416x^8 + 33516x^6 + 236376x^4 + 201096x^2 + 40824$ | $\left[\begin{array}{ccc} \frac{12}{7} & \frac{12}{7} & \frac{18}{7} \\ \frac{12}{7} & \frac{12}{7} & \frac{18}{7} \\ \frac{3}{7} & \frac{3}{7} & \frac{3}{7} \end{array} \right]$ | T: 14,29 | $\frac{1221}{448}$ |
| $x^{14} - 4x^{12} + 8x^{11} - 6x^{10} - 4x^9 - 6x^8 + 4x^7 + 6x^6 - 4x^5 + 4x^4 + 4x^3 + 8x^2 + 8x + 6$ | $x^{14} + 14x^{12} + 392x^{10} + 4704x^8 - 44x^7 + 54768x^6 + 6160x^5 + 432544x^4 - 94864x^3 + 2430400x^2 + 224224x + 7419748$ | $\left[\begin{array}{c} 3 \\ 3 \end{array} \right]$ | T: 14,1 | $\frac{27}{14}$ |
| $x^{14} + 8x^{13} - 6x^{12} + 8x^{10} - 4x^9 - 4x^8 + 8x^7 - 2x^6 - 4x^5 + 6x^4 - 4x^2 + 6$ | $x^{14} - 12600x^{10} - 238000x^8 + 2730000x^6 + 34650000x^4 - 283500000x^2 + 202500000$ | $\left[\begin{array}{ccc} \frac{10}{7} & \frac{10}{7} & \frac{18}{7} \\ \frac{10}{7} & \frac{10}{7} & \frac{18}{7} \\ \frac{3}{7} & \frac{3}{7} & \frac{3}{7} \end{array} \right]$ | T: 14,29 | $\frac{607}{224}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|--------------------|
| $x^{14} + 4x^{13} + 4x^{12} + 4x^9 + 4x^8 + 4x^6 + 4x^5 + 2x^4 + 4x^3 + 2x^2 - 2$ | $x^{14} - 140x^{12} + 318500x^8 + 5906250x^6 + 11418750x^4 - 41343750x^2 + 12656250$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 4x^{13} - 4x^{12} + 4x^{10} + 2x^8 + 4x^7 + 4x^6 - 4x^5 + 4x^3 + 4x^2 - 4x - 6$ | $x^{14} - 504x^{10} - 378x^8 + 65772x^6 - 6804x^4 - 2480058x^2 + 2313846$ | $\left[\frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]^3$ | T: 14,9 | $\frac{157}{56}$ |
| $x^{14} + 8x^{13} - 2x^{12} + 8x^{11} + 8x^{10} + 4x^9 + 2x^8 + 4x^7 + 6x^6 - 4x^5 + 6x^2 + 4x - 6$ | $x^{14} + 14x^{12} - 140x^{10} - 1064x^8 + 9408x^6 - 7056x^4 - 42336x^2 + 18144$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{3}{7} \right]^3$ | T: 14,29 | $\frac{1221}{448}$ |
| $x^{14} + 4x^{12} + 4x^{11} + 2x^{10} + 4x^9 + 4x^7 + 4x^6 + 4x^5 + 2x^4 - 2x^2 + 4x + 2$ | $x^{14} - 28x^{12} - 238x^{10} + 938x^8 - 238x^6 - 798x^4 + 54$ | $\left[\frac{10}{7} \frac{10}{7} \frac{10}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{3}{7} \right]^3$ | T: 14,29 | $\frac{607}{224}$ |
| $x^{14} + 4x^{12} + 4x^{11} - 2x^{10} + 2x^8 + 4x^6 - 2x^4 + 4x + 2$ | $x^{14} - 14x^{12} - 140x^{10} + 2576x^8 - 7560x^6 - 3024x^4 + 6048x^2 + 2592$ | $\left[\frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]^3$ | T: 14,9 | $\frac{157}{56}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{14} - 2x^{12} + 8x^{11} - 4x^{10} + 2x^8 - 4x^7 - 4x^6 + 4x^5 + 4x + 6$ | $x^{14} - 70x^{12} - 5950x^{10} + 155750x^8 + 1863750x^6 - 1968750x^4 - 17718750x^2 + 12656250$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 4x^{12} + 4x^{11} - 4x^{10} + 8x^9 + 2x^8 + 8x^6 + 4x^5 - 4x^4 + 6x^2 - 4x - 6$ | $x^{14} + 42x^{12} + 1288x^{10} + 25760x^8 - 44x^7 + 378224x^6 + 9856x^5 + 3901408x^4 - 218064x^3 + 26367936x^2 + 692384x + 90963044$ | $\left[3 \right]_7^3$ | T: 14,1 | $\frac{27}{14}$ |
| $x^{14} + 4x^{11} - 2x^{10} + 4x^9 - 2x^8 + 4x^7 + 4x^5 + 4x^3 - 2$ | $x^{14} - 14x^{12} - 84x^{10} + 504x^8 + 784x^6 - 2352x^4 - 1568x^2 + 2016$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{3}{7} \right]_7^3$ | T: 14,9 | $\frac{75}{28}$ |
| $x^{14} + 4x^{12} + 4x^{10} + 2x^8 + 2x^6 + 4x^5 - 2x^2 + 4x - 2$ | $x^{14} + 42x^{12} + 56x^{10} - 1358x^8 + 3486x^6 - 3150x^4 + 756x^2 + 162$ | $\left[\frac{10}{7} \frac{10}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{3}{7} \right]_7^3$ | T: 14,29 | $\frac{607}{224}$ |
| $x^{14} + 4x^{13} + 2x^{12} + 4x^{11} + 2x^{10} + 2x^8 + 4x^5 + 2x^4 + 4x^3 - 2x^2 - 2$ | $x^{14} - 882x^{10} - 10584x^8 - 6804x^6 + 217728x^4 + 163296x^2 + 17496$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| Continued on next page | | | | |

Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|--------------------|
| $x^{14} + 4x^{13} + 4x^{11} - 2x^{10} + 4x^8 + 4x^7 + 4x^5 + 4x^4 + 4x^3 + 4x^2 + 4x - 2$ | $x^{14} - 42x^{12} + 10584x^8 - 31752x^6 - 571536x^4 + 3429216$ | $\left[\begin{matrix} 20 & 20 & 20 \\ 7 & 7 & 7 \end{matrix} \right]_7^3$ | T: 14,9 | $\frac{157}{56}$ |
| $x^{14} + 8x^{13} - 4x^{12} + 4x^{11} + 6x^{10} + 8x^9 + 6x^8 - 4x^6 + 4x^3 - 6$ | $x^{14} + 42x^{12} + 602x^{10} + 2800x^8 - 6174x^6 - 58842x^4 + 3780x^2 + 486$ | $\left[\begin{matrix} 10 & 10 & 18 & 18 \\ 7 & 7 & 7 & 7 \end{matrix} \right]_7^3$ | T: 14,29 | $\frac{607}{224}$ |
| $x^{14} + 4x^{13} - 4x^{11} - 4x^{10} - 6x^8 + 4x^7 - 4x^6 + 4x^5 + 8x^4 - 4x^3 - 6x^2 - 6$ | $x^{14} - 28x^{12} + 98x^{10} + 2660x^8 - 15876x^6 - 31752x^4 + 21168x^2 + 4536$ | $\left[\begin{matrix} 18 & 18 & 20 & 20 \\ 7 & 7 & 7 & 7 \end{matrix} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} - 4x^{13} + 4x^{11} + 4x^{10} - 6x^8 + 4x^5 + 8x^3 - 6$ | $x^{14} - 14x^{12} - 84x^{10} + 1652x^8 - 5040x^6 + 3024x^2 + 648$ | $\left[\begin{matrix} 10 & 10 & 16 & 16 \\ 7 & 7 & 7 & 7 \end{matrix} \right]_7^3$ | T: 14,29 | $\frac{579}{224}$ |
| $x^{14} + 2x^{12} + 4x^{10} + 4x^9 + 4x^7 + 4x^6 + 4x^5 - 2x^4 + 4x + 2$ | $x^{14} - 364x^{10} - 448x^8 + 32928x^6 + 82026x^4 + 35154x^2 + 162$ | $\left[\begin{matrix} 16 & 16 & 20 & 20 \\ 7 & 7 & 7 & 7 \end{matrix} \right]_7^3$ | T: 14,29 | $\frac{1291}{448}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{14} + 4x^{13} + 2x^{12} + 4x^{11} + 4x^{10} + 4x^8 + 4x^5 + 4x^4 + 4x^3 - 2x^2 + 2$ | $x^{14} + 14x^{12} - 140x^{10} - 2338x^8 - 5194x^6 + 7742x^4 + 4018x^2 + 126$ | $\left[\frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{3}{7} \right]^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 8x^{13} + 6x^{12} + 8x^{11} - 6x^{10} + 6x^8 - 6x^6 + 4x^5 + 2x^4 + 4x^3 - 4x^2 + 8x - 6$ | $x^{14} + 14x^{12} + 14x^{10} - 490x^8 - 1792x^6 - 84x^4 + 3276x^2 + 54$ | $\left[\frac{10}{7} \quad \frac{10}{7} \quad \frac{10}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad \frac{3}{7} \right]^3$ | T: 14,29 | $\frac{579}{224}$ |
| $x^{14} + 4x^{13} - 2x^{12} + 8x^{10} - 4x^9 - 4x^8 - 4x^7 + 2x^6 + 4x^5 - 6x^4 + 4x^3 + 2x^2 + 4x + 6$ | $x^{14} - 98x^{10} + 294x^8 + 518x^6 - 336x^4 + 28x^2 + 2$ | $\left[\frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{3}{7} \right]^3$ | T: 14,9 | $\frac{75}{28}$ |
| $x^{14} + 4x^{13} + 4x^{12} + 4x^{11} + 4x^9 - 2x^8 + 4x^7 + 4x^6 + 2x^4 - 2$ | $x^{14} + 210x^{12} + 7700x^{10} + 45500x^8 - 1417500x^6 - 17325000x^4 - 23625000x^2 + 113906250$ | $\left[\frac{8}{7} \quad \frac{8}{7} \quad \frac{8}{7} \quad \frac{10}{7} \quad \frac{10}{7} \quad \frac{10}{7} \quad \frac{3}{7} \right]^3$ | T: 14,29 | $\frac{983}{448}$ |
| Continued on next page | | | | |

Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|--------------------|
| $x^{14} - 4x^{13} - 6x^{12} - 4x^{11} + 2x^{10} - 4x^9 + 4x^8 + 4x^6 + 6x^4 + 8x^3 - 2x^2 - 6$ | $x^{14} + 70x^{12} + 350x^{10} - 42000x^8 - 490000x^6 + 5906250x^4 + 88593750x^2 + 113906250$ | $\left[\begin{matrix} \frac{8}{7} & \frac{8}{7} & \frac{20}{7} \\ \frac{8}{7} & \frac{20}{7} & \frac{20}{7} \\ \frac{20}{7} & \frac{20}{7} & 3 \end{matrix} \right]_7^3$ | T: 14,29 | $\frac{1263}{448}$ |
| $x^{14} + 4x^{13} - 2x^{12} + 4x^{11} + 4x^{10} + 4x^8 + 4x^7 - 2x^4 + 4x^3 + 2$ | $x^{14} - 70x^{12} + 49000x^8 - 7350000x^4 + 122500000$ | $\left[\begin{matrix} \frac{18}{7} & \frac{18}{7} & \frac{18}{7} \\ \frac{18}{7} & \frac{18}{7} & 3 \\ \frac{18}{7} & 3 & 3 \end{matrix} \right]_7^3$ | T: 14,9 | $\frac{75}{28}$ |
| $x^{14} + 4x^{11} - 2x^{10} + 4x^9 + 4x^8 + 4x^7 + 4x^6 + 4x^4 + 4x^3 + 4x^2 + 2$ | $x^{14} - 98x^{10} - 84x^8 + 1274x^6 + 882x^4 + 196x^2 + 14$ | $\left[\begin{matrix} \frac{12}{7} & \frac{12}{7} & \frac{12}{7} \\ \frac{12}{7} & \frac{18}{7} & \frac{18}{7} \\ \frac{12}{7} & \frac{18}{7} & 3 \end{matrix} \right]_7^3$ | T: 14,29 | $\frac{1221}{448}$ |
| $x^{14} + 4x^{13} - 2x^{12} + 2x^{10} + 4x^8 + 4x^7 + 4x^3 + 4x^2 + 4x + 2$ | $x^{14} + 70x^{12} - 700x^{10} - 91000x^8 - 910000x^6 + 2100000x^4 + 21000000x^2 + 10000000$ | $\left[\begin{matrix} \frac{16}{7} & \frac{16}{7} & \frac{16}{7} \\ \frac{16}{7} & \frac{20}{7} & \frac{20}{7} \\ \frac{16}{7} & \frac{20}{7} & 3 \end{matrix} \right]_7^3$ | T: 14,29 | $\frac{1291}{448}$ |
| $x^{14} - 4x^{13} + 8x^{11} + 2x^{10} + 8x^9 + 2x^8 + 4x^5 - 2x^4 + 4x^2 + 4x + 6$ | $x^{14} + 14x^{12} - 126x^{10} - 2828x^8 - 11172x^6 + 17640x^4 + 137592x^2 + 113400$ | $\left[\begin{matrix} \frac{16}{7} & \frac{16}{7} & \frac{16}{7} \\ \frac{16}{7} & \frac{20}{7} & \frac{20}{7} \\ \frac{16}{7} & \frac{20}{7} & 3 \end{matrix} \right]_7^3$ | T: 14,29 | $\frac{1291}{448}$ |
| Continued on next page | | | | |

Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|--------------------|
| $x^{14} + 4x^{13} + 4x^{11} - 6x^{10} + 4x^9 - 2x^8 - 4x^5 + 8x^4 + 8x^3 + 8x - 6$ | $x^{14} - 84x^{10} - 154x^8 + 784x^6 - 28x^2 + 2$ | $\left[\frac{12}{7} \quad \frac{12}{7} \quad \frac{12}{7} \quad 3 \right]_7^3$ | T: 14,9 | $\frac{129}{56}$ |
| $x^{14} + 2x^{12} + 4x^{11} + 4x^9 + 4x^6 - 2x^4 + 4x^3 - 2x^2 + 2$ | $x^{14} + 210x^{12} + 11900x^{10} + 124250x^8 - 4698750x^6 - 55125000x^4 + 691031250x^2 + 316406250$ | $\left[\frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad 3 \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 4x^{11} + 2x^{10} + 4x^9 + 2x^8 - 2x^6 + 2x^4 - 2x^2 - 2$ | $x^{14} - 126x^{10} - 182x^8 + 2450x^6 + 490x^4 - 8918x^2 + 5054$ | $\left[\frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad 3 \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} - 4x^{13} + 6x^{12} + 8x^{11} - 4x^8 + 4x^7 + 4x^6 + 4x^5 + 4x^4 - 6x^2 + 8x - 6$ | $x^{14} + 28x^{12} - 14x^{10} - 476x^8 + 196x^6 + 784x^4 + 392x^2 + 56$ | $\left[\frac{16}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad 3 \right]_7^3$ | T: 14,29 | $\frac{1291}{448}$ |
| $x^{14} + 4x^{13} - 2x^{12} + 8x^{11} + 6x^{10} + 4x^9 + 6x^8 - 6x^6 + 4x^5 - 2x^4 + 8x^3 - 4x^2 + 6$ | $x^{14} - 70x^{12} + 700x^{10} + 14000x^8 - 113750x^6 - 1093750x^4 - 437500x^2 + 156250$ | $\left[\frac{12}{7} \quad \frac{12}{7} \quad \frac{12}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad 3 \right]_7^3$ | T: 14,29 | $\frac{1221}{448}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{14} + 8x^{13} + 4x^{12} + 8x^{11} + 4x^{10} + 4x^8 + 4x^7 + 4x^6 + 8x^4 + 4x^3 + 2x^2 + 4x - 6$ | $x^{14} + 28x^{12} + 252x^{10} + 840x^8 + 854x^6 + 350x^4 + 56x^2 + 2$ | $\left[\frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad 3 \right]_7^3$ | T: 14,9 | $\frac{75}{28}$ |
| $x^{14} + 4x^{13} - 2x^{12} + 8x^{11} + 4x^{10} - 4x^9 + 4x^8 + 4x^7 - 6x^6 + 4x^5 + 4x^3 - 2x^2 + 4x + 6$ | $x^{14} + 42x^{12} + 476x^{10} + 196x^8 - 14700x^6 - 55440x^4 - 57456x^2 + 648$ | $\left[\frac{10}{7} \quad \frac{10}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad 3 \right]_7^3$ | T: 14,29 | $\frac{579}{224}$ |
| $x^{14} + 8x^{13} - 2x^{12} - 4x^{11} - 6x^{10} - 4x^9 + 8x^8 + 8x^6 + 8x^5 + 8x^4 + 4x^3 - 6x^2 - 4x - 6$ | $x^{14} - 756x^{10} - 756x^8 + 131544x^6 + 489888x^4 + 285768x^2 + 17496$ | $\left[\frac{12}{7} \quad \frac{12}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad 3 \right]_7^3$ | T: 14,29 | $\frac{1221}{448}$ |
| $x^{14} - 4x^{11} + 8x^9 + 8x^8 + 4x^7 - 6x^6 + 6x^4 + 4x^2 - 4x - 6$ | $x^{14} - 70x^{12} - 8750x^{10} + 490000x^8 - 1837500x^6 - 31500000x^4 + 94500000x^2 + 455625000$ | $\left[\frac{18}{7} \quad \frac{18}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad 3 \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{14} - 4x^{13} - 2x^{12} + 8x^{11} + 6x^{10} + 4x^5 - 2x^4 + 8x^3 + 4x^2 + 4x + 6$ | $x^{14} + 14x^{12} - 154x^{10} - 1932x^8 + 5488x^6 + 33096x^4 - 99792x^2 + 62424$ | $\left[\frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad 3 \right]_7^3$ | T: 14,9 | $\frac{157}{56}$ |
| $x^{14} - 2x^{12} + 4x^{11} - 6x^{10} - 4x^9 + 4x^8 + 4x^7 - 4x^6 + 2x^4 - 4x^3 - 6x^2 + 4x + 6$ | $x^{14} - 70x^{12} + 1050x^{10} + 12250x^8 - 245000x^6 - 262500x^4 + 2625000x^2 + 3906250$ | $\left[\frac{16}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad 3 \right]_7^3$ | T: 14,9 | $\frac{143}{56}$ |
| $x^{14} + 4x^{13} - 6x^{12} - 2x^8 - 4x^7 - 4x^6 - 4x^5 + 2x^4 + 8x^3 + 4x^2 + 8x + 6$ | $x^{14} + 14x^{12} - 42x^{10} - 686x^8 + 840x^6 + 7812x^4 - 12096x^2 + 4374$ | $\left[\frac{10}{7} \quad \frac{10}{7} \quad \frac{10}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad 3 \right]_7^3$ | T: 14,29 | $\frac{579}{224}$ |
| $x^{14} + 4x^{13} + 4x^{12} + 2x^{10} + 4x^9 + 2x^8 + 2x^6 + 4x^5 + 2x^4 + 4x^3 + 4x^2 + 2$ | $x^{14} + 14x^{12} + 42x^{10} - 182x^8 - 1176x^6 - 1764x^4 + 1134$ | $\left[\frac{10}{7} \quad \frac{10}{7} \quad \frac{10}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad 3 \right]_7^3$ | T: 14,29 | $\frac{579}{224}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|--------------------|
| $x^{14} - 4x^{13} - 4x^{12} + 8x^{11} - 2x^{10} + 4x^9 + 4x^8 - 4x^7 - 6x^6 - 4x^5 - 4x^3 + 4x^2 + 8x + 6$ | $x^{14} - 42x^{12} + 392x^{10} + 896x^8 - 5376x^6 - 4536x^4 + 12096x^2 + 5832$ | $\left[\begin{array}{ccc} \frac{12}{7} & \frac{12}{7} & 3 \\ \frac{12}{7} & \frac{12}{7} & 3 \end{array} \right]_7^3$ | T: 14,9 | $\frac{129}{56}$ |
| $x^{14} - 4x^{13} - 6x^{12} + 8x^{11} - 4x^{10} + 4x^9 - 2x^8 - 4x^7 + 2x^6 + 4x^5 - 2x^4 - 6$ | $x^{14} + 28x^{12} + 196x^{10} - 448x^8 - 7980x^6 - 22680x^4 - 16632x^2 + 5832$ | $\left[\begin{array}{ccc} \frac{10}{7} & \frac{10}{7} & \frac{18}{7} \\ \frac{10}{7} & \frac{18}{7} & \frac{18}{7} \\ \frac{10}{7} & \frac{10}{7} & \frac{18}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{607}{224}$ |
| $x^{14} + 4x^{13} + 4x^{12} + 4x^9 + 4x^6 + 2x^4 + 4x^3 - 2x^2 + 4x + 2$ | $x^{14} - 28x^{10} + 224x^6 - 448x^2 + 32$ | $\left[\begin{array}{ccc} \frac{8}{7} & \frac{8}{7} & \frac{12}{7} \\ \frac{8}{7} & \frac{12}{7} & \frac{12}{7} \\ \frac{8}{7} & \frac{12}{7} & \frac{12}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1039}{448}$ |
| $x^{14} + 6x^{12} - 4x^{11} + 4x^{10} - 4x^9 + 2x^8 - 4x^7 - 6x^6 + 4x^5 - 6x^4 + 4x^3 - 4x^2 + 4x + 6$ | $x^{14} - 70x^{12} - 3150x^{10} + 154000x^8 + 1260000x^6 - 42525000x^4 + 189000000x^2 + 50625000$ | $\left[\begin{array}{ccc} \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \\ \frac{16}{7} & \frac{20}{7} & \frac{20}{7} \\ \frac{16}{7} & \frac{20}{7} & \frac{20}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1291}{448}$ |
| $x^{14} + 4x^{13} - 6x^{12} - 6x^{10} + 8x^9 - 2x^8 + 6x^6 + 4x^5 + 4x^4 - 4x^3 - 2x^2 + 8x - 6$ | $x^{14} - 14x^{12} - 154x^{10} + 448x^8 + 1596x^6 - 504x^4 - 1512x^2 + 648$ | $\left[\begin{array}{ccc} \frac{8}{7} & \frac{8}{7} & \frac{20}{7} \\ \frac{8}{7} & \frac{20}{7} & \frac{20}{7} \\ \frac{8}{7} & \frac{20}{7} & \frac{20}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1263}{448}$ |
| Continued on next page | | | | |

Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|--------------------|
| $x^{14} + 4x^{12} + 8x^{10} - 4x^8 + 4x^7 - 4x^5 + 6x^4 + 8x^2 + 8x + 6$ | $x^{14} - 1134x^{10} - 8316x^8 - 11340x^6 + 20412x^4 + 20412x^2 + 4374$ | $\left[\begin{array}{ccc} \frac{12}{7} & \frac{12}{7} & \frac{16}{7} \\ \frac{16}{7} & \frac{16}{7} & \frac{16}{7} \\ \frac{16}{7} & \frac{16}{7} & \frac{16}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1165}{448}$ |
| $x^{14} + 4x^{13} - 2x^{10} + 4x^8 + 4x^7 - 2x^6 + 4x^5 - 2x^4 + 2x^2 + 4x + 2$ | $x^{14} - 8050x^{10} - 103250x^8 + 7245000x^6 + 121668750x^4 + 129937500x^2 + 12656250$ | $\left[\begin{array}{ccc} \frac{12}{7} & \frac{12}{7} & \frac{16}{7} \\ \frac{16}{7} & \frac{16}{7} & \frac{16}{7} \\ \frac{16}{7} & \frac{16}{7} & \frac{16}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1165}{448}$ |
| $x^{14} + 4x^{13} - 4x^{12} + 8x^{11} + 2x^{10} + 4x^9 + 8x^8 + 8x^7 - 6x^6 - 2x^4 + 4x^3 + 6x^2 - 6$ | $x^{14} - 9100x^{10} - 56000x^8 + 20580000x^6 + 256331250x^4 + 549281250x^2 + 12656250$ | $\left[\begin{array}{ccc} \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \\ \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \\ \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1291}{448}$ |
| $x^{14} + 4x^{12} + 4x^{11} - 2x^{10} + 4x^8 + 4x^7 + 4x^5 + 2x^4 + 2x^2 + 2$ | $x^{14} + 70x^{12} - 2100x^{10} - 119000x^8 - 787500x^6 - 1356250x^4 + 218750x^2 + 1406250$ | $\left[\begin{array}{ccc} \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \\ \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \\ \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1291}{448}$ |
| $x^{14} + 4x^{13} - 2x^{12} + 4x^{11} + 4x^{10} + 2x^8 + 4x^7 - 2x^6 + 4x^5 + 2x^4 + 4x^3 + 4x^2 + 2$ | $x^{14} - 84x^{10} + 140x^8 + 784x^6 - 28x^2 + 2$ | $\left[\begin{array}{ccc} \frac{8}{7} & \frac{8}{7} & \frac{8}{7} \\ \frac{8}{7} & \frac{8}{7} & \frac{8}{7} \\ \frac{8}{7} & \frac{8}{7} & \frac{8}{7} \end{array} \right]_7^3$ | T: 14,9 | $\frac{115}{56}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|--------------------|
| $x^{14} + 2x^{10} + 2x^6 + 4x^5 - 2x^4 + 4x^3 + 4x - 2$ | $x^{14} - 140x^{10} - 896x^8 - 1624x^6 + 336x^4 + 2016x^2 + 864$ | $\left[\begin{array}{ccc} \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \\ & \frac{20}{7} & \frac{20}{7} \\ & & \frac{3}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1291}{448}$ |
| $x^{14} + 8x^{13} - 2x^{12} + 4x^{11} - 6x^{10} + 4x^9 - 4x^8 + 4x^7 + 4x^6 - 4x^5 + 2x^4 - 4x^3 + 6x^2 + 6$ | $x^{14} + 42x^{12} + 504x^{10} + 378x^8 - 28350x^6 - 156492x^4 - 193914x^2 + 4374$ | $\left[\begin{array}{ccc} \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ & \frac{18}{7} & \frac{20}{7} \\ & & \frac{3}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 4x^{13} - 2x^{12} + 4x^{11} + 2x^{10} + 4x^8 - 2x^6 - 2x^4 + 4x + 2$ | $x^{14} - 882x^{10} - 11340x^8 - 47628x^6 - 54432x^4 + 81648x^2 + 157464$ | $\left[\begin{array}{ccc} \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ & \frac{18}{7} & \frac{20}{7} \\ & & \frac{3}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 2x^{10} + 4x^8 + 4x^7 + 4x^6 + 2x^4 + 4x^3 + 2x^2 + 2$ | $x^{14} - 28x^{12} - 154x^{10} + 3836x^8 - 11760x^6 - 14112x^4 + 52920x^2 + 40824$ | $\left[\begin{array}{ccc} \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ & \frac{18}{7} & \frac{20}{7} \\ & & \frac{3}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 4x^{13} - 2x^{12} + 4x^{11} + 8x^{10} - 4x^9 + 4x^8 - 4x^7 + 4x^6 + 8x^5 + 8x^4 - 4x^3 + 6x^2 + 6$ | $x^{14} - 42x^{12} - 28x^{10} + 6776x^8 - 16464x^6 - 127008x^4 - 84672x^2 + 72576$ | $\left[\begin{array}{ccc} \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ & \frac{18}{7} & \frac{20}{7} \\ & & \frac{3}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|--------------------|
| $x^{14} - 4x^{13} - 2x^{12} - 4x^{11} + 2x^{10} - 4x^9 + 2x^8 + 8x^7 - 2x^6 - 6x^4 + 4x^3 + 8x^2 + 8x + 6$ | $x^{14} + 28x^{12} + 56x^{10} - 2744x^8 - 9856x^6 + 63168x^4 + 124992x^2 + 864$ | $\left[\begin{array}{ccc} \frac{8}{7} & \frac{8}{7} & \frac{12}{7} \\ \frac{16}{7} & \frac{16}{7} & \frac{12}{7} \\ & & \frac{3}{7} \end{array} \right]^3$ | T: 14,29 | $\frac{1039}{448}$ |
| $x^{14} - 2x^{12} + 4x^{10} + 4x^9 + 6x^8 + 8x^7 + 8x^5 + 2x^4 + 6x^2 + 6$ | $x^{14} - 14x^{12} - 42x^{10} + 616x^8 + 1288x^6 - 336x^4 - 1008x^2 + 216$ | $\left[\begin{array}{ccc} \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \\ \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \\ & & \frac{3}{7} \end{array} \right]^3$ | T: 14,29 | $\frac{1291}{448}$ |
| $x^{14} + 8x^{12} + 8x^{10} + 4x^9 + 4x^8 - 4x^7 - 6x^6 - 4x^5 + 8x^4 - 6x^2 + 8x - 6$ | $x^{14} + 42x^{12} + 630x^{10} + 4522x^8 + 16758x^6 + 31752x^4 + 29106x^2 + 10206$ | $\left[\begin{array}{ccc} \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ & & \frac{3}{7} \end{array} \right]^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 4x^{12} - 2x^{10} + 4x^9 + 4x^7 - 2x^6 + 4x^5 + 2x^4 + 4x^3 + 4x^2 + 2$ | $x^{14} - 42x^{12} - 196x^{10} + 14812x^8 - 5880x^6 - 1220688x^4 + 359856x^2 + 4536$ | $\left[\begin{array}{ccc} \frac{12}{7} & \frac{12}{7} & \frac{16}{7} \\ \frac{12}{7} & \frac{12}{7} & \frac{16}{7} \\ & & \frac{3}{7} \end{array} \right]^3$ | T: 14,29 | $\frac{1165}{448}$ |
| $x^{14} + 4x^{13} + 2x^{12} + 4x^{11} + 4x^{10} + 4x^8 + 4x^7 + 4x^5 + 4x^3 + 4x^2 + 2$ | $x^{14} + 14x^{12} - 84x^{10} - 952x^8 - 1260x^6 - 434x^4 + 14x^2 + 18$ | $\left[\begin{array}{ccc} \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \\ \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \\ & & \frac{3}{7} \end{array} \right]^3$ | T: 14,29 | $\frac{1291}{448}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|--------------------|
| $x^{14} + 2x^{12} + 2x^{10} + 4x^9 - 2x^8 + 4x^5 + 2x^4 + 2$ | $x^{14} - 42x^{12} + 392x^{10} + 1190x^8 - 3528x^6 - 2646x^4 + 5292x^2 + 1134$ | $\left[\begin{array}{ccc} \frac{10}{7} & \frac{10}{7} & 3 \\ & \frac{10}{7} & 3 \\ & & 3 \end{array} \right]_7^3$ | T: 14,9 | $\frac{61}{28}$ |
| $x^{14} + 4x^{12} + 2x^{10} + 4x^6 + 4x^3 + 4x - 2$ | $x^{14} + 14x^{12} - 280x^{10} - 4872x^8 - 14168x^6 - 9114x^4 + 1890x^2 + 54$ | $\left[\begin{array}{ccc} \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \\ \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \\ & \frac{20}{7} & 3 \end{array} \right]_7^3$ | T: 14,29 | $\frac{1291}{448}$ |
| $x^{14} + 8x^{13} - 4x^{12} + 8x^{11} + 8x^{10} + 4x^9 + 2x^8 + 4x^7 + 4x^6 + 8x^5 + 4x^2 - 4x - 6$ | $x^{14} - 14x^{12} + 490x^8 - 98x^6 - 5586x^4 - 6174x^2 + 2646$ | $\left[\begin{array}{ccc} \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ & \frac{20}{7} & 3 \end{array} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 4x^{12} + 4x^{11} + 2x^{10} + 4x^9 + 2x^8 + 4x^7 + 2x^6 + 4x^5 + 4x^4 + 4x^3 - 2x^2 - 2$ | $x^{14} - 70x^{12} - 3500x^{10} + 322000x^8 - 4725000x^6 - 9450000x^4 + 94500000x^2 + 202500000$ | $\left[\begin{array}{ccc} \frac{20}{7} & \frac{20}{7} & 3 \\ & \frac{20}{7} & 3 \\ & & 3 \end{array} \right]_7^3$ | T: 14,9 | $\frac{157}{56}$ |
| $x^{14} + 2x^{10} + 4x^9 - 2x^8 - 2x^4 + 4x^3 + 4x - 2$ | $x^{14} - 70x^{12} - 2100x^{10} + 133000x^8 + 630000x^6 - 44100000x^4 + 189000000x^2 + 810000000$ | $\left[\begin{array}{ccc} \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ & \frac{20}{7} & 3 \end{array} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|--------------------|
| $x^{14} + 4x^{13} - 4x^{12} + 4x^{11} + 6x^{10} + 4x^9 + 6x^8 + 2x^6 + 8x^5 - 2x^4 + 4x^3 + 2x^2 - 4x - 6$ | $x^{14} - 14x^{12} + 392x^8 - 294x^6 - 588x^4 + 98$ | $\left[\frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad 3 \right]_7^3$ | T: 14,9 | $\frac{75}{28}$ |
| $x^{14} + 4x^{10} - 2x^8 + 4x^5 + 4x^4 + 4x^3 - 2$ | $x^{14} - 2450x^{10} + 36750x^8 + 323750x^6 - 1050000x^4 + 437500x^2 + 156250$ | $\left[\frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad 3 \right]_7^3$ | T: 14,9 | $\frac{75}{28}$ |
| $x^{14} - 2x^{12} + 4x^{11} - 2x^{10} + 4x^7 + 4x^5 + 4x^3 + 2x^2 + 4x - 2$ | $x^{14} - 14x^{12} + 28x^{10} + 112x^8 - 182x^6 - 350x^4 - 28x^2 + 2$ | $\left[\frac{12}{7} \quad \frac{12}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad 3 \right]_7^3$ | T: 14,29 | $\frac{1221}{448}$ |
| $x^{14} - 6x^{12} + 4x^9 + 2x^8 + 6x^6 + 8x^5 + 4x^4 + 4x^3 + 4x^2 - 4x - 6$ | $x^{14} - 448x^{10} + 1582x^8 + 11466x^6 - 6174x^4 - 2646x^2 + 1134$ | $\left[\frac{18}{7} \quad \frac{18}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad 3 \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 4x^{13} - 4x^{11} - 6x^{10} + 8x^9 - 4x^8 - 4x^7 + 2x^6 - 2x^4 - 4x^3 + 8x^2 - 4x + 6$ | $x^{14} + 28x^{12} - 28x^{10} - 1568x^8 + 6216x^6 - 7056x^4 + 2592$ | $\left[\frac{8}{7} \quad \frac{8}{7} \quad \frac{8}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad 3 \right]_7^3$ | T: 14,29 | $\frac{1263}{448}$ |
| $x^{14} + 4x^{13} + 2x^{10} + 4x^9 + 4x^8 + 4x^7 + 4x^6 + 4x^5 + 4x^4 + 4x^3 + 2$ | $x^{14} - 28x^{12} + 784x^8 - 5488x^4 + 10976$ | $\left[\frac{12}{7} \quad \frac{12}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad 3 \right]_7^3$ | T: 14,29 | $\frac{1221}{448}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|--------------------|
| $x^{14} - 4x^{13} + 4x^{11} - 2x^{10} - 4x^9 - 4x^8 - 4x^7 + 4x^5 - 4x^4 - 4x^3 + 8x^2 + 6$ | $x^{14} + 14x^{12} - 448x^{10} - 5068x^8 - 3780x^6 + 13608x^4 + 10584x^2 + 648$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{3}{7} \right]^3$ | T: 14,29 | $\frac{1221}{448}$ |
| $x^{14} - 2x^{12} + 4x^{11} + 2x^{10} + 4x^9 + 4x^5 + 2$ | $x^{14} - 2100x^{10} - 19250x^8 + 490000x^6 - 437500x^2 + 156250$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{3}{7} \right]^3$ | T: 14,9 | $\frac{129}{56}$ |
| $x^{14} + 4x^{13} + 4x^9 + 4x^8 - 2x^6 + 4x^5 - 2x^4 + 2x^2 + 2$ | $x^{14} - 14x^{12} - 238x^{10} + 1848x^8 + 12964x^6 + 4872x^4 - 18144x^2 + 5400$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 8x^{13} - 2x^{12} + 4x^{11} + 4x^{10} - 2x^8 - 4x^7 + 4x^6 + 4x^5 + 6x^4 + 4x^3 + 4x^2 + 8x - 6$ | $x^{14} + 210x^{12} + 1400x^{10} - 169750x^8 + 2178750x^6 - 9843750x^4 + 11812500x^2 + 12656250$ | $\left[\frac{10}{7} \frac{10}{7} \frac{10}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{3}{7} \right]^3$ | T: 14,29 | $\frac{607}{224}$ |
| $x^{14} + 4x^{13} + 2x^{12} + 4x^{11} + 4x^{10} + 2x^8 + 2x^2 + 4x + 2$ | $x^{14} - 1750x^{10} - 7000x^8 + 612500x^6 + 5512500x^4 + 14875000x^2 + 12656250$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{3}{7} \right]^3$ | T: 14,29 | $\frac{1165}{448}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{14} - 4x^9 + 8x^6 + 4x^5 + 4x^4 + 4x^3 + 6x^2 + 8x + 6$ | $x^{14} - 70x^{12} - 7350x^{10} + 463750x^8 - 4121250x^6 - 7087500x^4 + 17718750x^2 + 12656250$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 4x^{12} + 8x^{11} + 6x^{10} - 4x^9 + 8x^8 + 8x^7 + 2x^6 - 4x^5 + 2x^4 + 8x^3 + 4x + 6$ | $x^{14} + 42x^{12} - 504x^{10} - 19278x^8 + 171234x^6 - 231336x^4 - 295974x^2 + 354294$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 4x^{13} + 4x^{12} + 4x^{10} + 4x^9 - 2x^8 + 4x^7 + 2x^6 + 2x^4 - 2x^2 + 2$ | $x^{14} - 378x^{10} - 1512x^8 + 14742x^6 - 13608x^4 - 10206x^2 + 4374$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 4x^{13} + 4x^{12} + 4x^{11} + 4x^9 + 4x^8 + 4x^7 - 2x^6 - 2x^4 + 4x^3 - 2$ | $x^{14} - 630x^{10} + 1512x^8 + 90720x^6 - 581742x^4 + 3188646$ | $\left[\frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{3}{7} \right]_7^3$ | T: 14,9 | $\frac{143}{56}$ |
| $x^{14} + 4x^{13} + 2x^{12} + 2x^{10} + 4x^9 - 2x^8 + 2x^6 + 4x^5 - 2x^2 - 2$ | $x^{14} + 14x^{12} - 14x^{10} - 280x^8 - 588x^6 - 392x^4 + 56$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|--------------------|
| $x^{14} + 4x^{13} + 4x^{12} + 4x^{11} +$ $6x^{10} - 4x^9 - 2x^8 + 4x^7 + 2x^4 +$ $8x^3 + 4x + 6$ | $x^{14} - 70x^{12} + 49000x^8 - 245000x^6 -$ $7350000x^4 + 122500000$ | $\left[\begin{array}{ccc} \frac{20}{7} & \frac{20}{7} & 3 \\ \frac{20}{7} & \frac{20}{7} & 3 \end{array} \right]_7^3$ | T: 14,9 | $\frac{157}{56}$ |
| $x^{14} - 4x^{13} + 8x^{12} - 2x^{10} -$ $4x^9 - 6x^8 - 4x^7 + 4x^6 + 4x^5 +$ $2x^4 - 4x^3 + 8x + 6$ | $x^{14} - 196x^{10} - 952x^8 + 2940x^6 +$ $22176x^4 + 28728x^2 + 1944$ | $\left[\begin{array}{ccc} \frac{12}{7} & \frac{12}{7} & 3 \\ \frac{12}{7} & \frac{18}{7} & \frac{18}{7} \\ \frac{12}{7} & \frac{18}{7} & 3 \end{array} \right]_7^3$ | T: 14,29 | $\frac{1221}{448}$ |
| $x^{14} - 2x^{12} + 8x^{11} + 8x^8 + 8x^6 -$ $4x^5 + 8x^3 + 8x^2 + 4x + 6$ | $x^{14} + 210x^{12} + 16800x^{10} + 638750x^8 +$ $11838750x^6 + 101981250x^4 +$ $360281250x^2 + 316406250$ | $\left[\begin{array}{ccc} \frac{18}{7} & \frac{18}{7} & 3 \\ \frac{18}{7} & \frac{20}{7} & \frac{20}{7} \\ \frac{18}{7} & \frac{20}{7} & 3 \end{array} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 4x^{13} + 8x^{12} + 6x^{10} +$ $8x^9 + 6x^8 + 8x^7 + 4x^5 + 8x^4 +$ $4x^3 - 2x^2 + 8x - 6$ | $x^{14} + 140x^{12} + 3850x^{10} - 140000x^8 -$ $5512500x^6 - 20475000x^4 +$ $47250000x^2 + 50625000$ | $\left[\begin{array}{ccc} \frac{18}{7} & \frac{18}{7} & 3 \\ \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ \frac{18}{7} & \frac{20}{7} & 3 \end{array} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|--------------------|
| $x^{14} - 4x^{13} + 4x^{12} - 4x^{11} + 6x^{10} + 8x^9 + 8x^7 + 4x^6 + 6x^4 + 4x^2 + 4x - 6$ | $x^{14} + 14x^{12} - 280x^{10} - 3220x^8 + 7644x^6 + 2646x^4 - 7938x^2 + 1134$ | $\left[\frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]_7^3$ | T: 14,29 | $\frac{1291}{448}$ |
| $x^{14} + 4x^{13} + 2x^{12} + 4x^{11} + 4x^{10} + 4x^9 + 2x^8 + 4x^7 + 4x^6 + 4x^5 - 2x^4 + 4x^3 + 2x^2 + 4x - 2$ | $x^{14} - 392x^{10} - 952x^8 + 6860x^6 + 16128x^4 + 9324x^2 + 1350$ | $\left[\frac{8}{7} \frac{8}{7} \frac{10}{7} \frac{10}{7} \frac{10}{7} \frac{3}{7} \right]_7^3$ | T: 14,29 | $\frac{983}{448}$ |
| $x^{14} + 4x^{13} - 2x^{12} + 4x^{10} + 4x^9 + 4x^6 - 2x^4 - 2x^2 + 4x + 2$ | $x^{14} - 2100x^{10} - 3500x^8 + 1015000x^6 + 6300000x^4 + 6125000x^2 + 625000$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{18}{7} \frac{18}{7} \frac{3}{7} \right]_7^3$ | T: 14,29 | $\frac{1221}{448}$ |
| $x^{14} - 2x^{12} + 2x^8 + 2x^6 + 4x^5 + 4x^4 + 4x^3 - 2$ | $x^{14} - 70x^{12} - 2100x^{10} + 206500x^8 - 3150000x^6 + 47250000x^2 + 50625000$ | $\left[\frac{10}{7} \frac{10}{7} \frac{10}{7} \frac{16}{7} \frac{16}{7} \frac{3}{7} \right]_7^3$ | T: 14,29 | $\frac{579}{224}$ |
| $x^{14} + 4x^{13} + 4x^{12} + 4x^{11} + 4x^{10} + 4x^9 + 2x^6 + 4x^5 + 4x^4 + 2x^2 + 2$ | $x^{14} - 98x^{10} - 420x^8 - 588x^6 - 224x^4 + 112x^2 + 72$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| Continued on next page | | | | |

Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{14} + 4x^{13} + 2x^{12} + 4x^{11} - 2x^{10} - 2x^8 - 2x^6 + 2x^4 + 4x^3 + 4x^2 + 4x + 2$ | $x^{14} - 56x^{10} + 112x^8 + 392x^6 - 784x^4 + 224$ | $\left[\begin{array}{ccc} \frac{16}{7} & \frac{16}{7} & \frac{16}{7} \\ \frac{20}{7} & \frac{20}{7} & \frac{20}{7} \\ \frac{3}{7} & \frac{3}{7} & \frac{3}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1291}{448}$ |
| $x^{14} + 4x^{12} + 4x^{11} - 2x^{10} - 2x^8 + 4x^7 - 2x^2 + 4x - 2$ | $x^{14} - 70x^{12} + 49000x^8 - 262500x^6 - 4725000x^4 + 50625000$ | $\left[\begin{array}{ccc} \frac{10}{7} & \frac{10}{7} & \frac{10}{7} \\ \frac{10}{7} & \frac{10}{7} & \frac{10}{7} \\ \frac{3}{7} & \frac{3}{7} & \frac{3}{7} \end{array} \right]_7^3$ | T: 14,9 | $\frac{61}{28}$ |
| $x^{14} - 2x^{12} + 4x^{11} + 4x^{10} - 2x^8 + 4x^7 + 2x^4 + 4x + 2$ | $x^{14} + 28x^{12} + 210x^{10} + 112x^8 - 1960x^6 + 2352x^4 - 784x^2 + 56$ | $\left[\begin{array}{ccc} \frac{16}{7} & \frac{16}{7} & \frac{16}{7} \\ \frac{20}{7} & \frac{20}{7} & \frac{20}{7} \\ \frac{3}{7} & \frac{3}{7} & \frac{3}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1291}{448}$ |
| $x^{14} + 2x^{12} + 4x^{11} + 4x^9 + 4x^7 - 2x^6 + 2$ | $x^{14} + 14x^{12} - 56x^{10} - 1148x^8 - 2058x^6 + 7812x^4 + 21924x^2 + 12150$ | $\left[\begin{array}{ccc} \frac{10}{7} & \frac{10}{7} & \frac{10}{7} \\ \frac{18}{7} & \frac{18}{7} & \frac{18}{7} \\ \frac{3}{7} & \frac{3}{7} & \frac{3}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{607}{224}$ |
| $x^{14} + 4x^{11} - 2x^{10} + 4x^8 + 4x^7 - 2x^4 - 2x^2 + 4x + 2$ | $x^{14} + 14x^{12} - 196x^{10} - 3808x^8 - 11760x^6 + 38808x^4 + 116424x^2 + 40824$ | $\left[\begin{array}{ccc} \frac{12}{7} & \frac{12}{7} & \frac{12}{7} \\ \frac{18}{7} & \frac{18}{7} & \frac{18}{7} \\ \frac{3}{7} & \frac{3}{7} & \frac{3}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1221}{448}$ |
| Continued on next page | | | | |

Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{14} + 8x^{13} + 2x^{12} + 4x^{11} + 2x^{10} + 4x^9 + 6x^8 + 8x^7 - 2x^6 - 4x^5 - 2x^4 + 6x^2 + 4x + 6$ | $x^{14} + 42x^{12} + 308x^{10} + 364x^8 - 2268x^6 - 5544x^4 - 1512x^2 + 1458$ | $\left[\begin{array}{ccc} \frac{8}{7} & \frac{8}{7} & \frac{10}{7} \\ \frac{10}{7} & \frac{10}{7} & \frac{10}{7} \\ \frac{3}{7} & \frac{3}{7} & \frac{3}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{983}{448}$ |
| $x^{14} + 4x^{12} + 4x^{10} - 2x^8 - 2x^6 + 4x^5 + 2x^4 + 4x^3 + 2x^2 - 2$ | $x^{14} + 42x^{12} - 756x^{10} - 25704x^8 - 102060x^6 - 105462x^4 + 10206x^2 + 39366$ | $\left[\begin{array}{ccc} \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \\ \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \\ \frac{3}{7} & \frac{3}{7} & \frac{3}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1291}{448}$ |
| $x^{14} + 4x^{13} + 4x^{12} + 4x^{11} + 2x^{10} + 4x^7 + 4x^4 + 4x^3 + 2x^2 + 2$ | $x^{14} - 14x^{12} + 28x^{10} + 98x^8 - 98x^6 - 210x^4 - 14x^2 + 18$ | $\left[\begin{array}{ccc} \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ \frac{3}{7} & \frac{3}{7} & \frac{3}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} - 2x^{12} + 8x^{10} - 4x^9 + 4x^8 + 8x^7 - 4x^6 + 2x^4 + 4x^3 - 4x^2 + 6$ | $x^{14} - 504x^{10} - 1904x^8 + 4368x^6 + 11088x^4 - 18144x^2 + 2592$ | $\left[\begin{array}{ccc} \frac{10}{7} & \frac{10}{7} & \frac{18}{7} \\ \frac{10}{7} & \frac{10}{7} & \frac{18}{7} \\ \frac{3}{7} & \frac{3}{7} & \frac{3}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{607}{224}$ |
| $x^{14} + 4x^{13} + 4x^{12} + 2x^8 + 2x^6 + 4x^2 + 4x - 2$ | $x^{14} - 14x^{12} + 28x^{10} + 42x^8 - 56x^6 - 70x^4 - 14x^2 + 2$ | $\left[\begin{array}{ccc} \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \\ \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \\ \frac{3}{7} & \frac{3}{7} & \frac{3}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1291}{448}$ |
| Continued on next page | | | | |

Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|--------------------|
| $x^{14} - 6x^{12} + 8x^{11} - 6x^{10} + 4x^9 + 2x^8 + 4x^6 - 4x^5 + 6x^4 + 4x^3 + 4x^2 - 4x + 6$ | $x^{14} + 14x^{12} + 14x^{10} - 84x^8 - 98x^6 + 98x^4 + 98x^2 + 14$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} - 2x^{12} + 4x^9 + 2x^8 + 4x^7 + 4x^6 - 2x^4 + 4x^3 + 4x^2 - 2$ | $x^{14} + 70x^{12} - 91000x^8 - 1680000x^6 + 9450000x^4 + 378000000x^2 + 1822500000$ | $\left[\frac{12}{7} \frac{12}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{3}{7} \right]_7^3$ | T: 14,29 | $\frac{1221}{448}$ |
| $x^{14} - 4x^{13} + 8x^{12} - 4x^{11} + 8x^9 + 4x^7 + 4x^6 + 4x^5 + 6x^4 - 2x^2 - 4x - 6$ | $x^{14} + 140x^{12} + 6300x^{10} + 105000x^8 + 533750x^6 + 1093750x^4 + 875000x^2 + 156250$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{3}{7} \right]_7^3$ | T: 14,9 | $\frac{75}{28}$ |
| $x^{14} + 4x^{13} + 2x^{12} + 4x^8 + 4x^5 - 2x^4 + 4x^3 - 2$ | $x^{14} + 84x^{12} + 2268x^{10} + 22680x^8 + 69174x^6 + 85050x^4 + 40824x^2 + 4374$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{3}{7} \right]_7^3$ | T: 14,9 | $\frac{75}{28}$ |
| $x^{14} + 4x^{13} + 4x^{11} - 2x^{10} + 8x^9 - 6x^8 + 6x^6 + 4x^4 + 6x^2 - 4x - 6$ | $x^{14} - 28x^{12} + 224x^{10} - 280x^8 - 2128x^6 + 3696x^4 + 4032x^2 + 864$ | $\left[\frac{10}{7} \frac{10}{7} \frac{10}{7} \frac{18}{7} \frac{18}{7} \frac{3}{7} \right]_7^3$ | T: 14,29 | $\frac{607}{224}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|--------------------|
| $x^{14} + 4x^{12} + 4x^{11} - 2x^{10} +$ $4x^9 + 2x^6 - 2x^4 + 4x^3 - 2x^2 +$ $4x + 2$ | $x^{14} - 14x^{12} - 42x^{10} + 686x^8 + 1134x^6 -$ $1638x^4 - 1512x^2 + 162$ | $\left[\frac{12}{7} \frac{12}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,29 | $\frac{1221}{448}$ |
| $x^{14} + 4x^{11} + 4x^6 + 4x^5 - 2x^4 +$ $4x^3 + 4x^2 + 2$ | $x^{14} + 70x^{12} - 4900x^{10} - 124250x^8 +$ $1496250x^6 + 18900000x^4 +$ $47250000x^2 + 12656250$ | $\left[\frac{10}{7} \frac{10}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,29 | $\frac{607}{224}$ |
| $x^{14} + 4x^{13} + 8x^{12} + 8x^{10} +$ $4x^9 + 8x^8 - 4x^7 - 6x^6 + 8x^5 +$ $2x^4 + 8x^2 + 8x - 6$ | $x^{14} + 14x^{12} - 84x^{10} - 1750x^8 -$ $6146x^6 - 6174x^4 - 252x^2 + 1350$ | $\left[\frac{12}{7} \frac{12}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,29 | $\frac{1221}{448}$ |
| $x^{14} + 4x^{13} + 2x^{12} + 2x^{10} +$ $4x^9 + 4x^7 - 2x^6 + 4x^4 + 2x^2 +$ $4x + 2$ | $x^{14} - 14x^{12} + 392x^8 - 2352x^4 + 1568$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,9 | $\frac{75}{28}$ |
| Continued on next page | | | | |

Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{14} - 4x^{13} - 4x^{12} + 8x^{11} + 8x^{10} - 6x^8 + 8x^7 + 6x^6 - 4x^5 - 2x^4 - 4x^3 + 4x^2 + 8x + 6$ | $x^{14} + 28x^{12} + 308x^{10} + 1680x^8 + 4704x^6 + 6272x^4 + 3136x^2 + 8$ | $\left[\begin{matrix} 3 \\ 3 \end{matrix} \right]_7$ | T: 14,1 | $\frac{27}{14}$ |
| $x^{14} - 6x^{12} + 8x^{11} - 4x^{10} + 4x^9 - 4x^8 + 8x^7 + 8x^6 - 4x^5 - 4x^4 - 4x^3 - 6x^2 - 4x - 6$ | $x^{14} - 14x^{12} - 742x^{10} - 2240x^8 + 42630x^6 + 58212x^4 - 280476x^2 + 10206$ | $\left[\begin{matrix} \frac{10}{7} & \frac{10}{7} & \frac{18}{7} & \frac{18}{7} \\ \frac{10}{7} & \frac{16}{7} & \frac{20}{7} & \frac{20}{7} \end{matrix} \right]_7^3$ | T: 14,29 | $\frac{607}{224}$ |
| $x^{14} + 4x^{13} + 2x^{12} + 4x^{11} - 2x^{10} + 2x^8 + 2x^6 + 2x^4 + 4x^3 + 2x^2 + 2$ | $x^{14} + 42x^{12} - 252x^{10} - 19656x^8 - 117936x^6 + 163296x^4 + 979776x^2 + 279936$ | $\left[\begin{matrix} \frac{16}{7} & \frac{16}{7} & \frac{20}{7} & \frac{20}{7} \\ \frac{16}{7} & \frac{16}{7} & \frac{20}{7} & \frac{20}{7} \end{matrix} \right]_7^3$ | T: 14,29 | $\frac{1291}{448}$ |
| $x^{14} + 4x^{13} - 2x^{12} - 2x^{10} + 4x^9 + 4x^5 - 2$ | $x^{14} - 364x^{10} + 1988x^8 + 7476x^6 - 2268x^4 - 10584x^2 + 486$ | $\left[\begin{matrix} \frac{12}{7} & \frac{12}{7} & \frac{12}{7} & 3 \\ \frac{12}{7} & \frac{12}{7} & \frac{12}{7} & 3 \end{matrix} \right]_7^3$ | T: 14,9 | $\frac{129}{56}$ |
| $x^{14} - 6x^{12} + 4x^{11} + 8x^{10} - 4x^9 + 8x^8 + 4x^7 + 8x^6 + 4x^5 + 2x^4 - 4x^3 + 8x^2 + 4x - 6$ | $x^{14} + 28x^{12} + 154x^{10} - 1120x^8 - 8820x^6 - 6552x^4 + 3024x^2 + 648$ | $\left[\begin{matrix} \frac{18}{7} & \frac{18}{7} & \frac{20}{7} & \frac{20}{7} \\ \frac{18}{7} & \frac{18}{7} & \frac{20}{7} & \frac{20}{7} \end{matrix} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{14} + 8x^{13} - 2x^{12} - 2x^6 + 4x^5 + 6x^4 + 6x^2 - 4x - 6$ | $x^{14} - 14x^{12} - 84x^{10} + 700x^8 - 2450x^4 + 196x^2 + 14$ | $\left[\begin{array}{c} \frac{8}{7} \\ \frac{20}{7} \\ \frac{8}{7} \\ \frac{8}{7} \\ \frac{3}{7} \end{array} \right]^3$ | T: 14,9 | $\frac{115}{56}$ |
| $x^{14} + 4x^{13} + 2x^{12} + 4x^{11} + 2x^{10} + 4x^9 + 2x^8 + 2x^6 + 4x^5 + 2x^4 + 4x^3 + 4x^2 + 4x + 2$ | $x^{14} + 42x^{12} + 644x^{10} + 4424x^8 + 13524x^6 + 17640x^4 + 7938x^2 + 1134$ | $\left[\begin{array}{c} \frac{20}{7} \\ \frac{20}{7} \\ \frac{20}{7} \\ \frac{3}{7} \end{array} \right]^3$ | T: 14,9 | $\frac{157}{56}$ |
| $x^{14} + 4x^{13} - 2x^8 + 2x^6 + 4x^5 + 4x^4 + 4x^3 + 4x - 2$ | $x^{14} + 70x^{12} - 2450x^{10} - 134750x^8 + 2633750x^6 + 306250x^4 - 10718750x^2 + 7656250$ | $\left[\begin{array}{c} \frac{18}{7} \\ \frac{18}{7} \\ \frac{18}{7} \\ \frac{20}{7} \\ \frac{20}{7} \\ \frac{3}{7} \end{array} \right]^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 4x^{12} + 4x^{11} + 2x^{10} + 4x^9 - 2x^8 + 4x^7 - 2x^6 - 2x^4 + 2x^2 + 4x + 2$ | $x^{14} + 28x^{12} - 266x^{10} - 6748x^8 + 15876x^6 + 103194x^4 - 169344x^2 + 1134$ | $\left[\begin{array}{c} \frac{10}{7} \\ \frac{10}{7} \\ \frac{10}{7} \\ \frac{16}{7} \\ \frac{16}{7} \\ \frac{3}{7} \end{array} \right]^3$ | T: 14,29 | $\frac{579}{224}$ |
| $x^{14} + 4x^{13} + 2x^{12} + 8x^{11} + 8x^{10} - 4x^8 + 4x^7 + 2x^6 - 4x^5 - 4x^4 + 4x^3 + 6x^2 + 4x + 6$ | $x^{14} + 210x^{12} + 11900x^{10} + 24500x^8 - 9187500x^6 - 173250000x^4 - 897750000x^2 + 50625000$ | $\left[\begin{array}{c} \frac{10}{7} \\ \frac{10}{7} \\ \frac{10}{7} \\ \frac{16}{7} \\ \frac{16}{7} \\ \frac{3}{7} \end{array} \right]^3$ | T: 14,29 | $\frac{579}{224}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|--------------------|
| $x^{14} + 2x^{12} - 2x^{10} + 4x^9 - 2x^6 + 4x^5 + 4x^4 + 4x - 2$ | $x^{14} - 14x^{12} + 392x^8 - 392x^6 - 2352x^4 + 1568$ | $\left[\begin{array}{ccc} \frac{20}{7} & \frac{20}{7} & 3 \\ & & 3 \end{array} \right]_7^3$ | T: 14,9 | $\frac{157}{56}$ |
| $x^{14} + 4x^8 + 4x^7 + 4x^6 + 2x^4 + 4x^3 - 2x^2 - 2$ | $x^{14} + 14x^{12} + 56x^{10} + 14x^8 - 350x^6 - 644x^4 - 266x^2 + 2$ | $\left[\begin{array}{ccc} \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ & \frac{16}{7} & \frac{20}{7} \\ & & 3 \end{array} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 4x^{12} + 2x^{10} + 4x^9 - 2x^8 + 4x^7 + 2x^6 + 2x^4 + 4x^3 + 4x^2 + 4x - 2$ | $x^{14} - 154x^{10} - 896x^8 - 756x^6 + 2520x^4 + 1890x^2 + 162$ | $\left[\begin{array}{ccc} \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \\ & \frac{16}{7} & \frac{20}{7} \\ & & 3 \end{array} \right]_7^3$ | T: 14,29 | $\frac{1291}{448}$ |
| $x^{14} + 4x^{13} - 2x^{12} + 2x^{10} + 4x^9 + 2x^8 + 2x^6 + 2x^4 + 4x^3 + 2x^2 - 2$ | $x^{14} + 14x^{12} + 70x^{10} + 140x^8 + 56x^6 - 112x^4 - 56x^2 + 8$ | $\left[\begin{array}{ccc} \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ & \frac{18}{7} & \frac{20}{7} \\ & & 3 \end{array} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 4x^{12} + 4x^{10} + 4x^9 + 2x^8 + 2x^6 + 4x^5 + 4x^4 - 2x^2 + 4x + 2$ | $x^{14} - 42x^{12} + 10584x^8 - 23814x^6 - 142884x^4 + 214326$ | $\left[\begin{array}{ccc} \frac{18}{7} & \frac{18}{7} & \frac{18}{7} \\ & \frac{18}{7} & 3 \\ & & 3 \end{array} \right]_7^3$ | T: 14,9 | $\frac{75}{28}$ |
| $x^{14} + 4x^{13} - 2x^{12} - 4x^{11} + 8x^9 + 8x^8 + 4x^7 - 6x^6 - 4x^5 - 6x^4 + 4x^3 + 6x^2 - 4x - 6$ | $x^{14} - 882x^{10} + 7938x^8 + 41958x^6 - 81648x^4 + 20412x^2 + 4374$ | $\left[\begin{array}{ccc} \frac{18}{7} & \frac{18}{7} & \frac{18}{7} \\ & \frac{18}{7} & 3 \\ & & 3 \end{array} \right]_7^3$ | T: 14,9 | $\frac{75}{28}$ |
| Continued on next page | | | | |

Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{14} + 2x^{12} + 2x^{10} + 4x^9 - 2x^4 - 2x^2 + 4x - 2$ | $x^{14} + 14x^{12} - 196x^{10} - 994x^8 + 2394x^6 + 6048x^4 + 3024x^2 + 162$ | $\left[\frac{10}{7} \frac{10}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{3}{7} \right]^3$ | T: 14,29 | $\frac{607}{224}$ |
| $x^{14} + 4x^{13} + 4x^{12} + 4x^{11} + 2x^{10} - 2x^8 + 4x^7 - 2x^6 + 4x^5 - 2x^4 + 4x^3 + 2x^2 + 2$ | $x^{14} - 14x^{12} - 70x^{10} + 1876x^8 - 8232x^6 + 3528x^4 + 21168x^2 + 4536$ | $\left[\frac{8}{7} \frac{8}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]^3$ | T: 14,29 | $\frac{1263}{448}$ |
| $x^{14} + 4x^{13} - 2x^{12} + 4x^{11} + 4x^8 + 4x^4 + 4x^3 - 2x^2 - 2$ | $x^{14} + 42x^{12} + 476x^{10} + 994x^8 - 7518x^6 - 17640x^4 + 44226x^2 + 4050$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 6x^{12} + 4x^{11} - 4x^{10} + 8x^9 + 2x^8 + 4x^7 + 8x^6 - 4x^5 - 4x^3 + 4x^2 + 4x - 6$ | $x^{14} + 14x^{12} + 14x^{10} - 336x^8 - 784x^6 + 1890x^4 + 5670x^2 + 1458$ | $\left[\frac{8}{7} \frac{8}{7} \frac{8}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]^3$ | T: 14,29 | $\frac{1263}{448}$ |
| $x^{14} - 4x^{13} - 4x^{12} - 4x^{11} + 4x^{10} - 4x^9 + 8x^8 + 4x^7 - 6x^6 + 4x^5 + 8x^4 - 4x^3 + 8x - 6$ | $x^{14} - 112x^{10} - 28x^8 + 2716x^6 + 4536x^4 + 2016x^2 + 216$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{16}{7} \frac{16}{7} \frac{3}{7} \right]^3$ | T: 14,29 | $\frac{1165}{448}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|--------------------|
| $x^{14} + 8x^{13} - 4x^{12} + 8x^{11} + 4x^{10} + 8x^9 - 2x^8 + 8x^7 - 6x^6 + 8x^5 + 4x^4 + 8x^3 - 6$ | $x^{14} + 70x^{12} - 11200x^{10} - 633500x^8 - 2362500x^6 + 42525000x^4 + 165375000x^2 + 50625000$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,29 | $\frac{1221}{448}$ |
| $x^{14} - 4x^{13} + 4x^{12} + 4x^{11} + 4x^{10} + 8x^9 - 2x^8 - 6x^6 + 4x^5 - 6x^4 + 4x^3 - 2x^2 + 8x + 6$ | $x^{14} + 14x^{12} - 112x^{10} - 672x^8 + 392x^6 + 2352x^4 + 1568x^2 + 224$ | $\left[\frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]_7^3$ | T: 14,29 | $\frac{1291}{448}$ |
| $x^{14} + 4x^{13} - 2x^{10} + 4x^9 + 4x^8 + 4x^5 + 4x^3 - 2x^2 + 2$ | $x^{14} - 14x^{12} - 196x^{10} + 2842x^8 + 4410x^6 - 75852x^4 - 129654x^2 + 23814$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 2x^6 - 2x^4 + 4x^3 + 2x^2 + 4x + 2$ | $x^{14} + 28x^{12} + 280x^{10} + 1288x^8 + 2842x^6 + 2842x^4 + 980x^2 + 14$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{3}{7} \right]_7^3$ | T: 14,9 | $\frac{75}{28}$ |
| $x^{14} + 4x^{13} + 4x^{11} + 4x^9 - 2x^8 + 2x^6 + 4x^5 - 2$ | $x^{14} + 14x^{12} - 14x^{10} - 574x^8 + 98x^6 + 3920x^4 - 1568x^2 + 126$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{3}{7} \right]_7^3$ | T: 14,9 | $\frac{75}{28}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|--------------------|
| $x^{14} + 8x^{13} - 4x^{12} + 8x^{11} + 8x^{10} - 4x^9 - 2x^8 + 4x^7 + 8x^6 - 6x^4 + 6x^2 + 4x - 6$ | $x^{14} - 280x^{10} + 112x^8 + 18816x^6 + 7056x^4 - 169344x^2 + 163296$ | $\left[\frac{10}{7} \quad \frac{10}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{3}{7} \right]$ | T: 14,29 | $\frac{607}{224}$ |
| $x^{14} + 8x^{13} + 4x^{11} + 8x^{10} - 4x^9 - 2x^8 - 4x^7 - 6x^6 - 4x^5 + 8x^4 + 4x^3 - 6$ | $x^{14} - 3150x^{10} - 38500x^8 - 87500x^6 + 262500x^4 + 437500x^2 + 156250$ | $\left[\frac{12}{7} \quad \frac{12}{7} \quad \frac{12}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad \frac{3}{7} \right]$ | T: 14,29 | $\frac{1165}{448}$ |
| $x^{14} + 2x^{12} + 4x^{11} - 2x^8 + 4x^7 + 4x^4 + 4x - 2$ | $x^{14} - 98x^{10} + 196x^8 + 2156x^6 - 7056x^4 + 10584$ | $\left[\frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{3}{7} \right]$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} - 6x^{12} + 4x^{11} - 4x^{10} + 8x^8 + 8x^7 + 8x^6 + 4x^5 - 4x^4 + 8x - 6$ | $x^{14} - 70x^{10} - 56x^8 + 980x^6 + 1764x^4 + 952x^2 + 162$ | $\left[\frac{12}{7} \quad \frac{12}{7} \quad \frac{12}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad \frac{3}{7} \right]$ | T: 14,29 | $\frac{1165}{448}$ |
| $x^{14} + 4x^{12} + 4x^{11} + 4x^9 - 2x^8 + 4x^6 + 4x^4 + 4x^3 - 2x^2 + 2$ | $x^{14} - 2450x^{10} - 49000x^8 - 52500x^6 + 280000x^4 + 3500000x^2 + 625000$ | $\left[\frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{3}{7} \right]$ | T: 14,29 | $\frac{649}{224}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|--------------------|
| $x^{14} + 4x^{13} + 4x^{12} + 4x^{10} - 2x^8 + 2x^6 + 4x^5 + 4x^2 + 4x + 2$ | $x^{14} - 70x^{12} - 3850x^{10} + 56000x^8 + 997500x^6 - 1575000x^4 - 23625000x^2 + 50625000$ | $\left[\begin{array}{c} \frac{8}{7} \\ \frac{8}{7} \\ \frac{8}{7} \\ \frac{20}{7} \\ \frac{20}{7} \\ \frac{20}{7} \\ \frac{3}{7} \end{array} \right]^3_7$ | T: 14,29 | $\frac{1263}{448}$ |
| $x^{14} + 4x^{13} + 4x^{12} + 4x^{11} - 2x^{10} + 4x^8 + 2x^6 + 2x^4 + 4x^3 + 2$ | $x^{14} + 42x^{12} - 28x^{10} - 9688x^8 + 58800x^6 - 14112x^4 - 254016x^2 + 72576$ | $\left[\begin{array}{c} \frac{12}{7} \\ \frac{12}{7} \\ \frac{12}{7} \\ \frac{3}{7} \end{array} \right]^3_7$ | T: 14,9 | $\frac{129}{56}$ |
| $x^{14} + 2x^{12} + 4x^{11} + 2x^{10} + 8x^9 + 8x^8 + 8x^7 + 8x^6 - 4x^5 - 4x^4 + 2x^2 - 4x - 6$ | $x^{14} - 112x^{10} + 112x^8 + 1372x^6 - 1568x^4 - 2352x^2 + 56$ | $\left[\begin{array}{c} \frac{12}{7} \\ \frac{12}{7} \\ \frac{12}{7} \\ \frac{3}{7} \end{array} \right]^3_7$ | T: 14,9 | $\frac{129}{56}$ |
| $x^{14} + 8x^{13} - 4x^{12} + 8x^{11} + 6x^{10} + 4x^9 - 2x^8 + 4x^7 + 6x^6 - 4x^5 - 4x^4 - 4x^3 - 4x^2 + 6$ | $x^{14} - 756x^{10} + 3780x^8 + 63504x^6 - 20412x^2 + 4374$ | $\left[\begin{array}{c} \frac{8}{7} \\ \frac{8}{7} \\ \frac{8}{7} \\ \frac{3}{7} \end{array} \right]^3_7$ | T: 14,9 | $\frac{115}{56}$ |
| Continued on next page | | | | |

Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|--------------------|
| $x^{14} - 4x^{13} - 6x^{12} + 4x^{11} + 6x^{10} + 4x^9 - 6x^8 - 4x^7 + 8x^5 + 8x^4 - 4x^3 + 4x^2 + 6$ | $x^{14} - 140x^{10} - 280x^8 + 980x^6 + 784x^4 - 2744x^2 + 1400$ | $\left[\frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad 3 \right]_7^3$ | T: 14,9 | $\frac{75}{28}$ |
| $x^{14} + 4x^{13} + 2x^{12} + 4x^{11} + 4x^{10} + 4x^8 + 4x^3 + 2x^2 + 4x - 2$ | $x^{14} + 42x^{12} - 756x^{10} - 6426x^8 + 69174x^6 - 142884x^4 + 20412x^2 + 39366$ | $\left[\frac{12}{7} \quad \frac{12}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad 3 \right]_7^3$ | T: 14,29 | $\frac{1221}{448}$ |
| $x^{14} - 4x^{13} + 6x^{12} - 4x^{11} - 4x^{10} - 4x^9 - 2x^8 + 8x^7 + 8x^6 + 4x^5 - 6x^4 + 4x^3 + 6x^2 - 4x + 6$ | $x^{14} - 14x^{12} + 392x^8 - 420x^6 - 1512x^4 + 648$ | $\left[\frac{10}{7} \quad \frac{10}{7} \quad \frac{10}{7} \quad 3 \right]_7^3$ | T: 14,9 | $\frac{61}{28}$ |
| $x^{14} + 8x^{13} + 6x^{12} + 8x^{11} - 4x^{10} + 8x^9 - 2x^8 + 8x^7 + 2x^6 + 4x^5 + 4x^4 - 4x^3 + 2x^2 - 6$ | $x^{14} + 14x^{12} - 28x^{10} - 728x^8 - 1456x^6 + 672x^4 + 1344x^2 + 128$ | $\left[\frac{16}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad 3 \right]_7^3$ | T: 14,29 | $\frac{1291}{448}$ |
| Continued on next page | | | | |

Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|--------------------|
| $x^{14} + 4x^{13} - 4x^{12} + 4x^{11} + 8x^{10} - 4x^8 + 4x^7 + 4x^6 + 4x^5 + 8x^4 + 4x + 6$ | $x^{14} - 1050x^{10} - 7000x^8 + 113750x^6 - 175000x^4 - 218750x^2 + 156250$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 8x^{13} - 6x^{12} + 4x^{11} + 8x^{10} + 4x^7 - 4x^6 - 4x^5 + 8x^3 - 2x^2 - 4x - 6$ | $x^{14} - 28x^{12} - 238x^{10} - 42x^8 + 1232x^6 - 798x^4 + 54$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{16}{7} \frac{16}{7} \frac{16}{7} \right]_7^3$ | T: 14,29 | $\frac{1165}{448}$ |
| $x^{14} + 4x^{13} + 6x^{12} + 8x^{11} - 6x^{10} - 4x^9 + 4x^8 + 8x^7 + 6x^6 + 4x^5 + 4x^4 + 2x^2 + 6$ | $x^{14} + 14x^{12} - 476x^{10} - 1652x^8 + 16170x^6 + 70560x^4 + 82026x^2 + 28350$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} - 4x^{12} - 4x^{11} + 8x^{10} + 4x^9 + 8x^8 + 8x^7 + 8x^5 - 4x^3 + 2x^2 - 4x - 6$ | $x^{14} + 14x^{12} - 168x^{10} - 1554x^8 + 6958x^6 - 7350x^4 + 784x^2 + 1134$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,29 | $\frac{1221}{448}$ |
| $x^{14} + 4x^{12} + 4x^{11} + 4x^{10} + 2x^6 + 4x^5 - 2$ | $x^{14} + 42x^{12} + 126x^{10} - 5670x^8 - 21546x^6 + 74844x^4 + 285768x^2 + 4374$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,29 | $\frac{1221}{448}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|--------------------|
| $x^{14} + 4x^{13} + 2x^{12} + 4x^{11} - 2x^{10} + 4x^9 - 2x^8 + 2x^6 + 4x^2 + 4x - 2$ | $x^{14} - 1400x^{10} - 1750x^8 + 507500x^6 - 87500x^4 - 53156250x^2 + 82656250$ | $\left[\begin{array}{ccc} \frac{20}{7} & \frac{20}{7} & 3 \\ \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \end{array} \right]_7^3$ | T: 14,9 | $\frac{157}{56}$ |
| $x^{14} - 4x^{13} + 8x^{12} + 8x^9 + 4x^7 + 6x^6 - 4x^5 - 2x^4 + 6x^2 - 6$ | $x^{14} - 14x^{12} - 238x^{10} + 1246x^8 + 2982x^6 - 630x^4 - 1134x^2 + 162$ | $\left[\begin{array}{ccc} \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} - 2x^{12} + 4x^{11} + 2x^{10} + 2x^6 + 4x^5 + 2x^2 - 2$ | $x^{14} + 28x^{12} + 294x^{10} + 1386x^8 + 2590x^6 + 546x^4 - 630x^2 + 54$ | $\left[\begin{array}{ccc} \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} - 4x^{13} - 6x^{12} + 4x^{11} - 4x^9 - 2x^8 + 4x^7 - 4x^6 + 8x^5 + 4x^4 - 4x^3 + 8x^2 - 4x + 6$ | $x^{14} - 238x^{10} + 532x^8 + 10668x^6 - 21420x^4 - 10206x^2 + 19602$ | $\left[\begin{array}{ccc} \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \\ \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1291}{448}$ |
| $x^{14} + 8x^{13} + 6x^{12} + 4x^{11} + 4x^{10} + 8x^9 - 2x^8 + 8x^7 - 4x^6 - 4x^5 + 8x^3 - 4x^2 - 6$ | $x^{14} - 70x^{10} + 56x^8 + 1120x^6 - 2394x^4 + 1458$ | $\left[\begin{array}{ccc} \frac{16}{7} & \frac{16}{7} & \frac{16}{7} \\ \frac{16}{7} & \frac{16}{7} & \frac{3}{7} \end{array} \right]_7^3$ | T: 14,9 | $\frac{143}{56}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{14} + 4x^{13} - 4x^{12} - 2x^{10} + 4x^9 + 2x^8 + 4x^7 - 4x^6 - 4x^5 - 4x^4 + 6x^2 - 4x + 6$ | $x^{14} + 28x^{12} + 98x^{10} - 476x^8 - 1176x^6 + 882x^4 - 196x^2 + 14$ | $\left[\frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{3}{7} \right]_7^3$ | T: 14,9 | $\frac{143}{56}$ |
| $x^{14} + 8x^{12} + 4x^{11} + 8x^{10} - 4x^9 - 4x^8 + 4x^3 + 2x^2 + 8x - 6$ | $x^{14} + 14x^{12} - 112x^{10} - 1120x^8 + 1512x^6 + 24192x^4 + 42336x^2 + 7776$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} - 6x^{10} + 4x^9 - 2x^8 - 4x^7 - 4x^5 + 8x^3 - 4x - 6$ | $x^{14} - 14x^{12} - 56x^{10} + 994x^8 + 490x^6 - 8330x^4 - 10486x^2 + 14$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 4x^{13} + 8x^{11} + 2x^{10} + 8x^9 - 6x^8 - 4x^7 + 4x^5 + 6x^4 - 4x^3 + 2x^2 - 4x + 6$ | $x^{14} - 42x^{12} + 378x^{10} + 2646x^8 - 31752x^6 - 20412x^4 + 122472x^2 + 109350$ | $\left[\frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{3}{7} \right]_7^3$ | T: 14,9 | $\frac{143}{56}$ |
| $x^{14} + 6x^{12} + 8x^{11} - 4x^{10} - 4x^8 - 4x^7 + 8x^5 + 8x^4 + 8x^3 - 2x^2 - 4x + 6$ | $x^{14} + 42x^{12} - 532x^{10} - 18704x^8 - 124656x^6 - 239904x^4 + 18144$ | $\left[\frac{8}{7} \frac{8}{7} \frac{8}{7} \frac{10}{7} \frac{10}{7} \frac{10}{7} \frac{3}{7} \right]_7^3$ | T: 14,29 | $\frac{983}{448}$ |
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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|--------------------|
| $x^{14} - 4x^{11} + 8x^{10} + 6x^8 + 8x^7 - 4x^6 + 4x^4 - 4x^3 - 2x^2 - 4x - 6$ | $x^{14} - 42x^{12} + 10584x^8 - 571536x^4 + 3429216$ | $\left[\begin{array}{c} \frac{18}{7} \\ \frac{18}{7} \\ \frac{18}{7} \end{array} \right]_7^3$ | T: 14,9 | $\frac{75}{28}$ |
| $x^{14} + 4x^{13} - 4x^{12} - 6x^{10} - 4x^9 + 6x^8 - 2x^6 + 6x^4 + 4x^3 + 4x^2 + 8x + 6$ | $x^{14} - 56x^{10} + 14x^8 + 784x^6 - 392x^4 - 392x^2 + 126$ | $\left[\begin{array}{c} \frac{8}{7} \\ \frac{8}{7} \\ \frac{12}{7} \\ \frac{12}{7} \\ \frac{12}{7} \\ \frac{3}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1039}{448}$ |
| $x^{14} - 4x^{13} + 2x^{12} + 8x^{11} + 8x^{10} - 4x^9 + 4x^8 + 8x^7 - 4x^6 + 2x^4 - 4x^2 + 8x - 6$ | $x^{14} + 70x^{12} - 54250x^8 - 105000x^6 + 2756250x^4 + 11812500x^2 + 12656250$ | $\left[\begin{array}{c} \frac{8}{7} \\ \frac{8}{7} \\ \frac{12}{7} \\ \frac{12}{7} \\ \frac{12}{7} \\ \frac{3}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1039}{448}$ |
| $x^{14} - 2x^{12} + 2x^{10} + 4x^9 + 2x^8 + 4x^7 + 4x^6 - 2x^4 + 4x + 2$ | $x^{14} - 112x^{10} - 504x^8 - 280x^6 + 336x^4 + 224x^2 + 32$ | $\left[\begin{array}{c} \frac{8}{7} \\ \frac{8}{7} \\ \frac{20}{7} \\ \frac{20}{7} \\ \frac{20}{7} \\ \frac{3}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1263}{448}$ |
| $x^{14} + 8x^{13} - 2x^{12} + 4x^{11} + 8x^{10} - 6x^8 + 4x^7 - 6x^6 + 8x^5 - 6x^4 - 4x^3 + 2x^2 + 8x + 6$ | $x^{14} + 28x^{12} + 112x^{10} - 378x^8 - 2156x^6 - 2548x^4 - 686x^2 + 14$ | $\left[\begin{array}{c} \frac{8}{7} \\ \frac{8}{7} \\ \frac{20}{7} \\ \frac{20}{7} \\ \frac{20}{7} \\ \frac{3}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1263}{448}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|--------------------|
| $x^{14} + 4x^{13} - 2x^{10} + 2x^8 + 4x^6 + 2x^4 + 4x^3 + 4x + 2$ | $x^{14} + 14x^{12} - 154x^{10} - 574x^8 + 2254x^6 - 1568x^4 - 98x^2 + 14$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 4x^{12} + 4x^{11} + 2x^{10} + 4x^9 + 4x^4 + 4x^2 + 4x + 2$ | $x^{14} - 14x^{12} - 84x^{10} + 1064x^8 + 1008x^6 - 14112x^4 + 12096x^2 + 10368$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 4x^{13} + 4x^{12} - 2x^{10} + 2x^8 + 4x^7 + 2x^6 - 2x^4 + 4x^3 - 2x^2 - 2$ | $x^{14} + 42x^{12} + 252x^{10} - 3416x^8 - 10584x^6 + 91728x^4 - 84672x^2 + 18144$ | $\left[\frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]_7^3$ | T: 14,29 | $\frac{1291}{448}$ |
| $x^{14} + 4x^{13} + 4x^{12} + 8x^{11} + 6x^{10} + 4x^9 + 6x^8 - 4x^5 - 6x^4 + 8x^3 - 6x^2 - 6$ | $x^{14} - 42x^{12} + 252x^{10} + 1134x^8 - 4536x^6 - 17010x^4 - 10206x^2 + 4374$ | $\left[\frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]_7^3$ | T: 14,29 | $\frac{1291}{448}$ |
| $x^{14} + 2x^{12} + 4x^{11} + 4x^9 + 4x^8 + 4x^7 + 4x^3 + 4x^2 - 2$ | $x^{14} + 70x^{12} - 2100x^{10} - 29750x^8 + 533750x^6 - 1837500x^4 + 437500x^2 + 1406250$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{3}{7} \right]_7^3$ | T: 14,29 | $\frac{1221}{448}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|--------------------|
| $x^{14} + 4x^{12} + 4x^{11} + 4x^8 + 4x^7 + 4x^6 + 4x^5 + 4x^4 + 4x + 2$ | $x^{14} + 42x^{12} + 616x^{10} + 4256x^8 + 14840x^6 + 24864x^4 + 16128x^2 + 864$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} - 4x^{13} - 4x^{10} + 8x^9 + 2x^8 - 2x^6 + 8x^4 + 8x^3 + 6x^2 - 6$ | $x^{14} + 14x^{12} - 98x^{10} - 1078x^8 + 4214x^6 + 98x^4 - 686x^2 + 98$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} - 2x^{12} + 4x^{11} + 4x^{10} - 2x^8 + 4x^6 + 4x^5 - 2x^2 + 4x + 2$ | $x^{14} - 252x^{10} + 18144x^6 - 326592x^2 + 69984$ | $\left[\frac{8}{7} \frac{8}{7} \frac{8}{7} \frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{3}{7} \right]_7^3$ | T: 14,29 | $\frac{1039}{448}$ |
| $x^{14} + 4x^{13} + 4x^{12} + 4x^{11} + 2x^{10} + 4x^9 + 2x^8 + 4x^7 + 2x^6 + 4x^5 + 4x^4 + 4x^3 - 2$ | $x^{14} - 28x^{12} + 168x^{10} + 126x^8 - 2828x^6 + 3906x^4 + 3024x^2 + 54$ | $\left[\frac{10}{7} \frac{10}{7} \frac{10}{7} \frac{10}{7} \frac{3}{7} \right]_7^3$ | T: 14,9 | $\frac{61}{28}$ |
| $x^{14} + 8x^{13} - 4x^{11} + 8x^{10} + 8x^9 + 8x^7 + 4x^6 - 4x^5 + 2x^4 + 8x^3 + 2x^2 + 4x - 6$ | $x^{14} + 14x^{12} - 280x^{10} - 2044x^8 + 6468x^6 + 38808x^4 + 31752x^2 + 4536$ | $\left[\frac{10}{7} \frac{10}{7} \frac{10}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{3}{7} \right]_7^3$ | T: 14,29 | $\frac{607}{224}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{14} - 2x^{12} + 4x^{11} + 2x^{10} - 4x^9 - 6x^8 + 8x^7 - 2x^6 + 8x^5 - 6x^4 - 4x^3 - 4x^2 - 6$ | $x^{14} - 2100x^{10} + 17500x^8 + 490000x^6 - 437500x^2 + 156250$ | $\left[\begin{array}{ccc} \frac{8}{7} & \frac{8}{7} & \frac{8}{7} \\ & \frac{8}{7} & 3 \\ & & 3 \end{array} \right]_7^3$ | T: 14,9 | $\frac{115}{56}$ |
| $x^{14} + 8x^{13} + 8x^{11} - 2x^{10} + 4x^9 + 2x^8 + 8x^7 + 8x^6 + 4x^5 + 4x^4 + 4x + 6$ | $x^{14} + 14x^{12} - 196x^{10} + 168x^8 + 2128x^6 - 2016x^4 - 4032x^2 + 3456$ | $\left[\begin{array}{ccc} \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ & \frac{18}{7} & \frac{20}{7} \\ & & \frac{20}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 4x^{13} + 2x^{12} + 2x^{10} - 2x^8 + 4x^7 + 4x^3 + 2x^2 + 4x + 2$ | $x^{14} + 14x^{12} - 84x^{10} - 238x^8 + 854x^6 - 588x^4 + 28x^2 + 18$ | $\left[\begin{array}{ccc} \frac{12}{7} & \frac{12}{7} & \frac{18}{7} \\ & \frac{12}{7} & \frac{18}{7} \\ & & \frac{18}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1221}{448}$ |
| $x^{14} + 4x^{13} + 2x^{12} - 4x^{11} - 4x^{10} + 8x^9 - 4x^7 + 2x^6 + 8x^5 + 2x^4 - 4x^3 - 4x^2 + 8x - 6$ | $x^{14} - 14x^{12} + 42x^{10} + 98x^8 - 392x^6 - 84x^4 + 168x^2 + 50$ | $\left[\begin{array}{ccc} \frac{16}{7} & \frac{16}{7} & \frac{16}{7} \\ & \frac{16}{7} & 3 \\ & & 3 \end{array} \right]_7^3$ | T: 14,9 | $\frac{143}{56}$ |
| $x^{14} + 4x^{13} + 4x^{12} - 2x^{10} + 4x^6 - 2x^4 - 2x^2 - 2$ | $x^{14} + 42x^{12} + 560x^{10} + 3052x^8 + 7252x^6 + 6636x^4 + 1134x^2 + 54$ | $\left[\begin{array}{ccc} \frac{20}{7} & \frac{20}{7} & \frac{20}{7} \\ & \frac{20}{7} & 3 \\ & & 3 \end{array} \right]_7^3$ | T: 14,9 | $\frac{157}{56}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|--------------------|
| $x^{14} - 4x^{13} - 2x^{12} + 8x^{11} + 4x^{10} + 8x^9 + 6x^8 + 8x^7 + 8x^6 - 4x^5 - 4x^4 - 4x^3 - 6x^2 + 8x - 6$ | $x^{14} + 70x^{12} + 1750x^{10} + 17500x^8 + 35000x^6 - 350000x^4 - 875000x^2 + 625000$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 4x^{13} + 2x^{12} + 4x^{11} - 2x^{10} + 4x^9 - 2x^8 + 4x^7 - 2x^6 + 4x^5 + 4x^4 - 2$ | $x^{14} + 14x^{12} - 392x^{10} - 476x^8 + 17178x^6 - 35784x^4 - 9072x^2 + 19602$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,29 | $\frac{1221}{448}$ |
| $x^{14} - 4x^{13} - 6x^{12} - 4x^{11} - 6x^{10} + 4x^9 - 2x^8 + 8x^7 + 4x^6 + 8x^5 + 4x^4 + 8x^3 - 4x^2 + 8x - 6$ | $x^{14} - 28x^{12} + 168x^{10} + 784x^8 - 4704x^6 - 12096x^4 + 6048x^2 + 2592$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{16}{7} \right]_7^3$ | T: 14,29 | $\frac{1165}{448}$ |
| $x^{14} - 4x^{13} - 2x^{12} + 4x^{11} - 2x^{10} + 4x^9 - 2x^8 - 4x^6 - 4x^5 + 4x^4 - 4x^2 + 4x + 6$ | $x^{14} - 28x^{12} + 2548x^8 + 9450x^6 + 3654x^4 - 2646x^2 + 162$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 4x^{12} + 4x^{10} - 2x^8 + 4x^7 - 2x^4 + 4x^2 + 4x + 2$ | $x^{14} + 14x^{12} + 14x^{10} - 42x^8 + 28x^4 - 14x^2 + 2$ | $\left[\frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{1291}{448}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|--------------------|
| $x^{14} + 4x^{11} + 4x^9 - 2x^8 + 4x^7 - 2x^6 + 4x^5 + 2x^4 + 4x^3 + 4x^2 + 4x + 2$ | $x^{14} - 14x^{12} - 126x^{10} + 1232x^8 + 2016x^6 - 13608x^4 + 12096x^2 + 648$ | $\left[\frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{1291}{448}$ |
| $x^{14} + 8x^{13} - 2x^{12} - 4x^{10} + 8x^8 + 8x^7 - 6x^6 + 4x^5 + 8x^3 + 2x^2 - 6$ | $x^{14} - 2450x^{10} - 52500x^8 - 367500x^6 - 700000x^4 + 1750000x^2 + 5625000$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 4x^{11} + 4x^{10} + 4x^8 + 2x^6 - 2x^4 - 2x^2 + 2$ | $x^{14} - 14x^{12} - 294x^{10} + 3710x^8 - 6594x^6 - 2268x^4 + 1134x^2 + 162$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 4x^{12} + 4x^{10} + 2x^8 + 4x^7 + 4x^5 + 2x^4 + 4x^3 + 2x^2 - 2$ | $x^{14} - 42x^{10} - 56x^8 + 182x^6 - 56x^4 - 14x^2 + 2$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} - 4x^{13} - 4x^{12} - 4x^{11} + 8x^{10} - 4x^9 + 6x^8 + 4x^7 - 2x^6 + 8x^5 + 8x^4 + 8x^2 + 4x + 6$ | $x^{14} - 28x^{12} + 56x^{10} + 350x^8 - 532x^6 - 798x^4 + 882x^2 + 54$ | $\left[\frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{1291}{448}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|--------------------|
| $x^{14} + 8x^{13} + 4x^{12} - 4x^{11} + 2x^{10} + 8x^8 + 4x^7 + 8x^6 + 4x^5 - 6x^4 - 4x^3 + 2x^2 - 4x + 6$ | $x^{14} + 14x^{12} - 476x^{10} - 5768x^8 + 41748x^6 + 599760x^4 + 1566432x^2 + 113400$ | $\left[\begin{array}{ccc} \frac{8}{7} & \frac{8}{7} & \frac{12}{7} \\ \frac{12}{7} & \frac{12}{7} & \frac{16}{7} \\ \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1039}{448}$ |
| $x^{14} + 4x^{11} + 2x^{10} + 4x^9 - 2x^8 + 4x^7 - 2x^6 + 4x^5 + 4x^3 - 2x^2 + 2$ | $x^{14} - 14x^{12} + 588x^8 - 1372x^6 - 2744x^4 + 4802x^2 + 686$ | $\left[\begin{array}{ccc} \frac{20}{7} & \frac{20}{7} & 3 \\ \frac{20}{7} & \frac{20}{7} & 3 \\ \frac{20}{7} & \frac{20}{7} & 3 \end{array} \right]_7^3$ | T: 14,9 | $\frac{157}{56}$ |
| $x^{14} - 4x^{13} + 2x^{12} + 6x^{10} + 4x^9 + 6x^8 - 4x^5 - 4x^2 - 6$ | $x^{14} + 14x^{12} - 434x^8 - 168x^6 + 882x^4 + 756x^2 + 162$ | $\left[\begin{array}{ccc} \frac{8}{7} & \frac{8}{7} & \frac{12}{7} \\ \frac{12}{7} & \frac{12}{7} & \frac{16}{7} \\ \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1039}{448}$ |
| $x^{14} + 8x^{13} - 2x^{12} + 8x^{11} - 4x^{10} + 4x^9 - 4x^7 + 4x^6 + 4x^5 - 4x^4 - 2x^2 + 4x + 6$ | $x^{14} - 322x^{10} - 826x^8 + 11592x^6 + 38934x^4 + 8316x^2 + 162$ | $\left[\begin{array}{ccc} \frac{12}{7} & \frac{12}{7} & \frac{16}{7} \\ \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \\ \frac{20}{7} & \frac{20}{7} & 3 \end{array} \right]_7^3$ | T: 14,29 | $\frac{1165}{448}$ |
| $x^{14} - 4x^{13} - 2x^{12} + 8x^{10} - 4x^9 - 6x^6 - 4x^5 - 4x^2 - 4x + 6$ | $x^{14} + 42x^{12} + 126x^{10} - 1134x^8 + 6804x^4 - 10206x^2 + 4374$ | $\left[\begin{array}{ccc} \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \\ \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \\ \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1291}{448}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|--------------------|
| $x^{14} + 8x^{13} - 2x^{12} + 8x^{11} - 6x^{10} + 2x^8 + 8x^7 + 2x^6 + 6x^4 + 8x^3 + 8x^2 + 4x + 6$ | $x^{14} - 742x^{10} - 2240x^8 + 109956x^6 + 303408x^4 - 105840x^2 + 4536$ | $\left[\begin{array}{ccc} \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ \frac{8}{7} & \frac{18}{7} & \frac{20}{7} \\ \frac{20}{7} & \frac{20}{7} & 3 \end{array} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} - 2x^{10} + 2x^8 + 4x^6 + 4x^5 + 4x^4 + 2$ | $x^{14} - 700x^{10} + 140000x^6 - 7000000x^2 + 2500000$ | $\left[\begin{array}{ccc} \frac{8}{7} & \frac{12}{7} & \frac{12}{7} \\ \frac{8}{7} & \frac{12}{7} & \frac{12}{7} \\ \frac{12}{7} & \frac{12}{7} & 3 \end{array} \right]_7^3$ | T: 14,29 | $\frac{1039}{448}$ |
| $x^{14} - 4x^{13} + 6x^{12} - 4x^{11} + 6x^{10} + 8x^9 - 2x^8 - 4x^7 + 4x^6 + 8x^5 - 4x^4 + 4x^3 - 6x^2 + 8x - 6$ | $x^{14} - 42x^{12} + 252x^{10} + 2646x^8 - 7938x^6 - 51030x^4 - 10206x^2 + 39366$ | $\left[\begin{array}{ccc} \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ \frac{20}{7} & \frac{20}{7} & 3 \end{array} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 2x^{12} + 4x^{11} - 2x^{10} + 2x^8 + 4x^6 + 4x^5 + 4x^2 - 2$ | $x^{14} + 28x^{12} + 308x^{10} + 1680x^8 + 4704x^6 + 6272x^4 + 3136x^2 + 504$ | $\left[\begin{array}{c} 3 \\ 3 \end{array} \right]_7^3$ | T: 14,1 | $\frac{27}{14}$ |
| $x^{14} - 2x^{12} + 4x^{11} + 2x^8 + 4x^7 + 2x^6 + 4x^5 + 4x^4 - 2x^2 + 4x + 2$ | $x^{14} - 42x^{12} + 252x^{10} + 3024x^8 - 14742x^6 - 85050x^4 - 20412x^2 + 4374$ | $\left[\begin{array}{ccc} \frac{12}{7} & \frac{12}{7} & \frac{18}{7} \\ \frac{12}{7} & \frac{18}{7} & \frac{18}{7} \\ \frac{18}{7} & \frac{18}{7} & 3 \end{array} \right]_7^3$ | T: 14,29 | $\frac{1221}{448}$ |
| $x^{14} - 2x^{12} + 4x^8 - 2x^6 + 4x^5 + 4x^4 + 4x^3 - 2x^2 + 4x - 2$ | $x^{14} - 14x^{12} + 504x^8 - 784x^6 - 3136x^4 + 1568x^2 + 224$ | $\left[\begin{array}{ccc} \frac{16}{7} & \frac{16}{7} & 3 \\ \frac{16}{7} & \frac{16}{7} & 3 \\ \frac{16}{7} & 3 & 3 \end{array} \right]_7^3$ | T: 14,9 | $\frac{143}{56}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|--------------------|
| $x^{14} - 2x^{12} + 4x^{10} + 4x^8 + 4x^7 + 2x^6 + 4x^5 - 2x^4 + 2$ | $x^{14} - 84x^{10} - 28x^8 + 1624x^6 + 2016x^4 + 392x^2 + 8$ | $\left[\begin{array}{ccc} \frac{12}{7} & \frac{12}{7} & \frac{18}{7} \\ \frac{18}{7} & \frac{18}{7} & \frac{18}{7} \\ \frac{12}{7} & \frac{12}{7} & \frac{3}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1221}{448}$ |
| $x^{14} + 4x^{12} + 4x^{11} + 2x^{10} + 4x^9 + 4x^8 + 4x^7 + 4x^6 + 2x^4 + 4x^3 + 4x + 2$ | $x^{14} + 70x^{12} - 1400x^{10} - 89250x^8 + 1321250x^6 - 2975000x^4 - 6343750x^2 + 12656250$ | $\left[\begin{array}{ccc} \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ \frac{18}{7} & \frac{18}{7} & \frac{3}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 4x^{13} + 4x^{11} + 4x^{10} + 4x^9 - 2x^8 + 4x^6 + 4x^5 + 2x^4 + 4x^3 + 4x^2 - 2$ | $x^{14} + 70x^{12} - 9800x^{10} - 59500x^8 + 10736250x^6 - 111825000x^4 - 141750000x^2 + 1531406250$ | $\left[\begin{array}{ccc} \frac{12}{7} & \frac{12}{7} & \frac{18}{7} \\ \frac{12}{7} & \frac{12}{7} & \frac{18}{7} \\ \frac{12}{7} & \frac{12}{7} & \frac{3}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1221}{448}$ |
| $x^{14} + 2x^{12} + 4x^{11} + 2x^{10} + 8x^9 - 6x^8 - 4x^7 + 4x^6 - 6x^4 + 4x^3 + 2x^2 + 4x - 6$ | $x^{14} - 756x^{10} - 4158x^8 + 63504x^6 - 20412x^2 + 4374$ | $\left[\begin{array}{ccc} \frac{12}{7} & \frac{12}{7} & \frac{12}{7} \\ \frac{12}{7} & \frac{12}{7} & \frac{3}{7} \\ \frac{12}{7} & \frac{12}{7} & \frac{3}{7} \end{array} \right]_7^3$ | T: 14,9 | $\frac{129}{56}$ |
| $x^{14} + 8x^{13} - 6x^{12} + 4x^{11} - 6x^{10} + 4x^9 - 6x^8 - 4x^6 - 4x^5 - 2x^4 + 8x^2 - 4x + 6$ | $x^{14} - 5950x^{10} + 66500x^8 + 6667500x^6 - 66937500x^4 - 159468750x^2 + 1531406250$ | $\left[\begin{array}{ccc} \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \\ \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \\ \frac{16}{7} & \frac{16}{7} & \frac{3}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1291}{448}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|--------------------|
| $x^{14} + 4x^{13} + 4x^{12} + 4x^{11} -$ $2x^{10} + 4x^9 + 4x^8 + 4x^7 + 4x^4 -$ $2x^2 - 2$ | $x^{14} - 3850x^{10} - 112000x^8 -$ $472500x^6 + 7875000x^4 +$ $29531250x^2 + 12656250$ | $\left[\frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{1291}{448}$ |
| $x^{14} + 8x^{13} - 6x^{12} + 8x^{11} -$ $2x^{10} + 6x^8 + 8x^7 - 4x^6 + 8x^4 -$ $4x^3 + 4x^2 + 8x + 6$ | $x^{14} - 70x^{12} - 1050x^{10} +$ $85750x^8 + 708750x^6 - 5118750x^4 -$ $23625000x^2 + 12656250$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \right]_7^3$ | T: 14,29 | $\frac{1221}{448}$ |
| $x^{14} + 4x^{13} + 2x^{12} + 4x^{10} +$ $4x^9 - 2x^8 + 2x^6 + 4x^3 - 2x^2 - 2$ | $x^{14} - 1008x^{10} - 13608x^8 - 22680x^6 +$ $81648x^4 + 163296x^2 + 69984$ | $\left[\frac{8}{7} \frac{8}{7} \frac{8}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{1263}{448}$ |
| $x^{14} + 8x^{13} + 6x^{12} + 4x^{11} +$ $4x^8 - 4x^7 + 4x^6 - 2x^4 - 4x^3 -$ $6x^2 - 6$ | $x^{14} - 14x^{12} - 672x^{10} + 5600x^8 +$ $81144x^6 + 239904x^4 + 211680x^2 +$ 18144 | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 2x^{12} + 4x^{11} + 2x^{10} +$ $4x^9 + 2x^8 + 4x^7 + 4x^6 + 4x^4 +$ $4x^3 + 4x + 2$ | $x^{14} + 70x^{12} + 1050x^{10} + 5852x^8 +$ $14112x^6 + 14616x^4 + 6048x^2 + 648$ | $\left[\frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \right]_7^3$ | T: 14,9 | $\frac{157}{56}$ |
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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|--------------------|
| $x^{14} - 4x^{13} + 2x^{12} + 4x^{11} + 8x^{10} + 4x^9 - 6x^8 - 4x^7 + 4x^6 - 4x^5 + 8x^4 + 8x^3 + 6x^2 + 8x + 6$ | $x^{14} - 70x^{12} + 700x^{10} + 5250x^8 - 35000x^6 - 218750x^4 - 218750x^2 + 156250$ | $\left[\begin{array}{ccc} \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \\ \frac{12}{7} & \frac{12}{7} & \frac{18}{7} \\ \frac{20}{7} & \frac{20}{7} & \frac{3}{7} \end{array} \right]^3_7$ | T: 14,29 | $\frac{1291}{448}$ |
| $x^{14} + 4x^{10} + 4x^8 - 2x^6 + 2x^4 + 4x^3 + 2x^2 + 4x + 2$ | $x^{14} - 28x^{12} + 56x^{10} + 252x^8 - 238x^6 - 504x^4 + 54$ | $\left[\begin{array}{ccc} \frac{12}{7} & \frac{12}{7} & \frac{18}{7} \\ \frac{12}{7} & \frac{12}{7} & \frac{18}{7} \\ \frac{18}{7} & \frac{18}{7} & \frac{3}{7} \end{array} \right]^3_7$ | T: 14,29 | $\frac{1221}{448}$ |
| $x^{14} + 8x^{13} - 4x^{12} + 8x^{11} + 6x^{10} + 4x^8 + 8x^6 + 8x^5 + 4x^4 + 2x^2 - 6$ | $x^{14} + 70x^{12} + 350x^{10} - 5250x^8 + 87500x^4 - 218750x^2 + 156250$ | $\left[\begin{array}{ccc} \frac{16}{7} & \frac{16}{7} & \frac{20}{7} \\ \frac{12}{7} & \frac{12}{7} & \frac{18}{7} \\ \frac{20}{7} & \frac{20}{7} & \frac{3}{7} \end{array} \right]^3_7$ | T: 14,29 | $\frac{1291}{448}$ |
| $x^{14} + 4x^{12} + 4x^{11} + 4x^{10} + 4x^8 + 4x^7 - 2x^6 + 4x^5 - 2x^4 + 2$ | $x^{14} + 14x^{12} - 728x^8 - 2688x^6 + 3024x^4 + 24192x^2 + 23328$ | $\left[\begin{array}{ccc} \frac{12}{7} & \frac{12}{7} & \frac{18}{7} \\ \frac{12}{7} & \frac{12}{7} & \frac{18}{7} \\ \frac{18}{7} & \frac{18}{7} & \frac{3}{7} \end{array} \right]^3_7$ | T: 14,29 | $\frac{1221}{448}$ |
| $x^{14} + 4x^{10} - 2x^8 - 2x^4 + 4x^3 - 2x^2 + 2$ | $x^{14} - 42x^{12} + 336x^{10} + 308x^8 - 1078x^6 - 980x^4 + 98x^2 + 126$ | $\left[\begin{array}{ccc} \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ \frac{20}{7} & \frac{20}{7} & \frac{3}{7} \end{array} \right]^3_7$ | T: 14,29 | $\frac{649}{224}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|--------------------|
| $x^{14} + 8x^{13} + 6x^{12} + 8x^{11} - 4x^{10} - 2x^8 - 4x^7 + 4x^4 + 2x^2 + 8x - 6$ | $x^{14} + 14x^{12} - 112x^{10} - 672x^8 - 784x^6 + 98x^2 + 14$ | $\left[\frac{8}{7} \quad \frac{8}{7} \quad \frac{8}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{1263}{448}$ |
| $x^{14} + 4x^{13} + 4x^{12} + 4x^{11} - 2x^{10} - 2x^8 + 4x^7 - 2x^6 + 4x^5 + 2x^4 + 4x^3 + 4x^2 + 4x - 2$ | $x^{14} + 140x^{12} - 700x^{10} - 196000x^8 + 3885000x^6 - 22050000x^4 + 202500000$ | $\left[\frac{8}{7} \quad \frac{8}{7} \quad \frac{8}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{1263}{448}$ |
| $x^{14} + 4x^{13} + 6x^{12} + 8x^{11} + 8x^{10} + 8x^9 + 6x^8 - 4x^7 - 4x^6 + 6x^4 + 4x^3 + 4x^2 + 6$ | $x^{14} + 140x^{12} + 4900x^{10} - 56000x^8 - 4987500x^6 - 70875000x^4 - 259875000x^2 + 455625000$ | $\left[\frac{10}{7} \quad \frac{10}{7} \quad \frac{10}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \right]_7^3$ | T: 14,29 | $\frac{607}{224}$ |
| $x^{14} + 8x^{13} + 6x^{12} - 4x^{10} - 4x^9 - 4x^8 + 6x^6 + 6x^4 - 2x^2 + 8x - 6$ | $x^{14} - 70x^{12} + 700x^{10} + 12250x^8 - 61250x^6 - 656250x^4 - 218750x^2 + 1406250$ | $\left[\frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 4x^{10} - 2x^8 + 4x^7 + 4x^6 + 4x^5 - 2x^4 + 2x^2 + 4x - 2$ | $x^{14} + 14x^{12} + 14x^{10} - 210x^8 - 266x^6 + 308x^4 + 392x^2 + 2$ | $\left[\frac{12}{7} \quad \frac{12}{7} \quad \frac{12}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \right]_7^3$ | T: 14,29 | $\frac{1221}{448}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|--------------------|
| $x^{14} - 4x^{13} + 4x^{10} + 8x^9 - 2x^8 + 4x^7 + 2x^6 + 4x^3 + 2x^2 + 8x - 6$ | $x^{14} - 28x^{12} + 112x^{10} + 1190x^8 - 3136x^6 - 6664x^4 + 1078x^2 + 350$ | $\left[\begin{array}{c} \frac{20}{7} \\ \frac{12}{7} \\ \frac{20}{7} \\ \frac{18}{7} \\ \frac{18}{7} \\ \frac{3}{7} \end{array} \right]^3$ | T: 14,9 | $\frac{157}{56}$ |
| $x^{14} + 4x^{13} - 2x^{12} + 4x^{11} - 2x^{10} + 4x^8 + 4x^7 + 4x^5 + 2x^4 - 2x^2 + 4x + 2$ | $x^{14} + 70x^{12} + 350x^{10} - 26250x^8 - 166250x^6 + 962500x^4 + 6125000x^2 + 156250$ | $\left[\begin{array}{c} \frac{12}{7} \\ \frac{12}{7} \\ \frac{18}{7} \\ \frac{18}{7} \\ \frac{18}{7} \\ \frac{3}{7} \end{array} \right]^3$ | T: 14,29 | $\frac{1221}{448}$ |
| $x^{14} - 4x^{13} + 8x^{12} - 4x^{11} + 6x^{10} + 2x^8 - 4x^7 + 2x^6 - 4x^4 - 4x^2 - 4x - 6$ | $x^{14} - 14x^{12} - 714x^{10} + 10304x^8 - 38220x^6 - 3528x^4 + 158760x^2 + 4536$ | $\left[\begin{array}{c} \frac{20}{7} \\ \frac{20}{7} \\ \frac{18}{7} \\ \frac{3}{7} \end{array} \right]^3$ | T: 14,9 | $\frac{157}{56}$ |
| $x^{14} + 4x^{13} + 6x^{12} + 4x^{10} + 8x^9 - 6x^8 + 4x^7 + 8x^6 + 4x^5 + 6x^4 + 8x^3 - 2x^2 - 4x + 6$ | $x^{14} + 42x^{12} + 140x^{10} - 6160x^8 - 14112x^6 + 105840x^4 - 84672x^2 + 18144$ | $\left[\begin{array}{c} \frac{12}{7} \\ \frac{12}{7} \\ \frac{18}{7} \\ \frac{18}{7} \\ \frac{18}{7} \\ \frac{3}{7} \end{array} \right]^3$ | T: 14,29 | $\frac{1221}{448}$ |
| $x^{14} + 8x^{13} + 2x^{12} + 8x^{11} + 8x^{10} - 4x^9 - 2x^8 + 8x^7 - 4x^6 - 4x^4 + 8x^2 - 6$ | $x^{14} - 210x^{12} + 9800x^{10} + 112000x^8 - 3360000x^6 - 14175000x^4 + 189000000x^2 + 455625000$ | $\left[\begin{array}{c} \frac{12}{7} \\ \frac{12}{7} \\ \frac{12}{7} \\ \frac{3}{7} \end{array} \right]^3$ | T: 14,9 | $\frac{129}{56}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|--------------------|
| $x^{14} + 4x^{12} - 2x^{10} + 4x^9 + 2x^8 +$ $4x^7 + 4x^6 + 4x^5 + 4x^4 + 4x^3 +$ $2x^2 - 2$ | $x^{14} + 14x^{12} - 56x^{10} - 714x^8 + 2114x^6 -$ $952x^4 - 406x^2 + 162$ | $\left[\frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} - 2x^{12} + 2x^{10} + 4x^9 - 2x^8 +$ $4x^4 + 2$ | $x^{14} - 140x^{12} + 4200x^{10} + 98000x^8 -$ $2940000x^6 - 37800000x^4 +$ $94500000x^2 + 202500000$ | $\left[\frac{12}{7} \quad \frac{12}{7} \quad \frac{12}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad \frac{16}{7} \right]_7^3$ | T: 14,29 | $\frac{1165}{448}$ |
| $x^{14} + 4x^{13} - 6x^{12} - 4x^{11} -$ $6x^{10} + 6x^8 - 4x^7 + 2x^6 + 8x^5 +$ $4x^4 + 8x^2 - 4x + 6$ | $x^{14} - 28x^{12} + 98x^{10} + 1232x^8 -$ $6412x^6 + 1512x^4 + 4536x^2 + 216$ | $\left[\frac{8}{7} \quad \frac{8}{7} \quad \frac{8}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{1263}{448}$ |
| $x^{14} + 4x^{13} - 2x^{12} + 4x^{11} -$ $2x^{10} + 4x^7 + 2x^6 + 4x^5 + 2x^4 +$ $4x^3 + 2$ | $x^{14} - 630x^{10} - 1512x^8 + 79380x^6 +$ $428652x^4 + 694008x^2 + 354294$ | $\left[\frac{12}{7} \quad \frac{12}{7} \quad \frac{12}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad \frac{16}{7} \right]_7^3$ | T: 14,29 | $\frac{1165}{448}$ |
| Continued on next page | | | | |

Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|--------------------|
| $x^{14} + 4x^{13} + 4x^{12} - 2x^{10} - 2x^8 + 2x^6 + 4x^5 + 4x^4 + 4x^3 + 2x^2 + 2$ | $x^{14} - 56x^{10} - 14x^8 + 812x^6 - 28x^4 - 3402x^2 + 1058$ | $\left[\begin{array}{ccc} \frac{20}{7} & \frac{20}{7} & 3 \\ \frac{18}{7} & \frac{20}{7} & 3 \end{array} \right]_7^3$ | T: 14,9 | $\frac{157}{56}$ |
| $x^{14} + 4x^{13} + 2x^{12} + 4x^{10} + 4x^9 + 4x^8 + 2x^6 - 2x^2 + 2$ | $x^{14} + 70x^{12} + 1400x^{10} + 1750x^8 - 218750x^6 - 2012500x^4 - 4156250x^2 + 156250$ | $\left[\begin{array}{ccc} \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ \frac{18}{7} & \frac{20}{7} & \frac{20}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 4x^{13} - 4x^{12} + 6x^{10} + 8x^9 + 6x^8 - 4x^7 - 6x^6 + 8x^5 + 4x^4 - 4x^3 - 4x^2 + 4x - 6$ | $x^{14} - 98x^{10} - 392x^8 - 84x^6 + 896x^4 + 224x^2 + 8$ | $\left[\begin{array}{ccc} \frac{18}{7} & \frac{18}{7} & \frac{20}{7} \\ \frac{18}{7} & \frac{20}{7} & \frac{20}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} - 4x^{13} - 6x^{12} + 8x^{11} + 8x^{10} - 4x^9 + 6x^8 - 6x^6 + 4x^4 + 4x^3 + 2x^2 + 4x - 6$ | $x^{14} + 14x^{12} + 28x^{10} - 280x^8 - 784x^6 + 1568x^4 + 3136x^2 + 896$ | $\left[\begin{array}{ccc} \frac{12}{7} & \frac{12}{7} & \frac{16}{7} \\ \frac{12}{7} & \frac{16}{7} & \frac{16}{7} \end{array} \right]_7^3$ | T: 14,29 | $\frac{1165}{448}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|--------------------|
| $x^{14} + 8x^{13} + 8x^{11} + 6x^{10} + 8x^9 + 4x^8 - 4x^7 - 6x^6 + 8x^5 + 8x^4 + 4x^3 + 4x^2 + 4x + 6$ | $x^{14} + 28x^{12} + 238x^{10} + 700x^8 + 294x^6 - 588x^4 + 98x^2 + 14$ | $\left[\frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \right]_7^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} + 2x^{12} + 2x^{10} + 4x^9 - 2x^8 + 4x^7 + 4x^6 + 2x^4 - 2x^2 - 2$ | $x^{14} + 350x^{12} + 26250x^{10} + 731500x^8 + 8820000x^6 + 45675000x^4 + 94500000x^2 + 50625000$ | $\left[\frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \quad \frac{20}{7} \right]_7^3$ | T: 14,9 | $\frac{157}{56}$ |
| $x^{14} + 8x^{13} + 8x^{12} + 8x^{11} + 4x^{10} + 4x^9 + 6x^8 + 4x^7 - 2x^6 + 8x^5 + 4x^3 + 2x^2 - 4x - 6$ | $x^{14} + 28x^{12} + 196x^{10} + 308x^8 - 1176x^6 - 3528x^4 + 4536$ | $\left[\frac{12}{7} \quad \frac{12}{7} \quad \frac{12}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad \frac{16}{7} \quad \frac{16}{7} \right]_7^3$ | T: 14,29 | $\frac{1165}{448}$ |
| $x^{14} + 4x^{13} + 4x^{12} + 8x^{11} - 4x^{10} - 6x^8 + 4x^7 - 6x^6 + 8x^5 - 6x^4 - 4x^3 + 6x^2 - 4x + 6$ | $x^{14} + 42x^{12} + 518x^{10} + 896x^8 - 13818x^6 - 29988x^4 + 79380x^2 + 137214$ | $\left[\frac{10}{7} \quad \frac{10}{7} \quad \frac{10}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \quad \frac{18}{7} \right]_7^3$ | T: 14,29 | $\frac{607}{224}$ |

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Table 3.3 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|--------------------|
| $x^{14} + 8x^{12} + 8x^{11} - 2x^{10} + 8x^9 + 6x^8 - 6x^6 + 4x^5 + 4x^3 + 4x^2 - 4x + 6$ | $x^{14} + 42x^{12} + 630x^{10} + 3780x^8 + 4536x^6 - 27216x^4 - 40824x^2 + 17496$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{20}{7} \frac{20}{7} \frac{20}{7} \frac{3}{7} \right]^3$ | T: 14,29 | $\frac{649}{224}$ |
| $x^{14} - 4x^{12} + 4x^{11} - 2x^{10} + 8x^9 - 6x^8 - 4x^7 + 4x^6 - 2x^4 + 4x^3 + 8x^2 + 6$ | $x^{14} - 70x^{12} + 49000x^8 - 183750x^6 - 1837500x^4 + 7656250$ | $\left[\frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{3}{7} \right]^3$ | T: 14,9 | $\frac{75}{28}$ |
| $x^{14} + 4x^{13} + 4x^{10} + 4x^9 + 4x^6 - 2x^4 + 4x^3 + 2$ | $x^{14} - 42x^{12} + 126x^{10} + 280x^8 - 434x^6 - 672x^4 + 54$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{18}{7} \frac{18}{7} \frac{18}{7} \frac{3}{7} \right]^3$ | T: 14,29 | $\frac{1221}{448}$ |
| $x^{14} - 4x^{13} - 2x^{12} + 4x^{11} - 6x^{10} - 4x^9 + 4x^8 + 8x^7 + 6x^6 - 4x^4 + 4x^3 + 6x^2 - 4x + 6$ | $x^{14} - 140x^{10} - 868x^8 - 1764x^6 - 1176x^4 + 56$ | $\left[\frac{12}{7} \frac{12}{7} \frac{12}{7} \frac{16}{7} \frac{16}{7} \frac{16}{7} \frac{3}{7} \right]^3$ | T: 14,29 | $\frac{1165}{448}$ |

Table 3.4: Degree 14 extensions of \mathbb{Q}_7

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|---------|---------------|
| $x^{14} + 2x^2 - 2x + 3$ | $x^{14} + 61x^{12} + 1402x^{10} + 15247x^8 + 80418x^6 + 185798x^4 + 127429x^2 + 18769$ | $\left[\begin{array}{c} 14 \\ 1 \end{array} \right]$ | T: 1,1 | 0 |
| $x^{14} - 117649x^2 + 1647086$ | $x^{14} - 5x^{13} - 37x^{12} + 241x^{11} + 470x^{10} - 5072x^9 + 2206x^8 + 45789x^7 - 85066x^6 - 115656x^5 + 581817x^4 - 1062045x^3 + 1664828x^2 - 2121563x + 2155133$ | $\left[\begin{array}{c} 7 \\ 2 \end{array} \right]$ | I: 2,1 | $\frac{1}{2}$ |
| $x^{14} - 686x^8 + 117649x^2 - 3294172$ | $x^{14} - 5x^{13} + 12x^{12} + 31x^{11} + 722x^{10} - 4645x^9 + 23535x^8 - 41683x^7 + 272781x^6 - 1040258x^5 + 7172534x^4 - 22736110x^3 + 85299995x^2 - 143854350x + 314845525$ | $\left[\begin{array}{c} 7 \\ 2 \end{array} \right]$ | I: 2,1 | $\frac{1}{2}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|-------------------|
| $x^{14} + 14x^{13} + 7x^{12} + 21x^{11} +$ $14x^{10} + 7x^9 + 28x^8 + 36x^7 +$ $7x^6 + 35x^5 + 42x^4 + 28x^3 +$ $35x^2 + 28x + 31$ | $x^{14} - 8x^7 - 4$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^2$ | I: 294, 13 | $\frac{341}{294}$ |
| $x^{14} + 14x^{13} + 21x^{11} + 14x^{10} +$ $14x^8 + 15x^7 + 14x^6 + 21x^5 +$ $21x^3 + 21x^2 + 35x + 45$ | | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^2$ | I: 294, 13 | $\frac{341}{294}$ |
| $x^{14} + 28x^{13} + 14x^{12} + 21x^{11} +$ $21x^8 + 15x^7 + 35x^6 + 21x^5 +$ $28x^4 + 42x^3 + 28x^2 + 3$ | | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^2$ | I: 294, 13 | $\frac{341}{294}$ |
| $x^{14} + 35x^{13} + 21x^{12} + 42x^{11} +$ $35x^{10} + 42x^9 + 15x^7 + 7x^6 +$ $14x^5 + 7x^2 + 28x + 3$ | $x^{14} + 252x^8 + 1176x^6 + 1512x^4 + 28x^2 +$ 81 | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^2$ | I: 42, 1 | $\frac{47}{42}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|-------------------|
| $x^{14} + 35x^{12} + 28x^{11} + 14x^{10} +$ $42x^9 + 21x^8 + x^7 + 21x^6 +$ $42x^5 + 7x^3 + 21x^2 + 28x + 10$ | $x^{14} + 42x^{12} + 693x^{10} + 9856x^8 -$ $26460x^6 + 41328x^4 - 44352x^2 + 20736$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^2$ | I: 42, 1 | $\frac{47}{42}$ |
| $x^{14} + 35x^{13} + 14x^{11} + 35x^{10} +$ $14x^9 + 7x^8 + 43x^7 + 42x^6 +$ $42x^4 + 7x^3 + 42x^2 + 28x + 24$ | | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^2$ | I: 294, 13 | $\frac{341}{294}$ |
| $x^{14} + 14x^{13} + 21x^{12} + 35x^{11} +$ $14x^{10} + 7x^9 + 21x^8 + 15x^7 +$ $14x^6 + 21x^5 + 35x^4 + 42x^3 +$ $14x^2 + 14x + 38$ | $x^{14} - 6x^7 + 4$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^2$ | I: 294, 13 | $\frac{341}{294}$ |
| $x^{14} + 7x^{13} + 14x^{12} + 14x^{11} +$ $21x^{10} + 7x^9 + 35x^8 + 8x^7 +$ $7x^5 + 21x^4 + 35x^2 + 28x + 45$ | | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^2$ | I: 294, 13 | $\frac{341}{294}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|------------|-------------------|
| $x^{14} + 7x^{13} + 35x^{12} + 7x^{11} + 42x^{10} + 42x^9 + 43x^7 + 14x^6 + 35x^5 + 14x^4 + 7x + 3$ | $x^{14} - 42x^{11} + 21x^{10} + 42x^9 + 63x^8 + 390x^7 + 147x^6 + 294x^5 - 1764x^4 - 3045x^3 - 1043x^2 - 2919x - 3141$ | $\begin{bmatrix} 7 & 7 \\ 6 & 6 \end{bmatrix}_6^2$ | I: 294, 13 | $\frac{341}{294}$ |
| $x^{14} + 14x^{12} + 7x^{11} + 14x^{10} + 21x^9 + 42x^8 + 22x^7 + 42x^6 + 42x^5 + 42x^4 + 14x^3 + 28x + 10$ | | $\begin{bmatrix} 7 & 7 \\ 6 & 6 \end{bmatrix}_6^2$ | I: 294, 13 | $\frac{341}{294}$ |
| $x^{14} + 7x^{13} + 35x^{12} + 35x^{11} + 21x^8 + 15x^7 + 42x^6 + 42x^5 + 21x^3 + 3$ | $x^{14} - 28x^{11} + 49x^{10} - 84x^9 + 322x^8 - 682x^7 + 1617x^6 - 2548x^5 + 973x^4 + 84x^3 + 525x^2 + 980x - 48$ | $\begin{bmatrix} 7 & 7 \\ 6 & 6 \end{bmatrix}_6^2$ | I: 294, 13 | $\frac{341}{294}$ |
| $x^{14} + 21x^{13} + 35x^{11} + 42x^{10} + 14x^9 + 14x^8 + 22x^7 + 42x^6 + 14x^5 + 42x^4 + 7x^3 + 35x^2 + 14x + 17$ | | $\begin{bmatrix} 7 & 7 \\ 6 & 6 \end{bmatrix}_6^2$ | I: 294, 13 | $\frac{341}{294}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|------------|-------------------|
| $x^{14} + 28x^{13} + 21x^{12} + 14x^{11} + 7x^{10} + 7x^9 + 43x^7 + 21x^5 + 21x^4 + 14x^3 + 35x^2 + 7x + 31$ | | $\begin{bmatrix} 7 & 7 \\ 6 & 6 \end{bmatrix}_6^2$ | I: 294, 13 | $\frac{341}{294}$ |
| $x^{14} + 28x^{13} + 28x^{12} + 28x^{11} + 28x^{10} + x^7 + 21x^6 + 21x^5 + 42x^4 + 21x^2 + 28x + 31$ | $x^{14} - 14x^{11} + 63x^{10} - 126x^9 - 91x^8 + 354x^7 - 147x^6 - 1274x^5 + 3864x^4 - 2625x^3 + 595x^2 + 525x - 225$ | $\begin{bmatrix} 7 & 7 \\ 6 & 6 \end{bmatrix}_6^2$ | I: 294, 13 | $\frac{341}{294}$ |
| $x^{14} + 14x^{13} + 42x^{11} + 42x^{10} + 14x^9 + 36x^7 + 7x^6 + 14x^5 + 42x^4 + 28x^3 + 42x^2 + 10$ | $x^{14} - 14x^{11} - 42x^{10} - 84x^9 - 343x^8 - 1392x^7 - 4116x^6 - 9212x^5 - 14952x^4 - 17220x^3 - 13517x^2 - 3234x + 2844$ | $\begin{bmatrix} 7 & 7 \\ 6 & 6 \end{bmatrix}_6^2$ | I: 294, 13 | $\frac{341}{294}$ |
| $x^{14} + 21x^{13} + 42x^{12} + 7x^{11} + 7x^{10} + 7x^9 + 28x^8 + 22x^7 + 7x^6 + 35x^5 + 21x^4 + 7x^3 + 14x^2 + 35x + 45$ | | $\begin{bmatrix} 7 & 7 \\ 6 & 6 \end{bmatrix}_6^2$ | I: 294, 13 | $\frac{341}{294}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|------------|-------------------|
| $x^{14} + 14x^{13} + 42x^{12} + 14x^{11} + 28x^{10} + 35x^8 + 8x^7 + 14x^3 + 35x + 10$ | | $\begin{bmatrix} 7 & 7 \\ 6 & 6 \end{bmatrix}_6^2$ | I: 294, 13 | $\frac{341}{294}$ |
| $x^{14} + 42x^{13} + 21x^{12} + 28x^{11} + 35x^{10} + 14x^8 + 22x^7 + 21x^6 + 21x^5 + 21x^4 + 21x^3 + 21x^2 + 14x + 31$ | | $\begin{bmatrix} 7 & 7 \\ 6 & 6 \end{bmatrix}_6^2$ | I: 294, 13 | $\frac{341}{294}$ |
| $x^{14} + 35x^{13} + 21x^{12} + 28x^{11} + 7x^{10} + 7x^9 + 43x^7 + 28x^6 + 28x^5 + 21x^4 + 7x^2 + 42x + 10$ | $x^{14} - 14x^{11} - 42x^{10} - 84x^9 - 280x^8 - 1338x^7 - 4116x^6 - 11858x^5 - 25158x^4 - 39900x^3 - 50057x^2 - 46326x - 17244$ | $\begin{bmatrix} 7 \\ 6 \end{bmatrix}_6^2$ | I: 42, 1 | $\frac{47}{42}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{14} + 14x^{13} + 28x^{12} + 28x^{11} +$ $14x^{10} + 28x^9 + 35x^8 + 36x^7 +$ $21x^5 + 42x^4 + 28x^3 + 28x^2 +$ $42x + 3$ | $x^{14} - 2x^7 - 4$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^2$ | I: 294,13 | $\frac{341}{294}$ |
| $x^{14} + 28x^{12} + 42x^{11} + 42x^9 +$ $21x^8 + 29x^7 + 21x^6 + 35x^5 +$ $7x^4 + 14x^3 + 28x^2 + 42x + 45$ | $x^{14} - 2x^7 + 2$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^2$ | I: 42,1 | $\frac{47}{42}$ |
| $x^{14} + 42x^{13} + 14x^{12} + 14x^{11} +$ $28x^9 + 28x^8 + 15x^7 + 35x^6 +$ $35x^5 + 7x^4 + 42x^3 + 7x^2 +$ $28x + 31$ | $x^{14} - 28x^{11} - 35x^{10} - 28x^9 + 140x^8 +$ $450x^7 + 539x^6 - 1449x^4 - 1610x^3 -$ $1477x^2 + 28x - 68$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^2$ | I: 294,13 | $\frac{341}{294}$ |
| $x^{14} + 35x^{13} + 7x^{10} + 7x^9 +$ $43x^7 + 35x^5 + 7x^4 + 28x^3 +$ $28x^2 + 28x + 24$ | | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^2$ | I: 294,13 | $\frac{341}{294}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{14} + 7x^{13} + 7x^{11} + 7x^{10} + 42x^9 + 14x^8 + 22x^7 + 35x^6 + 21x^4 + 7x^3 + 7x^2 + 42x + 17$ | $x^{14} + 84x^{12} + 2772x^{10} + 45360x^8 + 381024x^6 + 1524096x^4 + 2286144x^2 + 1399680$ | $\left[\begin{smallmatrix} 7 \\ 6 \end{smallmatrix} \right]_6^2$ | I: 42,1 | $\frac{47}{42}$ |
| $x^{14} + 14x^{13} + 14x^{12} + 28x^{11} + 7x^9 + 28x^8 + 22x^7 + 35x^6 + 21x^5 + 14x^4 + 21x + 38$ | $x^{14} + 42x^{12} + 441x^{10} + 5635x^8 + 61740x^6 + 330309x^4 + 799533x^2 + 777924$ | $\left[\begin{smallmatrix} 7 \\ 6 \end{smallmatrix} \right]_6^2$ | I: 42,1 | $\frac{47}{42}$ |
| $x^{14} + 42x^{13} + 28x^{12} + 21x^{11} + 14x^{10} + 14x^8 + 29x^7 + 42x^6 + 28x^5 + 7x^4 + 35x^3 + 35x^2 + 35x + 31$ | | $\left[\begin{smallmatrix} 7 & 7 \\ 6 & 6 \end{smallmatrix} \right]_6^2$ | I: 294,13 | $\frac{341}{294}$ |
| $x^{14} + 35x^{13} + 42x^{12} + 42x^{11} + 42x^{10} + 7x^9 + 42x^8 + 36x^7 + 14x^6 + 21x^5 + 28x^4 + 35x^3 + 7x^2 + 17$ | $x^{14} - 28x^{11} - 14x^{10} + 112x^9 + 140x^8 + 232x^7 - 2156x^6 + 2548x^5 + 476x^4 - 3934x^3 + 3892x^2 - 1008x + 207$ | $\left[\begin{smallmatrix} 7 & 7 \\ 6 & 6 \end{smallmatrix} \right]_6^2$ | I: 294,13 | $\frac{341}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{14} - 84x^{12} - 84x^{11} + 3206x^{10} +$ $x^{14} + 28x^{13} + 21x^{12} + 42x^{11} +$ $4956x^9 - 66668x^8 - 130154x^7 +$ $14x^{10} + 28x^8 + 37x^7 + 28x^5 +$ $786842x^6 + 1801856x^5 - 4775288x^4 -$ $7x^4 + 7x^3 + 35x^2 + 28x + 31$ $13285916x^3 + 9985696x^2 +$ $39242252x + 21880010$ | $x^{14} - 84x^{12} - 154x^{11} + 2310x^{10} +$ $8316x^9 - 16618x^8 - 118998x^7 -$ $50274x^6 + 761768x^5 + 1870428x^4 +$ $1469076x^3 + 105364x^2 + 194040x +$ 531450 | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3^2$ | I: 147,4 | $\frac{194}{147}$ |
| $x^{14} + 7x^{12} + 21x^{11} + 7x^{10} +$ $35x^9 + 14x^8 + 44x^7 + 28x^6 +$ $21x^5 + 7x^4 + 7x^3 + 28x^2 +$ $7x + 38$ | $x^{14} + 28x^{13} + 14x^{12} + 7x^{10} +$ $35x^9 + 42x^8 + 37x^7 + 21x^6 +$ $28x^5 + 7x^4 + 21x^3 + 14x^2 +$ $14x + 45$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3^4$ | I: 147,4 | $\frac{194}{147}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{14} + 21x^{13} + 21x^{12} + 28x^{11} +$ $28x^{10} + 42x^9 + 14x^8 + 37x^7 +$ $35x^6 + 7x^5 + 35x^4 + 14x^3 +$ $7x^2 + 21x + 31$ | | $\begin{bmatrix} 4 & 4 \\ 3 & 3 \end{bmatrix}_3^4$ | I: 147,4 | $\frac{194}{147}$ |
| | $x^{14} - 152306x^{11} -$ $3899742x^{10} - 97684818x^9 +$ $8026740491x^8 + 365862391224x^7 +$ $10542506587536x^6 +$ $146912006740114x^5 -$ $6318047107058148x^4 -$ $379531660924349934x^3 -$ $7121884786117412696x^2 +$ $113157101647325280006x +$ 3701829241795869603045 | | | |
| $x^{14} + 35x^{12} + 35x^{11} + 21x^{10} +$ $42x^9 + 44x^7 + 14x^6 + 28x^5 +$ $42x^4 + 42x^3 + 7x^2 + 21x + 17$ | | $\begin{bmatrix} 4 & 4 \\ 3 & 3 \end{bmatrix}_3^2$ | I: 147,4 | $\frac{194}{147}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{14} + 42x^{13} + 28x^{12} + 14x^{11} + 28x^{10} + 42x^9 + 21x^8 + 2x^7 + 35x^6 + 14x^5 + 21x^4 + 42x^3 + 7x^2 + 42x + 24$ | $x^{14} + 7x^{12} - 102718x^{11} - 1338855x^{10} + 236931464x^9 + 101882123x^8 + 31969278858x^7 - 9830184734566x^6 - 63458193460662x^5 + 21619942508557953x^4 - 470857659378141882x^3 + 1238039480860169841x^2 - 51125066716503804948x + 1877459862905142566733$ | $\begin{bmatrix} 4 & 4 \\ 3 & 3 \end{bmatrix}_3^2$ | I: 147,4 | $\frac{194}{147}$ |
| $x^{14} + 28x^{13} + 28x^{12} + 21x^{11} + 21x^{10} + 42x^9 + 7x^8 + 16x^7 + 42x^6 + 35x^5 + 42x^2 + 14x + 17$ | | $\begin{bmatrix} 4 & 4 \\ 3 & 3 \end{bmatrix}_3^4$ | I: 147,4 | $\frac{194}{147}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|----------|-------------------|
| $x^{14} + 14x^{13} + 7x^{12} + 14x^{11} +$ $28x^{10} + 14x^9 + 42x^8 + 16x^7 +$ $28x^6 + 14x^5 + 35x^4 + 7x^3 +$ $35x^2 + 14x + 31$ | | $\left[\begin{array}{c} 4 \\ 4 \\ 3 \end{array} \right]_3$ | I: 147,4 | $\frac{194}{147}$ |
| $x^{14} + 35x^{13} + 21x^{12} + 21x^8 +$ $30x^7 + 14x^6 + 7x^4 + 14x^3 +$ $28x^2 + 21x + 24$ | | $\left[\begin{array}{c} 4 \\ 4 \\ 3 \end{array} \right]_3$ | I: 147,4 | $\frac{194}{147}$ |
| $x^{14} + 7x^{13} + 42x^{12} + 7x^{11} +$ $21x^9 + 14x^8 + 44x^7 + 35x^6 +$ $35x^5 + 21x^4 + 21x^3 + 21x^2 +$ $14x + 3$ | | $\left[\begin{array}{c} 4 \\ 4 \\ 3 \end{array} \right]_3$ | I: 147,4 | $\frac{194}{147}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{14} + 21x^{13} + 28x^{11} + 35x^{10} +$ $14x^9 + 21x^8 + 23x^7 + 42x^6 +$ $7x^4 + 14x^3 + 28x^2 + 28x + 10$ | $x^{14} + 7x^{12} - 392x^{11} + 2107x^{10} -$ $5712x^9 + 51849x^8 - 466088x^7 +$ $2241736x^6 - 6363616x^5 +$ $11346244x^4 - 12905088x^3 +$ $9120720x^2 - 3661952x + 640256$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3^2$ | I: 21,1 | $\frac{26}{21}$ |
| $x^{14} + 28x^{13} + 14x^{11} + 35x^{10} +$ $7x^9 + 44x^7 + 14x^6 + 14x^5 +$ $42x^3 + 28x^2 + 35x + 10$ | $x^{14} + 42x^{12} - 42x^{11} + 840x^{10} - 1890x^9 +$ $8988x^8 - 30198x^7 + 73794x^6 -$ $217812x^5 + 385098x^4 - 626640x^3 +$ $868294x^2 - 1004220x + 1216818$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3^2$ | I: 147,4 | $\frac{194}{147}$ |
| $x^{14} + 7x^{13} + 7x^{12} + 21x^{11} +$ $21x^{10} + 28x^9 + 35x^8 + 23x^7 +$ $7x^6 + 14x^5 + 21x^3 + 14x^2 +$ $28x + 45$ | | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3^4$ | I: 147,4 | $\frac{194}{147}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{14} + 7x^{13} + 7x^{12} + 14x^{11} + 21x^{10} + 42x^9 + 21x^8 + 30x^7 + 35x^5 + 14x^4 + 14x^3 + 21x^2 + 7x + 45$ | $x^{14} - 112x^{11} - 84x^{10} + 756x^9 + 5236x^8 - 7320x^7 - 35280x^6 + 16464x^5 + 116424x^4 + 90720x^3 - 330624x^2 - 272160x + 519696$ | $\begin{bmatrix} 4 & 4 \\ 3 & 3 \end{bmatrix}_3^2$ | I: 147,4 | $\frac{194}{147}$ |
| $x^{14} + 21x^{13} + 28x^{12} + 35x^{11} + 14x^{10} + 28x^8 + 16x^7 + 35x^6 + 42x^5 + 7x^2 + 35x + 38$ | $x^{14} - 35x^{12} - 448x^{11} + 5467x^{10} - 8582x^9 - 301x^8 - 586146x^7 + 4162417x^6 - 12120458x^5 + 18514951x^4 - 15774486x^3 + 6972077x^2 - 684460x + 28157$ | $\begin{bmatrix} 4 & 4 \\ 3 & 3 \end{bmatrix}_3^2$ | I: 147,4 | $\frac{194}{147}$ |
| $x^{14} + 7x^{13} + 7x^{12} + 42x^{11} + 35x^{10} + 28x^9 + 14x^8 + 23x^7 + 42x^6 + 42x^5 + 28x^4 + 42x^3 + 21x^2 + 14x + 45$ | | $\begin{bmatrix} 4 & 4 \\ 3 & 3 \end{bmatrix}_3^4$ | I: 147,4 | $\frac{194}{147}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|---------|-----------------|
| $x^{14} - 10619x^{12} - 283360x^{11} + 29460606x^{10} + 1541453606x^9 + 13483003800x^8 - 367957425528x^7 - 4913349374745x^6 + 18534326334062x^5 + 421307152415940x^4 + 597635087022050x^3 - 7522690063654297x^2 + 9091902779488452x + 62392561863527897$ | $x^{14} - 10619x^{12} - 283360x^{11} + 29460606x^{10} + 1541453606x^9 + 13483003800x^8 - 367957425528x^7 - 4913349374745x^6 + 18534326334062x^5 + 421307152415940x^4 + 597635087022050x^3 - 7522690063654297x^2 + 9091902779488452x + 62392561863527897$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3^2$ | I: 21,1 | $\frac{26}{21}$ |
| $x^{14} + 7x^{13} + 28x^{12} + 28x^{11} + 14x^{10} + 28x^9 + 28x^8 + 30x^7 + 7x^6 + 42x^5 + 7x^4 + 7x^3 + 21x + 10$ | $x^{14} + 406x^{12} + 59885x^{10} + 3815994x^8 + 98654346x^6 + 1101810920x^4 + 4471806409x^2 + 19430464$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3^2$ | I: 21,1 | $\frac{26}{21}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{14} + 42x^{13} + 21x^{12} + 21x^{11} +$ $21x^{10} + 21x^9 + 28x^8 + 37x^7 +$ $14x^5 + 21x^4 + 35x^3 + 7x^2 + 38$ | | $\begin{bmatrix} 4 & 4 \\ 3 & 3 \end{bmatrix}_3^4$ | I: 147,4 | $\frac{194}{147}$ |
| $x^{14} + 14x^{13} + 42x^{11} + 28x^{10} +$ $7x^9 + 21x^8 + 37x^7 + 14x^6 +$ $7x^4 + 28x^2 + 14x + 31$ | $x^{14} - 84x^{12} + 2408x^{10} - 21336x^8 -$ $45144x^7 + 75656x^6 + 510720x^5 +$ $546672x^4 - 544768x^3 - 930720x^2 +$ $306432x + 611488$ | $\begin{bmatrix} 4 & 4 \\ 3 & 3 \end{bmatrix}_3^2$ | I: 147,4 | $\frac{194}{147}$ |
| $x^{14} + 42x^{13} + 35x^{12} + 42x^{10} +$ $21x^9 + 42x^8 + 37x^7 + 42x^6 +$ $28x^5 + 35x^4 + 21x^3 + 28x^2 + 31$ | | $\begin{bmatrix} 4 & 4 \\ 3 & 3 \end{bmatrix}_3^4$ | I: 147,4 | $\frac{194}{147}$ |
| $x^{14} + 14x^{13} + 14x^{12} + 35x^{11} +$ $35x^{10} + 35x^9 + 14x^8 + 37x^7 +$ $28x^6 + 7x^5 + 28x^4 + 35x^3 +$ $14x^2 + 28x + 3$ | | $\begin{bmatrix} 4 & 4 \\ 3 & 3 \end{bmatrix}_3^4$ | I: 147,4 | $\frac{194}{147}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{14} + 21x^{11} + 14x^{10} + 35x^9 + 28x^8 + 30x^7 + 42x^6 + 35x^5 + 7x^4 + 42x^3 + 42x^2 + 42x + 31$ | $x^{14} - 42x^{11} + 154x^{10} + 434x^9 + 882x^8 - 1262x^7 - 5635x^6 - 6048x^5 + 11354x^4 + 33166x^3 + 47089x^2 + 2604x + 72$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3^2$ | I: 21, 1 | $\frac{26}{21}$ |
| $x^{14} + 42x^{12} + 42x^{11} + 28x^9 + 42x^8 + 44x^7 + 14x^6 + 21x^5 + 35x^3 + 42x^2 + 14x + 24$ | $x^{14} - 162932x^{11} - 5398008x^{10} + 3612840x^9 + 15026883641x^8 + 323186221182x^7 - 4786626112653x^6 - 460608836586206x^5 - 1961895141096429x^4 + 372865710841818810x^3 + 14594916494740447558x^2 + 239133060219591433896x + 1963696741280576493741$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3^2$ | I: 147, 4 | $\frac{194}{147}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{14} + 21x^{11} + 42x^9 + 14x^8 +$ $9x^7 + 14x^6 + 14x^5 + 28x^4 +$ $14x^3 + 42x^2 + 21x + 17$ | $x^{14} - 42x^{11} + 126x^{10} + 378x^9 +$ $882x^8 - 2754x^7 + 3969x^6 + 26460x^5 +$ $75978x^4 + 17010x^3 + 3969x^2 + 6804x +$ 5832 | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3^2$ | I: 21,1 | $\frac{26}{21}$ |
| $x^{14} + 21x^{13} + 7x^{12} + 28x^{11} +$ $7x^{10} + 28x^9 + 28x^8 + 44x^7 +$ $7x^6 + 42x^5 + 7x^4 + 21x^3 +$ $21x^2 + 3$ | | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3^4$ | I: 147,4 | $\frac{194}{147}$ |
| $x^{14} + 21x^{13} + 7x^{12} + 7x^{11} +$ $21x^{10} + 21x^9 + 42x^8 + 9x^7 +$ $28x^5 + 14x^3 + 7x^2 + 28x + 3$ | $x^{14} - 7x^{13} - 462x^{12} + 861x^{11} +$ $73906x^{10} + 167699x^9 - 3927903x^8 -$ $17944749x^7 + 52468353x^6 +$ $399139524x^5 + 191648296x^4 -$ $2254835758x^3 - 4313529143x^2 -$ $2508779602x - 379552083$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3^2$ | I: 21,1 | $\frac{26}{21}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|------------------|
| $x^{14} + 126x^{13} + 203x^{12} +$ $14x^{11} + 56x^{10} + 182x^9 +$ $112x^8 + 153x^7 + 203x^6 + 7x^5 +$ $273x^4 + 147x^3 + 28x^2 + 154x +$ 258 | | $\begin{bmatrix} 3 & 3 \\ 2 & 2 \end{bmatrix}_2^6$ | I: 98, 4 | $\frac{145}{98}$ |
| $x^{14} + 189x^{13} + 203x^{12} +$ $154x^{11} + 210x^{10} + 308x^9 +$ $315x^8 + 48x^7 + 280x^6 + 91x^5 +$ $252x^4 + 259x^3 + 49x^2 + 315x +$ 342 | $x^{14} - 14x^{11} - 147x^{10} + 1134x^9 -$ $2191x^8 + 894x^7 + 11123x^6 - 54684x^5 +$ $175959x^4 - 467005x^3 + 778155x^2 -$ $655025x + 212525$ | $\begin{bmatrix} 3 & 3 \\ 2 & 2 \end{bmatrix}_2^6$ | I: 98, 4 | $\frac{145}{98}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|------------------|
| $x^{14} + 280x^{13} + 161x^{12} +$ $133x^{11} + 168x^{10} + 245x^9 +$ $133x^8 + 146x^7 + 133x^6 +$ $189x^5 + 112x^4 + 168x^3 +$ $154x^2 + 287x + 6$ | $x^{14} - 84x^{12} - 714x^{11} + 903x^{10} +$ $19194x^9 + 130179x^8 + 770154x^7 +$ $4421025x^6 + 18209772x^5 +$ $50687910x^4 + 92629341x^3 +$ $109987731x^2 + 77743323x + 31685697$ | $\left[\begin{smallmatrix} 3 & 3 \\ 2 & 2 \end{smallmatrix} \right]_2^6$ | I: 98, 4 | $\frac{145}{98}$ |
| $x^{14} + 56x^{13} + 112x^{12} +$ $217x^{11} + 189x^{10} + 98x^9 +$ $287x^8 + 125x^7 + 140x^6 +$ $70x^5 + 154x^4 + 154x^3 +$ $231x^2 + 140x + 76$ | | $\left[\begin{smallmatrix} 3 & 3 \\ 2 & 2 \end{smallmatrix} \right]_2^6$ | I: 98, 4 | $\frac{145}{98}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|------------------|
| $x^{14} + 70x^{12} + 336x^{11} +$ $280x^{10} + 126x^9 + 336x^8 +$ $314x^7 + 112x^6 + 42x^5 +$ $266x^4 + 182x^3 + 154x^2 +$ $189x + 153$ | $x^{14} + 28x^{12} - 77x^{11} - 966x^{10} - 462x^9 +$ $4151x^8 + 2256x^7 - 7938x^6 - 4109x^5 +$ $4816x^4 - 546x^3 + 6321x^2 - 630x + 180$ | $\left[\begin{array}{c} 3 \\ 2 \\ 2 \end{array} \right]_2^2$ | I: 98, 4 | $\frac{145}{98}$ |
| $x^{14} + 245x^{13} + 182x^{12} +$ $280x^{11} + 70x^{10} + 168x^9 +$ $182x^8 + 321x^7 + 49x^6 +$ $189x^5 + 238x^4 + 217x^3 +$ $112x^2 + 189x + 230$ | $x^{14} + 28x^{12} - 154x^{11} + 546x^{10} -$ $2464x^9 + 9933x^8 - 25326x^7 +$ $36897x^6 - 24304x^5 - 7476x^4 +$ $24584x^3 - 12880x^2 + 672x + 704$ | $\left[\begin{array}{c} 3 \\ 2 \\ 2 \end{array} \right]_2^2$ | I: 98, 4 | $\frac{145}{98}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|----------|------------------|
| $x^{14} + 77x^{13} + 245x^{12} + 7x^{11} +$ $154x^{10} + 203x^9 + 224x^8 +$ $188x^7 + 287x^6 + 238x^5 +$ $203x^4 + 119x^3 + 84x^2 + 42x +$ 146 | | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^6$ | I: 98, 4 | $\frac{145}{98}$ |
| $x^{14} + 308x^{13} + 280x^{12} +$ $322x^{11} + 105x^{10} + 161x^9 +$ $91x^8 + 167x^7 + 49x^6 + 105x^5 +$ $217x^4 + 224x^3 + 273x^2 +$ $231x + 13$ | | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^6$ | I: 98, 4 | $\frac{145}{98}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|------------------|
| $x^{14} + 231x^{13} + 217x^{12} +$ $154x^{11} + 245x^{10} + 98x^9 +$ $245x^8 + 307x^7 + 112x^6 +$ $322x^5 + 315x^4 + 203x^3 +$ $154x^2 + 42x + 216$ | $x^{14} + 84x^{12} - 1008x^{11} -$ $1764x^{10} + 39837x^9 - 33369x^8 -$ $521199x^7 + 183015x^6 + 8641836x^5 -$ $24326442x^4 + 13577508x^3 +$ $63187803x^2 - 187226550x +$ 183010149 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^6$ | I: 98, 4 | $\frac{145}{98}$ |
| $x^{14} + 196x^{12} + 70x^{11} +$ $287x^{10} + 140x^8 + 13x^7 +$ $196x^6 + 315x^5 + 77x^3 +$ $210x^2 + 21x + 342$ | $x^{14} + 7x^{12} - 7x^{11} - 35x^{10} + 63x^9 +$ $28x^8 - 51x^7 - 98x^6 + 35x^5 + 308x^4 -$ $259x^3 - 154x^2 + 252x - 79$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^2$ | I: 98, 4 | $\frac{145}{98}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|---------|------------------|
| $x^{14} + 273x^{13} + 315x^{12} +$ $154x^{11} + 308x^{10} + 7x^9 +$ $70x^8 + 244x^7 + 217x^6 +$ $182x^5 + 70x^4 + 21x + 328$ | $x^{14} + 56x^{12} - 210x^{11} + 1197x^{10} -$ $5124x^9 + 22393x^8 - 68256x^7 +$ $169316x^6 - 371784x^5 + 611667x^4 -$ $241962x^3 - 939869x^2 + 675486x +$ 614723 | $\left[\begin{smallmatrix} 3 \\ 2 \end{smallmatrix} \right]_2^6$ | I: 14,1 | $\frac{19}{14}$ |
| $x^{14} + 112x^{13} + 14x^{12} +$ $315x^{11} + 28x^{10} + 161x^9 +$ $266x^8 + 139x^7 + 49x^6 +$ $161x^5 + 91x^4 + 231x^3 +$ $126x^2 + 238x + 146$ | $x^{14} - 63x^{11} + 259x^{10} - 91x^9 +$ $672x^8 - 7064x^7 + 15043x^6 - 19061x^5 +$ $29393x^4 - 26894x^3 + 8218x^2 + 1001x -$ 109 | $\left[\begin{smallmatrix} 3 \\ 2 \end{smallmatrix} \right]_2^2$ | I: 98,4 | $\frac{145}{98}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|---------|------------------|
| $x^{14} + 56x^{13} + 91x^{12} + 35x^{11} +$ $42x^{10} + 189x^9 + 35x^8 +$ $321x^7 + 49x^6 + 238x^5 +$ $315x^4 + 98x^3 + 112x^2 + 105x +$ 202 | $x^{14} - 14x^{12} + 63x^{10} + 98x^8 - 1519x^6 +$ $4256x^4 - 4480x^2 + 1600$ | $\left[\begin{matrix} 3 \\ 2 \end{matrix} \right]_2^2$ | I: 14,1 | $\frac{19}{14}$ |
| $x^{14} + 322x^{13} + 154x^{12} +$ $161x^{11} + 63x^{10} + 287x^9 +$ $140x^8 + 132x^7 + 245x^6 +$ $301x^5 + 84x^4 + 175x^3 +$ $210x^2 + 7x + 300$ | | $\left[\begin{matrix} 3 \\ 2 \end{matrix} \right]_2^6$ | I: 98,4 | $\frac{145}{98}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|------------------|
| $x^{14} + 336x^{12} + 154x^{11} +$ $133x^{10} + 266x^9 + 287x^8 +$ $342x^7 + 140x^6 + 315x^5 +$ $203x^4 + 336x^3 + 217x^2 +$ $224x + 195$ | $x^{14} - 28x^{12} - 91x^{11} + 154x^{10} +$ $8743x^9 - 41048x^8 + 14191x^7 +$ $291599x^6 - 604723x^5 - 451129x^4 +$ $3398304x^3 - 4445728x^2 - 398895x +$ 3827259 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^6$ | I: 98, 4 | $\frac{145}{98}$ |
| $x^{14} + 21x^{13} + 329x^{12} +$ $329x^{11} + 231x^{10} + 273x^9 +$ $77x^8 + 342x^7 + 133x^6 +$ $203x^5 + 273x^4 + 280x^3 +$ $91x^2 + 294x + 251$ | $x^{14} - 14x^{12} - 14x^{11} + 70x^{10} + 126x^9 -$ $105x^8 - 378x^7 - 98x^6 + 343x^5 +$ $245x^4 + 7x^3 - 84x^2 - 105x + 95$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^2$ | I: 98, 4 | $\frac{145}{98}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|------------------|
| $x^{14} + 140x^{13} + 315x^{12} +$ $294x^{11} + 7x^{10} + 210x^9 +$ $231x^8 + 160x^7 + 14x^6 +$ $112x^5 + 189x^4 + 21x^3 + 84x^2 +$ $154x + 62$ | $x^{14} - 56x^{11} + 196x^{10} + 28x^9 - 6433x^8 -$ $3048x^7 + 33320x^6 + 106330x^5 -$ $549780x^4 - 1920548x^3 + 3770711x^2 +$ $5788160x - 25649920$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^6$ | I: 98, 4 | $\frac{145}{98}$ |
| $x^{14} + 70x^{13} + 336x^{12} +$ $175x^{11} + 84x^{10} + 196x^8 +$ $160x^7 + 161x^6 + 252x^5 +$ $238x^4 + 322x^3 + 245x^2 + 28x +$ 97 | | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^6$ | I: 98, 4 | $\frac{145}{98}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|------------------|
| $x^{14} + 231x^{13} + 273x^{12} +$ $63x^{11} + 294x^{10} + 70x^9 +$ $203x^8 + 62x^7 + 238x^6 +$ $259x^5 + 182x^4 + 252x^3 +$ $154x^2 + 161x + 125$ | $x^{14} - 7x^{11} + 42x^{10} - 63x^9 + 21x^8 +$ $55x^7 - 196x^6 + 147x^5 - 266x^4 + 77x^3 -$ $238x^2 - 35x - 89$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^2$ | I: 98, 4 | $\frac{145}{98}$ |
| $x^{14} + 273x^{13} + 329x^{12} +$ $161x^{11} + 154x^{10} + 217x^9 +$ $133x^8 + 146x^7 + 175x^6 +$ $329x^5 + 42x^4 + 245x^3 + 14x^2 +$ $119x + 272$ | $x^{14} + 28x^{12} - 84x^{11} - 49x^{10} - 154x^9 -$ $77x^8 + 3144x^7 - 833x^6 - 5054x^5 -$ $1666x^4 + 1134x^3 + 4305x^2 + 6482x +$ 2804 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^2$ | I: 98, 4 | $\frac{145}{98}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|---------|------------------|
| $x^{14} + 266x^{13} + 287x^{12} +$ $329x^{11} + 308x^{10} + 273x^9 +$ $315x^8 + 335x^7 + 336x^6 +$ $119x^5 + 189x^4 + 77x^3 +$ $105x^2 + 84x + 160$ | | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^6$ | I: 98,4 | $\frac{145}{98}$ |
| $x^{14} + 329x^{13} + 203x^{12} +$ $308x^{11} + 280x^{10} + 14x^9 +$ $329x^8 + 286x^7 + 280x^6 +$ $42x^5 + 28x^4 + 259x^3 + 175x^2 +$ $259x + 69$ | $x^{14} - 28x^{12} - 168x^{11} - 315x^{10} +$ $2268x^9 + 23184x^8 + 106984x^7 +$ $351498x^6 + 828156x^5 + 1221528x^4 +$ $808220x^3 + 181153x^2 + 25004x +$ 224118 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^6$ | I: 14,1 | $\frac{19}{14}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|---------|------------------|
| $x^{14} + 294x^{13} + 21x^{12} +$ $322x^{11} + 224x^{10} + 315x^9 +$ $63x^8 + 111x^7 + 273x^6 +$ $140x^5 + 189x^4 + 63x^3 +$ $182x^2 + 119x + 258$ | $x^{14} + 49x^{10} - 77x^9 + 126x^8 + 29x^7 +$ $49x^6 - 49x^5 + 98x^4 + 77x^3 + 70x^2 +$ $7x - 1$ | $\left[\begin{matrix} 3 \\ 2 \end{matrix} \right]_2^2$ | I: 14,1 | $\frac{19}{14}$ |
| $x^{14} + 301x^{13} + 196x^{12} +$ $287x^{11} + 161x^{10} + 189x^9 +$ $308x^8 + 97x^7 + 245x^6 + 49x^5 +$ $140x^4 + 259x^3 + 336x + 293$ | $x^{14} + 231x^{12} - 105x^{11} + 15498x^{10} -$ $32634x^9 + 569772x^8 - 528750x^7 +$ $8588916x^6 - 385560x^5 - 337932x^4 -$ $12461526x^3 + 7503111x^2 - 505197x -$ 283581 | $\left[\begin{matrix} 3 \\ 2 \end{matrix} \right]_2^6$ | I: 98,4 | $\frac{145}{98}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|------------------|
| $x^{14} + 7x^{13} + 315x^{12} + 77x^{11} +$ $126x^{10} + 301x^9 + 35x^8 +$ $202x^7 + 322x^6 + 308x^5 +$ $273x^4 + 224x^2 + 140x + 139$ | $x^{14} - 7x^{13} - 63x^{12} + 385x^{11} + 1848x^{10} -$ $10563x^9 - 38857x^8 + 244825x^7 +$ $1625785x^6 + 3298337x^5 + 729372x^4 -$ $8101079x^3 - 14633997x^2 -$ $10769171x - 3027211$ | $\left[\begin{matrix} 3 \\ 2 \end{matrix} \right]_2^6$ | I: 14, 1 | $\frac{19}{14}$ |
| $x^{14} + 63x^{13} + 196x^{12} +$ $322x^{11} + 273x^{10} + 308x^9 +$ $238x^8 + 104x^7 + 147x^5 +$ $112x^4 + 217x^3 + 49x^2 + 126x +$ 13 | | $\left[\begin{matrix} 3 \\ 2 \end{matrix} \right]_2^6$ | I: 98, 4 | $\frac{145}{98}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{14} + 42x^{13} + 308x^{11} +$ $329x^{10} + 161x^8 + 223x^7 +$ $105x^6 + 308x^5 + 322x^4 +$ $336x^3 + 315x^2 + 21x + 223$ | $x^{14} + 56x^{12} - 112x^{11} + 973x^{10} -$ $3892x^9 + 11956x^8 - 27180x^7 +$ $111986x^6 - 154224x^5 + 345744x^4 -$ $974820x^3 + 1739745x^2 + 648704x +$ 5150786 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^6$ | I: 14,1 | $\frac{19}{14}$ |
| $x^{14} + 154x^{13} + 308x^{12} +$ $133x^{11} + 224x^{10} + 329x^9 +$ $91x^8 + 261x^7 + 238x^6 + 91x^5 +$ $259x^4 + 182x^3 + 35x^2 + 301x +$ 178 | | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^4$ | I: 147,4 | $\frac{242}{147}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{14} + 280x^{13} + 329x^{12} +$ $119x^{11} + 196x^{10} + 7x^9 +$ $259x^8 + 72x^7 + 294x^6 + 21x^5 +$ $133x^4 + 189x^3 + 238x^2 + 14x +$ 87 | $x^{14} - 3535x^{12} - 7084x^{11} +$ $6258735x^{10} + 14302596x^9 -$ $5863370093x^8 - 14874958912x^7 +$ $3173353471323x^6 +$ $10490103908900x^5 -$ $773309033440769x^4 -$ $6744164223860140x^3 +$ $99993775280344645x^2 +$ $772347475694365032x +$ 1651180720221795401 | $\begin{bmatrix} 5 & 5 \\ 3 & 3 \end{bmatrix}^2_3$ | I: 147,4 | $\frac{242}{147}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{14} + 315x^{13} + 182x^{12} +$ $91x^{11} + 35x^{10} + 329x^9 +$ $182x^8 + 107x^7 + 42x^6 +$ $189x^5 + 168x^4 + 133x^3 +$ $21x^2 + 70x + 325$ | $x^{14} + 7x^{12} - 70448x^{11} +$ $1101030x^{10} + 16095814x^9 +$ $256531506x^8 - 15311125104x^7 +$ $33485410476x^6 + 115935833818x^5 +$ $43262534133714x^4$ $358333561821998x^3$ $377863933121192x^2$ $12025249307506344x$ 91049087250505721 | $\begin{bmatrix} 5 & 5 \\ 3 & 3 \end{bmatrix}_3^2$ | I: 147,4 | $\frac{242}{147}$ |
| $x^{14} + 280x^{13} + 126x^{12} +$ $203x^{11} + 154x^{10} + 189x^9 +$ $203x^8 + 86x^7 + 105x^6 +$ $224x^5 + 126x^4 + 231x^3 +$ $70x^2 + 336x + 297$ | | $\begin{bmatrix} 5 & 5 \\ 3 & 3 \end{bmatrix}_3^4$ | I: 147,4 | $\frac{242}{147}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-----------------|
| $x^{14} + 28x^{13} + 133x^{12} + 28x^{11} +$ $259x^{10} + 273x^9 + 224x^8 +$ $142x^7 + 231x^6 + 322x^5 +$ $252x^4 + 224x^3 + 245x^2 +$ $119x + 283$ | $x^{14} - 98x^{12} + 3759x^{10} - 72975x^8 +$ $764155x^6 - 4142691x^4 + 9356634x^2 -$ 1601613 | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^2$ | I: 21, 1 | $\frac{32}{21}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{14} - 7x^{13} - 7420x^{12} +$ $325458x^{11} + 3168620x^{10} -$ $488850922x^9 + 10508158633x^8 +$ $11033519702x^7 - 4045478511564x^6 +$ $75047205812929x^5 -$ $647567512473259x^4 -$ $2562007877829351x^3 -$ $638126842787812x^2 -$ $27224333643729138x +$ 61281115829860117 | $x^{14} - 7x^{13} - 7420x^{12} +$ $325458x^{11} + 3168620x^{10} -$ $488850922x^9 + 10508158633x^8 +$ $11033519702x^7 - 4045478511564x^6 +$ $75047205812929x^5 -$ $647567512473259x^4 -$ $2562007877829351x^3 -$ $638126842787812x^2 -$ $27224333643729138x +$ 61281115829860117 | $\begin{bmatrix} 5 & & \\ & 5 & \\ & & 3 \end{bmatrix}_3^2$ | I: 147,4 | $\frac{242}{147}$ |
| $x^{14} + 84x^{13} + 63x^{12} + 280x^{11} +$ $287x^{10} + 126x^9 + 315x^8 +$ $303x^7 + 189x^6 + 203x^5 +$ $21x^4 + 231x^3 + 196x^2 + 42x +$ 73 | | | | |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{14} + 322x^{13} + 238x^{12} +$ $210x^{11} + 315x^{10} + 273x^9 +$ $147x^8 + 275x^7 + 231x^6 +$ $98x^5 + 294x^4 + 105x^3 +$ $161x^2 + 301x + 290$ | $x^{14} - 7x^{13} - 6307x^{12} -$ $111951x^{11} + 9178078x^{10} +$ $304681349x^9 - 186449494x^8 -$ $91171341257x^7 - 486544972781x^6 +$ $8534864933805x^5$ $49921151423332x^4$ $245443472902460x^3$ $1459105652574164x^2$ $2007998737947916x$ 12360718838548939 | $\begin{bmatrix} 5 & & \\ & 5 & \\ & & 3 \end{bmatrix}_3^2$ | I: 147,4 | $\frac{242}{147}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{14} + 294x^{13} + 203x^{12} +$ $315x^{11} + 294x^{10} + 63x^9 +$ $252x^8 + 23x^7 + 280x^6 +$ $329x^5 + 266x^4 + 105x^3 +$ $217x^2 + 252x + 304$ | $x^{14} + 7x^{12} - 70x^{11} - 588x^{10} +$ $2744x^9 + 19782x^8 - 181884x^7 +$ $636321x^6 - 1326976x^5 + 2050419x^4 -$ $2897230x^3 + 3725498x^2 - 3376968x +$ 1480016 | $\left[\begin{matrix} 5 \\ 3 \end{matrix} \right]_3^2$ | I: 21,1 | $\frac{32}{21}$ |
| $x^{14} + 175x^{13} + 308x^{12} +$ $126x^{11} + 245x^{10} + 238x^9 +$ $175x^8 + 331x^7 + 119x^6 +$ $189x^5 + 301x^4 + 42x^3 +$ $273x^2 + 28x + 94$ | | $\left[\begin{matrix} 5 \\ 3 \end{matrix} \right]_3^4$ | I: 147,4 | $\frac{242}{147}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|------------------------------------|-------------------------------------|--|----------|-------------------|
| x^{14} | $- 1554x^{12} - 66304x^{11} -$ | | | |
| | $310023x^{10} + 59145240x^9 +$ | | | |
| | $3867212916x^8 + 133466061006x^7 +$ | | | |
| $x^{14} + 70x^{13} + 168x^{12} +$ | $3346232179017x^6 +$ | | | |
| $168x^{11} + 154x^{10} + 280x^9 +$ | $62434304860634x^5 +$ | $\begin{bmatrix} 5 & 5 \\ 3 & 3 \end{bmatrix}^2_3$ | I: 147,4 | $\frac{242}{147}$ |
| $182x^8 + 79x^7 + 308x^6 +$ | $940172954802018x^4 +$ | | | |
| $252x^5 + 133x^4 + 91x^3 + 7x^2 +$ | $10074032985279396x^3 +$ | | | |
| $259x + 38$ | $79450640745397649x^2 +$ | | | |
| | $385168350753834396x +$ | | | |
| | 1135845396635114205 | | | |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{14} + 287x^{13} + 14x^{12} +$ $238x^{11} + 119x^{10} + 217x^9 +$ $287x^8 + 275x^7 + 301x^6 +$ $175x^5 + 322x^4 + 266x^3 +$ $182x^2 + 266x + 38$ | | $\begin{bmatrix} 5 & 5 \\ 3 & 3 \end{bmatrix}_3^4$ | I: 147,4 | $\frac{242}{147}$ |
| $x^{14} + 175x^{13} + 28x^{12} +$ $210x^{11} + 210x^{10} + 301x^9 +$ $70x^8 + 128x^7 + 315x^6 +$ $245x^5 + 259x^4 + 252x^3 +$ $14x^2 + 42x + 10$ | $x^{14} + 1561x^{12} + 830634x^{10} +$ $179607211x^8 + 15303087814x^6 +$ $550548385758x^4 +$ $8479161494937x^2 + 46499129226729$ | $\begin{bmatrix} 5 \\ 3 \end{bmatrix}_3^2$ | I: 21,1 | $\frac{32}{21}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{14} - 3535x^{12} - 7084x^{11} +$ $6258735x^{10} + 14302596x^9 -$ $5863370093x^8 - 14693720844x^7 +$ $3173160659011x^6 +$ $182x^{11} + 245x^{13} + 238x^{12} +$ $10214106805980x^5 -$ $336x^6 + 7x^5 + 245x^4 + 70x^3 +$ $161x + 164$ | $x^{14} - 3535x^{12} - 7084x^{11} +$ $6258735x^{10} + 14302596x^9 -$ $5863370093x^8 - 14693720844x^7 +$ $3173160659011x^6 +$ $10214106805980x^5 -$ $771459298712389x^4$ $6790802862608072x^3$ $99015604291026661x^2$ $819829398794519344x$ 1780294403127792289 | $\begin{bmatrix} 5 & & \\ & 5 & \\ & & 3 \end{bmatrix}^2$ $\begin{bmatrix} 5 & & \\ & 5 & \\ & & 3 \end{bmatrix}^3$ | I: 147,4 | $\frac{242}{147}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|----------|-------------------|
| $x^{14} + 105x^{13} + 266x^{12} +$ $252x^{11} + 245x^{10} + 28x^9 +$ $91x^8 + 205x^7 + 126x^6 +$ $301x^5 + 70x^4 + 63x^3 + 196x^2 +$ $147x + 311$ | | $\begin{bmatrix} 5 & 5 \\ 3 & 3 \end{bmatrix}_3^4$ | I: 147,4 | $\frac{242}{147}$ |
| $x^{14} + 49x^{13} + 322x^{12} +$ $238x^{11} + 238x^{10} + 245x^9 +$ $119x^8 + 338x^7 + 147x^6 +$ $21x^5 + 175x^4 + 140x^3 + 63x^2 +$ $224x + 297$ | | $\begin{bmatrix} 5 & 5 \\ 3 & 3 \end{bmatrix}_3^4$ | I: 147,4 | $\frac{242}{147}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|----------|-------------------|
| $x^{14} + 329x^{13} + 189x^{12} +$ $336x^{11} + 322x^{10} + 175x^9 +$ $147x^8 + 317x^7 + 189x^5 +$ $315x^4 + 133x^3 + 126x^2 +$ $280x + 276$ | | $\begin{bmatrix} 5 & 5 \\ 3 & 3 \end{bmatrix}_3^4$ | I: 147,4 | $\frac{242}{147}$ |
| $x^{14} + 329x^{13} + 273x^{12} +$ $245x^{11} + 7x^{10} + 84x^9 +$ $315x^8 + 324x^7 + 119x^6 +$ $301x^5 + 98x^4 + 112x^3 +$ $168x^2 + 56x + 38$ | | $\begin{bmatrix} 5 & 5 \\ 3 & 3 \end{bmatrix}_3^4$ | I: 147,4 | $\frac{242}{147}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|---------|-----------------|
| $x^{14} - 7x^{13} - 2226x^{12} + 2317x^{11} +$ $1782564x^{10} + 6260821x^9 -$ $596722441x^8 - 3595153133x^7 +$ $84233969855x^6 + 610151030762x^5 -$ $4336134444460x^4$ | $x^{14} - 7x^{13} - 2226x^{12} + 2317x^{11} +$ $1782564x^{10} + 6260821x^9 -$ $596722441x^8 - 3595153133x^7 +$ $84233969855x^6 + 610151030762x^5 -$ $4336134444460x^4$ | $\left[\begin{matrix} 5 \\ 3 \end{matrix} \right]_3^2$ | I: 21,1 | $\frac{32}{21}$ |
| $182x^8 + 149x^7 + 259x^6 +$ $329x^5 + 56x^4 + 315x^3 +$ $336x^2 + 308x + 108$ | $1782564x^{10} + 6260821x^9 -$ $596722441x^8 - 3595153133x^7 +$ $84233969855x^6 + 610151030762x^5 -$ $4336134444460x^4$ $32297768576710x^3$ $59710262751321x^2$ $403047988717556x$ 41441192167791 | | | |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{14} + 63x^{13} + 49x^{12} + 63x^{11} +$ $7x^{10} + 175x^9 + 266x^8 +$ $107x^7 + 63x^6 + 147x^5 +$ $217x^4 + 175x^3 + 63x^2 + 315x +$ 269 | $x^{14} - 3535x^{12} - 7084x^{11} +$ $6258735x^{10} + 14302596x^9 -$ $5863370093x^8 - 14513855554x^7 +$ $3173007421465x^6 +$ $9930557305438x^5 -$ $769671979886019x^4 -$ $6827233172356058x^3 +$ $98044938948837503x^2 +$ $865687880797481126x +$ 1918422023984051609 | $\begin{bmatrix} 5 & & \\ & 5 & \\ & & 3 \end{bmatrix}_3^2$ | I: 147,4 | $\frac{242}{147}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{14} + 301x^{13} + 189x^{12} +$ $21x^{11} + 126x^{10} + 21x^9 +$ $196x^8 + 170x^7 + 35x^6 +$ $112x^5 + 42x^4 + 203x^3 +$ $182x^2 + 84x + 150$ | | $\begin{bmatrix} 5 & 5 \\ 3 & 3 \end{bmatrix}_3^4$ | I: 147,4 | $\frac{242}{147}$ |
| $x^{14} + 203x^{13} + 14x^{12} +$ $308x^{10} + 49x^9 + 266x^8 +$ $44x^7 + 98x^6 + 175x^5 + 28x^4 +$ $28x^2 + 224x + 115$ | $x^{14} + 21x^{10} - 6x^7 + 98x^6 - 42x^5 +$ $84x^3 + 49x^2 + 42x + 18$ | $\begin{bmatrix} 5 \\ 3 \end{bmatrix}_3^2$ | I: 21,1 | $\frac{32}{21}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{14} + 161x^{13} + 315x^{12} +$ $210x^{11} + 259x^{10} + 301x^9 +$ $154x^8 + 338x^7 + 42x^6 +$ $259x^5 + 224x^4 + 287x^3 +$ $140x^2 + 21x + 101$ | $x^{14} + 7084x^{12} +$ $19714772x^{10} + 27206385360x^8 +$ $19273003389024x^6 +$ $6501426476564096x^4 +$ $822430449285358144x^2 +$ 16784294883374656 | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^2$ | I: 21,1 | $\frac{32}{21}$ |
| $x^{14} + 42x^{13} + 245x^{12} + 49x^{11} +$ $63x^9 + 301x^8 + 86x^7 + 49x^6 +$ $224x^5 + 175x^4 + 98x^3 +$ $105x^2 + 175x + 80$ | | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^4$ | I: 147,4 | $\frac{242}{147}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{14} + 252x^{12} + 329x^{11} +$ $161x^{10} + 238x^9 + 224x^8 +$ $128x^7 + 196x^6 + 294x^5 +$ $224x^3 + 140x + 101$ | $x^{14} - 5180x^{11} - 25641x^{10} +$ $23254056x^9 - 167490379x^8 -$ $25063233900x^7 - 36930304173x^6 +$ $8618240425522x^5 +$ $43256451676683x^4$ $1060993849892424x^3$ $2799817611985079x^2$ $129278087134984830x$ 770170981435361613 | $\begin{bmatrix} 5 & & \\ & 5 & \\ & & 3 \end{bmatrix}_3^2$ | I: 147,4 | $\frac{242}{147}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{14} + 133x^{13} + 217x^{12} +$ $252x^{11} + 105x^{10} + 238x^9 +$ $322x^8 + 51x^7 + 56x^6 + 315x^5 +$ $217x^4 + 168x^3 + 224x^2 + 63x +$ 101 | $x^{14} - 7x^{13} - 5565x^{12} -$ $34412x^{11} + 8729168x^{10} +$ $161330288x^9 - 2475877880x^8 -$ $70194829378x^7 + 60655884023x^6 +$ $10298009080163x^5$ $45241907267221x^4$ $433873714485421x^3$ $3761453192316981x^2$ $8738581457140500x$ 6242654606652701 | $\left[\begin{array}{c} \frac{5}{3} \\ \frac{5}{3} \\ 3 \end{array} \right]^2$ $\left[\begin{array}{c} \frac{5}{3} \\ \frac{5}{3} \\ 3 \end{array} \right]^3$ | I: 147,4 | $\frac{242}{147}$ |
| $x^{14} + 140x^{13} + 175x^{12} +$ $189x^{11} + 161x^9 + 84x^8 +$ $65x^7 + 21x^5 + 77x^4 + 266x^3 +$ $154x^2 + 91x + 213$ | | $\left[\begin{array}{c} \frac{5}{3} \\ \frac{5}{3} \\ 3 \end{array} \right]^4$ $\left[\begin{array}{c} \frac{5}{3} \\ \frac{5}{3} \\ 3 \end{array} \right]^3$ | I: 147,4 | $\frac{242}{147}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|-----------|-------------------|
| $x^{14} + 112x^{13} + 98x^{12} +$ $133x^{11} + 217x^{10} + 21x^9 +$ $336x^8 + 51x^7 + 259x^6 +$ $154x^5 + 35x^4 + 112x^3 +$ $147x^2 + 63x + 283$ | | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^4$ | I: 147,4 | $\frac{242}{147}$ |
| $x^{14} + 21x^{13} + 105x^{12} +$ $231x^{11} + 161x^{10} + 252x^9 +$ $147x^8 + 30x^7 + 7x^6 + 231x^5 +$ $196x^4 + 301x^3 + 56x^2 + 308x +$ 306 | | $\left[\begin{array}{c} 11 \\ 6 \end{array} \right]_6^2$ | I: 294,13 | $\frac{533}{294}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|-----------------------------------|-----------|-------------------|
| $x^{14} + 140x^{13} + 189x^{12} +$ $70x^{11} + 196x^{10} + 308x^9 +$ $161x^8 + 303x^7 + 266x^6 +$ $56x^5 + 49x^4 + 91x^3 + 175x^2 +$ $140x + 271$ | $x^{14} - 42x^{11} + 231x^{10} - 1092x^9 +$ $2205x^8 + 39x^7 - 26019x^6 +$ $276360x^5 - 1546902x^4 + 4563636x^3 -$ $6841331x^2 + 4722900x - 1085895$ | $\left[\frac{11}{6} \right]_6^2$ | I: 294,13 | $\frac{533}{294}$ |
| $x^{14} + 133x^{13} + 42x^{12} +$ $189x^{11} + 35x^{10} + 245x^9 +$ $140x^8 + 268x^7 + 154x^6 +$ $238x^5 + 119x^4 + 56x^3 + 63x^2 +$ $77x + 145$ | | $\left[\frac{11}{6} \right]_6^2$ | I: 294,13 | $\frac{533}{294}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|-----------------------------------|-----------|-------------------|
| $x^{14} + 203x^{13} + 161x^{12} +$ $203x^{11} + 161x^{10} + 217x^9 +$ $280x^8 + 121x^7 + 203x^6 +$ $259x^5 + 161x^4 + 14x^3 +$ $203x^2 + 14x + 75$ | | $\left[\frac{11}{6} \right]_6^2$ | I: 294,13 | $\frac{533}{294}$ |
| $x^{14} + 273x^{13} + 161x^{12} +$ $196x^{11} + 112x^{10} + 280x^9 +$ $119x^8 + 44x^7 + 119x^6 + 7x^5 +$ $266x^4 + 7x^3 + 21x^2 + 287x + 19$ | | $\left[\frac{11}{6} \right]_6^2$ | I: 294,13 | $\frac{533}{294}$ |
| $x^{14} + 189x^{13} + 182x^{12} +$ $259x^{11} + 84x^{10} + 14x^9 +$ $329x^8 + 177x^7 + 112x^6 +$ $336x^5 + 224x^4 + 168x^3 +$ $28x^2 + 77x + 110$ | | $\left[\frac{11}{6} \right]_6^2$ | I: 294,13 | $\frac{533}{294}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|------------|-------------------|
| $x^{14} + 196x^{13} + 224x^{12} +$ $98x^{11} + 42x^{10} + 105x^8 +$ $184x^7 + 119x^6 + 84x^5 + 63x^4 +$ $154x^3 + 147x^2 + 7x + 19$ | | $\left[\frac{11}{6} \frac{11}{6} \right]_6^2$ | I: 294, 13 | $\frac{533}{294}$ |
| $x^{14} + 161x^{13} + 91x^{12} +$ $133x^{11} + 231x^{10} + 329x^9 +$ $287x^8 + 30x^7 + 231x^6 +$ $161x^5 + 49x^4 + 287x^3 + 77x^2 +$ $63x + 5$ | $x^{14} + 182x^{12} - 98x^{11} + 15918x^{10} -$ $1890x^9 + 832139x^8 + 766632x^7 +$ $2786465x^6 + 47580036x^5 +$ $622620579x^4 + 973180796x^3 +$ $8699402047x^2 + 6373305666x +$ 54962801751 | $\left[\frac{11}{6} \right]_6^2$ | I: 42, 1 | $\frac{71}{42}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|-----------------------------------|-----------|-------------------|
| $x^{14} + 273x^{13} + 133x^{12} +$ $217x^{11} + 287x^{10} + 140x^9 +$ $175x^8 + 37x^7 + 252x^6 +$ $182x^5 + 154x^4 + 168x^3 +$ $245x^2 + 294x + 131$ | $x^{14} - 42x^{11} + 231x^{10} - 602x^9 -$ $3234x^8 + 8831x^7 + 75509x^6 -$ $194922x^5 + 302603x^4 - 631687x^3 +$ $425859x^2 + 455441x - 468537$ | $\left[\frac{11}{6} \right]_6^2$ | I: 294,13 | $\frac{533}{294}$ |
| $x^{14} + 217x^{13} + 336x^{12} +$ $42x^{11} + 231x^{10} + 154x^9 +$ $63x^8 + 177x^7 + 28x^6 + 280x^5 +$ $126x^4 + 70x^3 + 161x^2 + 308x +$ 26 | | $\left[\frac{11}{6} \right]_6^2$ | I: 294,13 | $\frac{533}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|-----------------------------------|------------|-------------------|
| $x^{14} + 140x^{13} + 84x^{12} + 84x^{11} +$ $133x^{10} + 63x^9 + 252x^8 +$ $338x^7 + 49x^6 + 168x^5 +$ $196x^4 + 77x^3 + 329x^2 + 203x +$ 26 | | $\left[\frac{11}{6} \right]_6^2$ | I: 294, 13 | $\frac{533}{294}$ |
| $x^{14} + 252x^{13} + 231x^{12} +$ $294x^{11} + 140x^{10} + 28x^9 +$ $161x^8 + 205x^7 + 322x^6 +$ $70x^5 + 70x^4 + 329x^3 + 42x^2 +$ 187 | | $\left[\frac{11}{6} \right]_6^2$ | I: 294, 13 | $\frac{533}{294}$ |
| $x^{14} + 98x^{13} + 315x^{12} +$ $287x^{11} + 308x^{10} + 154x^9 +$ $282x^7 + 77x^6 + 252x^5 + 14x^4 +$ $182x^3 + 126x^2 + 203x + 173$ | | $\left[\frac{11}{6} \right]_6^2$ | I: 294, 13 | $\frac{533}{294}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|-----------------------------------|-----------|-------------------|
| $x^{14} + 70x^{13} + 301x^{11} +$ $203x^{10} + 77x^9 + 112x^8 +$ $16x^7 + 7x^6 + 196x^5 + 21x^4 +$ $322x^3 + 329x^2 + 259x + 250$ | $x^{14} - 126x^{12} + 3899x^{10} + 35658x^8 -$ $683207x^6 + 2818452x^4 - 4393536x^2 +$ 5161984 | $\left[\frac{11}{6} \right]_6^2$ | I: 42,1 | $\frac{71}{42}$ |
| $x^{14} + 224x^{13} + 49x^{12} + 70x^{11} +$ $182x^{10} + 182x^9 + 98x^8 +$ $135x^7 + 49x^6 + 336x^5 + 14x^4 +$ $91x^3 + 49x^2 + 77x + 47$ | $x^{14} - 42x^{10} + 154x^8 + 2009x^6 +$ $3906x^4 - 7x^2 + 16$ | $\left[\frac{11}{6} \right]_6^2$ | I: 42,1 | $\frac{71}{42}$ |
| $x^{14} + 217x^{13} + 175x^{12} +$ $308x^{11} + 21x^{10} + 266x^8 +$ $135x^7 + 189x^6 + 182x^5 +$ $98x^4 + 252x^3 + 63x^2 + 35x +$ 222 | $x^{14} - 14x^{11} + 49x^{10} + 14x^9 - 133x^8 -$ $78x^7 - 49x^6 + 882x^5 + 1470x^4 +$ $1351x^3 + 1211x^2 - 315x - 305$ | $\left[\frac{11}{6} \right]_6^2$ | I: 294,13 | $\frac{533}{294}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{14} + 329x^{13} + 77x^{12} +$ $322x^{11} + 49x^{10} + 322x^9 +$ $70x^8 + 2x^7 + 245x^6 + 56x^5 +$ $63x^4 + 210x^3 + 224x^2 + 56x +$ 152 | $x^{14} - 42x^{11} - 196x^{10} - 714x^9 -$ $1141x^8 - 1992x^7 + 4851x^6 + 30919x^4 -$ $14364x^3 - 40607x^2 + 452235x +$ 1196417 | $\left[\frac{11}{6} \frac{11}{6} \right]_6^2$ | I: 294,13 | $\frac{533}{294}$ |
| $x^{14} + 42x^{13} + 266x^{12} +$ $287x^{11} + 126x^{10} + 77x^9 +$ $308x^8 + 16x^7 + 196x^6 +$ $336x^5 + 70x^4 + 140x^3 + 231x +$ 180 | $x^{14} - 7x^{13} + 14x^{12} - 21x^{11} + 231x^{10} -$ $1134x^9 + 3283x^8 - 9055x^7 + 19460x^6 -$ $19803x^5 - 7329x^4 + 88242x^3 -$ $163926x^2 + 139734x - 42489$ | $\left[\frac{11}{6} \right]_6^2$ | I: 42,1 | $\frac{71}{42}$ |
| $x^{14} + 98x^{13} + 98x^{11} + 266x^{10} +$ $105x^9 + 140x^8 + 310x^7 +$ $70x^6 + 84x^5 + 175x^4 + 308x^3 +$ $168x^2 + 231x + 145$ | $x^{14} - 280x^{11} + 588x^{10} + 2688x^9 +$ $3542x^8 - 86868x^7 + 1176x^6 +$ $1768312x^5 - 4896276x^4 - 38724x^3 +$ $25088329x^2 - 44674728x + 42275511$ | $\left[\frac{11}{6} \frac{11}{6} \right]_6^2$ | I: 294,13 | $\frac{533}{294}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|-----------------------------------|-----------|-------------------|
| $x^{14} + 77x^{13} + 105x^{12} + 70x^{11} +$ $147x^{10} + 35x^9 + 70x^8 +$ $107x^7 + 126x^6 + 112x^5 +$ $77x^4 + 77x^3 + 161x^2 + 294x +$ 40 | $x^{14} - 14x^{11} + 294x^{10} - 924x^9 +$ $1484x^8 + 2910x^7 - 35868x^6 -$ $47138x^5 + 1013418x^4 - 3769164x^3 +$ $3254419x^2 + 6967170x - 18005724$ | $\left[\frac{11}{6} \right]_6^2$ | I: 42,1 | $\frac{71}{42}$ |
| $x^{14} + 301x^{13} + 168x^{12} +$ $147x^{11} + 301x^{10} + 203x^9 +$ $105x^8 + 219x^7 + 28x^6 +$ $315x^5 + 77x^4 + 210x^3 +$ $126x^2 + 14x + 292$ | $x^{14} - 14x^{11} + 154x^9 - 427x^8 + 621x^7 +$ $147x^6 - 2548x^5 + 7007x^4 - 11207x^3 +$ $11501x^2 - 6853x + 1979$ | $\left[\frac{11}{6} \right]_6^2$ | I: 294,13 | $\frac{533}{294}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|-----------------------------------|-----------|-------------------|
| $x^{14} + 126x^{13} + 119x^{12} +$ $28x^{11} + 84x^{10} + 252x^9 +$ $182x^8 + 338x^7 + 56x^6 +$ $203x^5 + 77x^4 + 84x^3 + 14x^2 +$ $273x + 180$ | $x^{14} - 14x^{11} - 42x^9 - 231x^8 + 509x^7 +$ $1519x^6 - 490x^5 - 2107x^4 - 1995x^3 -$ $2219x^2 - 1120x - 191$ | $\left[\frac{11}{6} \right]_6^2$ | I: 294,13 | $\frac{533}{294}$ |
| $x^{14} + 77x^{13} + 49x^{12} + 147x^{11} +$ $147x^{10} + 28x^9 + 203x^8 +$ $44x^7 + 224x^5 + 266x^4 +$ $231x^3 + 63x^2 + 182x + 124$ | $x^{14} - 7x^{13} - 63x^{11} + 2989x^{10} -$ $26530x^9 + 111552x^8 - 145302x^7 -$ $962542x^6 + 6547884x^5 -$ $20431313x^4 + 38687005x^3 -$ $45088484x^2 + 30045120x - 8799183$ | $\left[\frac{11}{6} \right]_6^2$ | I: 294,13 | $\frac{533}{294}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|-----------------------------------|-----------|-------------------|
| $x^{14} + 308x^{13} + 112x^{12} +$ $266x^{11} + 182x^{10} + 154x^9 +$ $154x^8 + 163x^7 + 301x^6 +$ $294x^5 + 238x^4 + 273x^3 +$ $84x^2 + 231x + 327$ | | $\left[\frac{11}{6} \right]_6^2$ | I: 294,13 | $\frac{533}{294}$ |
| $x^{14} + 287x^{13} + 49x^{12} +$ $182x^{11} + 175x^{10} + 105x^9 +$ $28x^8 + 296x^7 + 287x^6 +$ $175x^5 + 154x^4 + 294x^3 +$ $231x^2 + 231x + 194$ | | $\left[\frac{11}{6} \right]_6^2$ | I: 294,13 | $\frac{533}{294}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|-----------------------------------|-----------|-------------------|
| $x^{14} + 28x^{13} + 315x^{12} +$ $238x^{11} + 126x^{10} + 280x^9 +$ $231x^8 + 331x^7 + 217x^6 +$ $133x^5 + 224x^4 + 301x^3 +$ $294x^2 + 266x + 33$ | $x^{14} - 42x^{11} - 567x^{10} - 840x^9 - 882x^8 +$ $9066x^7 + 73941x^6 + 226968x^5 +$ $775089x^4 + 1649571x^3 + 3015901x^2 +$ $4924374x + 5051169$ | $\left[\frac{11}{6} \right]_6^2$ | I: 294,13 | $\frac{533}{294}$ |
| $x^{14} + 259x^{13} + 287x^{12} +$ $175x^{11} + 238x^{10} + 7x^9 +$ $51x^7 + 294x^6 + 322x^5 +$ $252x^4 + 7x^3 + 175x^2 + 63x +$ 166 | $x^{14} - 7x^{13} + 14x^{12} + 63x^{11} -$ $126x^{10} - 11109x^9 + 133385x^8 -$ $757256x^7 + 2656087x^6 - 6274639x^5 +$ $10050418x^4 - 10448039x^3 +$ $6572846x^2 - 2257493x + 331759$ | $\left[\frac{11}{6} \right]_6^2$ | I: 42,1 | $\frac{71}{42}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|---------|-----------------|
| $x^{14} - 812x^{12} - 11368x^{11} +$ $269178x^{10} + 7841078x^9 -$ $8155931x^8 - 2036746096x^7 -$ $16948767192x^6 + 201652285436x^5 +$ $3896287225390x^4$ | $+ 1470x^{12} +$ $2331x^9 +$ $2310x^6 +$ $1029x^5 + 1078x^4 + 483x^3 +$ $1449x^2 + 574x + 899$ | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^2$ | I: 49,2 | $\frac{96}{49}$ |
| $x^{14} + 175x^{13} + 1470x^{12} +$ $1218x^{11} + 98x^{10} + 2331x^9 +$ $2310x^8 + 1611x^7 + 2310x^6 +$ $1029x^5 + 1078x^4 + 483x^3 +$ $1449x^2 + 574x + 899$ | $- 812x^{12} - 11368x^{11} +$ $269178x^{10} + 7841078x^9 -$ $8155931x^8 - 2036746096x^7 -$ $16948767192x^6 + 201652285436x^5 +$ $3896287225390x^4$ | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^2$ | I: 49,2 | $\frac{96}{49}$ |
| $x^{14} + 175x^{13} + 1470x^{12} +$ $1218x^{11} + 98x^{10} + 2331x^9 +$ $2310x^8 + 1611x^7 + 2310x^6 +$ $1029x^5 + 1078x^4 + 483x^3 +$ $1449x^2 + 574x + 899$ | $1700154091103384x$ 15639507445567681 | | | |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|---------|-----------------|
| $x^{14} - 3101x^{12} - 19558x^{11} +$ $3360315x^{10} + 45318966x^9 -$ $1335240928x^8 - 31076815352x^7 -$ $4732215579x^6 + 5438525675506x^5 +$ $64886652338102x^4$ | $+ 346122855886192x^3$ $+ 926046060731428x^2$ $+ 1133919909725064x$ $+ 437810678386072$ | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^6$ | I: 49,2 | $\frac{96}{49}$ |
| $x^{14} + 1141x^{13} + 2205x^{12} +$ $2044x^{11} + 301x^{10} + 1855x^9 +$ $1050x^8 + 953x^7 + 1673x^6 +$ $105x^5 + 1904x^4 + 2135x^3 +$ $1386x^2 + 1463x + 1417$ | | | | |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|---------|-----------------|
| $x^{14} + 329x^{13} + 1407x^{12} +$ $868x^{11} + 539x^{10} + 49x^9 +$ $1456x^8 + 1226x^7 + 1785x^6 +$ $301x^5 + 2254x^4 + 1638x^3 +$ $1176x^2 + 1253x + 1081$ | $x^{14} - 812x^{12} + 195286x^{10} -$ $2842000x^9 - 7782208x^8 +$ $1016792896x^7 + 487955769x^6 -$ $30408285936x^5 + 1778710919468x^4 +$ $2266890606400x^3$ $68779382797552x^2$ $225529237620736x$ 6582059945445184 | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^2$ | I: 49,2 | $\frac{96}{49}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|---------|-----------------|
| $x^{14} - 812x^{12} - 17052x^{11} + 33292x^{10} + 5973884x^9 + 119461237x^8 + 1434512492x^7 + 17305925595x^6 + 216627553618x^5 + 2198130393417x^4 + 12975595193232x^3 + 68498733188788x^2 + 401719228663816x + 3347168674613789$ | | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^2$ | I: 49,2 | $\frac{96}{49}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|---------|----------------|
| $x^{14} + 826x^{13} + 2044x^{12} +$ $945x^{11} + 1638x^{10} + 1904x^9 +$ $812x^8 + 939x^7 + 1295x^6 +$ $1547x^5 + 224x^4 + 1694x^3 +$ $1624x^2 + 1617x + 577$ | $x^{14} + 1988x^{12} - 16898x^{11} +$ $2085412x^{10} - 38059266x^9 +$ $1357222510x^8 - 30566207444x^7 +$ $669001892699x^6$ $11075456940170x^5$ $185367544228461x^4$ $126473679306492x^3$ $18620996037011473x^2$ $65359298789509032x$ 4060355112314812189 | $\begin{bmatrix} 14 \\ 2 \\ 1 \end{bmatrix}$ | I: 7,1 | $\frac{12}{7}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|---------|-----------------|
| $x^{14} + 798x^{13} + 2156x^{12} + 917x^{11} + 350x^{10} + 1659x^9 + 1638x^8 + 806x^7 + 2163x^6 + 1673x^5 + 1169x^4 + 371x^3 + 504x^2 + 287x + 2145$ | $x^{14} - 3080x^{12} - 19558x^{11} + 2862860x^{10} + 29266006x^9 - 993499276x^8 - 12288162854x^7 + 129807225548x^6$ $1881450230660x^5$ $3688721559908x^4$ $86643033957480x^3$ $83464614895508x^2$ $652445499509958x$ 718391715128109 | $\begin{bmatrix} 2 & 2 \\ & 2 \end{bmatrix}_1^6$ | I: 49,2 | $\frac{96}{49}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|---------|-----------------|
| $x^{14} + 504x^{13} + 2296x^{12} +$ $581x^{11} + 756x^{10} + 448x^9 +$ $1141x^8 + 2388x^7 + 1092x^6 +$ $1372x^5 + 224x^4 + 1484x^3 +$ $1050x^2 + 2233x + 2012$ | | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^{12}$ | I: 49,2 | $\frac{96}{49}$ |
| $x^{14} + 1974x^{13} + 210x^{12} +$ $462x^{11} + 1645x^{10} + 406x^9 +$ $1554x^8 + 1800x^7 + 1512x^6 +$ $560x^5 + 1540x^4 + 791x^3 +$ $1519x^2 + 707x + 2061$ | $x^{14} - 3850x^{12} - 89516x^{11} +$ $3096436x^{10} + 174138888x^9 +$ $3244038868x^8 + 25894799688x^7 -$ $8384086032x^6 - 1776541944576x^5 -$ $11629767964080x^4$ $1477992606944x^3$ $343239121795920x^2$ $1564267132867040x$ 2341613531339568 | $\begin{bmatrix} 2 \\ & 1 \end{bmatrix}^6$ | I: 7,1 | $\frac{12}{7}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|---------|-----------------|
| $x^{14} + 1736x^{13} + 1596x^{12} +$ $231x^{11} + 1491x^{10} + 2331x^9 +$ $385x^8 + 176x^7 + 959x^6 +$ $644x^5 + 2037x^4 + 1463x^3 +$ $1904x^2 + 168x + 654$ | | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^{12}$ | I: 49,2 | $\frac{96}{49}$ |
| $x^{14} + 945x^{13} + 196x^{12} +$ $721x^{11} + 350x^{10} + 2198x^9 +$ $903x^8 + 421x^7 + 2163x^6 +$ $987x^5 + 2296x^4 + 322x^3 +$ $210x^2 + 1855x + 493$ | | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^{12}$ | I: 49,2 | $\frac{96}{49}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|---------|----------------|
| $x^{14} + 476x^{13} + 1365x^{12} +$ $2037x^{11} + 378x^{10} + 329x^9 +$ $924x^8 + 1849x^7 + 1582x^6 +$ $2219x^5 + 1190x^4 + 2387x^3 +$ $973x^2 + 1414x + 1879$ | $x^{14} - 28x^{12} - 924x^{11} - 3157x^{10} +$ $4844x^9 + 301294x^8 + 2189448x^7 +$ $11176823x^6 + 34481272x^5 +$ $85673336x^4 + 132278804x^3 +$ $187653949x^2 + 109309340x +$ 77207574 | $\begin{bmatrix} 6 \\ 2 \\ 1 \end{bmatrix}$ | I: 7,1 | $\frac{12}{7}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---------------------------------------|------------------------------------|--|---------|-----------------|
| $x^{14} - 812x^{12} + 493696x^{10} -$ | $5342960x^9 - 92171135x^8 +$ | | | |
| $x^{14} + 1393x^{13} + 1708x^{12} +$ | $1769061364x^7 + 20130555291x^6 -$ | | | |
| $1589x^{11} + 1708x^{10} + 1862x^9 +$ | $941268697642x^5 +$ | | | |
| $791x^8 + 1436x^7 + 1974x^6 +$ | $13687581683265x^4 -$ | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^2$ | I: 49,2 | $\frac{96}{49}$ |
| $2226x^5 + 742x^4 + 315x^3 +$ | $112033414061660x^3 +$ | | | |
| $861x^2 + 490x + 1522$ | $557308870088992x^2 -$ | | | |
| | $1599769195236408x +$ | | | |
| | 2081480231471617 | | | |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|---------|-----------------|
| $x^{14} - 3101x^{12} - 8470x^{11} +$ $3598553x^{10} + 17800090x^9 -$ $1891309441x^8 - 12175876130x^7 +$ $423664693361x^6$ | $2872587286646x^5 -$ $28128399840947x^4$ | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^6$ | I: 49,2 | $\frac{96}{49}$ |
| $x^{14} + 1561x^{13} + 567x^{12} +$ $2324x^{11} + 1652x^{10} + 546x^9 +$ $2226x^8 + 2325x^7 + 273x^6 +$ $1295x^5 + 1631x^4 + 63x^3 +$ $210x^2 + 378x + 1669$ | $104527041996762x^3$ $584037159049981x^2$ $199534554656976x + 243296498436$ | | | |
| $x^{14} + 1302x^{13} + 574x^{12} +$ $546x^{11} + 861x^{10} + 938x^9 +$ $1218x^8 + 1737x^7 + 1295x^6 +$ $1015x^5 + 119x^4 + 2170x^3 +$ $1855x^2 + 1281x + 2110$ | $x^{14} - 14x^{12} - 98x^{11} + 189x^{10} + 1911x^9 +$ $3206x^8 - 14420x^7 - 73990x^6 -$ $37975x^5 + 372085x^4 + 1151500x^3 +$ $655200x^2 - 1536150x - 5228725$ | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^4$ | I: 49,2 | $\frac{96}{49}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|---------|-----------------|
| $x^{14} + 868x^{13} + 126x^{12} +$ $1757x^{11} + 2170x^{10} + 896x^9 +$ $1596x^8 + 1646x^7 + 665x^6 +$ $49x^5 + 525x^4 + 1869x^3 +$ $2310x^2 + 2268x + 1193$ | | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^{12}$ | I: 49,2 | $\frac{96}{49}$ |
| $x^{14} + 1232x^{13} + 1330x^{12} +$ $1568x^{11} + 2030x^{10} + 2240x^9 +$ $1015x^8 + 2164x^7 + 2205x^6 +$ $1757x^5 + 28x^4 + 2142x^3 +$ $833x^2 + 182x + 87$ | $x^{14} + 14x^{12} - 154x^{11} - 56x^{10} -$ $203x^9 + 5614x^8 + 10485x^7 - 64680x^6 -$ $122360x^5 + 369145x^4 + 237825x^3 -$ $1769950x^2 - 396375x + 3344875$ | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^4$ | I: 49,2 | $\frac{96}{49}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|---------|-----------------|
| $x^{14} + 2100x^{13} + 364x^{12} +$ $1106x^{11} + 686x^{10} + 1197x^9 +$ $602x^8 + 827x^7 + 1211x^6 +$ $455x^5 + 2254x^4 + 1225x^3 +$ $952x^2 + 2275x + 458$ | $x^{14} - 35x^{12} - 70x^{11} + 245x^{10} +$ $3003x^9 + 630x^8 - 17665x^7 - 24500x^6 +$ $56525x^5 - 32879x^4 - 1199380x^3 -$ $1895425x^2 + 432320x - 30395$ | $\begin{bmatrix} 2 & 2 \\ 2 & 2 \end{bmatrix}_1^4$ | I: 49,2 | $\frac{96}{49}$ |
| $x^{14} + 777x^{13} + 210x^{12} +$ $476x^{11} + 1337x^{10} + 1456x^9 +$ $1281x^8 + 1786x^7 + 826x^6 +$ $1869x^5 + 427x^4 + 1162x^3 +$ $1890x^2 + 1722x + 1830$ | $x^{14} - 812x^{12} - 2842x^{11} + 345912x^{10} +$ $2142868x^9 - 43537410x^8 -$ $970709054x^7 + 3275085275x^6 +$ $87065551020x^5 + 1509133386033x^4 +$ $11607782603676x^3$ $178418370125863x^2$ $734824909989618x$ 864329391167281 | $\begin{bmatrix} 2 & 2 \\ 2 & 2 \end{bmatrix}_1^2$ | I: 49,2 | $\frac{96}{49}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|---------|-----------------|
| $x^{14} - 812x^{12} - 11368x^{11} +$ $388542x^{10} + 6286504x^9 -$ $65611224x^8 - 1927605176x^7 +$ $2553350849x^6 + 236122624920x^5 +$ $1213345527492x^4 -$ $3552557340192x^3 -$ $174693824639936x^2 -$ $371900240328960x +$ 8551128837049600 | $x^{14} - 28x^{12} + 462x^{10} - 686x^9 -$ $2919x^8 + 7308x^7 + 11172x^6 -$ $58408x^5 + 95662x^4 - 174146x^3 +$ $487718x^2 - 758716x + 547061$ | $\begin{bmatrix} 2 & 2 \\ & 2 \end{bmatrix}_1^2$ | I: 49,2 | $\frac{96}{49}$ |
| $x^{14} + 525x^{13} + 238x^{12} +$ $2037x^{11} + 2387x^{10} + 770x^9 +$ $777x^8 + 1121x^7 + 1680x^6 +$ $2268x^5 + 2023x^4 + 2044x^3 +$ $238x^2 + 2051x + 682$ | $x^{14} + 1120x^{13} + 1981x^{12} +$ $1988x^{11} + 1421x^{10} + 2128x^9 +$ $1190x^8 + 2325x^7 + 1260x^6 +$ $847x^5 + 490x^4 + 1568x^3 +$ $1148x^2 + 2275x + 1781$ | $\begin{bmatrix} 2 & 2 \\ & 2 \end{bmatrix}_1^2$ | I: 49,2 | $\frac{96}{49}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|---------|-----------------|
| $x^{14} - 812x^{12} - 5684x^{11} +$ $220864x^{10} + 5036024x^9 -$ $9684927x^8 - 1395102072x^7 -$ $6804965797x^6 + 109278932798x^5 +$ $2965345049849x^4$ $9396812115768x^3$ $181759946375504x^2$ $1046395042202524x$ 14603044505084725 | $x^{14} - 812x^{12} - 5684x^{11} +$ $220864x^{10} + 5036024x^9 -$ $9684927x^8 - 1395102072x^7 -$ $6804965797x^6 + 109278932798x^5 +$ $2965345049849x^4$ $9396812115768x^3$ $181759946375504x^2$ $1046395042202524x$ 14603044505084725 | $\begin{bmatrix} 2 & 2 \\ & 2 \end{bmatrix}_1^2$ | I: 49,2 | $\frac{96}{49}$ |
| $x^{14} + 1092x^{13} + 357x^{12} +$ $658x^{11} + 273x^{10} + 2317x^9 +$ $1260x^8 + 36x^7 + 1414x^6 +$ $511x^5 + 1442x^4 + 448x^3 +$ $2156x^2 + 1981x + 626$ | $x^{14} + 1134x^{13} + 595x^{12} +$ $1421x^{11} + 2275x^{10} + 1505x^9 +$ $525x^8 + 904x^7 + 1029x^6 +$ $2149x^5 + 1988x^4 + 1358x^3 +$ $833x^2 + 182x + 976$ | $\begin{bmatrix} 2 & 2 \\ & 2 \end{bmatrix}_1^{12}$ | I: 49,2 | $\frac{96}{49}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|---|---------|-----------------|
| $x^{14} + 1099x^{13} + 42x^{12} +$ $119x^{11} + 91x^{10} + 1421x^9 +$ $2310x^8 + 2010x^7 + 945x^6 +$ $1050x^5 + 7x^4 + 462x^3 +$ $2282x^2 + 2303x + 1648$ | | $\begin{bmatrix} 2 & 2 \\ & 2 \end{bmatrix}_1^{12}$ | I: 49,2 | $\frac{96}{49}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---------------------------------------|---------------------------------|--|---------|-----------------|
| $x^{14} - 3850x^{12} - 44436x^{11} +$ | $7978600x^{10} + 63999432x^9 -$ | | | |
| $7230993364x^8 - 114144166596x^7 +$ | $6669777689736x^6 -$ | | | |
| $1148x^{11} + 1281x^{10} + 1211x^9 +$ | $24701131983864x^5 -$ | $\begin{bmatrix} 2 & 2 \\ & 2 \end{bmatrix}_1^6$ | I: 49,2 | $\frac{96}{49}$ |
| $126x^8 + 295x^7 + 1750x^6 +$ | $667354900642808x^4 -$ | | | |
| $217x^5 + 1365x^4 + 2240x^3 +$ | $13131880359409728x^3 -$ | | | |
| $1624x^2 + 2086x + 185$ | $355920086750145288x^2 -$ | | | |
| | $2180426731315921368x +$ | | | |
| | 5915921226349791926 | | | |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|---------|----------------|
| $x^{14} + 182x^{13} + 448x^{12} +$ $602x^{11} + 1232x^{10} + 889x^9 +$ $1232x^8 + 708x^7 + 1176x^6 +$ $1008x^5 + 630x^4 + 700x^3 +$ $1890x^2 + 1001x + 2236$ | $x^{14} + 1218x^{12} + 512575x^{10} +$ $93347520x^8 + 7350655375x^6 +$ $235643741018x^4 +$ $2797611939409x^2 + 5777744845636$ | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}_1$ | I: 7,1 | $\frac{12}{7}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|---------|-----------------|
| $x^{14} + 2324x^{13} + 1463x^{12} +$ $1295x^{11} + 875x^{10} + 1960x^9 +$ $1722x^8 + 596x^7 + 2268x^6 +$ $609x^5 + 1624x^4 + 1295x^3 +$ $1939x^2 + 1029x + 1970$ | $x^{14} - 9016x^{12} - 9016x^{11} +$ $30555224x^{10} + 173337108x^9 -$ $47498832766x^8 - 619424859536x^7 +$ $28270462695034x^6$ $466698658729744x^5$ $6221618041203152x^4$ $237811289600253236x^3$ $3751657797227542776x^2$ $24912025456765110104x$ 200426902486778476278 | $\begin{bmatrix} 2 & 2 \\ & 2 \end{bmatrix}_1^6$ | I: 49,2 | $\frac{96}{49}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|---------|-----------------|
| $x^{14} + 756x^{13} + 1337x^{12} + 2058x^{11} + 588x^{10} + 105x^9 + 1449x^8 + 673x^7 + 385x^6 + 2051x^5 + 1715x^4 + 2366x^3 + 1134x^2 + 1708x + 38$ | | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^{12}$ | I: 49,2 | $\frac{96}{49}$ |
| $x^{14} + 1540x^{13} + 630x^{12} + 1246x^{11} + 1757x^{10} + 2205x^9 + 1477x^8 + 2038x^7 + 455x^6 + 21x^5 + 791x^4 + 1540x^3 + 665x^2 + 735x + 1284$ | $x^{14} + 812x^{12} - 12586x^{11} + 416962x^{10} - 5245926x^9 + 132206389x^8 - 1623310090x^7 + 26696344052x^6 - 205301872216x^5 + 1347995852574x^4 + 14308955375106x^3 + 94775094857786x^2 + 275492942425092x + 296941126100665$ | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^2$ | I: 49,2 | $\frac{96}{49}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|---------|-----------------|
| $x^{14} + 2002x^{13} + 1771x^{12} +$ $1071x^{11} + 273x^{10} + 343x^9 +$ $784x^8 + 1646x^7 + 1568x^6 +$ $1078x^5 + 2177x^4 + 413x^3 +$ $280x^2 + 1757x + 143$ | | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^{12}$ | I: 49,2 | $\frac{96}{49}$ |
| $x^{14} + 1785x^{13} + 350x^{12} +$ $399x^{11} + 210x^{10} + 1491x^9 +$ $1491x^8 + 2360x^7 + 245x^6 +$ $1358x^5 + 1848x^4 + 539x^3 +$ $2072x^2 + 2233x + 1718$ | $x^{14} + 49x^{12} - 112x^{11} + 1008x^{10} -$ $2282x^9 + 8869x^8 - 10485x^7 +$ $17297x^6 + 63049x^5 - 117859x^4 +$ $627165x^3 - 383670x^2 + 265545x -$ 299295 | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^4$ | I: 49,2 | $\frac{96}{49}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|---------|-----------------|
| $x^{14} - 812x^{12} - 11368x^{11} +$ $84448x^{10} + 3160304x^9 +$ $70993769x^8 + 1104911948x^7 +$ $10685122819x^6 + 100923725630x^5 +$ $1325697291793x^4$ | $+ 5023066384140x^3$ $+ 83383641077800x^2$ $+ 10600129091664x$ $+ 3571225803527841$ | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^2$ | I: 49,2 | $\frac{96}{49}$ |
| $x^{14} + 1414x^{13} + 2282x^{12} +$ $1491x^{11} + 1064x^{10} + 203x^9 +$ $2030x^8 + 1485x^7 + 28x^6 +$ $2030x^5 + 1092x^4 + 357x^3 +$ $1925x^2 + 2044x + 31$ | | | | |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|---------|----------------|
| $x^{14} + 1988x^{12} - 16898x^{11} +$ $2328942x^{10} - 6108130x^9 +$ $1373660785x^8 - 3131919766x^7 +$ $370978864956x^6 +$ $5476361730560x^5 -$ $5395890785670x^4 -$ $393671396811546x^3 -$ $7059158630471318x^2 +$ $197343354598096504x +$ 2372119766648564293 | $x^{14} + 1988x^{12} - 16898x^{11} +$ $2328942x^{10} - 6108130x^9 +$ $1373660785x^8 - 3131919766x^7 +$ $370978864956x^6 +$ $5476361730560x^5 -$ $5395890785670x^4 -$ $393671396811546x^3 -$ $7059158630471318x^2 +$ $197343354598096504x +$ 2372119766648564293 | $\begin{bmatrix} 14 \\ 2 \\ 1 \end{bmatrix}$ | I: 7,1 | $\frac{12}{7}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|---------|-----------------|
| $x^{14} + 672x^{13} + 343x^{12} +$ $756x^{11} + 2128x^{10} + 21x^9 +$ $49x^8 + 1079x^7 + 1134x^6 +$ $2324x^5 + 1645x^4 + 1715x^3 +$ $868x^2 + 1036x + 2166$ | $x^{14} - 812x^{12} - 8526x^{11} +$ $289072x^{10} + 5888624x^9 +$ $20907782x^8 + 389684890x^7 +$ $25430197527x^6 + 464211472872x^5 +$ $4149038464781x^4$ $19217395005004x^3$ $33302548227739x^2$ $68373350956190x + 24752716784233$ | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^2$ | I: 49,2 | $\frac{96}{49}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|---------|-----------------|
| $x^{14} - 3864x^{12} - 85008x^{11} +$ $5399296x^{10} + 135278640x^9 -$ $693381920x^8 - 42814910136x^7 +$ $1408736259616x^6 -$ $24207388344384x^5 +$ $564492784862888x^4 -$ $5982517543167984x^3 +$ $30833507269265848x^2 -$ $12134436035194704x +$ 29265831712648728 | $x^{14} - 3864x^{12} - 85008x^{11} +$ $5399296x^{10} + 135278640x^9 -$ $693381920x^8 - 42814910136x^7 +$ $1408736259616x^6 -$ $24207388344384x^5 +$ $564492784862888x^4 -$ $5982517543167984x^3 +$ $30833507269265848x^2 -$ $12134436035194704x +$ 29265831712648728 | $\begin{bmatrix} 2 & 2 \\ & 2 \end{bmatrix}_1^6$ | I: 49,2 | $\frac{96}{49}$ |
| $x^{14} + 1155x^{13} + 2100x^{12} +$ $2156x^{11} + 161x^{10} + 189x^9 +$ $1372x^8 + 1149x^7 + 14x^6 +$ $1953x^5 + 378x^4 + 371x^3 +$ $182x^2 + 1638x + 1319$ | $x^{14} + 1155x^{13} + 2100x^{12} +$ $2156x^{11} + 161x^{10} + 189x^9 +$ $1372x^8 + 1149x^7 + 14x^6 +$ $1953x^5 + 378x^4 + 371x^3 +$ $182x^2 + 1638x + 1319$ | | | |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|---------|-----------------|
| $x^{14} - 812x^{12} + 2058x^{12} +$ $525x^{11} + 2212x^{10} + 1316x^9 +$ $1883x^8 + 2129x^7 + 1232x^6 +$ $2163x^5 + 42x^4 + 1400x^3 +$ $1239x^2 + 1218x + 1963$ | $x^{14} - 812x^{12} + 263494x^{10} - 909440x^9 -$ $19423040x^8 - 163439360x^7 +$ $15455723913x^6 - 428230741120x^5 +$ $5581907331756x^4$ $36888703824896x^3$ $160540580026288x^2$ $590152841521152x$ 1264947830287936 | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^2$ | I: 49,2 | $\frac{96}{49}$ |
| $x^{14} + 1281x^{13} + 2107x^{12} +$ $742x^{11} + 819x^{10} + 1568x^9 +$ $861x^8 + 491x^7 + 1820x^6 +$ $917x^5 + 504x^4 + 413x^3 +$ $2212x^2 + 1540x + 360$ | $x^{14} - 301x^{12} - 644x^{11} + 32011x^{10} +$ $132216x^9 - 1317421x^8 - 8545832x^7 +$ $8922452x^6 + 170225440x^5 +$ $375723950x^4 - 36436148x^3 -$ $867818595x^2 - 661557596x + 1581481$ | $\begin{bmatrix} 2 \\ & 1 \end{bmatrix}^6$ | I: 7,1 | $\frac{12}{7}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|---------|----------------|
| $x^{14} + 1127x^{13} + 2198x^{12} +$ $966x^{11} + 616x^{10} + 413x^9 +$ $126x^8 + 1632x^7 + 455x^6 +$ $350x^5 + 1393x^4 + 294x^3 +$ $2114x^2 + 1456x + 542$ | $x^{14} - 448x^{12} - 2002x^{11} +$ $60991x^{10} + 497574x^9 - 1210391x^8 -$ $17342622x^7 + 10400565x^6 +$ $300220536x^5 + 120033354x^4 -$ $2593937192x^3 - 2419491396x^2 +$ $10416476224x + 21831285384$ | $\begin{bmatrix} 6 \\ 2 \\ 1 \end{bmatrix}$ | I: 7,1 | $\frac{12}{7}$ |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|---------|-----------------|
| $x^{14} + 812x^{12} - 4466x^{11} +$ $416962x^{10} - 3388070x^9 +$ $111039173x^8 - 802918302x^7 +$ $23113633592x^6 - 127886244500x^5 +$ $1335840021754x^4$ | $x^{14} + 812x^{12} - 4466x^{11} +$ $416962x^{10} - 3388070x^9 +$ $111039173x^8 - 802918302x^7 +$ $23113633592x^6 - 127886244500x^5 +$ $1335840021754x^4$ | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^2$ | I: 49,2 | $\frac{96}{49}$ |
| $4612012908230x^3 +$ $121596716082982x^2$ | $4612012908230x^3 +$ $121596716082982x^2$ | | | |
| $1044455676324648x$ 2621822227840449 | $1044455676324648x$ 2621822227840449 | | | |
| $1694x^2 + 1470x + 675$ | $1694x^2 + 1470x + 675$ | | | |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|---------|-----------------|
| $x^{14} - 812x^{12} - 2842x^{11} +$ $516432x^{10} - 3813964x^9 -$ $109193294x^8 + 1467470354x^7 +$ $24730963215x^6 - 913804959592x^5 +$ $12780770385481x^4$ | $12780770385481x^4$ | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^2$ | I: 49,2 | $\frac{96}{49}$ |
| $x^{14} + 1239x^{13} + 1554x^{12} +$ $1421x^{11} + 133x^{10} + 1148x^9 +$ $2163x^8 + 568x^7 + 1981x^6 +$ $1414x^5 + 406x^4 + 1372x^3 +$ $1890x^2 + 1043x + 1333$ | $104374838939728x^3$ $518011994845723x^2$ $1442475103146350x$ 1732407580632313 | | | |
| $x^{14} + 1995x^{13} + 1995x^{12} +$ $1652x^{11} + 1372x^{10} + 49x^9 +$ $427x^8 + 771x^7 + 1148x^6 +$ $2016x^5 + 2254x^4 + 658x^3 +$ $735x^2 + 910x + 689$ | $x^{14} - 28x^{12} + 364x^{10} - 196x^9 -$ $1155x^8 - 3304x^7 + 22491x^6 -$ $36750x^5 - 2975x^4 + 2940x^3 +$ $213612x^2 + 38220x + 4225$ | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^2$ | I: 49,2 | $\frac{96}{49}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|---------|-----------------|
| $x^{14} - 812x^{12} - 2842x^{11} + 391384x^{10} + 5155388x^9 - 54291538x^8 - 1379536438x^7 + 13876677451x^6 + 798736079876x^5 + 13028547574945x^4 + 117959792440140x^3 + 640020097797199x^2 + 1966704878626026x + 2664371365760745$ | $x^{14} - 812x^{12} - 2842x^{11} + 391384x^{10} + 5155388x^9 - 54291538x^8 - 1379536438x^7 + 13876677451x^6 + 798736079876x^5 + 13028547574945x^4 + 117959792440140x^3 + 640020097797199x^2 + 1966704878626026x + 2664371365760745$ | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^2$ | I: 49,2 | $\frac{96}{49}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|---------|-----------------|
| $x^{14} - 812x^{12} - 8526x^{11} + 289072x^{10} +$ $4649512x^9 - 24768842x^8 -$ $1223302766x^7 - 88393305x^6 -$ $5164311880x^5 + 2453867678157x^4 +$ $1089420409812x^3 -$ $217096310013821x^2 -$ $434865869710342x +$ 10288261005344753 | | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^2$ | I: 49,2 | $\frac{96}{49}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|---------|-----------------|
| $x^{14} - 812x^{12} - 5684x^{11} +$ $365806x^{10} + 4140794x^9 -$ $53542671x^8 - 1174310340x^7 -$ $1410996160x^6 + 110162371340x^5 +$ $2264358572378x^4$ $20334730473834x^3$ $233879685537778x^2$ $1135991862146456x$ 2658435305739805 | $x^{14} - 812x^{12} - 5684x^{11} +$ $365806x^{10} + 4140794x^9 -$ $53542671x^8 - 1174310340x^7 -$ $1410996160x^6 + 110162371340x^5 +$ $2264358572378x^4$ $20334730473834x^3$ $233879685537778x^2$ $1135991862146456x$ 2658435305739805 | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^2$ | I: 49,2 | $\frac{96}{49}$ |
| $x^{14} + 868x^{13} + 1589x^{12} +$ $1568x^{11} + 1204x^{10} + 322x^9 +$ $854x^8 + 1828x^7 + 2240x^6 +$ $1610x^5 + 1295x^4 + 1071x^3 +$ $2121x^2 + 1568x + 381$ | $x^{14} + 1218x^{12} + 580783x^{10} +$ $138448639x^8 + 17401283221x^6 +$ $1101791481126x^4$ $28606125352980x^2$ 96541963382929 | $\begin{bmatrix} 2 \\ & 1 \end{bmatrix}^2$ | I: 7,1 | $\frac{12}{7}$ |
| $x^{14} + 91x^{13} + 2128x^{12} +$ $2135x^{11} + 784x^{10} + 609x^9 +$ $1239x^8 + 1093x^7 + 329x^6 +$ $2121x^5 + 294x^4 + 1813x^3 +$ $1883x^2 + 1001x + 913$ | $x^{14} + 91x^{13} + 2128x^{12} +$ $2135x^{11} + 784x^{10} + 609x^9 +$ $1239x^8 + 1093x^7 + 329x^6 +$ $2121x^5 + 294x^4 + 1813x^3 +$ $1883x^2 + 1001x + 913$ | | | |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|---------|----------------|
| $x^{14} + 1533x^{13} + 2037x^{12} +$ $1526x^{11} + 2058x^{10} + 1946x^9 +$ $882x^8 + 2220x^7 + 2184x^6 +$ $1064x^5 + 196x^4 + 2044x^3 +$ $2191x^2 + 490x + 31$ | $x^{14} + 1218x^{12} + 444367x^{10} +$ $44764951x^8 + 1329278713x^6 +$ $13201350246x^4 + 361496665104x^2 +$ 147646801 | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}_1$ | I: 7,1 | $\frac{12}{7}$ |
| $x^{14} + 812x^{13} + 1183x^{12} +$ $84x^{11} + 231x^{10} + 1974x^9 +$ $1729x^8 + 729x^7 + 147x^6 +$ $546x^5 + 1582x^4 + 1722x^3 +$ $70x^2 + 294x + 1816$ | $x^{14} - 28x^{12} + 462x^{10} + 952x^8 -$ $12495x^6 + 40292x^4 - 33152x^2 + 9216$ | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}_1$ | I: 7,1 | $\frac{12}{7}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|---------|-----------------|
| $x^{14} + 1561x^{13} + 1694x^{12} +$ $854x^{11} + 84x^{10} + 203x^9 +$ $707x^8 + 15x^7 + 518x^6 +$ $1442x^5 + 749x^4 + 2170x^3 +$ $749x^2 + 1309x + 2355$ | $x^{14} - 28x^{12} - 98x^{11} + 168x^{10} +$ $1960x^9 + 3794x^8 - 5250x^7 - 37877x^6 -$ $69188x^5 + 18781x^4 + 262640x^3 +$ $564991x^2 + 505190x + 234217$ | $\begin{bmatrix} 2 & 2 \\ & 2 \end{bmatrix}_1^2$ | I: 49,2 | $\frac{96}{49}$ |
| $x^{14} + 1253x^{13} + 868x^{12} +$ $1330x^{11} + 2233x^{10} + 154x^9 +$ $1316x^8 + 99x^7 + 1687x^6 +$ $1211x^5 + 854x^4 + 2170x^3 +$ $1659x^2 + 1134x + 871$ | $x^{14} - 812x^{12} - 5684x^{11} + 277704x^{10} +$ $2614640x^9 + 12619089x^8 +$ $848335376x^7 + 11520511667x^6 +$ $33723714822x^5 + 783640699233x^4 +$ $1302044509080x^3 +$ $26615382684184x^2 +$ $275763574502724x +$ 717885114218101 | $\begin{bmatrix} 2 & 2 \\ & 2 \end{bmatrix}_1^2$ | I: 49,2 | $\frac{96}{49}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|---------|-----------------|
| $x^{14} - 812x^{12} - 17052x^{11} +$ $75922x^{10} + 6766802x^9 +$ $111969725x^8 + 1037961736x^7 +$ $12990230652x^6 + 224400807288x^5 +$ $2984373099554x^4$ | $x^{14} - 812x^{12} - 17052x^{11} +$ $75922x^{10} + 6766802x^9 +$ $111969725x^8 + 1037961736x^7 +$ $12990230652x^6 + 224400807288x^5 +$ $2984373099554x^4$ | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^2$ | I: 49,2 | $\frac{96}{49}$ |
| $23187161574430x^3 +$ $126807736339354x^2$ | $23187161574430x^3 +$ $126807736339354x^2$ | | | |
| $559351453538500x +$ 3106163166343297 | $559351453538500x +$ 3106163166343297 | | | |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|---------|----------------|
| $x^{14} + 2317x^{13} + 784x^{12} + 2191x^{11} + 1624x^{10} + 1316x^9 + 21x^8 + 722x^7 + 1624x^6 + 595x^5 + 1365x^4 + 1351x^3 + 847x^2 + 728x + 990$ | $x^{14} + 1988x^{12} - 16898x^{11} + 331996x^{10} - 1627178x^9 - 899837883x^8 + 23454299040x^7 - 295642355001x^6 + 1893162229392x^5 + 133634048430981x^4 - 3822076595150814x^3 + 44811294314146248x^2 + 411071790790733492x + 2298485192434037653$ | $\begin{bmatrix} 14 \\ 2 \\ 1 \end{bmatrix}$ | I: 7,1 | $\frac{12}{7}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|---------|----------------|
| $x^{14} + 287x^{13} + 1239x^{12} +$ $2191x^{11} + 1876x^{10} + 133x^9 +$ $693x^8 + 1695x^7 + 973x^6 +$ $448x^5 + 1456x^4 + 1456x^3 +$ $2233x^2 + 1967x + 619$ | $x^{14} + 1218x^{12} + 444367x^{10} +$ $50892303x^8 + 2329668397x^6 +$ $46208605394x^4 + 331924954900x^2 +$ 13140625 | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}_1$ | I: 7,1 | $\frac{12}{7}$ |
| $x^{14} + 98x^{13} + 1337x^{12} +$ $553x^{11} + 476x^{10} + 1400x^9 +$ $392x^8 + 1079x^7 + 483x^6 +$ $2233x^5 + 1239x^4 + 91x^3 +$ $1946x^2 + 812x + 521$ | $x^{14} + 1218x^{12} + 467103x^{10} +$ $63760879x^8 + 2241975645x^6 +$ $9707651226x^4 + 13922025012x^2 +$ 6008885289 | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}_1$ | I: 7,1 | $\frac{12}{7}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|---------|----------------|
| $x^{14} + 931x^{13} + 2310x^{12} +$ $903x^{11} + 392x^{10} + 2198x^9 +$ $2296x^8 + 1485x^7 + 637x^6 +$ $1295x^5 + 2303x^4 + 1449x^3 +$ $1316x^2 + 2219x + 2383$ | $x^{14} + 42x^{12} + 623x^{10} + 4431x^8 +$ $16513x^6 + 31906x^4 + 28784x^2 + 9409$ | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}_1$ | I: 7,1 | $\frac{12}{7}$ |
| $x^{14} + 2023x^{13} + 455x^{12} +$ $21x^{11} + 420x^{10} + 602x^9 +$ $1456x^8 + 337x^7 + 679x^6 +$ $2275x^5 + 462x^4 + 1918x^3 +$ $441x^2 + 2128x + 570$ | $x^{14} + 1218x^{12} + 376159x^{10} +$ $43082487x^8 + 1748126989x^6 +$ $16057958126x^4 + 10086291292x^2 +$ 928969441 | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}_1$ | I: 7,1 | $\frac{12}{7}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-------------------|
| $x^{14} + 2212x^{13} + 2198x^{12} +$ $1239x^{11} + 98x^{10} + 1876x^9 +$ $560x^8 + 869x^7 + 1092x^6 +$ $2086x^5 + 2254x^4 + 2261x^3 +$ $1827x^2 + 1869x + 108$ | $x^{14} + 98x^{12} + 3773x^{10} + 72030x^8 -$ $1764x^7 + 705894x^6 - 86436x^5 +$ $3294172x^4 - 1210104x^3 +$ $5764801x^2 - 4235364x + 1006019$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | I: 294,13 | $\frac{593}{294}$ |
| $x^{14} + 1232x^{13} + 2345x^{12} +$ $1141x^{11} + 882x^{10} + 945x^9 +$ $707x^8 + 890x^7 + 210x^6 +$ $1449x^5 + 343x^4 + 2310x^3 +$ $1827x^2 + 56x + 73$ | $x^{14} + 105x^{12} + 4186x^{10} +$ $80444x^8 + 803341x^6 + 4295263x^4 +$ $11702089x^2 + 12787776$ | $\left[\begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | I: 42,1 | $\frac{83}{42}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-------------------|
| $x^{14} + 1967x^{13} + 1218x^{12} +$ $504x^{11} + 1911x^{10} + 1484x^9 +$ $462x^8 + 722x^7 + 63x^6 +$ $1106x^5 + 1421x^4 + 252x^3 +$ $700x^2 + 840x + 199$ | $x^{14} + 196x^{12} + 15092x^{10} + 576240x^8 -$ $20496x^7 + 11294304x^6 - 2008608x^5 +$ $105413504x^4 - 56241024x^3 +$ $368947264x^2 - 393687168x +$ 106981504 | $\left[\begin{array}{c} 7 \\ 6 \end{array} \frac{13}{6} \right]_6^2$ | I: 294,13 | $\frac{593}{294}$ |
| $x^{14} + 840x^{13} + 91x^{12} +$ $847x^{11} + 1127x^{10} + 1582x^9 +$ $1344x^8 + 1436x^7 + 749x^6 +$ $910x^5 + 392x^4 + 1330x^3 +$ $1827x^2 + 301x + 1760$ | $x^{14} - 112x^7 - 784$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \frac{13}{6} \right]_6^2$ | I: 294,13 | $\frac{593}{294}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{14} + 1134x^{13} + 1071x^{12} +$ $1288x^{11} + 343x^{10} + 357x^9 +$ $1540x^8 + 568x^7 + 1288x^6 +$ $2233x^5 + 2303x^4 + 938x^3 +$ $259x^2 + 105x + 696$ | $x^{14} + 105x^{12} + 4186x^{10} +$ $80444x^8 + 801675x^6 + 4245283x^4 +$ $11323907x^2 + 11950849$ | $\left[\begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | I: 42,1 | $\frac{83}{42}$ |
| $x^{14} + 2212x^{13} + 336x^{12} +$ $1239x^{11} + 2058x^{10} + 1582x^9 +$ $1001x^8 + 806x^7 + 896x^6 +$ $1155x^5 + 1764x^4 + 252x^3 +$ $161x^2 + 1379x + 2180$ | $x^{14} - 14x^7 - 196$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^2$ | I: 294,13 | $\frac{593}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|-----------|-------------------|
| $x^{14} + 2163x^{13} + 924x^{12} +$ $63x^{11} + 2156x^{10} + 1141x^9 +$ $315x^8 + 1968x^7 + 1827x^6 +$ $1645x^5 + 147x^4 + 840x^3 +$ $1680x^2 + 1918x + 2271$ | $x^{14} - 7x^7 - 49$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^2$ | I: 294,13 | $\frac{593}{294}$ |
| $x^{14} + 1183x^{13} + 1022x^{12} +$ $1680x^{11} + 441x^{10} + 1729x^9 +$ $903x^8 + 2024x^7 + 14x^6 +$ $1302x^5 + 882x^4 + 1820x^3 +$ $14x^2 + 1526x + 1557$ | $x^{14} - 42x^7 + 196$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^2$ | I: 294,13 | $\frac{593}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-------------------|
| $x^{14} + 1918x^{13} + 1463x^{12} +$ $2268x^{11} + 1813x^{10} + 1729x^9 +$ $1883x^8 + 1751x^7 + 1729x^6 +$ $861x^5 + 1568x^4 + 1820x^3 +$ $1190x^2 + 1281x + 1501$ | $x^{14} - 98x^{12} + 3773x^{10} - 72030x^8 -$ $5292x^7 + 705894x^6 + 259308x^5 -$ $3294172x^4 - 3630312x^3 +$ $5764801x^2 + 12706092x + 7229411$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \frac{13}{6} \right]_6^2$ | I: 294,13 | $\frac{593}{294}$ |
| $x^{14} + 1428x^{13} + 777x^{12} +$ $1925x^{11} + 2303x^{10} + 798x^9 +$ $413x^8 + 1919x^7 + 1729x^6 +$ $665x^5 + 1225x^4 + 1526x^3 +$ $1239x^2 + 1428x + 1179$ | $x^{14} - 21x^7 + 49$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \frac{13}{6} \right]_6^2$ | I: 294,13 | $\frac{593}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{14} + 2114x^{13} + 1267x^{12} + 2121x^{11} + 98x^{10} + 847x^9 + 1883x^8 + 1086x^7 + 357x^6 + 665x^5 + 2303x^4 + 1085x^3 + 2219x^2 + 154x + 220$ | $x^{14} - 28x^7 - 784$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^2$ | I: 294,13 | $\frac{593}{294}$ |
| $x^{14} + 1526x^{13} + 434x^{12} + 1190x^{11} + 882x^{10} + 1435x^9 + 266x^8 + 995x^7 + 357x^6 + 1253x^5 + 1617x^4 + 1624x^3 + 1778x^2 + 1673x + 1557$ | $x^{14} + 98x^{12} + 3773x^{10} + 72030x^8 - 1694x^7 + 705894x^6 - 83006x^5 + 3294172x^4 - 1162084x^3 + 5764801x^2 - 4067294x + 1248079$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^2$ | I: 294,13 | $\frac{593}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{14} + 252x^{13} + 2100x^{12} +$ $945x^{11} + 1519x^{10} + 1288x^9 +$ $1001x^8 + 2136x^7 + 357x^6 +$ $1743x^5 + 196x^4 + 154x^3 +$ $1631x^2 + 742x + 710$ | $x^{14} + 98x^{12} + 3773x^{10} + 72030x^8 -$ $1813x^7 + 705894x^6 - 88837x^5 +$ $3294172x^4 - 1243718x^3 +$ $5764801x^2 - 4353013x + 830746$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \frac{13}{6} \right]_6^2$ | I: 294,13 | $\frac{593}{294}$ |
| $x^{14} + 938x^{13} + 2247x^{12} +$ $700x^{11} + 1911x^{10} + 2072x^9 +$ $2177x^8 + 1709x^7 + 1435x^6 +$ $1792x^5 + 147x^4 + 154x^3 +$ $14x^2 + 840x + 605$ | $x^{14} + 7x^{12} - 196x^{11} + 1050x^{10} - 980x^9 +$ $16156x^8 - 104860x^7 + 273749x^6 -$ $496566x^5 + 3327807x^4 - 9182404x^3 +$ $8422029x^2 - 2545256x + 1077364$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \frac{13}{6} \right]_6^2$ | I: 294,13 | $\frac{593}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|---------|-----------------|
| $x^{14} + 1134x^{13} + 434x^{12} +$ $749x^{11} + 1666x^{10} + 602x^9 +$ $1736x^8 + 1681x^7 + 504x^6 +$ $959x^5 + 1519x^4 + 2212x^3 +$ $161x^2 + 987x + 2061$ | $x^{14} + 105x^{12} + 4186x^{10} + 80444x^8 +$ $753263x^6 + 2792923x^4 + 334383x^2 + 1$ | $\left[\begin{matrix} 13 \\ 6 \end{matrix} \right]_6^2$ | I: 42,1 | $\frac{83}{42}$ |
| $x^{14} + 1624x^{13} + 1708x^{12} +$ $700x^{11} + 1078x^{10} + 2366x^9 +$ $2177x^8 + 1800x^7 + 1827x^6 +$ $1596x^5 + 392x^4 + 1967x^3 +$ $1288x^2 + 1575x + 346$ | $x^{14} + 784$ | $\left[\begin{matrix} 13 \\ 6 \end{matrix} \right]_6^2$ | I: 42,1 | $\frac{83}{42}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{14} + 2114x^{13} + 42x^{12} +$ $2121x^{11} + 2156x^{10} + 210x^9 +$ $315x^8 + 1338x^7 + 406x^6 +$ $77x^5 + 539x^4 + 1967x^3 +$ $406x^2 + 2163x + 360$ | $x^{14} + 7x^{12} - 196x^{11} + 1050x^{10} - 980x^9 +$ $16156x^8 - 105042x^7 + 260617x^6 -$ $400820x^5 + 3348877x^4 - 9983162x^3 +$ $12332621x^2 - 6963194x + 1502257$ | $\left[\begin{matrix} 13 \\ 6 \end{matrix} \right]_6^2$ | I: 42,1 | $\frac{83}{42}$ |
| $x^{14} + 1624x^{13} + 483x^{12} +$ $2366x^{11} + 245x^{10} + 1876x^9 +$ $707x^8 + 197x^7 + 896x^6 +$ $1988x^5 + 2254x^4 + 1379x^3 +$ $1386x^2 + 1967x + 2040$ | $x^{14} + 98x^{12} + 3773x^{10} + 72030x^8 -$ $1666x^7 + 705894x^6 - 81634x^5 +$ $3294172x^4 - 1142876x^3 +$ $5764801x^2 - 4000066x + 1342159$ | $\left[\begin{matrix} 7 & 13 \\ 6 & 6 \end{matrix} \right]_6^2$ | I: 294,13 | $\frac{593}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{14} + 987x^{13} + 2247x^{12} +$ $455x^{11} + 1813x^{10} + 847x^9 +$ $658x^8 + 813x^7 + 210x^6 +$ $518x^5 + 539x^4 + 7x^3 + 994x^2 +$ $742x + 1319$ | $x^{14} + 7x^{12} - 196x^{11} + 1050x^{10} -$ $980x^9 + 16156x^8 - 104468x^7 +$ $262773x^6 - 427966x^5 + 3478727x^4 -$ $10205916x^3 + 11423965x^2 -$ $5121872x + 810020$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \frac{13}{6} \right]_6^2$ | I: 294,13 | $\frac{593}{294}$ |
| $x^{14} + 791x^{13} + 2100x^{12} +$ $2170x^{11} + 1960x^{10} + 651x^9 +$ $1197x^8 + 71x^7 + 1680x^6 +$ $322x^5 + 1666x^4 + 301x^3 +$ $847x^2 + 2163x + 164$ | $x^{14} + 98x^{12} + 3773x^{10} + 72030x^8 -$ $7252x^7 + 705894x^6 - 355348x^5 +$ $3294172x^4 - 4974872x^3 +$ $5764801x^2 - 17412052x + 13183891$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \frac{13}{6} \right]_6^2$ | I: 294,13 | $\frac{593}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-------------------|
| $x^{14} + 399x^{13} + 140x^{12} +$ $1729x^{11} + 637x^{10} + 1533x^9 +$ $217x^8 + 1464x^7 + 1043x^6 +$ $1547x^5 + 1911x^4 + 1673x^3 +$ $749x^2 + 693x + 773$ | $x^{14} - 98x^{12} + 3773x^{10} - 72030x^8 -$ $5439x^7 + 705894x^6 + 266511x^5 -$ $3294172x^4 - 3731154x^3 +$ $5764801x^2 + 13059039x + 7404684$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \frac{13}{6} \right]_6^2$ | I: 294,13 | $\frac{593}{294}$ |
| $x^{14} + 203x^{13} + 1610x^{12} +$ $1680x^{11} + 2254x^{10} + 308x^9 +$ $1589x^8 + 344x^7 + 259x^6 +$ $1792x^5 + 1813x^4 + 1085x^3 +$ $700x^2 + 1428x + 633$ | $x^{14} - 28x^7 - 49$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \frac{13}{6} \right]_6^2$ | I: 294,13 | $\frac{593}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{14} + 742x^{13} + 1414x^{12} +$ $406x^{11} + 1617x^{10} + 602x^9 +$ $1442x^8 + 610x^7 + 2366x^6 +$ $1008x^5 + 147x^4 + 56x^3 +$ $1386x^2 + 889x + 962$ | $x^{14} - 84x^7 + 784$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^2$ | I: 294,13 | $\frac{593}{294}$ |
| $x^{14} + 350x^{13} + 1512x^{12} +$ $2023x^{11} + 196x^{10} + 357x^9 +$ $707x^8 + 302x^7 + 896x^6 +$ $224x^5 + 735x^4 + 1183x^3 +$ $14x^2 + 252x + 1662$ | $x^{14} - 98x^{12} + 3773x^{10} - 72030x^8 -$ $5082x^7 + 705894x^6 + 249018x^5 -$ $3294172x^4 - 3486252x^3 +$ $5764801x^2 + 12201882x + 6987351$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^2$ | I: 294,13 | $\frac{593}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{14} + 448x^{13} + 875x^{12} +$ $798x^{11} + 1274x^{10} + 259x^9 +$ $805x^8 + 1947x^7 + 1043x^6 +$ $2135x^5 + 2303x^4 + 1967x^3 +$ $1190x^2 + 1624x + 1032$ | $x^{14} - 56x^7 - 196$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^2$ | I: 294,13 | $\frac{593}{294}$ |
| $x^{14} + 448x^{13} + 483x^{12} +$ $994x^{11} + 147x^{10} + 357x^9 +$ $1099x^8 + 2227x^7 + 455x^6 +$ $861x^5 + 1176x^4 + 742x^3 +$ $1631x^2 + 889x + 318$ | $x^{14} + 98x^{12} + 3773x^{10} + 72030x^8 -$ $1029x^7 + 705894x^6 - 50421x^5 +$ $3294172x^4 - 705894x^3 + 5764801x^2 -$ $2470629x + 3058874$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^2$ | I: 294,13 | $\frac{593}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|----------|-------------------|
| $x^{14} + 252x^{13} + 287x^{12} +$ $945x^{11} + 2303x^{10} + 945x^9 +$ $1344x^8 + 1268x^7 + 1778x^6 +$ $812x^5 + 1715x^4 + 2016x^3 +$ $1631x^2 + 1428x + 38$ | $x^{14} + 49$ | $\left[\begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | I: 42,1 | $\frac{83}{42}$ |
| $x^{14} + 2163x^{13} + 434x^{12} +$ $455x^{11} + 1029x^{10} + 1778x^9 +$ $1883x^8 + 2283x^7 + 700x^6 +$ $1890x^5 + 980x^4 + 1281x^3 +$ $2268x^2 + 1526x + 325$ | $x^{14} + 196$ | $\left[\begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | I: 42,1 | $\frac{83}{42}$ |
| $x^{14} - 14x^{11} - 21x^8 - 14x^6 +$ $21x^5 - 7x^4 - 7x^3 - 21x^2 -$ $14x + 21$ | | $\left[\begin{array}{cc} 13 & 13 \\ 12 & 12 \end{array} \right]_{12}^2$ | T: 14,23 | $\frac{635}{588}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|---|----------|-------------------|
| $x^{14} + 7x^{13} - 21x^{11} - 14x^{10} -$ $21x^9 + 7x^7 + 21x^6 + 14x^5 +$ $7x^4 - 14x^3 - 14x^2 - 14x - 14$ | | $\left[\begin{array}{c} 13 \\ 12 \end{array} \right]_{12}^2$ | T: 14,23 | $\frac{635}{588}$ |
| $x^{14} + 21x^{12} + 21x^{11} - 21x^{10} +$ $7x^9 - 21x^8 - 7x^7 + 14x^6 -$ $14x^5 + 21x^4 - 7x^3 - 7x^2 -$ $7x - 21$ | | $\left[\begin{array}{c} 13 \\ 12 \end{array} \right]_{12}^2$ | T: 14,23 | $\frac{635}{588}$ |
| $x^{14} - 14x^{13} + 14x^{12} + 21x^{10} -$ $21x^9 + 14x^8 - 7x^6 - 14x^5 -$ $14x^4 - 14x^3 - 14x^2 + 7x + 14$ | | $\left[\begin{array}{c} 13 \\ 12 \end{array} \right]_{12}^2$ | T: 14,23 | $\frac{635}{588}$ |
| $x^{14} + 21x^{13} - 14x^{12} + 21x^{11} +$ $7x^{10} + 14x^8 - 21x^7 - 14x^6 +$ $14x^5 - 14x^4 + 21x^3 + 7x^2 +$ $7x - 14$ | | $\left[\begin{array}{c} 13 \\ 12 \end{array} \right]_{12}^2$ | T: 14,23 | $\frac{635}{588}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{14} - 14x^{12} - 14x^{11} - 7x^{10} -$ $21x^9 - 21x^8 + 14x^7 - 14x^6 -$ $14x^4 + 21x^2 + 21x + 14$ | | $\left[\begin{array}{c} 13 \\ 12 \end{array} \right]_{12}^2$ | T: 14,23 | $\frac{635}{588}$ |
| $x^{14} + 21x^{13} + 14x^{12} + 7x^{11} -$ $14x^{10} - 7x^9 - 7x^8 - 7x^7 -$ $7x^6 - 21x^5 - 7x^4 - 14x^3 +$ $7x^2 + 21$ | $x^{14} - 7x^{12} + 21x^{10} - 35x^8 - 2x^7 + 35x^6 +$ $14x^5 - 21x^4 - 14x^3 + 7x^2 - 14x + 1$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^2$ | T: 14,4 | $\frac{47}{42}$ |
| $x^{14} - 21x^{13} - 21x^{12} - 21x^{11} -$ $14x^{10} + 7x^9 + 21x^7 - 7x^6 +$ $14x^5 - 21x^3 - 14x^2 - 21$ | $x^{14} + 42x^{12} + 609x^{10} + 2891x^8 +$ $24864x^6 + 91077x^4 + 1094401x^2 -$ 45360 | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^2$ | T: 14,4 | $\frac{47}{42}$ |
| $x^{14} + 14x^{13} - 21x^{12} - 21x^{10} +$ $21x^8 + 14x^7 + 21x^6 + 21x^5 +$ $14x^4 - 14x^3 + 21x^2 + 7$ | $x^{14} - 7x^{13} - 7x^{12} + 126x^{11} +$ $105x^{10} - 525x^9 - 700x^8 - 239x^7 +$ $343x^6 + 5978x^5 + 13195x^4 - 16583x^3 -$ $42301x^2 + 14770x + 42100$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^2$ | T: 14,4 | $\frac{47}{42}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|---------|-----------------|
| $x^{14} + 14x^{12} + 7x^{11} + 7x^{10} -$ $21x^9 - 21x^8 + 14x^7 - 7x^6 +$ $21x^5 - 21x^3 + 14x^2 - 7$ | $x^{14} + 35x^{12} + 399x^{10} + 763x^8 + 476x^6 +$ $42x^4 - 35x^2 - 7$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^2$ | T: 14,4 | $\frac{47}{42}$ |
| $x^{14} - 21x^{13} + 7x^{12} + 14x^{11} -$ $21x^9 + 7x^7 + 14x^6 - 21x^4 +$ $14x^3 + 7x^2 + 14$ | $x^{14} - 7x^{13} + 28x^{12} - 63x^{11} + 98x^{10} -$ $133x^9 + 147x^8 - 53x^7 - 91x^6 - 35x^5 +$ $469x^4 - 707x^3 + 497x^2 - 175x + 25$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^1$ | T: 14,4 | $\frac{47}{42}$ |
| $x^{14} + 14x^{13} + 7x^{12} + 14x^{11} -$ $7x^{10} - 14x^8 + 21x^7 + 7x^6 -$ $7x^5 + 14x^4 - 14x^3 + 21x^2 - 7$ | $x^{14} - 21x^{12} - 371x^{11} - 462x^{10} +$ $7014x^9 + 107562x^8 + 755091x^7 +$ $4318251x^6 + 17977267x^5 +$ $64337889x^4 + 183494808x^3 +$ $486786545x^2 + 638039157x +$ 1697173893 | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^1$ | T: 14,4 | $\frac{47}{42}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|---------|-----------------|
| $x^{14} + 21x^{13} - 14x^{12} - 14x^{11} +$ $14x^{10} - 14x^9 - 14x^8 - 21x^7 -$ $14x^6 - 21x^5 - 7x^4 + 14x^3 -$ $21x^2 - 21$ | $x^{14} - 28x^{12} + 112x^{10} + 1645x^8 +$ $5530x^6 + 9163x^4 + 7721x^2 + 2800$ | $\begin{bmatrix} 1 \\ 7 \\ 6 \end{bmatrix}_6$ | T: 14,4 | $\frac{47}{42}$ |
| $x^{14} - 21x^{12} - 21x^{11} + 21x^{10} +$ $21x^9 - 14x^7 + 7x^6 + 7x^5 +$ $7x^3 - 7x^2 - 14$ | $x^{14} - 7x^{13} + 28x^{12} - 70x^{11} + 119x^{10} -$ $140x^9 + 105x^8 - 53x^7 + 14x^6 - 7x^5 +$ $42x^4 - 42x^3 + 35x^2 - 14x + 4$ | $\begin{bmatrix} 1 \\ 7 \\ 6 \end{bmatrix}_6$ | T: 14,4 | $\frac{47}{42}$ |
| $x^{14} - 7x^{13} - 21x^{12} + 21x^{11} +$ $21x^{10} + 14x^9 - 7x^7 - 14x^5 -$ $14x^4 + 7x^3 + 14x^2 + 14$ | $x^{14} - 7x^{13} + 49x^{12} - 203x^{11} + 693x^{10} -$ $1771x^9 + 3787x^8 - 6469x^7 + 15323x^6 -$ $28833x^5 + 30835x^4 - 18585x^3 +$ $6251x^2 - 1071x + 72$ | $\begin{bmatrix} 1 \\ 7 \\ 6 \end{bmatrix}_6$ | T: 14,4 | $\frac{47}{42}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{14} - 14x^{12} - 21x^{11} + 7x^{10} - 21x^9 + 21x^8 - 7x^7 - 7x^6 + 21x^5 - 21x^4 - 7x^3 - 14x^2 - 7$ | $x^{14} - 7x^{13} + 98x^{12} - 497x^{11} + 3374x^{10} - 12481x^9 + 57792x^8 - 161463x^7 + 806463x^6 - 1901522x^5 + 10883453x^4 - 18763696x^3 + 74344025x^2 - 65255540x + 161830783$ | $\begin{bmatrix} 7 \\ 6 \end{bmatrix}_6^1$ | T: 14,4 | $\frac{47}{42}$ |
| $x^{14} - 14x^{11} - 21x^{10} - 21x^9 + 7x^8 + 21x^7 - 14x^6 + 7x^5 + 21x^4 + 14x^3 - 7x^2 + 14$ | $x^{14} - 84x^{12} + 2268x^{10} - 40824x^8 + 480816x^6 - 3864672x^4 + 20248704x^2 - 48988800$ | $\begin{bmatrix} 7 \\ 6 \end{bmatrix}_6^2$ | T: 14,4 | $\frac{47}{42}$ |
| $x^{14} - 21x^{13} - 7x^{12} + 14x^{11} + 14x^{10} + 21x^9 + 14x^8 - 21x^7 - 14x^6 - 14x^5 + 7x^4 - 21x^2 - 14$ | $x^{14} - 21x^{10} - 350x^8 + 1575x^6 + 16380x^4 - 10899x^2 - 409374$ | $\begin{bmatrix} 7 \\ 6 \end{bmatrix}_6^2$ | T: 14,4 | $\frac{47}{42}$ |
| $x^{14} + 21x^{13} + 14x^{12} + 21x^{11} + 7x^{10} + 21x^9 - 14x^7 + 21x^5 - 21x^4 + 21x^3 - 21$ | | $\begin{bmatrix} 5 & 5 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 14,12 | $\frac{243}{196}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{14} + 21x^{13} - 14x^{12} + 7x^{11} -$ $21x^{10} + 14x^9 - 14x^8 + 21x^6 +$ $7x^5 + 14x^4 + 21x^3 + 7$ | $x^{14} + 14x^{12} + 49x^{10} - 28x^9 - 14x^8 -$ $216x^7 - 119x^6 - 56x^5 + 154x^4 +$ $196x^3 + 140x^2 + 56x + 16$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^2$ | T: 14,12 | $\frac{243}{196}$ |
| $x^{14} + 14x^{13} - 14x^{12} - 7x^{11} +$ $7x^{10} - 7x^9 + 21x^8 - 14x^7 +$ $14x^5 + 21x^4 - 7x^3 + 21$ | | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^6$ | T: 14,12 | $\frac{243}{196}$ |
| $x^{14} - 7x^{13} + 7x^{11} + 14x^{10} +$ $14x^7 + 14x^6 + 14x^5 + 14x^4 -$ $21x^3 + 21$ | | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^6$ | T: 14,12 | $\frac{243}{196}$ |
| $x^{14} - 14x^{13} + 21x^{12} - 7x^{11} +$ $7x^9 - 14x^8 - 7x^7 + 14x^6 -$ $7x^5 + 21x^3 + 14$ | | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^6$ | T: 14,12 | $\frac{243}{196}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{14} - 14x^{13} + 7x^{12} - 21x^{11} +$ $14x^{10} + 14x^9 - 21x^8 + 7x^7 -$ $7x^6 - 7x^5 + 7x^4 + 7x^3 - 14$ | $x^{14} + 7x^{12} - 14x^{11} - 42x^{10} + 84x^9 +$ $98x^8 - 376x^7 + 147x^6 + 532x^5 -$ $651x^4 - 42x^3 + 630x^2 - 504x + 162$ | $\begin{bmatrix} 5 & 5 \\ 4 & 4 \end{bmatrix}_4^2$ | T: 14,12 | $\frac{243}{196}$ |
| $x^{14} + 14x^{13} - 7x^{11} - 14x^{10} +$ $14x^9 + 14x^8 + 7x^7 + 14x^6 +$ $21x^5 + 21x^4 - 21$ | $x^{14} - 98x^{12} - 882x^{11} + 14511x^{10} -$ $32130x^9 - 84014x^8 + 98874x^7 +$ $282373x^6 + 53802x^5 - 86961x^4 +$ $200340x^3 + 296737x^2 + 98280x +$ 17236 | $\begin{bmatrix} 4 \\ 3 \end{bmatrix}_6^2$ | T: 14,5 | $\frac{53}{42}$ |
| $x^{14} + 21x^{13} + 14x^{12} - 7x^{11} +$ $7x^{10} + 7x^9 + 14x^8 + 7x^7 -$ $7x^5 - 21x^4 - 21$ | $x^{14} + 28x^{12} - 140x^{11} - 42x^{10} +$ $1750x^9 - 3444x^8 - 3450x^7 + 20748x^6 -$ $11564x^5 - 45360x^4 + 45976x^3 +$ $98504x^2 - 180432x + 81272$ | $\begin{bmatrix} 4 \\ 3 \end{bmatrix}_6^1$ | T: 14,5 | $\frac{53}{42}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|---------|-----------------|
| $x^{14} + 14x^{13} - 21x^{12} - 21x^{11} +$ $7x^{10} - 7x^9 - 21x^8 - 14x^7 -$ $14x^6 - 7x^5 - 21x^4 + 21$ | $x^{14} - 84x^{12} - 140x^{11} + 2436x^{10} +$ $16800x^9 + 73031x^8 + 137112x^7 +$ $236376x^6 + 80976x^5 + 1086750x^4 -$ $60858x^3 + 162225x^2 - 4314870x +$ 4470876 | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_6^2$ | T: 14,5 | $\frac{53}{42}$ |
| $x^{14} - 21x^{13} + 14x^{12} + 14x^{10} -$ $14x^9 - 21x^8 - 14x^7 - 14x^6 -$ $21x^5 + 21x^4 + 7$ | $x^{14} + 42x^{12} + 882x^{10} + 10584x^8 +$ $67473x^6 + 166698x^4 - 250047x^2 -$ 1500282 | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_6^2$ | T: 14,5 | $\frac{53}{42}$ |
| $x^{14} + 14x^{13} - 7x^{12} + 14x^{11} +$ $21x^{10} + 21x^9 - 14x^8 + 14x^7 +$ $14x^6 + 14x^5 - 14x^4 - 14$ | $x^{14} - 7x^{13} - 322x^{12} + 1211x^{11} +$ $46123x^{10} + 17822x^9 - 2919511x^8 -$ $17445209x^7 + 33564944x^6 +$ $821521967x^5 + 5000472575x^4 +$ $18486936104x^3 + 53251302069x^2 +$ $110344362149x + 144087736269$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_6^1$ | T: 14,5 | $\frac{53}{42}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|---------|-----------------|
| $x^{14} - 14x^{13} - 14x^{12} - 21x^{11} +$ $21x^{10} - 21x^9 - 7x^8 - 21x^7 -$ $7x^5 - 7x^4 - 7$ | $x^{14} - 679x^{12} - 53130x^{11} +$ $3539466x^{10} - 40819779x^9 +$ $38260656x^8 - 38901019410x^7 +$ $1770517892241x^6$ $29667060582313x^5$ $231861059612469x^4$ $908887937286098x^3$ $6081825806799036x^2$ $25022935001835540x$ 37320377526078621 | $\left[\begin{array}{c} 1 \\ 4 \\ 3 \end{array} \right]_6$ | T: 14,5 | $\frac{53}{42}$ |
| $x^{14} + 21x^{12} - 7x^{11} - 14x^{10} +$ $21x^9 - 21x^8 + 14x^7 - 7x^6 +$ $14x^5 + 7x^4 + 7$ | $x^{14} + 1519x^{12} + 802914x^{10} +$ $190901305x^8 + 20900279386x^6 +$ $895607953758x^4$ $4873304907261x^2 + 7089647198823$ | $\left[\begin{array}{c} 1 \\ 4 \\ 3 \end{array} \right]_6$ | T: 14,5 | $\frac{53}{42}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|---------|-----------------|
| $x^{14} + 14x^{13} + 7x^{12} - 7x^{11} +$ $14x^{10} + 14x^9 - 14x^8 - 14x^7 +$ $14x^6 + 14x^4 + 21$ | $x^{14} - 28x^{12} - 126x^{11} - 63x^{10} +$ $2394x^9 + 11354x^8 + 22896x^7 +$ $22708x^6 + 9576x^5 - 504x^4 - 2016x^3 -$ $896x^2 + 128$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_6^2$ | T: 14,5 | $\frac{53}{42}$ |
| $x^{14} + 21x^{13} - 7x^{12} - 14x^{11} -$ $7x^{10} - 21x^9 - 14x^8 + 14x^7 +$ $21x^6 + 14x^5 + 14x^4 + 14$ | $x^{14} - 651x^{12} - 812x^{11} + 142450x^{10} +$ $291508x^9 - 12724292x^8 -$ $17117076x^7 + 566855667x^6 +$ $2496088x^5 - 12321118985x^4 +$ $17943583308x^3 + 94376990211x^2 -$ $290728155200x + 226519557149$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_6^1$ | T: 14,5 | $\frac{53}{42}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|---------|-----------------|
| $x^{14} - 21x^{12} - 14x^{11} - 21x^{10} -$ $14x^9 - 14x^8 + 21x^6 - 7x^5 -$ $7x^4 - 14$ | $x^{14} - 42x^{12} - 2772x^{11} + 33173x^{10} +$ $26257x^9 - 2340198x^8 + 10466830x^7 +$ $53628351x^6 - 427793135x^5 +$ $303470034x^4 + 8438441242x^3 -$ $9997257312x^2 - 45548347537x +$ 69567348029 | $\begin{bmatrix} 1 \\ 4 \\ 3 \end{bmatrix}_6$ | T: 14,5 | $\frac{53}{42}$ |
| $x^{14} - 21x^{13} - 14x^{12} - 21x^{11} -$ $21x^{10} + 14x^9 + 21x^8 + 7x^7 +$ $21x^6 + 14x^5 - 21x^4 - 7$ | $x^{14} - 42x^{12} + 882x^{10} - 10584x^8 +$ $67473x^6 - 166698x^4 - 250047x^2 +$ 1500282 | $\begin{bmatrix} 2 \\ 4 \\ 3 \end{bmatrix}_6$ | T: 14,5 | $\frac{53}{42}$ |
| $x^{14} + 14x^{13} - 14x^{10} + 7x^9 -$ $14x^7 - 21x^6 - 14x^4 - 21$ | $x^{14} - 14x^{13} + 140x^{12} - 924x^{11} +$ $4473x^{10} - 16254x^9 + 49154x^8 -$ $121552x^7 + 260176x^6 - 462336x^5 +$ $691488x^4 - 862848x^3 + 861952x^2 -$ $616448x + 217088$ | $\begin{bmatrix} 2 \\ 4 \\ 3 \end{bmatrix}_6$ | T: 14,5 | $\frac{53}{42}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|---|----------|-------------------|
| $x^{14} + 14x^{13} - 7x^{12} - 7x^{11} +$ $7x^{10} + 14x^9 - 14x^7 - 7x^6 +$ $21x^5 + 14$ | | $\left[\begin{array}{c} 17 \\ 12 \\ 12 \end{array} \right]_{12}^2$ | T: 14,23 | $\frac{827}{588}$ |
| $x^{14} - 14x^{13} - 21x^{12} + 21x^{11} -$ $7x^{10} + 21x^9 + 14x^8 + 7x^7 -$ $14x^5 + 7$ | | $\left[\begin{array}{c} 17 \\ 12 \\ 12 \end{array} \right]_{12}^2$ | T: 14,23 | $\frac{827}{588}$ |
| $x^{14} + 7x^{13} + 7x^{12} + 7x^{11} -$ $7x^{10} - 14x^9 + 21x^8 + 7x^5 + 21$ | | $\left[\begin{array}{c} 17 \\ 12 \\ 12 \end{array} \right]_{12}^2$ | T: 14,23 | $\frac{827}{588}$ |
| $x^{14} + 14x^{13} + 21x^{12} - 21x^{11} -$ $21x^{10} - 7x^9 + 7x^8 - 14x^7 +$ $14x^5 - 14$ | | $\left[\begin{array}{c} 17 \\ 12 \\ 12 \end{array} \right]_{12}^2$ | T: 14,23 | $\frac{827}{588}$ |
| $x^{14} + 7x^{13} - 14x^{12} + 7x^{11} +$ $14x^{10} - 7x^8 + 14x^7 + 14x^6 -$ $21x^5 - 14$ | | $\left[\begin{array}{c} 17 \\ 12 \\ 12 \end{array} \right]_{12}^2$ | T: 14,23 | $\frac{827}{588}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{14} + 14x^{13} - 7x^{12} + 14x^{11} + 14x^{10} - 7x^9 - 7x^8 + 7x^7 - 14x^6 + 7x^5 - 21$ | | $\left[\begin{smallmatrix} 17 & 17 \\ 12 & 12 \end{smallmatrix} \right]_{12}^2$ | T: 14,23 | $\frac{827}{588}$ |
| $x^{14} - 14x^{13} - 14x^{12} + 21x^{11} - 7x^{10} + 7x^9 - 7x^8 - 21x^7 + 14x^6 + 21$ | $x^{14} + 84x^{12} - 84x^{11} + 3255x^{10} - 8526x^9 + 67977x^8 - 221673x^7 + 1006803x^6 - 656964x^5 + 4678884x^4 - 369747x^3 - 27442989x^2 + 7394121x + 668974401$ | $\left[\begin{smallmatrix} 3 \\ 2 \end{smallmatrix} \right]_2^3$ | T: 14,2 | $\frac{19}{14}$ |
| $x^{14} + 7x^{13} - 7x^{12} - 14x^{11} + 7x^{10} - 14x^9 - 14x^8 + 21x^7 - 14x^6 - 14$ | $x^{14} + 84x^{12} + 1764x^{10} - 25368x^8 - 236992x^6 - 852992x^4 - 1404928x^2 - 917504$ | $\left[\begin{smallmatrix} 3 \\ 2 \end{smallmatrix} \right]_2^6$ | T: 14,2 | $\frac{19}{14}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|---------|-----------------|
| $x^{14} - 14x^{12} + 7x^{11} - 21x^{10} + 21x^9 - 21x^8 + 21x^7 - 21x^6 - 21$ | $x^{14} - 7x^{12} - 35x^{11} + 595x^{10} + 756x^9 + 3724x^8 - 9704x^7 - 5586x^6 - 80696x^5 + 158697x^4 - 266665x^3 + 1662745x^2 - 2303000x + 2436575$ | $\left[\begin{matrix} 6 \\ 2 \end{matrix} \right]_2$ | T: 14,2 | $\frac{19}{14}$ |
| $x^{14} + 14x^{12} + 14x^{11} + 21x^{10} - 7x^9 + 14x^8 - 7x^7 + 21x^6 - 14$ | $x^{14} - 7x^{13} + 28x^{12} - 77x^{11} + 175x^{10} - 280x^9 + 371x^8 - 295x^7 + 413x^6 - 140x^5 + 196x^4 + 2086x^3 + 1778x^2 + 511x + 51$ | $\left[\begin{matrix} 2 \\ 2 \end{matrix} \right]_2$ | T: 14,2 | $\frac{19}{14}$ |
| $x^{14} - 7x^{13} - 7x^{11} + 14x^{10} - 21x^9 - 14x^8 - 14x^7 + 14x^6 - 21$ | $x^{14} - 140x^{12} + 21756x^{10} - 994504x^8 + 48231344x^6 + 2294390112x^4 + 55511596672x^2 - 759891396992$ | $\left[\begin{matrix} 6 \\ 2 \end{matrix} \right]_2$ | T: 14,2 | $\frac{19}{14}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|---------|-----------------|
| $x^{14} + 14x^{12} - 14x^{11} + 7x^{10} -$ $21x^9 - 21x^8 + 7x^7 + 7x^6 - 7$ | $x^{14} - 70x^{12} - 28x^{11} + 1680x^{10} +$ $742x^9 - 18704x^8 - 5484x^7 +$ $105266x^6 + 3654x^5 - 286650x^4 +$ $87822x^3 + 284634x^2 - 221508x +$ 44937 | $\left[\begin{matrix} 3 \\ 2 \end{matrix} \right]_2$ | T: 14,2 | $\frac{19}{14}$ |
| $x^{14} - 7x^{12} + 21x^{10} - 7x^8 +$ $7x^7 + 21x^6 - 21$ | $x^{14} - 7x^{12} - 98x^{11} + 196x^{10} + 434x^9 +$ $1232x^8 - 5375x^7 - 2478x^6 - 4473x^5 +$ $41104x^4 - 19376x^3 + 12208x^2 -$ $25200x + 10432$ | $\left[\begin{matrix} 3 \\ 2 \end{matrix} \right]_2$ | T: 14,2 | $\frac{19}{14}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|---------|-----------------|
| $x^{14} - 14x^{13} + 7x^{12} - 14x^{11} + 21x^{10} - 14x^9 + 7x^8 - 7x^7 - 7x^6 - 21$ | $x^{14} - 7x^{13} - 119x^{12} - 686x^{11} - 20503x^{10} + 426468x^9 + 6261416x^8 - 45275112x^7 - 688328823x^6 + 2644855479x^5 + 44636788231x^4 - 175980397117x^3 - 2336790715854x^2 + 7094150586250x + 79833632436175$ | $\left[\begin{smallmatrix} 3 \\ 2 \end{smallmatrix} \right]_2^7$ | T: 14,2 | $\frac{19}{14}$ |
| $x^{14} + 7x^{13} - 21x^{12} + 21x^{11} + 7x^{10} + 7x^8 - 21x^7 + 21x^6 - 7$ | $x^{14} - 112x^{12} + 4592x^{10} - 84448x^8 + 720832x^6 - 2063488x^4 - 75264x^2 - 896$ | $\left[\begin{smallmatrix} 3 \\ 2 \end{smallmatrix} \right]_2^6$ | T: 14,2 | $\frac{19}{14}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|---------|-----------------|
| $x^{14} + 994x^{12} - 8946x^{11} +$ $268877x^{10} - 4774182x^9 +$ $22105566x^8 - 154691463x^7 -$ $4276466817x^6 + 209512927939x^5 -$ $1792640187779x^4 +$ $14187189057419x^3 +$ $13332515157304x^2 -$ $3109269528594747x +$ 20222371944432459 | $x^{14} + 994x^{12} - 8946x^{11} +$ $268877x^{10} - 4774182x^9 +$ $22105566x^8 - 154691463x^7 -$ $4276466817x^6 + 209512927939x^5 -$ $1792640187779x^4 +$ $14187189057419x^3 +$ $13332515157304x^2 -$ $3109269528594747x +$ 20222371944432459 | $\left[\begin{smallmatrix} 3 \\ 2 \end{smallmatrix} \right]_2^7$ | T: 14,2 | $\frac{19}{14}$ |
| $x^{14} + 21x^{13} - 7x^{12} + 21x^{11} -$ $14x^{10} - 7x^9 - 21x^8 + 21x^7 +$ $7x^6 - 21$ | $x^{14} - 7x^{12} + 14x^{10} - 371x^8 + 5614x^6 -$ $16807x^4 + 25921x^2 - 2240$ | $\left[\begin{smallmatrix} 3 \\ 2 \end{smallmatrix} \right]_2^2$ | T: 14,2 | $\frac{19}{14}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|---------|-----------------|
| $x^{14} + 21x^{13} - 7x^{12} - 21x^{11} -$ $7x^{10} + 7x^9 + 21x^8 + 21x^7 -$ $7x^6 + 14$ | $x^{14} + 56x^{12} + 1148x^{10} + 10556x^8 +$ $45052x^6 + 64484x^4 - 1176x^2 + 7$ | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2^3$ | T: 14,2 | $\frac{19}{14}$ |
| $x^{14} + 14x^{13} + 7x^{12} - 21x^{11} +$ $14x^{10} - 7x^9 - 14x^8 - 21x^6 - 14$ | $x^{14} - 7x^{13} + 14x^{12} + 7x^{11} - 21x^{10} -$ $126x^9 + 7x^8 + 471x^7 + 1274x^6 -$ $287x^5 - 3171x^4 - 1498x^3 + 2576x^2 +$ $1960x + 400$ | $\begin{bmatrix} 1 \\ 2 \end{bmatrix}_2^1$ | T: 14,2 | $\frac{19}{14}$ |
| $x^{14} - 21x^{13} - 21x^{12} + 21x^{11} -$ $21x^8 + 14x^7 - 14x^6 + 7$ | $x^{14} - 7x^{13} - 119x^{12} - 189x^{11} -$ $11060x^{10} + 202818x^9 +$ $1541904x^8 - 19299407x^7 +$ $481982424x^6 - 4366679373x^5 +$ $61166207564x^4 - 329100496424x^3 +$ $2897290901120x^2 -$ $10830446185552x + 59586524666944$ | $\begin{bmatrix} 7 \\ 2 \end{bmatrix}_2^7$ | T: 14,2 | $\frac{19}{14}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|---------|-----------------|
| $x^{14} + 14x^{13} + 21x^{12} + 21x^{11} -$ $14x^{10} + 21x^9 + 21x^8 + 7x^7 -$ $14x^6 + 7$ | $x^{14} - 7x^{13} - 119x^{12} + 805x^{11} +$ $56532x^{10} - 164465x^9 + 4279380x^8 +$ $7964025x^7 - 5310669x^6 +$ $282730815x^5 + 4844491680x^4 -$ $98680884274x^3 + 314451407067x^2 -$ $198428712895x + 131698503925$ | $\left[\begin{matrix} 7 \\ 2 \end{matrix} \right]_2$ | T: 14,2 | $\frac{19}{14}$ |
| $x^{14} - 14x^{12} - 14x^{11} - 14x^{10} -$ $7x^9 - 21x^8 - 14x^7 + 7x^6 + 21$ | $x^{14} + 994x^{12} - 19383x^{11} + 508928x^{10} -$ $9763068x^9 + 238210609x^8 -$ $3125472185x^7 + 24405230227x^6 -$ $35782323619x^5 - 429875479194x^4 +$ $1505173689530x^3 -$ $523804462440x^2 -$ $14419916102900x + 65222031422125$ | $\left[\begin{matrix} 7 \\ 2 \end{matrix} \right]_2$ | T: 14,2 | $\frac{19}{14}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|---------|-----------------|
| $x^{14} - 14x^{13} - 21x^{11} - 7x^{10} +$ $21x^8 + 14x^7 - 21x^6 - 14$ | $x^{14} + 994x^{12} - 19383x^{11} + 230608x^{10} -$ $8371468x^9 + 113418879x^8 +$ $213132770x^7 - 2689186983x^6 -$ $92815466674x^5 + 155628479181x^4 +$ $4976176268700x^3 +$ $24609758972050x^2 +$ $46884092840025x + 32875610050525$ | $\left[\begin{matrix} 7 \\ 2 \end{matrix} \right]_2$ | T: 14,2 | $\frac{19}{14}$ |
| $x^{14} - 21x^{13} - 14x^{12} - 21x^{11} -$ $14x^{10} + 7x^9 - 14x^8 + 21x^6 + 14$ | $x^{14} - 7x^{13} + 21x^{12} - 35x^{11} + 42x^{10} -$ $56x^9 + 77x^8 - 71x^7 + 49x^6 - 49x^5 +$ $35x^4 + 14x^2 - 21x + 9$ | $\left[\begin{matrix} 1 \\ 2 \end{matrix} \right]_2$ | T: 14,2 | $\frac{19}{14}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{14} - 7x^{13} + 35x^{12} - 119x^{11} + 329x^{10} - 721x^9 + 1337x^8 + 1544917661x^7 - 18035160010x^6 - 10781142484x^5 + 198320195472x^4 - 162383062744x^3 - 140554393784x^2 + 111804688856x + 1061606648787481496$ | $x^{14} + 21x^{12} - 7x^{11} - 21x^{10} + 7x^9 + 14x^8 - 14x^7 + 7$ | $\begin{bmatrix} 7 & 5 \\ 6 & 3 \end{bmatrix}_6^1$ | T: 14,14 | $\frac{467}{294}$ |
| $x^{14} - 14x^{13} - 21x^{12} + 7x^{11} + 14x^{10} - 14x^9 - 14x^8 - 14x^7 + 49x^2 - 112x - 251$ | $x^{14} + 14x^{12} + 77x^{10} + 210x^8 - 16x^7 + 294x^6 - 112x^5 + 196x^4 - 224x^3 + 49x^2 - 112x - 251$ | $\begin{bmatrix} 7 & 5 \\ 6 & 3 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{467}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|-------------------|
| | $x^{14} - 7x^{13} + 1568x^{12} - 29337x^{11} +$ $10556553x^{10} - 541435776x^9 +$ $27721205253x^8 - 734459489541x^7 +$ $19336414087809x^6 -$ $279934930753128x^5 +$ $4863551179497633x^4 -$ $33125198746790997x^3 +$ $632357168892118236x^2 +$ $103086726006840723x +$ 69564406660131278457 | | | |
| $x^{14} + 7x^{13} + 21x^{12} + 14x^{11} +$ $21x^{10} - 14x^9 - 7x^8 - 7$ | | $\begin{bmatrix} 7 & 1 \\ 6 & 5 \\ & 3 \end{bmatrix}_6$ | T: 14,14 | $\frac{467}{294}$ |
| $x^{14} + 21x^{13} - 21x^{12} - 14x^{11} +$ $21x^{10} + 21x^9 - 14x^8 - 14x^7 + 7$ | $x^{14} + 14x^{12} + 77x^{10} + 210x^8 - 64x^7 +$ $294x^6 - 448x^5 + 196x^4 - 896x^3 +$ $49x^2 - 448x - 236$ | $\begin{bmatrix} 7 & 2 \\ 6 & 5 \\ & 3 \end{bmatrix}_6$ | T: 14,14 | $\frac{467}{294}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|----------|-------------------|
| $x^{14} - 42x^{12} - 126x^{11} + 1617x^{10} - 3192x^9 - 14546x^8 + 303852x^7 - 1330203x^6 - 2562714x^5 + 32572218x^4 - 91693308x^3 + 156586276x^2 - 237864144x + 126180576$ | | $\begin{bmatrix} 7 & 5 \\ 6 & 3 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{467}{294}$ |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{14} - 7x^{13} - 7x^{12} - 14x^{11} - 21x^{10} + 7x^9 - 21x^8 + 21x^7 + 14$ | $x^{14} - 7x^{13} + 35x^{12} - 53571x^{11} + 802753x^{10} - 5072221x^9 + 1070100395x^8 - 13219237969x^7 + 138784374526x^6 - 4265582384672x^5 + 6573596208732x^4 + 100509250599492x^3 + 7249819415915216x^2 + 19090416640539944x + 93697617037481464$ | $\begin{bmatrix} 7 & 1 \\ 6 & 5 \\ & 3 \end{bmatrix}_6$ | T: 14,14 | $\frac{467}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{14} - 7x^{13} + 7168x^{12} - 42917x^{11} +$ $20082279x^{10} - 100018156x^9 +$ $27794631067x^8 - 110967293745x^7 +$ $19960983842163x^6$ $60798672396028x^5$ $7304619482987015x^4$ $15779859475226833x^3$ $1237462789097444378x^2$ $1545481330607558253x$ 83177704929220664679 | $x^{14} - 7x^{13} + 7168x^{12} - 42917x^{11} +$ $20082279x^{10} - 100018156x^9 +$ $27794631067x^8 - 110967293745x^7 +$ $19960983842163x^6$ $60798672396028x^5$ $7304619482987015x^4$ $15779859475226833x^3$ $1237462789097444378x^2$ $1545481330607558253x$ 83177704929220664679 | $\begin{bmatrix} 7 & 1 \\ 6 & 5 \\ & 3 \end{bmatrix}_6$ | T: 14,14 | $\frac{467}{294}$ |
| $x^{14} + 14x^{13} - 7x^{12} - 21x^{11} +$ $14x^{10} + 21x^9 - 14x^8 - 14x^7 -$ 14 | | | | |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{14} + 14x^{13} + 7x^{12} - 7x^{11} -$ $21x^{10} - 14x^9 + 14x^8 - 21x^7 -$ 21 | $x^{14} - 7x^{13} + 35x^{12} - 119x^{11} + 329x^{10} -$ $721x^9 + 1337x^8 + 32386509x^7 -$ $13603190006x^6 + 39449255888x^5 +$ $70283164812x^4 - 201780693324x^3 +$ $36728621356x^2 + 68469402708x +$ 530803312407416484 | $\begin{bmatrix} 7 & 5 \\ 6 & 3 \end{bmatrix}_6^1$ | T: 14,14 | $\frac{467}{294}$ |
| $x^{14} + 14x^{12} - 7x^{11} + 7x^{10} +$ $21x^9 + 14x^8 - 21x^7 - 7$ | $x^{14} - 6x^7 + 2$ | $\begin{bmatrix} 7 & 5 \\ 6 & 3 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{467}{294}$ |
| $x^{14} - 7x^{13} + 21x^{11} - 14x^{10} -$ $7x^8 + 14x^7 + 7$ | $x^{14} - 42x^{12} - 658x^{11} - 693x^{10} +$ $29820x^9 + 176323x^8 - 117414x^7 -$ $4391037x^6 - 12305748x^5 +$ $23847327x^4 + 191322054x^3 +$ $210933198x^2 - 735967512x -$ 1712294559 | $\begin{bmatrix} 7 & 5 \\ 6 & 3 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{467}{294}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{14} + 7x^{13} + 7x^{12} + 7x^{11} + 7x^{10} - 7x^9 + 21x^8 + 7x^7 - 21$ | $x^{14} - 7x^{13} + 441x^{11} + 2205x^{10} - 2408x^9 - 8981x^8 - 4645x^7 + 35980x^6 - 22785x^5 + 139503x^4 - 74676x^3 + 99484x^2 - 14672x + 4288$ | $\begin{bmatrix} 7 & 5 \\ 6 & 3 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{467}{294}$ |
| $x^{14} + 21x^{13} - 21x^{12} + 7x^{11} + 7x^9 + 7x^8 + 21x^7 + 7$ | $x^{14} - 7x^{13} + 35x^{12} + 32081x^{11} - 314909x^{10} - 31631103x^9 + 300748371x^8 + 18329542515x^7 - 28611001426x^6 - 1350121167024x^5 + 163200918557012x^4 + 4160417204232072x^3 + 33886181137460106x^2 + 13175609649241130x + 196590488298080762$ | $\begin{bmatrix} 7 & 5 \\ 6 & 3 \end{bmatrix}_6^1$ | T: 14,14 | $\frac{467}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{14} - 7x^{13} + 4802x^{12} +$ $55055x^{11} + 5637793x^{10} +$ $209999986x^9 + 113071623x^8 +$ $68492190297x^7 - 1043707576401x^6 -$ | $104674868254684x^5 +$ $283031991681985x^4 +$ $26861201698956625x^3 -$ $90397950660319120x^2 -$ $1816764480489650237x +$ 42378562045168790233 | $\begin{bmatrix} 7 & 5 \\ 6 & 3 \end{bmatrix}_6^1$ | T: 14,14 | $\frac{467}{294}$ |
| $x^{14} - 21x^{12} - 21x^{11} + 14x^{10} +$ $21x^9 - 7x^8 + 7x^7 - 14$ | $x^{14} - 28x^{11} + 294x^{10} + 756x^9 +$ $1148x^8 - 4716x^7 - 1323x^6 - 980x^5 +$ $19572x^4 + 31752x^3 + 114436x^2 -$ $116256x + 25488$ | $\begin{bmatrix} 5 \\ 3 \end{bmatrix}_6^2$ | T: 14,5 | $\frac{65}{42}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{14} - 7x^{13} - 7x^{12} + 21x^{11} - 14x^{10} + 7x^9 + 14x^8 + 21x^7 - 14$ | $x^{14} - 24x^7 + 32$ | $\begin{bmatrix} 7 & 5 \\ 6 & 3 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{467}{294}$ |
| $x^{14} + 21x^{13} + 7x^{12} + 14x^{11} - 21x^{10} - 21x^9 - 14x^8 - 14x^7 - 14$ | $x^{14} - 7x^{13} + 7168x^{12} - 42917x^{11} + 20082279x^{10} - 100018156x^9 + 27794631067x^8 - 111225378539x^7 + 19960821802747x^6 - 61663544592062x^5 + 7304134708131065x^4 - 16622537408613969x^3 - 1237138951128822364x^2 + 1754641484167537875x + 82882093327739906215$ | $\begin{bmatrix} 7 & 5 \\ 6 & 3 \end{bmatrix}_6^1$ | T: 14,14 | $\frac{467}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|---------|-----------------|
| $x^{14} - 7x^{13} - 1470x^{12} +$ $4249x^{11} + 786674x^{10} +$ $1181355x^9 - 172371787x^8 -$ $1080559853x^7 + 13184002041x^6 +$ $163006634588x^5 + 376781988184x^4 -$ $1429261831326x^3 +$ $1253151637815x^2 +$ $70021212738036x +$ 208691151372999 | | $\begin{bmatrix} 1 \\ 5 \\ 3 \end{bmatrix}_6$ | T: 14,5 | $\frac{65}{42}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{14} + 14x^{13} + 14x^{10} - 7x^9 + 7x^8 + 14x^7 - 21$ | $x^{14} - 7x^{13} + 35x^{12} - 16863x^{11} -$ $134911x^{10} + 5808159x^9 +$ $199996181x^8 - 6104355317x^7 +$ $53563624618x^6 + 554944540836x^5 -$ $4724234347224x^4$ $18794915279392x^3$ $768508254093440x^2$ $8738292502547832x$ 33908413880579956 | $\begin{bmatrix} 7 & 5 \\ 6 & 3 \end{bmatrix}^1_6$ | T: 14,14 | $\frac{467}{294}$ |
| | Continued on next page | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{14} - 1848x^{12} - 56056x^{11} +$ $449064x^{10} + 65219616x^9 +$ $1282658300x^8 - 8200916592x^7 -$ $307464089856x^6 +$ $5964946788416x^5 -$ $115643531173632x^4 -$ $8539358215981824x^3 +$ $66816003451615264x^2 +$ $5080132358124582528x +$ 46848321568358293104 | $x^{14} - 1848x^{12} - 56056x^{11} +$ $449064x^{10} + 65219616x^9 +$ $1282658300x^8 - 8200916592x^7 -$ $307464089856x^6 +$ $5964946788416x^5 -$ $115643531173632x^4 -$ $8539358215981824x^3 +$ $66816003451615264x^2 +$ $5080132358124582528x +$ 46848321568358293104 | $\begin{bmatrix} 7 & 1 \\ 6 & 5 \\ & 3 \end{bmatrix}_6$ | T: 14,14 | $\frac{467}{294}$ |
| $x^{14} - 14x^{13} + 21x^{11} - 14x^{10} -$ $7x^9 + 21x^8 - 14x^7 - 14$ | $x^{14} + 98x^{12} + 2835x^{10} + 30009x^8 +$ $141071x^6 + 301301x^4 + 259406x^2 +$ 74263 | $\begin{bmatrix} 2 \\ 5 \\ 3 \end{bmatrix}_6$ | T: 14,5 | $\frac{65}{42}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|----------|-------------------|
| $x^{14} - 7x^{13} - 742x^{12} + 136213x^{11} -$ $3782695x^{10} - 157702426x^9 +$ $22629778605x^8 + 247541603961x^7 -$ $33319900648755x^6 -$ $229561601172554x^5 +$ $24419523882527165x^4 +$ $106682388500621087x^3 -$ $9168418518881091904x^2 -$ $17113491653914306889x +$ 1464424874579395791085 | | | | |
| $x^{14} - 7x^{13} + 7x^9 - 7x^8 - 21x^7 +$ 21 | | $\begin{bmatrix} 7 & 1 \\ 6 & 5 \\ & 3 \end{bmatrix}_6$ | T: 14,14 | $\frac{467}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|-------------------|
| $x^{14} - 7x^{13} - 4438x^{12} +$ $6699x^{11} + 5088321x^{10} -$ $30913764x^9 + 1313111079x^8 +$ $76207853439x^7 + 1347096773841x^6 +$ | | | | |
| $x^{14} - 7x^{12} - 7x^{11} - 14x^{10} -$ $21x^9 + 21x^8 + 14x^7 - 7$ | $5387935583688x^5 -$ $103804713872853x^4 -$ $1943433068849349x^3 -$ $35988315994064x^2 +$ $63963014984614739x +$ 200056775935933445 | $\begin{bmatrix} 7 & 1 \\ 6 & 5 \\ & 3 \end{bmatrix}_6$ | T: 14,14 | $\frac{467}{294}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{14} - 7x^{13} + 21x^{12} - 21x^{11} + 14x^{10} - 7x^9 - 21x^8 + 7x^7 + 7$ | $x^{14} - 7x^{13} + 35x^{12} - 20727x^{11} - 611793x^{10} - 2767667x^9 + 272543747x^8 + 7316279647x^7 + 104818578690x^6 + 92243094972x^5 + 2590900443152x^4 - 4765078689700x^3 + 323435230822914x^2 + 29543623348657082x + 243612133692575222$ | $\begin{bmatrix} 7 & 5 \\ 6 & 3 \end{bmatrix}_6^1$ | T: 14,14 | $\frac{467}{294}$ |
| $x^{14} + 21x^{13} - 7x^{12} + 7x^{11} - 14x^{10} + 14x^9 - 21x^8 - 7x^7 - 7$ | $x^{14} - 42x^{11} + 49x^{10} + 490x^9 + 5684x^8 + 3423x^7 + 36015x^6 - 44590x^5 + 137347x^4 - 131369x^3 + 258965x^2 + 153321x + 27881$ | $\begin{bmatrix} 7 & 5 \\ 6 & 3 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{467}{294}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{14} - 14x^{13} - 21x^{12} + 21x^{11} + 14x^{10} - 21x^8 - 21x^7 - 14$ | $x^{14} - 42x^{11} - 217x^{10} + 952x^9 + 4592x^8 - 9894x^7 - 51695x^6 + 63700x^5 + 332871x^4 - 526939x^3 - 187481x^2 + 257124x + 294193$ | $\begin{bmatrix} 7 & 5 \\ 6 & 3 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{467}{294}$ |
| $x^{14} - 14x^{13} + 21x^{11} - 7x^{10} + 14x^9 - 14x^8 + 21x^7 + 7$ | $x^{14} - 14x^{12} + 77x^{10} - 210x^8 - 48x^7 + 294x^6 + 336x^5 - 196x^4 - 672x^3 + 49x^2 + 336x + 261$ | $\begin{bmatrix} 7 & 5 \\ 6 & 3 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{467}{294}$ |
| $x^{14} + 21x^{11} - 7x^9 + 7x^8 - 14$ | $x^{14} - 42x^{12} - 112x^{11} + 1029x^{10} + 9408x^9 + 1862x^8 - 241416x^7 - 605052x^6 + 2043104x^5 + 14712936x^4 + 8594208x^3 - 221649344x^2 - 764588160x - 744408000$ | $\begin{bmatrix} 7 & 5 \\ 6 & 3 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{467}{294}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{14} - 7x^{13} + 7168x^{12} - 42917x^{11} +$ $20082279x^{10} - 100018156x^9 +$ $27794631067x^8 - 110708441349x^7 +$ $19960611053747x^6$ | $+$ | | | |
| $x^{14} - 14x^{13} - 14x^{12} + 14x^{11} -$ $21x^9 - 14x^8 - 7x^7 + 21$ | $+$ $59929621946992x^5$ $7303772778335915x^4$ $14932012062744609x^3$ $1236986819807210094x^2$ $1334899648779452665x$ 83273211739042592975 | $\begin{bmatrix} 7 & 1 \\ 6 & 5 \\ & 3 & 6 \end{bmatrix}$ | T: 14,14 | $\frac{467}{294}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|---------|-----------------|
| $x^{14} - 14x^{13} + 7x^{11} + 14x^{10} +$ $21x^9 - 21x^8 + 14x^7 + 7$ | $x^{14} - 7x^{13} + 35x^{12} + 161x^{11} - 1393x^{10} -$ $22071x^9 + 301721x^8 + 1527029x^7 -$ $6387738x^6 - 45044916x^5 +$ $52778880x^4 + 1653494808x^3 +$ $9755850608x^2 + 25455543120x +$ 53833611496 | $\left[\begin{matrix} 1 \\ 5 \\ 3 \end{matrix} \right]_6$ | T: 14,5 | $\frac{65}{42}$ |
| $x^{14} - 14x^{13} - 21x^{12} + 14x^{11} -$ $21x^{10} - 14x^9 + 14x^8 - 7x^7 + 21$ | $x^{14} - 56x^{12} - 84x^{11} + 1106x^{10} +$ $3192x^9 - 6846x^8 - 37180x^7 -$ $18669x^6 + 150808x^5 + 414176x^4 +$ $658420x^3 + 852565x^2 + 753256x +$ 293962 | $\left[\begin{matrix} 2 \\ 5 \\ 3 \end{matrix} \right]_6$ | T: 14,5 | $\frac{65}{42}$ |
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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{14} - 21x^{13} + 21x^{12} - 7x^{11} +$ $7x^{10} - 21x^9 - 7x^8 + 7$ | $x^{14} - 1358x^{11} + 8820x^{10} - 10668x^9 +$ $329126x^8 - 2656584x^7 + 2798292x^6 -$ $2622970x^5 + 2651292x^4 -$ $2490180x^3 + 1516501x^2 - 458640x +$ 52164 | $\begin{bmatrix} 7 & 5 \\ 6 & 3 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{467}{294}$ |
| $x^{14} - 14x^{13} + 7x^{12} + 21x^{11} +$ $21x^{10} - 21x^9 + 7x^8 - 21x^7 - 14$ | $x^{14} - 84x^{12} - 112x^{11} + 2982x^{10} +$ $5712x^9 - 39620x^8 - 103200x^7 -$ $260631x^6 + 2107056x^5 + 745920x^4 -$ $35408016x^3 + 515483640x^2 -$ $2165165856x + 2671815456$ | $\begin{bmatrix} 7 & 5 \\ 6 & 3 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{467}{294}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{14} - 7x^{13} + 35x^{12} - 16863x^{11} +$ $430843x^{10} - 14530327x^9 +$ $544593819x^8 - 5176254993x^7 -$ $77939749566x^6 - 2224983959492x^5 +$ $14584447656536x^4$ $2408911027784772x^3$ $20110473197997406x^2$ $97890311331530186x$ 235779876412881934 | $x^{14} - 7x^{13} + 35x^{12} - 16863x^{11} +$ $430843x^{10} - 14530327x^9 +$ $544593819x^8 - 5176254993x^7 -$ $77939749566x^6 - 2224983959492x^5 +$ $14584447656536x^4$ $2408911027784772x^3$ $20110473197997406x^2$ $97890311331530186x$ 235779876412881934 | $\begin{bmatrix} 7 & 5 \\ 6 & 3 \end{bmatrix}_6^1$ | T: 14,14 | $\frac{467}{294}$ |
| $x^{14} - 14x^{13} + 14x^{12} - 14x^{11} +$ $14x^{10} + 7x^9 - 21x^8 + 14$ | $x^{14} - 14x^{13} + 14x^{12} - 14x^{11} +$ $14x^{10} + 7x^9 - 21x^8 + 14$ | $\begin{bmatrix} 7 & 5 \\ 6 & 3 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{467}{294}$ |
| $x^{14} + 21x^{13} - 21x^{12} - 14x^{10} +$ $14x^8 - 7x^7 + 21$ | $x^{14} - 12x^7 + 8$ | $\begin{bmatrix} 7 & 5 \\ 6 & 3 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{467}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|---------|-----------------|
| $x^{14} + 21x^{13} - 21x^{12} - 21x^{10} + 14x^9 + 21x^8 - 7x^7 - 7$ | $x^{14} - 7x^{13} - 2044x^{12} + 1225x^{11} +$ $1564710x^{10} + 7070721x^9 -$ $480344907x^8 - 3308285097x^7 +$ $66654060053x^6 + 575203057702x^5 -$ $2348767189132x^4$ $18648586581534x^3$ $147688438968161x^2$ $1083557661025112x$ 8305083015027331 | $\begin{bmatrix} 1 \\ 5 \\ 3 \end{bmatrix}_6$ | T: 14,5 | $\frac{65}{42}$ |
| $x^{14} - 42x^{11} - 42x^{10} - 420x^9 + 6412x^8 - 9642x^7 - 39788x^6 + 93002x^5 + 137802x^4 - 651980x^3 + 1165507x^2 - 1258726x + 647084$ | $x^{14} - 42x^{11} - 42x^{10} - 420x^9 + 6412x^8 -$ $9642x^7 - 39788x^6 + 93002x^5 +$ $137802x^4 - 651980x^3 + 1165507x^2 -$ $1258726x + 647084$ | $\begin{bmatrix} 2 \\ 5 \\ 3 \end{bmatrix}_6$ | T: 14,5 | $\frac{65}{42}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{14} - 7x^{13} - 7x^{12} + 21x^{11} - 7x^{10} - 7x^9 + 14x^8 + 7x^7 + 7$ | $x^{14} - 7329x^{12} + 20732257x^{10} - 28694038345x^8 - 1292982812x^7 + 20192534954459x^6 - 3629402753284x^5 - 6727301932854251x^4 - 3087227907573348x^3 + 829271933214018819x^2 + 713598787502882204x - 21189393090294461479$ | $\begin{bmatrix} 1 \\ 5 \\ 3 \end{bmatrix}_6$ | T: 14,5 | $\frac{65}{42}$ |
| $x^{14} - 7x^{13} + 7x^{12} - 14x^{11} - 7x^{10} - 14x^9 + 21x^8 + 7x^7 - 21$ | $x^{14} - 28x^{12} - 91x^{11} + 224x^{10} + 2548x^9 + 4347x^8 - 19760x^7 - 75068x^6 + 54327x^5 + 654472x^4 + 1881516x^3 + 5662440x^2 + 11522784x + 8902112$ | $\begin{bmatrix} 2 \\ 7 \\ 6 \\ 5 \\ 3 \end{bmatrix}_6$ | T: 14,14 | $\frac{467}{294}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{14} - 21x^{13} + 14x^{12} - 21x^{11} + 14x^9 + 21x^8 - 14x^7 - 21$ | $x^{14} - 98x^{12} - 364x^{11} + 2744x^{10} + 22750x^9 + 28322x^8 - 289588x^7 - 1416394x^6 - 1719900x^5 + 6158152x^4 + 29629418x^3 + 56570661x^2 + 55732404x + 23515108$ | $\begin{bmatrix} 7 & 5 \\ 6 & 3 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{467}{294}$ |
| $x^{14} + 7x^{13} - 14x^{12} + 21x^{10} - 14x^8 + 7$ | $x^{14} + 42x^{12} + 693x^{10} + 5670x^8 + 23814x^6 + 47628x^4 + 35721x^2 - 30618$ | $\begin{bmatrix} 5 \\ 3 \end{bmatrix}_6^2$ | T: 14,5 | $\frac{65}{42}$ |
| $x^{14} - 21x^{13} + 21x^{12} + 21x^{10} + 14x^9 + 14x^8 + 7x^7 + 14$ | $x^{14} - 7x^{13} + 35x^{12} - 119x^{11} + 329x^{10} - 721x^9 + 1337x^8 + 16192232x^7 - 6801593666x^6 + 19724626502x^5 + 35141583722x^4 - 100890347614x^3 + 18364311238x^2 + 34234701130x + 132700824782027432$ | $\begin{bmatrix} 7 & 5 \\ 6 & 3 \end{bmatrix}_6^1$ | T: 14,14 | $\frac{467}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{14} - 924x^{12} - 46508x^{11} + 1372602x^{10} + 17495940x^9 + 210785960x^8 - 28820656392x^7 + 377370059220x^6 - 7986139873096x^5 + 231457631535900x^4 - 3196041868199796x^3 + 36172381309724044x^2 - 490471028059212816x + 10146232177943988060$ | $x^{14} - 196x^{11} + 3465x^{10} - 21168x^9 + 88102x^8 - 243036x^7 + 545076x^6 - 898464x^5 + 1073688x^4 - 875952x^3 + 457856x^2 + 771456x + 267264$ | $\begin{bmatrix} 7 & 5 \\ 6 & 3 \end{bmatrix}_6^1$ | T: 14,14 | $\frac{467}{294}$ |
| $x^{14} + 14x^{13} + 7x^{11} + 21x^{10} - 21x^9 + 21x^8 - 7$ | | $\begin{bmatrix} 5 \\ 3 \end{bmatrix}_6^2$ | T: 14,5 | $\frac{65}{42}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{14} - 7x^{13} - 7000x^{12} + 42091x^{11} +$ $19352627x^{10} - 97149136x^9 -$ $26629580313x^8 + 105808696543x^7 +$ $18869581364305x^6 -$ $52159889588758x^5 -$ $6385903827795457x^4 +$ $7815954131301561x^3 +$ $820841942971248128x^2 +$ $472501593105312323x +$ 7683017110529717961 | $x^{14} - 42x^{11} + 56x^{10} + 770x^9 + 6503x^8 +$ $28092x^7 + 105007x^6 + 295568x^5 +$ $727629x^4 + 1365952x^3 + 2090431x^2 +$ $2206071x + 1616449$ | $\left[\begin{array}{c} 1 \\ \frac{5}{3} \end{array} \right]_6$ | T: 14,5 | $\frac{65}{42}$ |
| $x^{14} + 21x^{13} - 14x^{12} + 7x^{11} +$ $21x^{10} - 21x^9 - 14x^8 - 14x^7 +$ 21 | $x^{14} + 21x^{13} - 7x^{12} - 14x^{11} -$ $21x^{10} + 7x^9 - 21x^8 + 7x^7 + 21$ | $\left[\begin{array}{c} 2 \\ \frac{7}{6} \quad \frac{5}{3} \end{array} \right]_6$ | T: 14,14 | $\frac{467}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{14} - 21x^{13} - 14x^{12} - 21x^{11} -$ $7x^{10} - 14x^9 + 7x^8 + 7x^7 - 7$ | $x^{14} + 84x^{12} - 364x^{11} + 3738x^{10} -$ $26628x^9 + 98000x^8 - 596556x^7 +$ $1556289x^6 - 5292868x^5 +$ $16280124x^4 - 33378912x^3 +$ $67486888x^2 - 105614208x + 74912832$ | $\begin{bmatrix} 7 & 5 \\ 6 & 3 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{467}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS | |
|--|---|---|---------|-----------------|--|
| $x^{14} - 21x^{13} - 14x^{11} + 7x^8 + 14$ | $x^{14} - 7x^{13} + 35x^{12} + 254905x^{11} +$ $22047508x^{10} - 1866126444x^9 +$ $67186134351x^8 + 1773132421864x^7 -$ $339446650345362x^6$ | | | | |
| | $22660543688235334x^5$ | $\begin{bmatrix} 1 \\ 5 \\ 3 \end{bmatrix}_6$ | T: 14,5 | $\frac{65}{42}$ | |
| | $255641200492796132x^4$ | | | | |
| | $56668419705299999079x^3$ | | | | |
| | $1720397005299710979899x^2$ | | | | |
| | $21004981475824632132168x$ | | | | |
| | 93081689912271960864092 | | | | |
| | Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{14} - 21x^{12} + 14x^{11} - 14x^9 + 7x^8 + 21x^7 + 7$ | $x^{14} - 7x^{13} + 35x^{12} +$ $20489x^{11} - 279811x^{10} -$ $1902453x^9 + 134541953x^8 -$ $3147384329x^7 + 13721760906x^6 -$ $83272822164x^5 + 6282732124312x^4 +$ $85084737726912x^3 +$ $786320105521888x^2 +$ $5102996009367088x +$ 11858826188177144 | $\begin{bmatrix} 7 & 5 \\ 6 & 3 \end{bmatrix}_6^1$ | T: 14,14 | $\frac{467}{294}$ |
| $x^{14} - 14x^{13} + 21x^{12} - 7x^{11} - 21x^{10} - 14x^9 - 7x^7 + 14$ | $x^{14} - 7x^{12} - 14x^{11} + 77x^{10} + 406x^9 +$ $994x^8 + 1471x^7 + 1421x^6 + 756x^5 +$ $189x^4 + 14x^3 + 7x^2 + 7x + 2$ | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^2$ | T: 14,12 | $\frac{339}{196}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{14} + 7x^{12} + 7x^{11} + 7x^{10} - 14x^9 - 14x^7 + 14$ | $x^{14} - 7x^{12} - 14x^{11} + 126x^{10} - 280x^9 + 259x^8 + 108x^7 - 637x^6 + 798x^5 - 266x^4 - 448x^3 + 560x^2 - 224x + 32$ | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^2$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} - 7x^{13} + 7x^{12} - 21x^{11} + 14x^{10} - 21x^9 + 7x^7 + 14$ | | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} + 21x^{13} - 7x^{12} + 7x^{10} + 14x^9 - 21x^7 - 21$ | | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} + 14x^{13} + 7x^{12} + 21x^{10} + 14x^9 + 7x^7 - 21$ | | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} - 7x^{13} - 14x^{11} + 21x^{10} - 21x^9 - 7x^7 - 14$ | | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} - 7x^{13} - 14x^{11} - 21x^{10} + 7x^9 + 7$ | $x^{14} - 14x^{11} - 28x^{10} + 21x^9 + 441x^8 + 899x^7 + 735x^6 + 49x^5 - 119x^4 + 595x^3 + 938x^2 + 490x + 88$ | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^2$ | T: 14,12 | $\frac{339}{196}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|----------|-------------------|
| $x^{14} + 14x^{13} + 21x^{11} + 14x^9 + 14x^7 + 21$ | | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} - 21x^{13} - 14x^{12} + 14x^{11} - 21x^{10} + 21x^9 + 21x^7 - 7$ | | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} + 21x^{12} - 14x^{11} - 14x^{10} + 7x^9 + 14$ | | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} - 21x^{13} - 7x^{12} - 7x^{11} + 21x^{10} - 21x^9 - 14x^7 + 7$ | | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} - 21x^{13} - 14x^{12} + 14x^{11} - 7x^{10} - 14x^9 + 14x^7 + 21$ | | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} + 7x^{13} - 7x^{11} + 14x^{10} - 14x^9 - 14x^7 + 7$ | | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} - 21x^{13} - 21x^{12} - 21x^{10} - 14x^9 + 14x^7 + 21$ | | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 14,12 | $\frac{339}{196}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{14} + 7x^{12} - 14x^{11} + 14x^{10} + 7x^9 + 7x^7 + 21$ | | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} - 21x^{13} - 14x^{12} - 14x^{10} + 14x^9 - 7x^7 + 7$ | | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} + 14x^{13} + 14x^{12} + 21x^{11} + 21x^{10} + 7x^9 - 14x^7 - 7$ | $x^{14} - 28x^{12} - 140x^{11} - 490x^{10} - 644x^9 + 1050x^8 + 4876x^7 + 7742x^6 - 5348x^5 - 28602x^4 - 2744x^3 + 28357x^2 + 1120x - 1550$ | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^2$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} - 21x^{13} - 14x^{12} - 7x^{11} + 7x^9 - 21x^7 - 7$ | $x^{14} - 28x^{12} - 56x^{11} + 294x^{10} + 1050x^9 - 1001x^8 - 6317x^7 - 3038x^6 + 7392x^5 + 4543x^4 - 3871x^3 - 1820x^2 + 889x + 137$ | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^2$ | T: 14,12 | $\frac{339}{196}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{14} + 7x^{13} + 14x^{12} - 14x^{11} + 7x^{10} + 21x^9 + 21$ | $x^{14} - 42x^{12} - 42x^{11} + 623x^{10} + 1106x^9 - 4039x^8 - 13760x^7 - 12103x^6 - 2002x^5 - 3276x^4 - 1190x^3 + 8064x^2 + 3556x - 1021$ | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^2$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} + 14x^{13} + 21x^{12} + 14x^{11} + 21x^{10} - 14x^9 + 21x^7 - 21$ | | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} + 7x^{13} - 14x^{12} + 7x^{11} + 7x^{10} - 7x^9 + 21$ | | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} + 7x^{13} + 14x^{12} - 14x^{11} + 14x^{10} - 14x^9 - 14x^7 - 7$ | | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} + 7x^{13} + 21x^9 + 14x^7 + 21$ | $x^{14} - 28x^{12} - 77x^{11} + 70x^{10} + 896x^9 + 1155x^8 - 524x^7 - 3136x^6 - 3199x^5 + 182x^4 + 2828x^3 + 2408x^2 + 896x + 128$ | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^2$ | T: 14,12 | $\frac{339}{196}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{14} - 21x^{13} + 14x^{12} + 14x^{11} - 14x^{10} + 14x^9 + 7$ | | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} + 7x^{12} + 7x^{11} + 7x^{10} + 21x^9 + 21x^7 + 14$ | | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} + 21x^{13} + 21x^{12} - 7x^{11} + 21x^{10} - 7x^9 - 14x^7 - 21$ | | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} + 21x^{13} + 7x^{12} - 21x^{11} + 7x^9 + 7$ | $x^{14} - 21x^{12} - 63x^{11} + 63x^{10} + 497x^9 + 791x^8 + 2264x^7 + 17248x^6 + 64330x^5 + 133896x^4 + 164171x^3 + 119644x^2 + 42665x + 5618$ | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^2$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} - 14x^{13} + 21x^{12} + 21x^{11} - 7x^9 - 14x^7 - 21$ | | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} - 7x^{13} + 21x^{11} - 7x^{10} + 7x^9 - 21x^7 + 21$ | | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 14,12 | $\frac{339}{196}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{14} + 7x^{13} - 21x^{12} + 7x^{11} + 21x^{10} - 14x^9 + 21x^7 + 21$ | | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} - 14x^{12} + 14x^{11} - 7x^9 + 7x^7 + 21$ | | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} - 14x^{13} + 7x^{11} - 14x^{10} + 7x^9 + 14x^7 - 14$ | | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} + 21x^{13} + 14x^{12} + 21x^{11} + 7x^9 + 14x^7 - 14$ | | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} - 14x^{13} + 21x^{11} - 14x^{10} - 14x^9 + 7x^7 + 14$ | $x^{14} - 42x^{11} - 56x^{10} + 168x^9 + 665x^8 + 1224x^7 - 2744x^6 - 9408x^5 - 224x^4 + 17472x^3 + 16576x^2 + 5376x + 1024$ | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^2$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} + 7x^{13} + 21x^{12} + 21x^{11} + 21x^{10} - 14x^9 - 14x^7 + 14$ | $x^{14} - 7x^{12} - 49x^{11} - 231x^{10} - 280x^9 + 350x^8 + 988x^7 + 882x^6 + 217x^5 - 980x^4 - 1267x^3 - 434x^2 - 70x - 5$ | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^2$ | T: 14,12 | $\frac{339}{196}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{14} - 14x^{13} - 7x^{12} - 21x^{11} + 7x^{10} + 21x^9 - 14$ | | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} + 21x^{13} - 14x^{11} + 7x^{10} - 7x^9 - 14x^7 - 7$ | $x^{14} - 28x^{12} - 14x^{11} + 252x^{10} + 56x^9 - 966x^8 + 164x^7 + 1568x^6 - 826x^5 - 756x^4 + 672x^3 - 63x^2 - 28x + 4$ | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^2$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} + 21x^{11} + 7x^{10} + 14x^9 - 14$ | $x^{14} - 28x^{12} - 35x^{11} + 301x^{10} + 511x^9 - 826x^8 - 1290x^7 + 1519x^6 - 511x^5 - 1141x^4 + 1022x^3 + 1596x^2 + 483x + 99$ | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^2$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} - 14x^{13} - 7x^{12} - 21x^{11} - 21x^{10} - 7x^9 + 21x^7 - 7$ | $x^{14} - 28x^{12} - 42x^{11} + 182x^{10} + 546x^9 + 441x^8 + 476x^7 + 3332x^6 + 8036x^5 + 3136x^4 - 12838x^3 - 16562x^2 - 4900x + 777$ | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^2$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} - 14x^{13} + 7x^{12} - 7x^{11} + 14x^{10} - 14x^9 + 14x^7 - 21$ | | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 14,12 | $\frac{339}{196}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{14} + 7x^{13} - 21x^{11} - 14x^{10} + 14x^9 + 7x^7 + 14$ | $x^{14} + 28x^{12} - 91x^{11} + 413x^{10} + 406x^9 + 1792x^8 + 1159x^7 - 1078x^6 + 350x^5 + 2660x^4 + 2296x^3 + 1008x^2 + 448x + 256$ | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^2$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} - 14x^{13} + 7x^{12} + 14x^{11} - 21x^9 + 14x^7 + 7$ | | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^6$ | T: 14,12 | $\frac{339}{196}$ |
| $x^{14} + 21x^{13} + 14x^{12} - 7x^{10} + 7x^7 + 21$ | $x^{14} - 28x^{11} + 14x^{10} + 56x^9 + 140x^8 - 152x^7 - 1078x^6 + 2548x^5 - 1596x^4 - 1946x^3 + 3388x^2 - 1232x + 141$ | $\begin{bmatrix} 4 & 11 \\ 3 & 6 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{515}{294}$ |
| $x^{14} + 21x^{12} + 21x^{11} - 14x^{10} - 21x^7 - 7$ | $x^{14} - 224x^{11} + 798x^{10} + 840x^9 - 3388x^8 + 2046x^7 + 53802x^6 + 206976x^5 + 1505448x^4 + 2809674x^3 + 5900832x^2 + 8315244x + 2881089$ | $\begin{bmatrix} 4 & 11 \\ 3 & 6 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{515}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|-------------------|
| $x^{14} - 1232x^{12} - 308x^{11} + 615692x^{10} - 483406x^9 - 133586838x^8 + 241957837x^7 + 10618246100x^6 - 69569187765x^5 + 653343195582x^4 + 10404092372443x^3 - 156700447239952x^2 - 541887599523578x + 7191178088525915$ | | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^1$ | T: 14,14 | $\frac{515}{294}$ |
| $x^{14} - 14x^{13} - 21x^{12} - 7x^{11} + 7x^{10} - 14$ | | | | |
| $x^{14} - 7x^{13} + 21x^{11} + 21x^{10} + 7x^7 + 7$ | $x^{14} - 7x^{13} + 238x^{12} + 8407x^{11} + 66913x^{10} + 153153x^9 + 579278x^8 + 12774572x^7 + 90985041x^6 + 294808332x^5 + 408697863x^4 - 415804165x^3 - 2393034133x^2 - 745915828x + 5129906959$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^1$ | T: 14,14 | $\frac{515}{294}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{14} + 7x^{13} + 14x^{12} - 7x^{11} - 21x^{10} + 14x^7 + 14$ | $x^{14} + 70x^{12} + 2709x^{10} - 3458x^9 + 60704x^8 - 140244x^7 + 571928x^6 - 1312038x^5 + 1747046x^4 - 3722082x^3 - 773577x^2 - 1365364x - 4622735$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^2$ | T: 14,14 | $\frac{515}{294}$ |
| $x^{14} - 21x^{13} - 7x^{12} - 14x^{11} + 14x^{10} + 14x^7 - 14$ | $x^{14} + 406x^{12} - 10353x^{11} + 65569x^{10} - 1995490x^9 + 40614210x^8 - 89946371x^7 - 1199429154x^6 + 2872944305x^5 + 18344086271x^4 - 66615678962x^3 + 55941447093x^2 + 15730428994x + 11419229196$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^1$ | T: 14,14 | $\frac{515}{294}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{14} + 21x^{13} - 14x^{12} + 7x^{11} + 21x^{10} - 21x^7 - 21$ | $x^{14} - 168x^{11} - 84x^{10} + 2688x^9 + 8568x^8 - 8808x^7 - 211680x^6 + 188160x^5 + 1939392x^4 - 5319552x^3 + 4807936x^2 - 1094016x + 139392$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^1$ | T: 14,14 | $\frac{515}{294}$ |
| $x^{14} + 7x^{13} + 14x^{12} + 7x^{11} + 7x^{10} - 14x^7 + 14$ | $x^{14} + 28x^{12} - 728x^{11} - 4844x^{10} - 52724x^9 - 470302x^8 - 3450944x^7 - 19793060x^6 - 66673320x^5 - 99322216x^4 - 57332156x^3 - 133771519x^2 - 324534056x - 230647200$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^2$ | T: 14,14 | $\frac{515}{294}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{14} + 14x^{13} - 7x^{12} + 14x^{11} -$ $14x^{10} + 21x^7 - 7$ | $x^{14} - 196x^{11} + 882x^{10} + 588x^9 -$ $3724x^8 - 70560x^7 + 367353x^6 +$ $374556x^5 - 6606180x^4 +$ $18410868x^3 - 14953428x^2 -$ $18151560x + 38007144$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^2$ | T: 14,14 | $\frac{515}{294}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{14} - 14x^{13} + 21x^{12} + 14x^{11} - 21x^{10} + 14x^7 - 14$ | $x^{14} - 7x^{13} + 31962x^{12} -$ $159803x^{11} + 204579746x^{10} -$ $316303302x^9 - 784611066575x^8 -$ $1786337875828x^7 -$ $3476102400292158x^6 -$ $19998509381806599x^5 +$ $17639467950794416146x^4 +$ $264434828794908785181x^3 -$ $16326455113150448926653x^2 -$ $169406478505989500370273x +$ $5301752336984253707926461$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_6^1$ | T: 14,14 | $\frac{515}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{14} + 112x^{12} - 280x^{11} + 1771x^{10} - 65450x^9 - 92736x^8 - 1172398x^7 + 10650493x^6 + 9996322x^5 + 84894782x^4 - 1281108612x^3 - 1072629964x^2 - 4552197664x + 45452237184$ | $x^{14} + 14x^{13} - 7x^{12} - 7x^{11} + 14x^{10} + 21x^7 + 7$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^2$ | T: 14,14 | $\frac{515}{294}$ |
| $x^{14} - 7x^{13} + 35x^{12} - 91x^{11} - 189x^{10} + 721x^9 + 2149x^8 - 6431x^7 + 43701x^6 + 77651x^5 + 3437x^4 + 275387x^3 + 987973x^2 - 1783215x + 788544$ | $x^{14} + 14x^{13} - 7x^{12} - 14x^{11} + 21x^{10} + 7x^7 - 21$ | $\left[\frac{11}{6} \right]_6^1$ | T: 14,4 | $\frac{71}{42}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{14} + 14x^{12} - 658x^{11} - 10332x^{10} - 57918x^9 - 46599x^8 + 1789984x^7 + 6081145x^6 - 28759472x^5 - 145737368x^4 - 33540206x^3 + 320442066x^2 - 147107506x - 30876895$ | $x^{14} - 21x^{13} - 21x^{12} - 14x^{11} + 14x^{10} - 7x^7 + 7$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^2$ | T: 14,14 | $\frac{515}{294}$ |
| $x^{14} + 14x^{12} - 98x^{11} - 63x^{10} + 56x^9 + 700x^8 - 1846x^7 + 6811x^6 - 5992x^5 - 1274x^4 - 41076x^3 + 104720x^2 - 87010x + 24529$ | $x^{14} + 14x^{13} + 21x^{12} + 14x^{11} + 14x^{10} + 21x^7 + 14$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^2$ | T: 14,14 | $\frac{515}{294}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS | | | | |
|--|--|---|----------|-------------------|-----------------------------------|---------|-----------------|--|
| $x^{14} - 21x^{13} - 7x^{12} + 21x^{11} - 21x^{10} - 21x^7 - 14$ | $x^{14} - 7x^{13} - 15855x^{12} + 1154279x^{11} + 49518070x^{10} - 5216812608x^9 + 636740086416x^8 - 268107831995190x^7 + 44017842752947812x^6 - 3754076854593632210x^5 + 186105626549396251733x^4 - 5255137052799288368238x^3 + 72956281036311459637781x^2 - 325452266433823317006974x + 1623531884623915749952869$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^1$ | T: 14,14 | $\frac{515}{294}$ | | | | |
| | $x^{14} + 8064x^{10} - 666792x^8 + 13589856x^6 - 4953312x^4 + 4572288x^2 - 1959552$ | | | | $\left[\frac{11}{6} \right]_6^2$ | T: 14,4 | $\frac{71}{42}$ | |
| | Continued on next page | | | | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|----------|-------------------|
| $x^{14} - 7x^{13} + 35x^{12} + 106141x^{11} +$ $5382398x^{10} - 176121358x^9 -$ $8763147519x^8 + 104417009841x^7 -$ $1251415470480x^6 -$ $1037671046476946x^5 -$ $34709066466717013x^4 +$ $496881640934935508x^3 +$ $58834570709310255671x^2 +$ $1497335503273074850630x +$ 15866653233090198484117 | | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^1$ | T: 14,14 | $\frac{515}{294}$ |
| $x^{14} + 14x^{13} - 21x^{12} - 7x^{11} -$ $7x^{10} - 7x^7 + 7$ | | | | |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|-------------------|
| $x^{14} - 770x^{12} - 8932x^{11} + 271194x^{10} + 5668201x^9 - 14948472x^8 - 1453432585x^7 - 12851961276x^6 + 45444375592x^5 + 2132011112308x^4 + 30832083003414x^3 + 363546978624137x^2 + 2776283253275532x + 10416711481507881$ | | | | |
| $x^{14} - 7x^{13} + 7x^{12} + 7x^{11} + 14x^{10} - 21x^7 - 7$ | | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^1$ | T: 14,14 | $\frac{515}{294}$ |
| | $x^{14} + 406x^{12} - 5887x^{11} + 66178x^{10} - 1262863x^9 + 13519191x^8 - 81270267x^7 + 356622686x^6 - 1223707142x^5 + 5108744487x^4 - 15275446312x^3 + 60959726051x^2 - 149342917185x + 125004665648$ | | | |
| $x^{14} - 14x^{13} + 21x^{12} - 21x^{11} - 7x^{10} - 21x^7 - 21$ | | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^1$ | T: 14,14 | $\frac{515}{294}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{14} + 7x^{13} - 21x^{12} + 7x^{10} - 21x^7 + 7$ | $x^{14} - 14x^{12} - 3192x^{11} + 5600x^{10} + 84182x^9 + 2743762x^8 - 14711094x^7 - 16949688x^6 - 223956026x^5 + 573616267x^4 - 516752670x^3 + 214989705x^2 - 39574332x + 2093688$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^2$ | T: 14,14 | $\frac{515}{294}$ |
| $x^{14} + 7x^{13} - 14x^{12} - 21x^{11} - 21x^{10} - 7x^7 + 7$ | $x^{14} - 14x^{12} - 84x^{11} + 49x^{10} + 1064x^9 + 2772x^8 - 2682x^7 - 28763x^6 - 74326x^5 - 128436x^4 - 172676x^3 - 154784x^2 - 70280x - 12115$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^2$ | T: 14,14 | $\frac{515}{294}$ |
| $x^{14} + 21x^{13} - 14x^{12} - 14x^{11} + 21x^{10} - 7$ | $x^{14} - 14x^{12} - 14x^{11} + 189x^{10} - 168x^9 - 994x^8 + 3508x^7 - 5488x^6 + 4256x^5 - 742x^4 - 518x^3 - 1407x^2 + 3374x - 2406$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^2$ | T: 14,14 | $\frac{515}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{14} + 21x^{13} - 21x^{12} + 7x^{11} - 21x^{10} + 7$ | $x^{14} + 28x^{12} - 14x^{11} + 420x^{10} - 420x^9 + 4039x^8 - 4342x^7 + 19208x^6 - 12278x^5 + 30198x^4 - 18844x^3 + 2625x^2 - 7126x - 5354$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^2$ | T: 14,14 | $\frac{515}{294}$ |
| $x^{14} - 21x^{13} - 14x^{12} - 7x^{11} - 14x^{10} + 21x^7 - 21$ | $x^{14} - 7x^{13} + 35x^{12} - 106379x^{11} - 2879317x^{10} - 195912283x^9 + 2573519361x^8 + 315521968191x^7 + 25817055184284x^6 + 837712925288974x^5 + 18790631000160110x^4 + 250466844613443248x^3 + 1427423366836374257x^2 + 40767069250810378567x + 606418119466347084607$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^1$ | T: 14,14 | $\frac{515}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|-----------------------------------|---------|-----------------|
| $x^{14} + 21x^{12} - 21x^{10} + 21$ | $x^{14} - 112x^{12} + 5348x^{10} - 124754x^8 + 1201284x^6 - 3482724x^4 + 52581361x^2 + 19088524$ | $\left[\frac{11}{6} \right]_6^1$ | T: 14,4 | $\frac{71}{42}$ |
| $x^{14} + 21x^{13} + 14x^{12} - 21x^{11} + 7x^{10} - 14x^7 - 7$ | $x^{14} + 63x^{12} - 938x^{11} + 7959x^{10} - 56112x^9 + 237888x^8 - 536118x^7 + 914781x^6 - 2317714x^5 + 3876789x^4 - 1453704x^3 + 15913835x^2 + 6561450x + 19961964$ | $\left[\frac{11}{6} \right]_6^1$ | T: 14,4 | $\frac{71}{42}$ |
| $x^{14} - 14x^{13} + 21x^{11} - 7x^{10} + 14x^7 + 7$ | $x^{14} - 7x^{13} + 35x^{12} + 49x^{11} + 21x^{10} + 203x^9 + 6237x^8 + 1207x^7 + 56070x^6 + 814408x^5 + 690704x^4 + 918512x^3 + 5945352x^2 - 2295580x + 7241938$ | $\left[\frac{11}{6} \right]_6^1$ | T: 14,4 | $\frac{71}{42}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{14} - 14x^{13} - 21x^{12} + 21x^{10} + 7x^7 + 21$ | $x^{14} - 42x^{12} - 238x^{11} + 1785x^{10} + 4830x^9 - 12299x^8 - 176388x^7 + 357357x^6 + 961128x^5 + 1232196x^4 - 19071948x^3 + 30637124x^2 - 14936376x + 17637768$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^2$ | T: 14,14 | $\frac{515}{294}$ |
| $x^{14} + 21x^{13} - 7x^{12} - 14x^{11} + 7x^{10} - 14x^7 + 14$ | $x^{14} + 112x^{12} + 5348x^{10} + 124754x^8 + 1201284x^6 + 3482724x^4 + 52581361x^2 - 19088524$ | $\left[\frac{11}{6} \right]_6^2$ | T: 14,4 | $\frac{71}{42}$ |
| $x^{14} - 14x^{13} - 14x^{12} - 21x^{11} + 21x^{10} + 21x^7 - 21$ | $x^{14} - 224x^{11} - 84x^{10} + 2016x^9 + 14252x^8 + 8514x^7 - 112896x^6 - 275968x^5 + 377664x^4 + 2981664x^3 + 828352x^2 - 4430832x + 3561552$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^1$ | T: 14,14 | $\frac{515}{294}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{14} - 7x^{13} + 7x^{12} + 14x^{11} - 14x^{10} + 14x^7 + 21$ | $x^{14} - 7x^{13} + 84x^{12} - 385x^{11} + 2653x^{10} - 9618x^9 + 39291x^8 - 127503x^7 + 331968x^6 - 881377x^5 + 1484413x^4 - 3321360x^3 + 5572070x^2 + 868420x + 12212901$ | $\left[\frac{11}{6} \right]_6^2$ | T: 14,4 | $\frac{71}{42}$ |
| $x^{14} + 21x^{11} + 14x^{10} - 7x^7 - 14$ | $x^{14} + 406x^{12} - 11571x^{11} + 82418x^{10} - 2189558x^9 + 42644819x^8 - 255563225x^7 + 1345350223x^6 - 1579093558x^5 + 7337409625x^4 + 56725465979x^3 + 71382865596x^2 + 36006004643x + 33116537211$ | $\left[\frac{4}{3} \frac{11}{6} \right]_6^1$ | T: 14,14 | $\frac{515}{294}$ |
| $x^{14} + 7x^{13} - 14x^{12} + 14x^{11} - 14x^{10} - 7x^7 + 14$ | $x^{14} - 28x^{11} + 14x^{10} + 56x^9 + 140x^8 - 180x^7 - 392x^6 - 196x^5 + 1540x^4 - 770x^3 - 140x^2 - 448x + 407$ | $\left[\frac{11}{6} \right]_6^1$ | T: 14,4 | $\frac{71}{42}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{14} + 26565x^{12} - 4636478x^{11} +$ $663970923x^{10} - 64778104314x^9 +$ $5733608607342x^8$ $426839011703082x^7$ $27111177619886052x^6$ $1462100639588096200x^5$ $64398094441753866948x^4$ $2312358601534779816942x^3$ $63983899548051281745254x^2$ $1248223548254469579302895x$ $15328446413446069781383935$ | $x^{14} - 21x^{13} - 14x^{12} + 7x^{11} -$ $21x^{10} - 14$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^1$ | T: 14,14 | $\frac{515}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{14} - 7x^{13} - 7x^{12} + 14x^{11} - 14x^{10} + 7x^7 + 7$ | $x^{14} - 168x^{11} + 504x^{10} - 840x^9 + 10332x^8 - 6540x^7 + 18816x^6 - 602112x^5 + 514080x^4 + 3331104x^3 - 1895264x^2 - 4283328x + 3056544$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^1$ | T: 14,14 | $\frac{515}{294}$ |
| $x^{14} - 7x^{13} + 14x^{12} - 21x^{11} + 21x^{10} - 14x^7 - 7$ | $x^{14} - 28x^{11} + 56x^{10} + 112x^9 + 336x^8 - 790x^7 - 1127x^6 + 1176x^5 + 6454x^4 + 8358x^3 + 4221x^2 + 266x - 334$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^2$ | T: 14,14 | $\frac{515}{294}$ |
| $x^{14} - 21x^{13} - 21x^{11} - 7x^{10} + 14x^7 - 21$ | $x^{14} - 7x^{13} + 238x^{12} + 4550x^{11} + 23471x^{10} - 208593x^9 - 3305939x^8 - 494929x^7 + 363784358x^6 + 4589667152x^5 + 30851286536x^4 + 123561118912x^3 + 285554670464x^2 + 341282339328x + 161103632384$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^1$ | T: 14,14 | $\frac{515}{294}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{14} + 14x^{11} - 14x^{10} + 21x^7 + 21$ | $x^{14} - 28x^{11} + 126x^{10} - 168x^9 + 140x^8 - 3762x^7 - 21462x^6 - 120932x^5 - 246330x^4 - 232302x^3 + 363097x^2 + 722736x + 553473$ | $\begin{bmatrix} 4 & 11 \\ 3 & 6 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{515}{294}$ |
| $x^{14} + 14x^{13} + 7x^{12} - 21x^{11} - 14x^{10} + 21$ | $x^{14} - 28x^{11} - 84x^{10} + 252x^9 + 140x^8 + 1332x^7 - 4851x^6 + 2548x^5 + 3696x^4 - 7434x^3 + 8092x^2 - 4368x + 2997$ | $\begin{bmatrix} 4 & 11 \\ 3 & 6 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{515}{294}$ |
| $x^{14} + 14x^{13} - 7x^{12} + 7x^{11} + 14x^{10} + 21x^7 - 14$ | $x^{14} + 14x^{12} - 35x^{11} - 42x^{10} - 182x^9 + 217x^8 + 1257x^7 - 343x^6 - 952x^5 + 469x^4 - 5817x^3 - 3402x^2 + 8127x + 8019$ | $\begin{bmatrix} 11 \\ 6 \end{bmatrix}_6^1$ | T: 14,4 | $\frac{71}{42}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{14} + 21x^{12} + 21x^{11} - 21x^{10} + 21x^7 + 21$ | $x^{14} - 7x^{13} - 588x^{12} + 3773x^{11} + 35273x^{10} - 232575x^9 + 12795832x^8 - 480282283x^7 + 3713629045x^6 + 181124056386x^5 - 323450972299x^4 - 15832848686655x^3 - 180189241507093x^2 + 1011028910779342x + 35935969907885125$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^1$ | T: 14,14 | $\frac{515}{294}$ |
| $x^{14} + 7x^{13} - 21x^{12} + 14x^{11} + 14x^{10} + 14x^7 - 21$ | $x^{14} - 7x^{13} + 56x^{12} + 168x^{11} - 210x^{10} - 630x^9 + 1407x^8 - 951x^7 + 2814x^6 - 2520x^5 - 1680x^4 + 2688x^3 + 1792x^2 - 448x + 128$ | $\left[\frac{11}{6} \right]_6^2$ | T: 14,4 | $\frac{71}{42}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{14} + 21x^{13} + 21x^{12} + 21x^{11} - 7x^{10} - 21x^7 - 7$ | $x^{14} - 28x^{11} - 42x^{10} - 84x^9 - 742x^8 - 846x^7 - 1470x^6 - 9800x^5 - 81942x^4 - 313278x^3 - 510083x^2 - 364686x - 90963$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^2$ | T: 14,14 | $\frac{515}{294}$ |
| $x^{14} + 14x^{12} - 14x^{11} + 7x^{10} - 14x^7 + 21$ | $x^{14} + 406x^{12} - 4263x^{11} + 64148x^{10} - 1139642x^9 + 27693869x^8 - 28707245x^7 - 1544060021x^6 - 5866513240x^5 + 133953851773x^4 - 406985070289x^3 - 109639593966x^2 + 989821017815x + 803054058975$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^1$ | T: 14,14 | $\frac{515}{294}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|----------|-------------------|
| $x^{14} - 42x^{12} - 84x^{11} - 1197x^{10} - 3206x^9 - 16996x^8 - 674680x^7 - 5535432x^6 - 35027426x^5 - 192017812x^4 - 705176626x^3 - 1907286815x^2 - 4101724998x - 4447784682$ | | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^2$ | T: 14,14 | $\frac{515}{294}$ |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{14} - 21x^{13} - 14x^{12} - 21x^{11} - 7x^{10} + 7x^7 + 7$ | $x^{14} - 7x^{13} + 35x^{12} - 106379x^{11} - 5705833x^{10} + 245396123x^9 + 2879948407x^8 + 296368962704x^7 - 707596487542x^6 - 805167980611260x^5 + 13718565038938620x^4 - 32900744826660921x^3 + 1528711943867805816x^2 + 3219069012580302588x + 128356180903123526448$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{11}{6} \right]_6^1$ | T: 14,14 | $\frac{515}{294}$ |
| $x^{14} + 14x^{12} - 7x^{11} - 14x^{10} + 21x^7 - 14$ | $x^{14} + 28x^{12} + 168x^{10} - 392x^8 + 196x^6 - 7$ | $\left[\begin{array}{c} 11 \\ 6 \end{array} \right]_6^2$ | T: 14,4 | $\frac{71}{42}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|--------------------|
| $x^{14} + 7x^{12} - 14x^{11} + 21x^{10} - 7x^7 + 21$ | $x^{14} - 7x^{13} + 84x^{12} - 385x^{11} + 2653x^{10} - 11382x^9 + 50757x^8 - 35901x^7 - 507255x^6 + 3265346x^5 - 5569823x^4 - 8458569x^3 + 71546552x^2 - 146400443x + 107586081$ | $\left[\begin{array}{c} 11 \\ 6 \end{array} \right]_6^2$ | T: 14,4 | $\frac{71}{42}$ |
| $x^{14} + 14x^{13} - 7x^{12} + 14x^{11} + 21x^7 + 21$ | | $\left[\begin{array}{c} 23 \\ 12 \\ 12 \end{array} \right]_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} - 14x^{13} - 21x^{12} - 21x^{11} + 7x^7 + 14$ | | $\left[\begin{array}{c} 23 \\ 12 \\ 12 \end{array} \right]_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} + 14x^{11} - 21x^7 - 21$ | | $\left[\begin{array}{c} 23 \\ 12 \\ 12 \end{array} \right]_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} - 14x^{13} - 7x^{12} + 7x^{11} - 14x^7 - 7$ | | $\left[\begin{array}{c} 23 \\ 12 \\ 12 \end{array} \right]_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} - 21x^{13} + 14x^{12} + 14x^{11} - 7x^7 - 21$ | | $\left[\begin{array}{c} 23 \\ 12 \\ 12 \end{array} \right]_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|----------|--------------------|
| $x^{14} + 21x^{12} + 21x^{11} - 21x^7 + 7$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} - 14x^{13} - 7x^{12} - 7x^{11} + 7x^7 - 7$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} - 7x^{13} - 21x^{12} + 7x^{11} + 14x^7 - 7$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} - 14x^{13} + 14x^{12} - 7x^{11} + 7x^7 + 7$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} + 7x^{13} + 14x^{12} - 21x^{11} + 7x^7 - 14$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} - 14x^{13} - 21x^{11} - 7x^7 - 7$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} + 21x^{13} - 14x^{12} + 21x^{11} + 21x^7 + 14$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} + 21x^{13} - 14x^{12} + 7x^{11} - 21x^7 + 14$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|----------|--------------------|
| $x^{14} - 21x^{13} - 21x^{11} - 21x^7 + 14$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} + 21x^{13} - 14x^{11} + 21x^7 - 14$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} + 21x^{12} + 21x^{11} - 21x^7 - 7$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} - 7x^{12} - 14x^{11} - 7x^7 + 14$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} + 14x^{13} + 21x^{12} - 7x^{11} + 7x^7 - 14$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} + 21x^{13} + 14x^{11} + 21x^7 - 21$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} - 14x^{13} + 14x^{12} - 14x^{11} - 14x^7 + 7$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} - 14x^{13} - 21x^{12} - 14x^{11} - 21x^7 + 21$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|----------|--------------------|
| $x^{14} - 7x^{13} + 21x^{12} + 21x^{11} + 14x^7 - 7$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} - 14x^{13} - 7x^{11} + 21x^7 - 21$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} - 14x^{13} + 21x^{12} - 7x^{11} - 14$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} + 14x^{13} + 14x^{12} - 14x^{11} - 7x^7 - 7$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} + 14x^{12} - 7x^{11} - 14x^7 + 7$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} + 7x^{13} + 14x^{12} + 21x^{11} - 21x^7 + 7$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} - 14x^{13} + 21x^{12} - 7x^{11} + 7$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} + 14x^{13} + 14x^{12} + 21x^{11} + 21$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} - 21x^{13} + 21x^{11} - 7x^7 + 14$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|----------|--------------------|
| $x^{14} - 21x^{13} + 14x^{12} + 14x^{11} - 21x^7 - 21$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} - 7x^{13} - 7x^{12} + 7x^{11} + 7x^7 - 14$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} - 14x^{12} + 21x^{11} - 14x^7 + 21$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} + 14x^{13} - 14x^{12} - 14x^{11} + 21x^7 + 7$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} + 21x^{13} + 7x^{12} - 7x^{11} - 14x^7 + 14$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} + 14x^{13} - 14x^{12} - 14x^{11} - 14x^7 - 14$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} + 14x^{13} - 7x^{12} - 21x^{11} - 14x^7 + 21$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|--------------------|
| $x^{14} + 7x^{13} - 21x^{12} - 21x^{11} - 21x^7 + 14$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} + 14x^{13} - 7x^{12} + 21x^{11} - 21x^7 - 14$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} + 21x^{13} + 14x^{12} + 7x^{11} - 7x^7 - 7$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} + 7x^{13} + 14x^{12} + 7x^{11} - 14x^7 - 21$ | | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{1115}{588}$ |
| $x^{14} - 14x^{13} - 7x^{12} - 21x^7 - 21$ | $x^{14} - 7x^{13} + 35x^{12} - 189x^{11} + 819x^{10} - 2835x^9 + 14994x^8 - 29346x^7 + 35679x^6 - 82551x^5 + 202020x^4 - 297612x^3 + 257488x^2 - 125440x + 27392$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2^3$ | T: 14,8 | $\frac{187}{98}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|---------|------------------|
| $x^{14} - 14x^{13} - 119x^{12} - 49x^{11} +$ $147x^{10} + 98x^9 - 49x^8 -$ $140x^7 - 49x^6 - 49x^5 + 147x^4 -$ $147x^3 - 147x^2 - 98x + 168$ | $x^{14} + 406x^{12} - 4466x^{11} -$ $50953x^{10} - 1239112x^9 +$ $4173883x^8 - 241405918x^7 +$ $18377854103x^6 - 126314391952x^5 -$ $2137231521285x^4 +$ $33296711084742x^3 -$ $28569408239946x^2 -$ $1621114573456420x +$ 8940838665444421 | $\begin{bmatrix} 3 & 1 \\ 2 & 2 \end{bmatrix}_2$ | T: 14,8 | $\frac{187}{98}$ |
| $x^{14} - 14x^{13} + 14x^{12} - 21x^7 +$ 14 | $x^{14} + 42x^{12} - 98x^{11} + 777x^{10} - 2604x^9 +$ $9086x^8 - 33128x^7 + 64337x^6 -$ $218722x^5 + 347018x^4 - 688436x^3 +$ $976388x^2 - 1168496x + 767456$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2$ | T: 14,8 | $\frac{187}{98}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|---------|------------------|
| $x^{14} + 406x^{12} - 2639x^{11} +$ $405188x^{10} - 2836316x^9 +$ $147585466x^8 - 1402725795x^7 +$ $26467222012x^6 - 289191009968x^5 +$ $2788835923594x^4$ | $22815536222150x^3$ $178821725118890x^2$ $792822309773725x$ 3074089055871625 | $\begin{bmatrix} 3 & 1 \\ 2 & 2 \end{bmatrix}$ | T: 14,8 | $\frac{187}{98}$ |
| $x^{14} - 7x^{13} + 14x^{12} - 21x^7 - 14$ | | | | |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---------------------------------------|--|---------|------------------|
| $x^{14} + 7x^{13} - 7x^{12} - 21x^7 + 14$ | $x^{14} - 7x^{13} + 35x^{12} -$ | | | |
| | $7203x^{11} - 5783757x^{10} +$ | | | |
| | $240313353x^9 + 8898841x^8 +$ | | | |
| | $26040173237x^7 + 9580886447573x^6 -$ | | | |
| | $811969300340541x^5 +$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2^3$ | T: 14,8 | $\frac{187}{98}$ |
| | $21516128800096329x^4 -$ | | | |
| | $345861830712443409x^3 +$ | | | |
| | $4643385824707700805x^2 -$ | | | |
| | $41925789627751664775x +$ | | | |
| | 261198187161663429036 | | | |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---------------------------------|--|--|---------|------------------|
| $x^{14} + 14x^{12} - 14x^7 - 7$ | $x^{14} - 7x^{13} - 49x^{12} - 136136x^{11} +$ | | | |
| | $4443215x^{10} - 87342598x^9 +$ | | | |
| | $4989083456x^8 - 132601963997x^7 +$ | | | |
| | $1982134513408x^6 -$ | | | |
| | $56674784293855x^5 +$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2^3$ | T: 14,8 | $\frac{187}{98}$ |
| | $1245823363216978x^4 -$ | | | |
| | $12508395913280267x^3 +$ | | | |
| | $200723768960944411x^2 -$ | | | |
| | $3791247033833333620x +$ | | | |
| | 24400908686710638875 | | | |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|---------|------------------|
| $x^{14} + 14x^{13} + 14x^{12} - 7$ | $x^{14} + 3234x^{12} - 98637x^{11} +$ | | | |
| | $4044117x^{10} - 242475618x^9 +$ | | | |
| | $6165436662x^8 - 193502881110x^7 +$ | | | |
| | $6738416994771x^6 -$ | | | |
| | $150993868310901x^5 +$ | $\begin{bmatrix} 3 & & & & \\ & 2 & & & \\ & & 2 & & \\ & & & 2 & \\ & & & & 2 \end{bmatrix}_2$ | T: 14,8 | $\frac{187}{98}$ |
| | $2815151800320783x^4 -$ | | | |
| | $47061364586385303x^3 +$ | | | |
| | $554929963327915560x^2 -$ | | | |
| | $3699984692896601571x +$ | | | |
| | 10625597803428910533 | | | |
| $x^{14} - 7x^{13} + 14x^{12} + 7x^7 + 14$ | $x^{14} - 14x^{12} - 98x^{11} + 217x^{10} + 1484x^9 +$ | | | |
| | $462x^8 - 14852x^7 + 17885x^6 + 182x^5 -$ | $\begin{bmatrix} 2 & & & & \\ & 2 & & & \\ & & 2 & & \\ & & & 2 & \\ & & & & 2 \end{bmatrix}_2$ | T: 14,8 | $\frac{187}{98}$ |
| | $183750x^4 + 27412x^3 + 804300x^2 -$ $1846544x + 2158864$ | | | |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|---------|------------------|
| $x^{14} - 14x^{13} + 7x^{12} - 21x^7 + 7$ | $x^{14} - 28x^{12} - 98x^{11} + 672x^{10} +$ $1540x^9 - 5418x^8 - 27224x^7 +$ $74872x^6 + 17066x^5 + 50568x^4 -$ $950544x^3 + 3031693x^2 - 5203100x +$ 3067556 | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2^2$ | T: 14,8 | $\frac{187}{98}$ |
| $x^{14} + 14x^{12} + 21x^7 - 14$ | $x^{14} + 406x^{12} - 8729x^{11} -$ $109214x^{10} - 1091328x^9 - 6375621x^8 +$ $617893285x^7 + 12089072240x^6 +$ $42354086257x^5 - 2578600062486x^4 -$ $32563977264315x^3$ $117958150343908x^2$ $3340182592061784x$ 12830778985972851 | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2^1$ | T: 14,8 | $\frac{187}{98}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|---------|------------------|
| $x^{14} - 161x^{13} + 7x^{12} + 147x^{11} +$ $147x^{10} - 49x^9 + 77x^7 + 49x^5 -$ $98x^4 + 98x^3 + 98x^2 + 49x + 91$ | $x^{14} + 406x^{12} - 5887x^{11} -$ $114898x^{10} - 659344x^9 - 4279646x^8 +$ $678247215x^7 + 7130970196x^6 -$ $162537185370x^5 + 485244746630x^4 +$ $19146515489682x^3 -$ $195668657289434x^2 -$ $361636299645901x +$ 13600357367273461 | $\begin{bmatrix} 3 & 1 \\ 2 & 2 \end{bmatrix}_2$ | T: 14,8 | $\frac{187}{98}$ |
| $x^{14} - 7x^{12} + 14x^7 - 21$ | $x^{14} - 28x^{11} - 42x^{10} - 84x^9 + 1022x^8 +$ $8940x^7 + 46893x^6 + 143864x^5 +$ $333774x^4 + 501396x^3 + 513037x^2 +$ $196560x + 60300$ | $\begin{bmatrix} 3 & 3 \\ 2 & 2 \end{bmatrix}_2$ | T: 14,8 | $\frac{187}{98}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|---------|------------------|
| $x^{14} + 14x^{13} + 7x^{12} + 14x^7 + 14$ | $x^{14} - 14x^{12} - 2352x^{11} - 20951x^{10} -$ $131600x^9 + 186956x^8 + 13163768x^7 +$ $107480814x^6 + 646752260x^5 +$ $1562884694x^4 - 942066580x^3 +$ $3415982535x^2 - 6594543900x +$ 447949276650 | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2^6$ | T: 14,8 | $\frac{187}{98}$ |
| $x^{14} - 21x^{13} + 21x^{12} + 14$ | $x^{14} - 28x^{11} + 210x^{10} - 336x^9 +$ $1022x^8 + 4944x^7 + 36309x^6 -$ $41356x^5 - 137718x^4 - 91812x^3 +$ $370153x^2 + 243180x + 50688$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2^3$ | T: 14,8 | $\frac{187}{98}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|---------|------------------|
| $x^{14} - 21x^{13} + 14x^{12} - 21x^7 +$ 21 | $x^{14} - 53179x^{12} - 2504194x^{11} +$ $953211672x^{10} + 90066142474x^9 -$ $4258924123678x^8 -$ $917670923339280x^7 -$ $33909258879529775x^6 +$ $1352172646038197368x^5 +$ $161392017227264069883x^4 +$ $6132937776918772168580x^3 +$ $118413893742581858087541x^2 +$ $1155587765516991868713498x +$ $4450384599822562430191233$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^3$ | T: 14,8 | $\frac{187}{98}$ |
| | Continued on next page | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|---------|------------------|
| $x^{14} + 7x^{13} - 21x^{12} + 14$ | $x^{14} + 378x^{12} - 5712x^{11} + 81396x^{10} -$ $1072302x^9 + 18635337x^8 -$ $113638578x^7 + 512340717x^6 -$ $3242367114x^5 + 9235606149x^4 +$ $16458957396x^3 - 93430225581x^2 -$ $132458327820x + 776840538009$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2^6$ | T: 14,8 | $\frac{187}{98}$ |
| $x^{14} - 35x^{13} + 140x^{12} -$ $147x^{10} + 49x^9 + 147x^8 +$ $77x^7 - 98x^6 + 98x^4 + 49x^3 -$ $98x^2 + 49x + 154$ | $x^{14} - 812x^{11} + 24969x^{10} - 243600x^9 +$ $4970455x^8 - 61069795x^7 +$ $614261354x^6 - 2915948840x^5 +$ $1479314795x^4 + 56483533827x^3 -$ $1277349486x^2 - 1878614722348x +$ 7489489040968 | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2^1$ | T: 14,8 | $\frac{187}{98}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|---------|------------------|
| $x^{14} - 7x^{13} + 7x^{12} - 21x^7 - 21$ | $x^{14} - 84x^{12} - 2310x^{11} +$ | | | |
| | $79422x^{10} - 478884x^9 - 1421511x^8 -$ | | | |
| | $47095518x^7 + 2916072957x^6 -$ | | | |
| | $56711995788x^5 + 642844711845x^4 -$ | $\begin{bmatrix} 3 & 6 \\ 2 & 2 \end{bmatrix}_2$ | T: 14,8 | $\frac{187}{98}$ |
| | $4858330077258x^3 +$ | | | |
| | $24666316348191x^2 -$ | | | |
| | $75753810078366x +$ | | | |
| 104403722411361 | | | | |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|------------------------------------|---|--|---------|------------------|
| $x^{14} + 7x^{13} + 7x^{12} - 21$ | $x^{14} - 210x^{12} - 9282x^{11} + 88158x^{10} +$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^6$ | T: 14,8 | $\frac{187}{98}$ |
| | $5180364x^9 + 31880772x^8 -$ | | | |
| | $558795534x^7 - 8764919541x^6 -$ | | | |
| | $27170722782x^5 + 328648117518x^4 +$ | | | |
| | $3814581790152x^3 +$ | | | |
| | $17728922592045x^2 +$ | | | |
| $41529649801500x + 40788822676788$ | | | | |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS | |
|------------------------------------|--|--|---------|------------------|--|
| $x^{14} + 14x^{13} - 21x^{12} - 7$ | $x^{14} - 53130x^{12} - 1792252x^{11} +$ | | | | |
| | $768169479x^{10} + 42427174020x^9 -$ | | | | |
| | $3424827055496x^8 -$ | | | | |
| | $262467096369720x^7 +$ | | | | |
| | $1941307405265151x^6 +$ | | | | |
| | $471199806044194920x^5 +$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2^3$ | T: 14,8 | $\frac{187}{98}$ | |
| | $10469029585214020590x^4 +$ | | | | |
| | $65446180410659881140x^3 -$ | | | | |
| | $80046903498496423335x^2 -$ | | | | |
| | $712445975249497293420x -$ | | | | |
| | 224510761323426367548 | | | | |
| | Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|---------|------------------|
| $x^{14} - 14x^{13} + 7x^{12} + 14x^7 + 14$ | $x^{14} + 140x^{12} - 2352x^{11} - 15932x^{10} -$ $355488x^9 - 656432x^8 + 4541184x^7 +$ $207404064x^6 + 2012345216x^5 +$ $14788127872x^4 + 79520197120x^3 +$ $302998273088x^2 + 791551409152x +$ 1176769153536 | $\begin{bmatrix} 3 & \\ 2 & \end{bmatrix}_2^6$ | T: 14,8 | $\frac{187}{98}$ |
| $x^{14} + 14x^{13} - 14x^{12} - 21x^7 -$ 14 | $x^{14} - 28x^{11} - 42x^{10} - 84x^9 + 42x^8 +$ $498x^7 + 1274x^6 + 1176x^5 - 1974x^4 -$ $4382x^3 - 2835x^2 - 126x - 243$ | $\begin{bmatrix} 3 & \\ 2 & \end{bmatrix}_2^2$ | T: 14,8 | $\frac{187}{98}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|---------|------------------|
| $x^{14} + 35x^{13} - 14x^{12} - 147x^{11} -$ $147x^{10} - 98x^9 - 147x^8 +$ $28x^7 - 147x^6 - 98x^5 - 49x^4 -$ $147x^3 + 49x^2 + 98x - 35$ | $x^{14} - 812x^{11} - 16240x^{10} - 21924x^9 +$ $5565854x^8 + 62082794x^7 +$ $195990004x^6 - 874784652x^5 -$ $4599960512x^4 - 6982570700x^3 +$ $110144162849x^2 + 1372120896314x +$ 8249695170917 | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2^1$ | T: 14,8 | $\frac{187}{98}$ |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS | |
|--|--|--|---------|------------------|--|
| $x^{14} - 14x^{13} - 21x^{12} + 14x^7 - 7$ | $x^{14} - 53179x^{12} - 1685992x^{11} +$ | | | | |
| | $786744756x^{10} + 41576931088x^9 -$ | | | | |
| | $2551671491824x^8 -$ | | | | |
| | $122690328364032x^7 +$ | | | | |
| | $3532145418085312x^6 +$ | | | | |
| | $80484837260041984x^5 -$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2^3$ | T: 14,8 | $\frac{187}{98}$ | |
| | $1956677572124567040x^4 -$ | | | | |
| | $16249994575030171648x^3 +$ | | | | |
| | $402108908376865406976x^2 +$ | | | | |
| | $865047394092810829824x -$ | | | | |
| | 25428491979012289953792 | | | | |
| | Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|---------|------------------|
| $x^{14} - 21x^{13} - 7x^{12} - 14x^7 + 21$ | $x^{14} - 168x^{11} - 1246x^{10} - 224x^9 + 15428x^8 + 76884x^7 + 678601x^6 - 1592696x^5 + 1640268x^4 - 17204348x^3 + 20752732x^2 + 15446088x + 6898392$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2^6$ | T: 14,8 | $\frac{187}{98}$ |
| $x^{14} - 168x^{13} - 14x^{12} + 98x^8 - 49x^6 + 147x^5 - 49x^4 + 49x^3 + 147x^2 - 147x + 112$ | $x^{14} - 812x^{11} + 9338x^{10} - 129920x^9 + 4039700x^8 + 25641046x^7 - 280839335x^6 + 898685872x^5 + 16131957716x^4 - 45704937222x^3 + 319575017916x^2 - 551814977952x + 763615224369$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2^1$ | T: 14,8 | $\frac{187}{98}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|---------|------------------|
| $x^{14} - 168x^{11} - 3318x^{10} + 3864x^9 + 338142x^8 - 407696x^7 - 7088487x^6 + 28111104x^5 + 125150970x^4 - 279010032x^3 - 578448423x^2 + 2445031848x + 4965602020$ | | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2^6$ | T: 14,8 | $\frac{187}{98}$ |
| $x^{14} + 21x^{13} + 21x^{12} - 14x^{14} - 21x^{13} - 7x^{12} - 21x^7 + 21$ | $x^{14} - 168x^{11} + 812x^{10} - 2380x^9 + 11606x^8 - 53736x^7 + 187768x^6 - 825748x^5 + 3133200x^4 - 6146224x^3 + 6683950x^2 - 11051250x + 14674125$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2^6$ | T: 14,8 | $\frac{187}{98}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|---------|------------------|
| $x^{14} + 84x^{13} + 126x^{12} - 98x^{11} + 49x^9 + 98x^8 - 21x^7 - 98x^6 - 147x^5 + 49x^4 + 98x^3 - 147x^2 - 98x - 77$ | $x^{14} + 406x^{12} - 11571x^{11} +$ $214774x^{10} - 5286120x^9 +$ $142617650x^8 - 2529238045x^7 +$ $31729940984x^6 - 256346177150x^5 +$ $1692652457538x^4$ $13953246940206x^3$ $148344290151218x^2$ $1345290682535457x$ 7164671426274069 | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2^1$ | T: 14,8 | $\frac{187}{98}$ |
| $x^{14} + 21x^{13} - 14x^{12} - 14$ | $x^{14} - 28x^{11} + 56x^{10} + 112x^9 + 336x^8 -$ $762x^7 - 784x^6 + 1176x^5 + 5376x^4 +$ $7084x^3 + 5005x^2 + 1148x + 9$ | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2^2$ | T: 14,8 | $\frac{187}{98}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|---------|------------------|
| $x^{14} + 7x^{13} - 7x^{12} + 21x^7 - 14$ | $x^{14} - 1988x^{11} + 7182x^{10} +$ $44716x^9 - 206052x^8 + 1247124x^7 +$ $283465x^6 + 1429428x^5 - 3309124x^4 +$ $18227664x^3 - 32783296x^2 +$ $5148416x - 1964153152$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2^6$ | T: 14,8 | $\frac{187}{98}$ |
| $x^{14} - 21x^{13} + 7x^{12} - 14x^7 + 14$ | $x^{14} - 126x^{12} - 2352x^{11} - 22995x^{10} -$ $88760x^9 + 499086x^8 + 7991810x^7 +$ $61971966x^6 + 344731450x^5 +$ $3066032900x^4 + 15628614820x^3 +$ $34202514857x^2 + 53128607882x +$ 171721757811 | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2^6$ | T: 14,8 | $\frac{187}{98}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|---------|------------------|
| $x^{14} - 14x^{13} - 21x^{12} + 21x^7 + 7$ | $x^{14} - 7x^{13} - 7x^{12} - 791x^{11} + 1519x^{10} +$ $8799x^9 + 258419x^8 + 1020419x^7 +$ $5376644x^6 + 9685116x^5 +$ $30927008x^4 + 17890880x^3 +$ $75700800x^2 - 18200000x + 44000000$ | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}_2^6$ | T: 14,1 | $\frac{25}{14}$ |
| $x^{14} + 14x^{13} - 7x^{12} + 7x^7 - 14$ | $x^{14} - 364x^{11} - 574x^{10} + 14252x^9 -$ $51800x^8 - 50836x^7 + 1423401x^6 -$ $916300x^5 - 8448216x^4 +$ $20509328x^3 - 23017204x^2 +$ $13234368x - 3724776$ | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2^6$ | T: 14,8 | $\frac{187}{98}$ |
| $x^{14} + 14x^{12} + 14$ | $x^{14} - 28x^{12} - 70x^{11} + 322x^{10} -$ $28x^9 - 4018x^8 + 4398x^7 + 75950x^6 +$ $48482x^5 - 467726x^4 - 417256x^3 +$ $1573705x^2 + 437178x - 21946266$ | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}_2$ | T: 14,1 | $\frac{25}{14}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|---------|------------------|
| $x^{14} + 21x^{13} - 7x^{12} - 14x^7 + 21$ | $x^{14} - 168x^{11} + 616x^{10} + 6244x^9 +$ $5236x^8 - 88694x^7 + 24157x^6 +$ $2010176x^5 + 14954058x^4 +$ $28075474x^3 + 42694197x^2 +$ $20510042x + 16611382$ | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}_2^6$ | T: 14,1 | $\frac{25}{14}$ |
| $x^{14} + 14x^{13} + 21x^{12} + 7x^7 - 7$ | $x^{14} - 2450x^{10} - 2156x^9 - 22638x^8 -$ $361620x^7 + 136857x^6 - 1584660x^5 -$ $10556854x^4 + 23068808x^3 -$ $89314799x^2 + 91458892x - 134106140$ | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2^6$ | T: 14,8 | $\frac{187}{98}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS | |
|---|---------------------------------------|--|---------|-----------------|--|
| $x^{14} + 7x^{13} + 21x^{12} - 14x^7 + 7$ | $x^{14} - 7x^{13} + 35x^{12} +$ | | | | |
| | $6965x^{11} - 1388135x^{10} -$ | | | | |
| | $1452941x^9 + 3330203905x^8 -$ | | | | |
| | $18842388553x^7 - 1404415011790x^6 -$ | | | | |
| | $15296678272680x^5 +$ | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2$ | T: 14,1 | $\frac{25}{14}$ | |
| | $462686934729264x^4 +$ | | | | |
| | $4459664946995664x^3 -$ | | | | |
| | $6152679719247712x^2 -$ | | | | |
| | $670135264512373184x +$ | | | | |
| | 3205487786974229632 | | | | |
| | Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|---------|------------------|
| $x^{14} + 7x^{13} - 14x^{12} - 7x^7 - 21$ | $x^{14} - 7x^{13} + 35x^{12} + 6965x^{11} -$ | | | |
| | $952469x^{10} + 10267537x^9 +$ | | | |
| | $5383317121x^8 - 507770000671x^7 +$ | | | |
| | $28748659666013x^6 -$ | | | |
| | $1061751594849981x^5 +$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}^3$ | T: 14,8 | $\frac{187}{98}$ |
| | $23788530710876253x^4 -$ | | | |
| | $281061835948133373x^3 +$ | | | |
| | $1764857227041961325x^2 -$ | | | |
| | $24734676531225068471x +$ | | | |
| | 644558917452003926236 | | | |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|---------|------------------|
| $x^{14} - 7x^{13} + 35x^{12} + 6965x^{11} +$ $2617867x^{10} + 269116897x^9 +$ $3364738405x^8 + 388831392401x^7 +$ $13109808313889x^6$ | $241762809761823x^5 +$ $12790248912534261x^4$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}^3$ | T: 14,8 | $\frac{187}{98}$ |
| $x^{14} + 14x^{13} + 21x^{12} + 14x^7 + 7$ | $160193801706246483x^3 +$ $4036968703496936249x^2$ | | | |
| $x^{14} + 105x^{13} + 140x^{12} +$ $49x^{11} - 147x^{10} + 98x^9 -$ $49x^8 - 28x^7 - 147x^5 + 49x^4 -$ $98x^3 - 147x^2 + 56$ | $15314321566992232645x +$ 305719303173511359304 | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}^1$ | T: 14,8 | $\frac{187}{98}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|------------------------------------|---------------------------------------|--|---------|------------------|
| $x^{14} + 14x^{13} + 7x^{12} + 21$ | $x^{14} - 231x^{12} - 115500x^{11} +$ | | | |
| | $214137x^{10} + 42135786x^9 +$ | | | |
| | $2350207398x^8 + 31407755115x^7 -$ | | | |
| | $2084467370139x^6 -$ | | | |
| | $12874699843929x^5 +$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2^3$ | T: 14,8 | $\frac{187}{98}$ |
| | $1058090382077652x^4 -$ | | | |
| | $8751752197494768x^3 +$ | | | |
| | $23451055458722199x^2 +$ | | | |
| | $220581978175323765x +$ | | | |
| | 439787781758866563 | | | |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|---------|------------------|
| $x^{14} - 119x^{13} + 63x^{12} - 98x^{11} + 147x^{10} + 147x^9 + 147x^8 - 119x^7 + 49x^5 + 147x^4 - 98x^3 + 147x^2 - 147x + 133$ | $x^{14} + 406x^{12} - 11165x^{11} + 155092x^{10} - 3990168x^9 + 78566075x^8 + 129758963x^7 + 962477404x^6 - 158988578301x^5 + 1011805518920x^4 + 8250522455889x^3 + 150880159812746x^2 + 56897552714324x + 493250513900411$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}^1$ | T: 14,8 | $\frac{187}{98}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|---------|------------------|
| $x^{14} + 406x^{12} - 2639x^{11} + 72674x^{10} -$ $1011752x^9 + 32514307x^8 +$ $897367329x^7 - 13065478286x^6 -$ $263049627519x^5 + 540878874662x^4 +$ $21069053501685x^3 +$ $101112921258916x^2 +$ $37358224983226x +$ 255771406110739 | $x^{14} - 70x^{12} + 49x^{10} - 49x^9 -$ $63x^7 - 49x^6 + 98x^5 - 98x^4 -$ $98x^3 - 49x^2 - 98x + 168$ | $\begin{bmatrix} 3 & 1 \\ 2 & 2 \end{bmatrix}_2$ | T: 14,8 | $\frac{187}{98}$ |
| $x^{14} - 14x^{13} + 21x^{12} + 7x^7 + 14$ | $x^{14} - 28x^{11} - 21x^{10} + 126x^9 + 1463x^8 +$ $2433x^7 + 3234x^6 + 8036x^5 + 16212x^4 +$ $3927x^3 + 20440x^2 + 5523x + 7326$ | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2$ | T: 14,1 | $\frac{25}{14}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|---------|------------------|
| $x^{14} - 70x^{13} + 140x^{12} - 49x^{11} -$ $147x^{10} + 49x^9 + 49x^8 - 49x^7 -$ $147x^6 - 147x^5 + 49x^4 + 98x^3 -$ $147x^2 - 98x - 91$ | $x^{14} - 812x^{11} + 29232x^{10} -$ $175392x^9 + 5162290x^8 - 6722026x^7 +$ $137432015x^6 - 205550492x^5 +$ $3146424890x^4 - 35515847136x^3 +$ $312505037040x^2 - 2439846439534x +$ 8326078689793 | $\begin{bmatrix} 3 & 1 \\ 2 & 2 \end{bmatrix}_2$ | T: 14,8 | $\frac{187}{98}$ |
| $x^{14} + 7x^{13} + 21x^{12} - 14x^7 + 21$ | $x^{14} - 28x^{11} + 28x^{10} + 28x^9 + 140x^8 -$ $332x^7 - 539x^6 + 2548x^5 - 2800x^4 -$ $826x^3 + 3388x^2 - 1680x + 333$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2$ | T: 14,8 | $\frac{187}{98}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|---------|------------------|
| $x^{14} + 406x^{12} - 8323x^{11} - 12586x^{10} + 579768x^9 + 20801004x^8 + 468902334x^7 + 111223091x^6 - 20553659868x^5 - 60192178991x^4 - 17634736538832x^3 - 93585521307096x^2 + 2262570302795502x + 18945003630566651$ | $x^{14} - 7x^{13} - 280x^{12} - 231x^{11} + 39508x^{10} + 269619x^9 + 1207409x^8 + 12880409x^7 + 152624136x^6 + 800856021x^5 + 5156123903x^4 + 12749173899x^3 + 160210376585x^2 + 388447677380x + 2855129406427$ | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2^1$ | T: 14,8 | $\frac{187}{98}$ |
| $x^{14} - 154x^{13} - 140x^{12} - 98x^{11} - 98x^9 - 49x^8 - 63x^7 - 98x^5 + 147x^4 - 147x^3 - 147x^2 + 147x + 140$ | | | | |
| $x^{14} - 14x^{13} - 21x^{12} + 7x^7 - 14$ | | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2^3$ | T: 14,1 | $\frac{25}{14}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|---------|------------------|
| $x^{14} + 14x^{13} + 21x^{12} - 21x^7 - 7$ | $x^{14} - 28x^{11} - 434x^{10} - 868x^9 - 4956x^8 - 8980x^7 + 48265x^6 + 304388x^5 + 1758596x^4 + 4825744x^3 + 11528384x^2 + 40170368x + 56411840$ | $\begin{bmatrix} 6 \\ 2 \end{bmatrix}_2$ | T: 14,1 | $\frac{25}{14}$ |
| $x^{14} - 105x^{13} - 105x^{12} - 147x^{11} + 147x^{10} - 49x^9 - 21x^7 - 49x^6 + 147x^5 + 49x^3 - 147x^2 + 154$ | $x^{14} - 812x^{11} - 37555x^{10} + 114492x^9 + 5860001x^8 + 6770369x^7 - 456513302x^6 - 1979021016x^5 + 28380137905x^4 + 62702631271x^3 - 840664294666x^2 - 304504274368x + 9717859876064$ | $\begin{bmatrix} 3 & 2 \\ 2 \end{bmatrix}_2^1$ | T: 14,8 | $\frac{187}{98}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|---------|-----------------|
| $x^{14} - 56x^{13} - 112x^{12} + 49x^{11} +$ $98x^{10} - 147x^9 - 42x^7 + 98x^6 -$ $49x^5 + 98x^4 - 98x^3 + 147x -$ 84 | $x^{14} - 812x^{11} + 8729x^{10} + 239134x^9 +$ $5865685x^8 + 70091666x^7 +$ $733767454x^6 + 5616786700x^5 +$ $39308800027x^4 + 200176985575x^3 +$ $941525394390x^2 + 2923659885741x +$ 7775628764171 | $\begin{bmatrix} 1 \\ 2 \end{bmatrix}_2$ | T: 14,1 | $\frac{25}{14}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|---------|-----------------|
| $x^{14} - 7x^{13} - 3682x^{12} -$ $67333x^{11} + 3217781x^{10} +$ $157219860x^9 + 2917285553x^8 +$ $27166232787x^7 + 103952010421x^6 -$ | | | | |
| $x^{14} + 14x^{13} + 14x^{12} + 21x^7 + 21$ | $12019917392x^5 + 5101359442053x^4 +$ $124300625042895x^3 +$ $1065066928545872x^2 +$ $4403406366463055x +$ 7616041831717643 | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2$ | T: 14,1 | $\frac{25}{14}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|---------|------------------|
| $x^{14} - 119x^{13} + 133x^{12} -$ $98x^{11} + 98x^{10} + 98x^9 - 49x^8 +$ $21x^7 + 147x^6 + 98x^5 - 49x^4 +$ $49x^2 - 147x + 112$ | $x^{14} - 812x^{11} + 11571x^{10} - 198534x^9 +$ $5169395x^8 - 38066328x^7 +$ $215110980x^6 - 2112867848x^5 +$ $12080530203x^4 - 43947685383x^3 +$ $263153797984x^2 - 206678117415x +$ 1787701529889 | $\begin{bmatrix} 1 \\ 2 \end{bmatrix}_2$ | T: 14,1 | $\frac{25}{14}$ |
| $x^{14} + 168x^{12} + 147x^{11} -$ $147x^{10} + 98x^9 - 35x^7 - 49x^6 -$ $147x^5 - 49x^4 + 49x^3 + 98x^2 -$ $147x - 70$ | $x^{14} - 812x^{11} + 12180x^{10} +$ $330484x^9 + 4593890x^8 - 9162086x^7 -$ $105165368x^6 + 1935998820x^5 +$ $26036623284x^4 - 28182952840x^3 +$ $75903275077x^2 - 36191568770x +$ 39843260573 | $\begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix}_2$ | T: 14,8 | $\frac{187}{98}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|---------|------------------|
| $x^{14} - 21x^{13} - 14x^{12} - 21x^7 - 14$ | $x^{14} - 7x^{13} + 112x^{12} - 441x^{11} + 3815x^{10} - 12180x^9 + 62363x^8 - 194129x^7 + 659043x^6 - 1772120x^5 + 4615947x^4 - 6978685x^3 + 14605206x^2 - 7060473x + 15579999$ | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}_2$ | T: 14,1 | $\frac{25}{14}$ |
| $x^{14} - 56x^{13} - 91x^{12} - 49x^{11} + 49x^{10} + 49x^9 + 49x^8 + 77x^7 + 49x^6 + 49x^5 + 49x^4 + 147x^2 + 147x - 154$ | $x^{14} + 406x^{12} - 14413x^{11} + 311402x^{10} - 6047776x^9 + 173295619x^8 - 2433100899x^7 + 29769546436x^6 - 324103374847x^5 + 3249125948026x^4 - 27017644437763x^3 + 210130607788220x^2 + 1109206314196652x + 2931683040995899$ | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2^1$ | T: 14,8 | $\frac{187}{98}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|---------|------------------|
| $x^{14} + 406x^{12} - 8729x^{11} + 385294x^{10} -$ $528612x^9 + 141597372x^8 -$ $204559388x^7 + 19186127429x^6 -$ $41433000350x^5 + 1898299667061x^4 +$ $524616826020x^3 +$ $112621860614536x^2 +$ $211868972624148x +$ 2418064276503681 | $x^{14} + 70x^{13} + 77x^{12} - 98x^{10} -$ $147x^9 - 49x^8 - 112x^7 + 98x^6 -$ $98x^5 - 98x^4 + 147x^2 - 28$ | $\begin{bmatrix} 3 & 1 \\ 2 & 2 \end{bmatrix}_2$ | T: 14,8 | $\frac{187}{98}$ |
| $x^{14} - 168x^{13} + 70x^{12} -$ $147x^{11} + 147x^{10} - 98x^9 +$ $49x^8 + 168x^7 - 49x^4 - 147x^3 -$ $49x^2 + 98x + 126$ | $x^{14} - 28x^{11} + 7x^{10} + 14x^9 + 189x^8 -$ $90x^7 - 98x^6 - 196x^5 + 427x^4 - 217x^3 -$ $140x^2 + 119x + 79$ | $\begin{bmatrix} 1 & 1 \\ 2 & 2 \end{bmatrix}_2$ | T: 14,1 | $\frac{25}{14}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|------------------------|--|--|---------|-----------------|
| | $x^{14} - 7x^{13} - 1134x^{12} +$ $5677x^{11} + 527436x^{10} -$ $1713159x^9 - 125739789x^8 +$ $226769243x^7 + 16297443631x^6 -$ $4217965010x^5 - 1084621539176x^4 -$ $1891506765806x^3 +$ $28211403854557x^2 +$ $123217776932348x +$ 375343234368559 | $\begin{bmatrix} 1 \\ 2 \end{bmatrix}_2$ | T: 14,1 | $\frac{25}{14}$ |
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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|---------|------------------|
| $x^{14} - 812x^{11} - 34713x^{10} + 202594x^9 + 6098729x^8 - 32037750x^7 - 456513302x^6 + 1802151988x^5 + 21699746915x^4 - 24333661359x^3 - 747021704828x^2 - 692764057475x + 15264334137791$ | | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}_2^1$ | T: 14,8 | $\frac{187}{98}$ |
| $x^{14} - 7x^{13} - 14x^{12} + 14$ | | | | |
| $x^{14} + 14x^{12} - 14$ | $x^{14} - 7x^{13} - 1134x^{12} + 5677x^{11} + 391020x^{10} - 945819x^9 - 30393531x^8 - 114662953x^7 + 943711993x^6 + 10282791484x^5 + 56239997128x^4 + 195972396340x^3 + 580110772213x^2 + 1121796635288x + 1769172320029$ | $\begin{bmatrix} 1 & 2 \\ 2 & 2 \end{bmatrix}_2^1$ | T: 14,1 | $\frac{25}{14}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|---------|------------------|
| $x^{14} - 168x^{13} - 70x^{12} - 98x^{10} +$ $49x^9 + 49x^8 + 119x^7 - 147x^6 -$ $49x^5 - 49x^4 - 98x^3 - 49x^2 -$ $147x + 119$ | $x^{14} - 7x^{13} - 1134x^{12} - 5691x^{11} +$ $385336x^{10} + 5988661x^9 +$ $20634579x^8 - 71538445x^7 +$ $269245711x^6 + 5498423742x^5 +$ $29056776x^4 + 10268070638x^3 +$ $477770073697x^2 - 801653760012x +$ 3042039137699 | $\begin{bmatrix} 1 \\ 2 \end{bmatrix}_2$ | T: 14,1 | $\frac{25}{14}$ |
| $x^{14} - 140x^{13} + 7x^{12} - 49x^{11} +$ $98x^{10} - 49x^9 - 49x^8 + 70x^7 +$ $98x^6 - 147x^5 + 49x^4 + 147x^3 -$ $49x^2 + 147x + 42$ | $x^{14} + 14x^{12} - 7x^{11} + 252x^{10} +$ $1190x^8 - 607x^7 + 18718x^6 - 30366x^5 +$ $40908x^4 - 25522x^3 + 419832x^2 -$ $412713x + 1449981$ | $\begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix}_2$ | T: 14,8 | $\frac{187}{98}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|---------|------------------|
| $x^{14} + 119x^{13} - 105x^{12} - 98x^{11} + 98x^9 - 112x^7 - 49x^6 - 147x^5 - 147x^4 + 49x^3 - 98x^2 + 147x + 56$ | $x^{14} - 28x^{11} + 28x^{10} + 28x^9 + 140x^8 - 360x^7 + 147x^6 - 196x^5 + 336x^4 + 546x^3 - 532x^2 - 896x + 823$ | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2^1$ | T: 14,8 | $\frac{187}{98}$ |
| $x^{14} + 84x^{13} - 63x^{12} + 98x^{11} + 49x^{10} - 98x^9 - 49x^8 - 77x^7 + 49x^6 - 147x^5 + 147x^4 + 98x^3 + 147x - 133$ | $x^{14} - 812x^{11} - 3451x^{10} + 194068x^9 + 5331389x^8 + 78184957x^7 + 948878434x^6 + 7122563560x^5 + 56282422133x^4 + 237004668243x^3 + 1081261486998x^2 + 2188010552112x + 5675811201792$ | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2^1$ | T: 14,8 | $\frac{187}{98}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|---------|------------------|
| $x^{14} - 812x^{11} - 17661x^{10} - 87290x^9 +$ $x^{14} + 49x^{13} - 112x^{12} + 49x^{11} +$ $3739869x^8 - 29101558x^7 +$ $28681464x^6 + 2605232980x^5 +$ $11551288903x^4 + 51275457989x^3 +$ $147x^5 - 147x^4 - 147x^3 -$ $49x^2 + 98x - 133$ | $x^{14} - 812x^{11} - 17661x^{10} - 87290x^9 +$ $3739869x^8 - 29101558x^7 +$ $28681464x^6 + 2605232980x^5 +$ $11551288903x^4 + 51275457989x^3 +$ $413910743134x^2 + 1594305442373x +$ 2077730591311 | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2^1$ | T: 14,8 | $\frac{187}{98}$ |
| $x^{14} + 112x^{13} - 56x^{12} + 49x^{11} -$ $147x^{10} + 49x^9 + 105x^7 -$ $147x^6 + 98x^5 - 49x^4 + 147x^3 -$ $147x^2 + 49x - 42$ | $x^{14} - 812x^{11} + 7917x^{10} - 198128x^9 +$ $4402055x^8 - 62949575x^7 +$ $246182566x^6 - 1778250768x^5 +$ $17120273163x^4 + 30588952079x^3 +$ $443438310322x^2 + 662696834884x +$ 2563870992008 | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2^1$ | T: 14,8 | $\frac{187}{98}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|---------|------------------|
| $x^{14} + 406x^{12} - 6902x^{11} + 153671x^{10} +$ $1887088x^9 + 69312523x^8 +$ $496658118x^7 + 4111627975x^6 +$ $47791466632x^5 + 2472175129627x^4 +$ $18160024683010x^3 +$ $178104245934230x^2 +$ $979807863855884x +$ 10143197242450021 | | $\begin{bmatrix} 3 & 1 \\ 2 & 2 \end{bmatrix}_2$ | T: 14,8 | $\frac{187}{98}$ |
| $x^{14} + 63x^{13} - 140x^{12} + 98x^{11} -$ $98x^{10} - 98x^9 - 98x^8 + 77x^7 +$ $98x^6 + 49x^5 - 49x^4 + 147x^3 -$ $49x^2 - 147x - 56$ | | | | |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|---------|------------------|
| $x^{14} + 84x^{13} + 112x^{12} + 49x^{11} - 49x^{10} + 49x^9 + 147x^8 - 49x^7 + 49x^6 - 49x^5 - 98x^4 - 147x^2 + 147x - 63$ | $x^{14} + 406x^{12} - 203x^{11} + 183512x^{10} + 1557416x^9 + 90252379x^8 + 1165183721x^7 + 33803413028x^6 + 288868961633x^5 + 4212135854724x^4 + 13818702987327x^3 + 280865550764694x^2 + 20750783778844x + 9031295098617331$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}^1$ | T: 14,8 | $\frac{187}{98}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|---------|-----------------|
| $x^{14} + 14x^{13} - 21x^{12} + 7x^7 + 14$ | $x^{14} - 7x^{13} - 245x^{12} + 917x^{11} +$ $25753x^{10} - 5229x^9 - 1246049x^8 -$ $3748173x^7 + 17075037x^6 +$ $132744479x^5 + 376044487x^4 +$ $636049225x^3 + 830736137x^2 +$ $868868175x + 660552992$ | $\begin{bmatrix} 6 \\ 2 \end{bmatrix}_2$ | T: 14,1 | $\frac{25}{14}$ |
| $x^{14} + 63x^{13} + 35x^{12} + 98x^{11} +$ $98x^{10} - 98x^9 + 147x^8 -$ $112x^7 - 49x^6 + 147x^5 + 98x^4 -$ $49x^3 + 147x^2 + 49x + 63$ | $x^{14} - 812x^{11} + 17255x^{10} - 221270x^9 +$ $5175079x^8 - 37003420x^7 +$ $382419520x^6 - 2313638096x^5 +$ $10397884315x^4 - 28019912375x^3 +$ $50915744628x^2 - 433333386675x +$ 2558606699525 | $\begin{bmatrix} 1 \\ 2 \end{bmatrix}_2$ | T: 14,1 | $\frac{25}{14}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|---------|------------------|
| $x^{14} - 812x^{11} - 12586x^{10} + 111244x^9 +$ $x^{14} + 35x^{13} + 21x^{12} + 98x^{11} -$ $4778620x^8 + 14868764x^7 -$ $49x^{10} + 147x^9 - 147x^8 +$ $14x^7 - 49x^6 + 147x^5 + 98x^4 +$ $147x^3 + 49x^2 - 49x + 28$ | $x^{14} - 812x^{11} - 12586x^{10} + 111244x^9 +$ $4778620x^8 + 14868764x^7 -$ $194794943x^6 - 607090988x^5 +$ $9763306924x^4 - 4870385744x^3 -$ $61788068160x^2 + 140686678272x +$ 1192124954624 | $\begin{bmatrix} 1 \\ 2 \end{bmatrix}_2$ | T: 14,1 | $\frac{25}{14}$ |
| $x^{14} - 77x^{13} - 91x^{12} + 98x^{10} +$ $49x^9 + 98x^8 + 14x^7 + 147x^6 +$ $98x^4 - 98x^3 - 147x - 154$ | $x^{14} + 406x^{12} - 203x^{11} + 157934x^{10} -$ $733236x^9 + 68418714x^8 +$ $99860427x^7 + 26262413282x^6 +$ $23831258892x^5 + 3875825084824x^4 +$ $11194154318802x^3 +$ $154598179941828x^2$ $148988974267287x$ 9195099443841641 | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2^1$ | T: 14,8 | $\frac{187}{98}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|---------|------------------|
| $x^{14} + 112x^{13} + 28x^{12} - 98x^{11} +$ $147x^{10} + 98x^9 + 49x^8 -$ $161x^7 + 49x^6 + 147x^5 +$ $147x^2 - 147x - 126$ | $x^{14} + 42x^{12} - 119x^{11} + 553x^{10} -$ $2702x^9 + 6174x^8 - 15735x^7 +$ $36995x^6 - 61572x^5 + 88655x^4 -$ $58940x^3 + 2863x^2 - 4557x + 30361$ | $\begin{bmatrix} 1 \\ 2 \end{bmatrix}_2$ | T: 14,1 | $\frac{25}{14}$ |
| $x^{14} - 7x^{13} - 119x^{12} + 147x^{11} -$ $147x^9 - 49x^8 - 63x^7 - 147x^6 -$ $98x^5 + 49x^4 - 98x^3 + 98x^2 +$ $147x + 70$ | $x^{14} + 14x^{12} - 105x^{11} + 56x^{10} -$ $784x^9 + 3199x^8 + 5581x^7 + 17346x^6 -$ $30611x^5 + 54824x^4 - 90741x^3 +$ $66542x^2 - 54670x + 38599$ | $\begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix}_2$ | T: 14,8 | $\frac{187}{98}$ |
| $x^{14} + 28x^{13} - 77x^{12} + 147x^{11} +$ $98x^9 + 147x^8 + 28x^7 - 98x^6 -$ $49x^4 - 98x^3 + 49x^2 - 168$ | $x^{14} - 812x^{11} - 29029x^{10} + 134386x^9 +$ $5638325x^8 - 29966744x^7 -$ $155357930x^6 - 506705864x^5 +$ $12356760017x^4 + 56548067121x^3 -$ $539427658518x^2 - 1351866490317x +$ 10320922313433 | $\begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix}_2$ | T: 14,8 | $\frac{187}{98}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|---------|------------------|
| $x^{14} + 406x^{12} - 5481x^{11} + 120988x^{10} -$ $3188724x^9 + 74929736x^8 -$ $437337980x^7 - 10538253943x^6 +$ $58187425898x^5 + 1068923706669x^4 -$ $3869336657130x^3 +$ $100722612935210x^2 -$ $92314818609000x +$ 2594895675753375 | $x^{14} - 812x^{11} + 5075x^{10} - 110026x^9 +$ $4785725x^8 + 43070626x^7 +$ $129066588x^6 - 3284027628x^5 -$ $14912141881x^4 - 3960261431x^3 +$ $331427632914x^2 + 1122280248593x +$ 2166570743159 | $\begin{bmatrix} 3 & 1 \\ 2 & 2 \end{bmatrix}$ | T: 14,8 | $\frac{187}{98}$ |
| $x^{14} + 133x^{13} - 84x^{12} - 98x^{11} -$ $49x^{10} - 49x^9 + 49x^8 - 126x^7 +$ $98x^6 + 98x^5 - 49x^4 + 49x^3 +$ $49x^2 - 98x + 35$ | $x^{14} - 42x^{13} - 126x^{12} +$ $147x^{11} + 49x^{10} + 147x^9 -$ $147x^8 - 77x^7 - 147x^6 +$ $49x^5 - 147x^4 - 98x^3 + 147x^2 +$ $147x + 28$ | $\begin{bmatrix} 3 & 1 \\ 2 & 2 \end{bmatrix}$ | T: 14,8 | $\frac{187}{98}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|---------|------------------|
| $x^{14} - 7x^{13} - 42x^{12} - 147x^{11} +$ $98x^{10} + 49x^8 + 14x^7 - 49x^6 -$ $49x^5 - 49x^3 + 49x^2 - 147x -$ 56 | $x^{14} + 14x^{12} - 105x^{11} + 56x^{10} - 784x^9 +$ $3836x^8 - 390x^7 + 18375x^6 - 38108x^5 +$ $44681x^4 - 83146x^3 + 431690x^2 +$ 242858x + 801781 | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2^1$ | T: 14,8 | $\frac{187}{98}$ |
| $x^{14} - 98x^{13} - 63x^{12} + 98x^{11} -$ $147x^9 + 147x^8 - 168x^7 -$ $49x^5 + 147x^4 + 49x^3 - 98x^2 -$ $49x - 35$ | $x^{14} - 812x^{11} - 11977x^{10} + 17864x^9 +$ $4657835x^8 + 41571877x^7 +$ $831762456x^6 + 4947552540x^5 +$ $41504297807x^4 + 178762175347x^3 +$ $545606465334x^2 + 768469293872x +$ 894999035648 | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2^1$ | T: 14,8 | $\frac{187}{98}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|---------|------------------|
| $x^{14} + 98x^{13} + 168x^{12} -$ $147x^{11} + 49x^{10} - 147x^9 -$ $98x^8 - 112x^7 + 49x^6 + 147x^5 -$ $147x^4 - 49x^2 + 147x + 77$ | $x^{14} - 812x^{11} + 16443x^{10} + 66178x^9 +$ $4581101x^8 + 45566308x^7 +$ $145797442x^6 + 2638694688x^5 +$ $7418767965x^4 + 26236539917x^3 +$ $412663099450x^2 - 671762055461x +$ 6120858576389 | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2^1$ | T: 14,8 | $\frac{187}{98}$ |
| $x^{14} + 161x^{13} + 35x^{12} +$ $147x^{11} + 49x^{10} - 49x^9 +$ $147x^8 - 7x^7 - 98x^6 - 147x^5 -$ $49x^4 - 98x^3 - 49x^2 - 84$ | $x^{14} - 812x^{11} - 13398x^{10} + 40600x^9 +$ $4545576x^8 + 24529418x^7 +$ $656088489x^6 - 305935616x^5 +$ $20180824384x^4 - 95835356050x^3 +$ $193701632908x^2 - 225902722276x +$ 157517844229 | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2^1$ | T: 14,8 | $\frac{187}{98}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|---------|------------------|
| $x^{14} - 812x^{11} - 7714x^{10} + 46284x^9 +$ $x^{14} + 70x^{13} + 84x^{12} + 98x^{11} +$ $147x^{10} - 49x^9 + 147x^8 -$ $28x^7 + 98x^6 + 49x^5 + 49x^4 -$ $98x^3 - 98x + 161$ | $x^{14} - 812x^{11} - 7714x^{10} + 46284x^9 +$ $4082330x^8 - 45034216x^7 -$ $280839335x^6 + 831762456x^5 +$ $19026395458x^4 + 41718555172x^3 +$ $137696294204x^2 + 638922291350x +$ 1024145009843 | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2^1$ | T: 14,8 | $\frac{187}{98}$ |
| $x^{14} - 105x^{13} + 133x^{12} -$ $147x^{11} - 147x^{10} + 98x^9 +$ $147x^8 + 112x^7 - 98x^6 - 49x^4 -$ $147x^3 - 147x + 161$ | $x^{14} - 28x^{11} - 21x^{10} + 28x^9 + 189x^8 +$ $263x^7 - 196x^6 - 196x^5 + 189x^4 +$ $301x^3 + 350x^2 - 112x + 256$ | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2^1$ | T: 14,8 | $\frac{187}{98}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|---------|------------------|
| $x^{14} + 406x^{12} - 8729x^{11} +$ $328454x^{10} - 5570320x^9 +$ $153476932x^8 - 2793376570x^7 +$ $46388765255x^6 - 557967458104x^5 +$ $5328557761233x^4$ | $x^{14} + 406x^{12} - 8729x^{11} +$ $328454x^{10} - 5570320x^9 +$ $153476932x^8 - 2793376570x^7 +$ $46388765255x^6 - 557967458104x^5 +$ $5328557761233x^4$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}$ | T: 14,8 | $\frac{187}{98}$ |
| $98x^{11} + 147x^{13} - 168x^{12} -$ $49x^{10} - 98x^9 +$ $147x^8 - 70x^7 - 98x^6 + 147x^5 +$ $49x^4 - 98x^3 - 98x^2 - 147x +$ 70 | $98x^{11} + 147x^{13} - 168x^{12} -$ $49x^{10} - 98x^9 +$ $147x^8 - 70x^7 - 98x^6 + 147x^5 +$ $49x^4 - 98x^3 - 98x^2 - 147x +$ 70 | | | |
| | $276998943014640x^2$ $1141973577936394x$ 3473707018045279 | | | |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--------------------------------------|--|---------|------------------|
| $x^{14} + 98x^{13} - 133x^{12} - 98x^{11} -$ | $x^{14} + 406x^{12} - 2639x^{11} +$ | | | |
| $147x^{10} - 147x^9 - 147x^8 +$ | $103936x^{10} - 1688148x^9 +$ | | | |
| $35x^7 + 49x^6 - 49x^5 + 147x^4 +$ | $68816594x^8 - 1274313679x^7 +$ | | | |
| $49x^3 - 98x^2 - 98x + 133$ | $23829516340x^6 - 193534536300x^5 +$ | $\begin{bmatrix} 3 & 1 \\ 2 & 2 \end{bmatrix}$ | T: 14,8 | $\frac{187}{98}$ |
| | $1258259157722x^4$ | | | |
| | $989939776266x^3$ | | | |
| | $5091733352930x^2$ | | | |
| | $1541600597630429x$ | | | |
| | 16326804248194721 | | | |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|---------|------------------|
| $x^{14} - 812x^{11} + 20706x^{10} + 262276x^9 +$ $x^{14} + 7x^{13} - 112x^{12} + 147x^{11} -$ $98x^{10} - 147x^9 - 98x^8 -$ $168x^7 + 98x^6 - 147x^5 - 49x^3 +$ $98x^2 + 49x + 161$ | $x^{14} - 812x^{11} + 20706x^{10} + 262276x^9 +$ $4627994x^8 + 25151004x^7 +$ $421856533x^6 + 3709469344x^5 +$ $17429793962x^4 - 33493803924x^3 +$ $30676191532x^2 + 41994102094x +$ 1124610032207 | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2^1$ | T: 14,8 | $\frac{187}{98}$ |
| $x^{14} - 14x^{13} + 21x^{12} + 14x^7 -$ 21 | $x^{14} - 812x^{11} - 25375x^{10} +$ $91350x^9 + 5325705x^8 - 4215266x^7 -$ $437392326x^6 + 329836836x^5 +$ $19700239139x^4 - 19413083053x^3 -$ $423674050058x^2 + 251900249993x +$ 3854284665359 | $\begin{bmatrix} 1 \\ 2 \end{bmatrix}_2$ | T: 14,1 | $\frac{25}{14}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|---------|------------------|
| $x^{14} - 812x^{11} + 29232x^{10} - 419804x^9 +$ $x^{14} + 28x^{13} - 63x^{12} + 147x^{11} +$ | $x^{14} - 812x^{11} + 29232x^{10} - 419804x^9 +$ $6412770x^8 - 81022462x^7 +$ | | | |
| $147x^{10} + 49x^9 - 98x^8 -$ $168x^7 + 147x^6 - 147x^4 -$ | $831762456x^6 - 6830968676x^5 +$ $46653815656x^4 - 266597622340x^3 +$ | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2^1$ | T: 14,8 | $\frac{187}{98}$ |
| $147x^3 + 147x + 63$ | $1380522687313x^2 -$ $6194838047146x + 17562147236029$ | | | |
| $x^{14} + 119x^{13} + 28x^{12} + 49x^{10} -$ $49x^9 - 98x^8 - 70x^7 - 147x^6 +$ | $x^{14} - 7x^{13} - 1134x^{12} + 2429x^{11} +$ $408884x^{10} + 758569x^9 - 35093793x^8 -$ | | | |
| $98x^5 + 147x^4 + 98x^2 - 49x +$ 168 | $23805953x^7 + 1828441209x^6 -$ $477420832x^5 - 37520658322x^4 +$ $34498881844x^3 + 539505830381x^2 -$ $1365912973320x + 8870661925129$ | $\begin{bmatrix} 1 \\ 2 \end{bmatrix}_2$ | T: 14,1 | $\frac{25}{14}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--------------------------------------|--|---------|------------------|
| $x^{14} - 77x^{13} + 28x^{12} - 147x^{11} -$ | $x^{14} + 406x^{12} - 15834x^{11} +$ | | | |
| $147x^{10} - 98x^9 - 98x^8 + 7x^7 +$ | $39991x^{10} - 2557800x^9 +$ | | | |
| $147x^5 - 147x^4 - 147x^3 +$ | $55750499x^8 + 707859434x^7 +$ | | | |
| $49x - 126$ | $5833175159x^6 - 149640004640x^5 -$ | $\begin{bmatrix} 3 & 1 \\ 2 & 2 \end{bmatrix}$ | T: 14,8 | $\frac{187}{98}$ |
| | $2337090885549x^4 +$ | | | |
| | $4621180191726x^3 +$ | | | |
| | $217054075586726x^2 +$ | | | |
| | $1148804706444444x +$ | | | |
| | 1848001144831101 | | | |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|---------|-----------------|
| $x^{14} + 133x^{13} - 133x^{12} +$ $49x^9 - 84x^7 - 98x^5 + 98x^4 -$ $49x^3 + 147x^2 - 147x - 112$ | $x^{14} - 7x^{13} - 1134x^{12} + 2429x^{11} +$ $431620x^{10} + 440265x^9 - 47382601x^8 +$ $116190967x^7 + 1867234509x^6 -$ $14176787324x^5 + 82533862418x^4 -$ $24633092376x^3 + 886198886685x^2 -$ $1537346483064x + 3344450350581$ | $\begin{bmatrix} 1 \\ 2 \end{bmatrix}_2$ | T: 14,1 | $\frac{25}{14}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|---------|------------------|
| $x^{14} + 406x^{12} - 5887x^{11} +$ $308560x^{10} + 1995084x^9 +$ $130314632x^8 + 1008064360x^7 +$ $22892300053x^6 + 252837171930x^5 +$ $3466884317813x^4$ | $x^{14} + 406x^{12} - 5887x^{11} +$ $308560x^{10} + 1995084x^9 +$ $130314632x^8 + 1008064360x^7 +$ $22892300053x^6 + 252837171930x^5 +$ $3466884317813x^4$ | $\begin{bmatrix} 3 & 2 \\ 2 & 2 \end{bmatrix}$ | T: 14,8 | $\frac{187}{98}$ |
| $84x^{13} + 105x^{12} +$ $147x^{11} - 98x^{10} - 49x^9 -$ $147x^8 - 42x^7 - 98x^6 + 98x^4 +$ $98x^3 - 98x - 105$ | $84x^{13} + 105x^{12} +$ $147x^{11} - 98x^{10} - 49x^9 -$ $147x^8 - 42x^7 - 98x^6 + 98x^4 +$ $98x^3 - 98x - 105$ | | | |
| | $23884301197638x^3$ $185431213716686x^2$ $728166767255984x$ 2650505931953279 | | | |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|---------|-----------------|
| $x^{14} + 168x^{13} + 140x^{12} +$ $49x^{11} + 49x^{10} - 49x^9 -$ $168x^7 - 147x^6 + 147x^5 -$ $49x^4 - 98x^3 + 98x^2 - 98x - 91$ | $x^{14} - 812x^{11} + 8729x^{10} - 45066x^9 +$ $4942035x^8 - 2313968x^7 +$ $215110980x^6 - 1577480520x^5 -$ $434148589x^4 - 29451595453x^3 +$ $40865281618x^2 + 463999676273x +$ 542414506181 | $\begin{bmatrix} 1 \\ 2 \end{bmatrix}_2$ | T: 14,1 | $\frac{25}{14}$ |
| $x^{14} - 112x^{13} + 126x^{12} +$ $147x^{11} - 98x^{10} + 147x^8 +$ $63x^7 - 98x^5 - 49x^4 + 147x^3 -$ $98x^2 - 98x - 28$ | $x^{14} - 7x^{13} - 1134x^{12} + 2835x^{11} +$ $474859x^{10} + 323134x^9 -$ $79861383x^8 - 76602889x^7 +$ $6206172343x^6 + 5853651006x^5 -$ $165566346939x^4 - 470334692653x^3 +$ $2870056962934x^2 +$ $11503542031905x + 47396290569959$ | $\begin{bmatrix} 1 \\ 2 \end{bmatrix}_2$ | T: 14,1 | $\frac{25}{14}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|----------|------------------|
| $x^{14} + 112x^{13} + 147x^{12} +$ $98x^{11} - 147x^{10} + 98x^9 +$ $49x^8 + 105x^7 - 147x^6 -$ $147x^5 + 147x^4 + 147x^3 -$ $49x - 119$ | | $\begin{bmatrix} 25 & 25 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} - 42x^{13} + 147x^{12} -$ $147x^{11} + 147x^{10} - 98x^9 -$ $98x^8 - 70x^7 - 49x^6 - 147x^5 +$ $49x^4 + 98x^3 + 49x^2 + 98x - 70$ | | $\begin{bmatrix} 25 & 25 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} - 84x^{13} - 98x^{12} + 147x^{11} +$ $147x^{10} + 98x^9 + 147x^8 +$ $161x^7 + 98x^6 - 49x^5 + 49x^4 +$ $49x^3 - 98x + 7$ | | $\begin{bmatrix} 25 & 25 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|---|----------|------------------|
| $x^{14} - 105x^{13} - 98x^{12} + 98x^{11} +$ $98x^{10} - 98x^9 + 98x^8 - 105x^7 -$ $49x^6 - 98x^5 - 147x^4 + 98x^3 +$ $147x^2 - 98x - 161$ | | $\begin{bmatrix} 25 & 25 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} - 14x^{13} + 147x^{11} + 49x^9 +$ $126x^7 - 147x^6 - 147x^5 +$ $98x^3 + 49x + 21$ | | $\begin{bmatrix} 25 & 25 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} - 77x^{13} - 49x^{12} + 147x^{11} -$ $147x^{10} - 147x^9 + 49x^8 -$ $28x^7 - 98x^5 + 147x^3 + 98x^2 +$ $147x + 77$ | | $\begin{bmatrix} 25 & 25 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|----------|------------------|
| $x^{14} + 63x^{13} + 147x^{12} + 98x^{11} +$ $98x^{10} + 147x^9 + 49x^8 + 98x^7 -$ $49x^6 + 147x^5 + 49x^4 - 147x^3 +$ $147x + 140$ | | $\left[\begin{array}{c} 25 \\ 12 \end{array} \frac{25}{12} \right]_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} - 84x^{13} - 147x^{12} +$ $147x^{11} + 147x^{10} + 98x^9 +$ $28x^7 + 147x^6 + 98x^5 - 147x^3 -$ $98x^2 + 49x - 42$ | | $\left[\begin{array}{c} 25 \\ 12 \end{array} \frac{25}{12} \right]_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} - 154x^{13} + 49x^{11} +$ $147x^{10} + 98x^8 + 63x^7 + 98x^6 -$ $147x^5 - 49x^4 - 98x^3 - 49x -$ 84 | | $\left[\begin{array}{c} 25 \\ 12 \end{array} \frac{25}{12} \right]_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} + 21x^{13} + 21x^7 - 7$ | | $\left[\begin{array}{c} 25 \\ 12 \end{array} \frac{25}{12} \right]_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|---|----------|------------------|
| $x^{14} + 161x^{13} - 49x^{12} + 98x^{11} +$ $147x^{10} - 49x^9 - 147x^8 -$ $63x^7 + 147x^6 - 147x^5 - 98x^4 -$ $98x^3 + 98x^2 + 98x + 42$ | | $\begin{bmatrix} 25 & 25 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} + 126x^{13} - 98x^{12} + 49x^{10} +$ $98x^9 + 98x^8 - 35x^7 - 49x^6 -$ $98x^4 + 49x^3 - 147x^2 - 49x -$ 56 | | $\begin{bmatrix} 25 & 25 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} - 14x^{13} + 147x^{12} -$ $147x^{11} + 98x^9 - 98x^8 +$ $133x^7 - 147x^6 + 49x^5 - 49x^4 +$ $147x^2 - 98x + 63$ | | $\begin{bmatrix} 25 & 25 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|---|----------|------------------|
| $x^{14} + 154x^{13} - 147x^{12} +$ $98x^{11} + 49x^9 - 49x^8 - 161x^7 +$ $147x^6 - 98x^5 + 98x^4 + 49x^3 +$ $98x^2 - 147x - 126$ | | $\left[\begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} - 28x^{13} - 147x^{12} + 98x^{10} -$ $98x^9 + 98x^8 + 28x^7 - 147x^6 -$ $49x^5 - 147x^4 + 49x^3 + 98x^2 +$ 84 | | $\left[\begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} + 63x^{13} - 49x^{12} + 98x^{11} +$ $98x^{10} + 49x^9 - 49x^8 - 70x^7 +$ $147x^6 + 98x^5 + 49x^4 - 98x^3 +$ $49x^2 + 147x + 112$ | | $\left[\begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|---|----------|------------------|
| $x^{14} + 133x^{13} + 49x^{12} - 49x^{11} -$ $98x^{10} - 98x^9 - 147x^8 -$ $168x^7 + 147x^6 + 147x^5 -$ $98x^4 + 49x^3 - 49x^2 - 98x - 35$ | | $\left[\begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} + 7x^{13} - 21x^7 + 14$ | | $\left[\begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} + 91x^{13} + 49x^{12} + 147x^{11} -$ $49x^{10} - 49x^9 + 49x^8 + 70x^7 -$ $98x^5 - 147x^4 + 49x^3 + 49x^2 +$ $49x - 154$ | | $\left[\begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} + 154x^{13} + 49x^{12} + 98x^9 -$ $49x^8 - 98x^7 + 49x^6 - 98x^5 +$ $147x^4 - 49x - 56$ | | $\left[\begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|----------|------------------|
| $x^{14} - 56x^{13} - 49x^{12} + 49x^{11} +$ $98x^{10} + 98x^9 + 98x^8 + 14x^7 +$ $147x^6 - 98x^5 - 49x^4 - 49x^3 +$ $98x^2 - 98x - 126$ | | $\begin{bmatrix} 25 & 25 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} + 56x^{13} - 147x^{12} + 49x^{11} -$ $49x^{10} - 49x^9 - 49x^8 + 98x^7 -$ $49x^6 + 147x^5 - 147x^4 - 98x^3 -$ $147x^2 + 147x - 168$ | | $\begin{bmatrix} 25 & 25 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} + 42x^{13} - 98x^{12} + 147x^8 -$ $21x^7 - 147x^6 - 49x^5 + 98x^4 -$ $98x^2 + 98x - 56$ | | $\begin{bmatrix} 25 & 25 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|----------|------------------|
| $x^{14} - 77x^{13} + 147x^{12} - 98x^{11} +$ $147x^9 + 98x^8 - 7x^7 - 49x^6 -$ $98x^5 - 98x^4 + 147x^3 - 98x -$ 42 | | $\left[\begin{array}{c} 25 \\ 12 \end{array} \frac{25}{12} \right]_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} - 70x^{13} - 49x^{12} - 147x^{11} +$ $49x^{10} - 49x^9 - 98x^8 - 140x^7 -$ $98x^4 - 49x^2 + 70$ | | $\left[\begin{array}{c} 25 \\ 12 \end{array} \frac{25}{12} \right]_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} + 14x^{13} - 147x^{12} +$ $147x^{10} - 147x^9 - 147x^8 -$ $7x^7 - 98x^6 - 147x^5 + 49x^4 +$ $147x^3 - 147x^2 - 49x - 7$ | | $\left[\begin{array}{c} 25 \\ 12 \end{array} \frac{25}{12} \right]_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} + 7x^{13} + 7x^7 + 7$ | | $\left[\begin{array}{c} 25 \\ 12 \end{array} \frac{25}{12} \right]_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|----------|------------------|
| $x^{14} + 63x^{13} - 98x^{12} + 147x^{10} -$ $49x^9 - 140x^7 - 147x^5 - 49x^4 -$ $98x^3 - 98x^2 - 105$ | | $\begin{bmatrix} 25 & 25 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} + 35x^{13} + 98x^{12} + 147x^{11} -$ $147x^{10} + 147x^9 - 147x^8 +$ $70x^7 + 98x^6 + 49x^5 + 98x^4 -$ $147x^3 - 49x^2 - 119$ | | $\begin{bmatrix} 25 & 25 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} + 133x^{13} - 147x^{12} +$ $49x^{11} + 98x^{10} + 98x^9 -$ $147x^8 + 161x^7 + 49x^6 -$ $147x^5 - 147x^4 + 147x^3 +$ $49x^2 + 98x - 21$ | | $\begin{bmatrix} 25 & 25 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|----------|------------------|
| $x^{14} - 133x^{13} - 98x^{12} - 49x^{11} -$ $147x^{10} + 98x^9 + 49x^8 - 14x^7 +$ $49x^5 + 147x^4 + 147x^2 - 98x -$ 154 | | $\left[\begin{array}{c} 25 \\ 12 \end{array} \right. \left. \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} - 42x^{13} + 147x^{12} + 98x^{11} -$ $147x^{10} + 98x^9 - 147x^8 -$ $28x^7 + 49x^5 - 147x^4 - 49x +$ 63 | | $\left[\begin{array}{c} 25 \\ 12 \end{array} \right. \left. \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} + 21x^{13} + 7x^7 - 14$ | | $\left[\begin{array}{c} 25 \\ 12 \end{array} \right. \left. \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} + 28x^{13} + 98x^{12} + 147x^{10} +$ $49x^9 + 70x^7 - 49x^6 - 98x^5 -$ $98x^4 + 49x^3 - 147x^2 - 147x -$ 154 | | $\left[\begin{array}{c} 25 \\ 12 \end{array} \right. \left. \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|---|----------|------------------|
| $x^{14} + 105x^{13} - 49x^{12} +$ $147x^{11} + 147x^{10} + 98x^8 +$ $126x^7 - 98x^6 + 147x^5 +$ $147x^4 - 147x^3 - 49x^2 - 49x +$ 168 | | $\begin{bmatrix} 25 & 25 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} - 7x^{13} - 7x^7 + 21$ | | $\begin{bmatrix} 25 & 25 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} + 126x^{13} - 49x^{10} + 49x^9 +$ $161x^7 - 49x^6 + 147x^5 + 49x^4 +$ $98x^3 - 49x^2 + 98x + 161$ | | $\begin{bmatrix} 25 & 25 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} - 70x^{13} - 98x^{11} - 98x^{10} -$ $49x^9 - 98x^8 - 21x^7 + 49x^6 +$ $147x^5 - 49x^4 + 98x^3 + 98x^2 -$ $49x + 56$ | | $\begin{bmatrix} 25 & 25 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|----------|------------------|
| $x^{14} - 105x^{13} - 147x^{12} +$ $147x^{10} - 147x^9 - 49x^8 +$ $119x^7 - 147x^6 + 98x^5 - 49x^4 +$ $98x^3 - 49x^2 - 147x - 35$ | | $\begin{bmatrix} 25 & 25 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} - 161x^{13} - 147x^{12} -$ $49x^9 - 147x^8 + 133x^7 + 49x^6 +$ $98x^5 - 98x^4 + 147x^2 - 98x -$ 77 | | $\begin{bmatrix} 25 & 25 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} + 77x^{13} - 49x^{12} - 49x^{10} +$ $98x^9 + 49x^8 + 168x^7 - 49x^6 -$ $147x^4 - 49x^3 - 147x^2 + 98x +$ 63 | | $\begin{bmatrix} 25 & 25 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{14} - 112x^{13} + 98x^{12} +$ $147x^{11} + 147x^{10} + 49x^8 +$ $49x^7 + 49x^6 - 98x^5 + 147x^4 +$ $98x^3 + 49x^2 + 147x - 119$ | | $\begin{bmatrix} 25 & 25 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 14,23 | $\frac{173}{84}$ |
| $x^{14} - 49x^{13} + 49x^{12} + 147x^{11} -$ $98x^{10} - 98x^9 - 98x^8 + 21x^7 +$ $98x^6 + 147x^5 - 49x^4 + 49x^3 -$ $98x^2 - 49x - 21$ | $x^{14} - 7x^{13} + 35x^{12} - 119x^{11} + 329x^{10} -$ $721x^9 + 1337x^8 + 1803989914x^7 -$ $25239235581x^6 - 49950397x^5 +$ $252475631037x^4 - 252309138599x^3 -$ $151585270949x^2 + 151452078253x +$ 1857811632704213699 | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}_6^1$ | T: 14,14 | $\frac{611}{294}$ |
| $x^{14} + 49x^{13} + 147x^{12} -$ $147x^{11} + 147x^{10} + 98x^9 +$ $49x^8 - 14x^7 - 147x^6 + 147x^4 +$ $147x^3 - 147x^2 - 98x - 28$ | $x^{14} - 28$ | $\begin{bmatrix} 13 \\ 6 \end{bmatrix}_6^2$ | T: 14,4 | $\frac{83}{42}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|-------------------|
| $x^{14} - 98x^{13} + 147x^{11} - 49x^{10} + 98x^9 + 147x^8 + 21x^7 + 98x^6 - 49x^5 + 147x^2 + 49x + 161$ | $x^{14} - 7x^{13} + 35x^{12} - 119x^{11} + 329x^{10} - 721x^9 + 1337x^8 + 13691010983x^7 - 205110692962x^6 + 40309536848x^5 + 1983924392772x^4 - 2118289524484x^3 - 1109735553500x^2 + 1217227660124x + 118899944885625497876$ | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}_6^1$ | T: 14,14 | $\frac{611}{294}$ |
| $x^{14} - 98x^{13} + 49x^{12} + 49x^{11} + 49x^{10} + 98x^9 + 98x^8 - 70x^7 + 98x^6 - 147x^5 + 49x^4 - 98x^3 - 49x^2 - 147x - 14$ | $x^{14} - 7$ | $\begin{bmatrix} 13 \\ 6 \end{bmatrix}_6^2$ | T: 14,4 | $\frac{83}{42}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|-------------------|
| $x^{14} - 98x^{13} - 147x^{12} - 49x^{11} -$ $147x^{10} + 98x^9 + 98x^8 - 77x^7 -$ $98x^6 + 98x^5 - 98x^4 + 98x^3 -$ $147x^2 - 147x - 7$ | $x^{14} - 350x^7 + 30618$ | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{611}{294}$ |
| $x^{14} - 49x^{13} + 49x^{12} + 98x^{11} +$ $147x^9 + 49x^8 + 49x^7 - 147x^6 +$ $49x^5 - 98x^4 + 49x^3 + 98x^2 -$ $49x + 133$ | $x^{14} + 441x^{10} - 448x^7 + 43218x^6 -$ $27342x^5 + 131712x^3 + 453789x^2 +$ $574182x + 231805$ | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{611}{294}$ |
| $x^{14} + 147x^{13} - 49x^{12} +$ $147x^{11} - 147x^8 + 7x^7 +$ $147x^6 + 49x^5 + 98x^4 + 147x^3 -$ $147x^2 - 49x + 7$ | $x^{14} - 15325607066x^7 +$ 59449972476913031552 | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}_6^1$ | T: 14,14 | $\frac{611}{294}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------------|--|----------|-------------------|
| $x^{14} - 49588x^{12} + 966023828x^{10} -$ $9331790178480x^8$ | $-$ | | | |
| $7554306334960x^7$ | $+$ | | | |
| $x^{14} + 49x^{13} + 147x^{12} -$ | $+$ | | | |
| $147x^{11} + 147x^{10} + 147x^9 -$ | $-$ | $\left[\begin{smallmatrix} 5 & 13 \\ 3 & 6 \end{smallmatrix} \right]_6^1$ | T: 14,14 | $\frac{611}{294}$ |
| $147x^8 - 98x^7 + 98x^5 + 98x^2 -$ | $-$ | | | |
| $49x - 70$ | $+$ | | | |
| | $1326843622469583532160x^3$ | | | |
| | $96758119927973100283456x^2$ | | | |
| | $2349840055393632435455360x$ | | | |
| | $14260115803145679861308992$ | | | |
| $x^{14} - 98x^{13} + 147x^{11} -$ $147x^{10} + 98x^9 + 98x^8 + 63x^7 +$ $49x^6 - 147x^5 + 49x^4 - 147x^3 -$ $98x^2 + 49x + 168$ | $x^{14} - 14x^7 - 14$ | $\left[\begin{smallmatrix} 5 & 13 \\ 3 & 6 \end{smallmatrix} \right]_6^2$ | T: 14,14 | $\frac{611}{294}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{14} - 49882x^{12} - 595056x^{11} +$ $748567904x^{10} + 16986468576x^9 -$ $3402775881456x^8$ | $155143394084140x^7 +$ $1128306242137788x^6 +$ $149369765749555736x^5 +$ $1173500907312876352x^4 -$ $40233174446923943408x^3 -$ $476472549663407999408x^2 +$ $3228303667530904830560x +$ 43359684614633582777050 | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}^1_6$ | T: 14,14 | $\frac{611}{294}$ |
| $x^{14} - 147x^{12} + 98x^{10} - 98x^9 +$ $147x^8 - 49x^7 + 147x^6 + 98x^5 +$ $147x^4 - 49x^3 - 49x^2 + 98x -$ 168 | | | | |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{14} + 147x^{13} - 147x^{12} + 98x^{11} + 98x^{10} + 98x^9 + 49x^8 - 63x^7 + 147x^6 + 98x^5 - 49x^4 - 147x^3 - 98x^2 + 98x - 14$ | $x^{14} + 49x^{12} + 1127x^{10} + 13720x^8 - 616x^7 + 93639x^6 - 32242x^5 + 302526x^4 - 270284x^3 + 453789x^2 - 268912x + 266364$ | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{611}{294}$ |
| $x^{14} + 49x^{13} - 49x^{11} + 147x^{10} - 49x^9 - 98x^8 + 98x^7 + 147x^6 + 49x^5 - 49x^4 + 147x^3 - 49x - 7$ | $x^{14} - 42x^7 - 7$ | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{611}{294}$ |
| $x^{14} + 49x^{13} + 147x^{12} - 49x^{11} - 49x^{10} - 49x^8 + 63x^7 + 49x^6 + 147x^5 + 49x^4 - 147x^3 + 147x^2 - 126$ | $x^{14} - 84x^7 - 28$ | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{611}{294}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|-----------------------------------|---------|-----------------|
| $x^{14} + 49x^{13} - 147x^{12} + 49x^{11} -$ $98x^{10} + 98x^9 + 147x^8 + 35x^7 +$ $147x^6 + 49x^5 + 49x^4 - 147x^3 +$ $147x^2 - 98x - 7$ | $x^{14} + 98x^{12} + 3773x^{10} + 72030x^8 +$ $705894x^6 + 3294172x^4 + 5764801x^2 +$ 3292800 | $\left[\frac{13}{6} \right]_6^2$ | T: 14,4 | $\frac{83}{42}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{14} - 49882x^{12} - 595056x^{11} +$ $748567904x^{10} + 16986468576x^9 -$ $3402775881456x^8$ | $+ 152659797005408x^7 +$ $1240871591590344x^6 +$ $146940059225909488x^5 -$ $1050956470995582592x^4$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_6^1$ | T: 14,14 | $\frac{611}{294}$ |
| $x^{14} + 98x^{13} - 98x^{12} - 147x^{11} +$ $49x^{10} + 147x^9 - 98x^8 + 91x^7 +$ $98x^6 + 147x^5 + 49x^4 + 98x^2 +$ $147x - 168$ | $38878035010841147968x^3 -$ $455955271373783928992x^2 +$ $735368381431326434176x -$ 175371724424277558632 | | | |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{14} + 49x^{13} + 147x^{12} +$ $147x^{11} + 98x^{10} - 147x^9 +$ $147x^8 + 35x^7 - 98x^6 + 49x^4 +$ $147x^2 - 49x - 14$ | $x^{14} - 98x^{12} + 3773x^{10} - 72030x^8 -$ $7686x^7 + 705894x^6 + 376614x^5 -$ $3294172x^4 - 5272596x^3 +$ $5764801x^2 + 18454086x + 14811524$ | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{611}{294}$ |
| $x^{14} - 98x^{13} - 147x^{11} -$ $147x^9 - 98x^8 - 28x^7 + 147x^6 +$ $49x^5 - 98x^4 - 147x^2 - 98x +$ 91 | $x^{14} - 238x^7 - 14$ | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{611}{294}$ |
| $x^{14} + 49x^{12} + 147x^{11} +$ $147x^{10} - 49x^9 - 98x^8 -$ $119x^7 + 98x^6 - 98x^5 - 98x^4 -$ $147x^3 - 49x^2 + 98x + 119$ | $x^{14} + 441x^{10} - 224x^7 + 43218x^6 -$ $26754x^5 + 65856x^3 + 453789x^2 +$ $561834x + 186445$ | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{611}{294}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{14} - 49588x^{12} + 966023828x^{10} -$ $9331790178480x^8$ | $-$ | | | |
| $7878062320744x^7$ | $+$ | | | |
| $x^{14} - 147x^{13} + 49x^{12} +$ $147x^{11} - 98x^{10} - 147x^9 -$ $98x^8 + 77x^7 + 49x^5 + 147x^4 -$ $49x^3 + 49x - 168$ | $+$ $+$ $-$ $-$ $+$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_6^1$ $\left[\begin{array}{c} 13 \\ 6 \end{array} \right]_6^1$ | T: 14,14 | $\frac{611}{294}$ |
| | $1383708349146851397824x^3$ $96758119927973100283456x^2$ $2450547486339073825546304x$ $15509813674582868697563584$ | | | |
| $x^{14} + 49x^{13} - 98x^{12} + 98x^{11} -$ $147x^8 + 105x^7 + 49x^6 -$ $147x^5 + 147x^4 - 147x^3 +$ $49x^2 - 147x - 56$ | $x^{14} - 112x^7 + 49$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_6^2$ $\left[\begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 14,14 | $\frac{611}{294}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{14} - 24794x^{12} + 213277988x^{10} -$ $x^{14} + 49x^{13} + 147x^{12} + 98x^{11} -$ $799867729584x^8 - 330104142368x^7 +$ $1416565749093264x^6$ | $1596447114057488x^5$ | | | |
| $147x^{10} - 49x^9 + 98x^8 +$ $133x^7 + 98x^6 + 49x^5 + 98x^4 +$ $49x^2 + 147x - 140$ | $1114994640730742464x^4$ $3026414024840586688x^3$ $282093644104877843392x^2$ $2498543704928918041472x$ 3598133215623441880000 | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_6^1$ | T: 14,14 | $\frac{611}{294}$ |
| $x^{14} + 49x^{13} + 147x^{12} - 49x^{11} +$ $98x^9 + 98x^8 - 147x^7 - 147x^6 +$ $147x^5 - 147x^4 - 147x^2 +$ $147x + 168$ | $x^{14} - 98x^{12} + 3773x^{10} - 72030x^8 -$ $28224x^7 + 705894x^6 + 1382976x^5 -$ $3294172x^4 - 19361664x^3 +$ $5764801x^2 + 67765824x + 210644532$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_6^2$ | T: 14,14 | $\frac{611}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{14} - 25039x^{12} - 247940x^{11} +$ $197956227x^{10} + 3556203420x^9 -$ $547493682785x^8$ | $15093370756772x^7 +$ $402421692132019x^6$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \frac{13}{6} \right]_6^1$ | T: 14,14 | $\frac{611}{294}$ |
| $x^{14} + 49x^{13} + 98x^{12} + 49x^{11} -$ $49x^{10} + 49x^9 - 147x^8 - 49x^7 -$ $98x^6 - 98x^5 - 49x^4 - 98x^3 -$ $147x^2 + 147x - 133$ | $14257639072135844x^5 +$ $60073666794876021x^4$ | | | |
| | $3978230122228074328x^3 +$ $14330244368054404111x^2$ | | | |
| | $67516596497771672944x +$ 53601421027261507099 | | | |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{14} - 49588x^{12} + 966023828x^{10} -$ $9331790178480x^8$ $+ 9385754886200x^7$ $+ 46274481137046624x^6$ $- 232710406648442800x^5$ $- 109269474791612761472x^4$ $+ 1648520520697568795200x^3$ $+ 96758119927973100283456x^2$ $+ 2919529842155394336299200x$ $+ 21997095311834380670817808$ | $x^{14} - 49588x^{12} + 966023828x^{10} -$ $9331790178480x^8$ $+ 9385754886200x^7$ $+ 46274481137046624x^6$ $- 232710406648442800x^5$ $- 109269474791612761472x^4$ $+ 1648520520697568795200x^3$ $+ 96758119927973100283456x^2$ $+ 2919529842155394336299200x$ $+ 21997095311834380670817808$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_6^1$ | T: 14,14 | $\frac{611}{294}$ |
| $x^{14} - 147x^{13} - 147x^{12} +$ $49x^{10} + 98x^9 + 56x^7 + 98x^6 -$ $98x^3 - 147x^2 + 98x + 126$ | $x^{14} + 882x^{10} - 1064x^7 + 172872x^6 -$ $49392x^5 + 625632x^3 + 3630312x^2 +$ $2074464x + 579376$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_6^2$ | T: 14,14 | $\frac{611}{294}$ |
| $x^{14} - 98x^{13} + 49x^{12} + 98x^{11} +$ $98x^{10} - 49x^9 + 98x^8 + 147x^7 +$ $98x^6 + 147x^4 - 98x^3 - 147x^2 -$ $98x + 140$ | | | | |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{14} - 49x^{13} + 98x^{11} + 49x^{10} - 98x^9 - 77x^7 - 147x^6 - 49x^5 - 98x^4 + 147x^3 - 98x^2 - 147x - 119$ | $x^{14} - 15386483420x^7 + 59449972476913031552$ | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}^1_6$ | T: 14,14 | $\frac{611}{294}$ |
| $x^{14} + 49x^{12} + 49x^{11} + 49x^{10} - 98x^9 + 49x^8 + 168x^7 - 98x^5 + 147x^4 + 98x^3 - 49x^2 - 147x + 77$ | $x^{14} - 24794x^{12} + 213277988x^{10} - 799867729584x^8 - 569139873148x^7 + 1416565749093264x^6 + 2620284043169716x^5 - 1114994640730742464x^4 + 4281503098804778000x^3 + 282093644104877843392x^2 + 2886332671044251997568x + 6311449179515081601076$ | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}^1_6$ | T: 14,14 | $\frac{611}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{14} - 25039x^{12} - 247940x^{11} +$ $197956227x^{10} + 3556203420x^9 -$ $547493682785x^8$ | $14977072962544x^7 +$ $407238068949579x^6 +$ $14119917530691588x^5 -$ $65836223695183921x^4$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_6^1$ | T: 14,14 | $\frac{611}{294}$ |
| $x^{14} + 98x^{13} + 147x^{12} - 147x^9 +$ $49x^8 - 7x^7 + 147x^6 + 49x^5 -$ $98x^4 - 98x^3 + 98x^2 - 98x +$ 126 | $3929256904766435396x^3 -$ $12595717480856992111x^2 +$ $62769674609795043968x -$ 46349331628478451811 | | | |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{14} + 98x^{13} - 98x^{12} - 147x^{11} +$ $98x^{10} - 147x^9 - 49x^8 +$ $105x^7 + 98x^6 - 147x^5 - 98x^4 +$ $49x^2 - 98x + 35$ | $x^{14} + 98x^{12} + 3773x^{10} + 72030x^8 -$ $25620x^7 + 705894x^6 - 1255380x^5 +$ $3294172x^4 - 17575320x^3 +$ $5764801x^2 - 61513620x + 208222308$ | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{611}{294}$ |
| $x^{14} - 147x^{13} - 49x^{12} - 98x^{11} +$ $98x^9 + 49x^8 + 70x^7 - 49x^6 -$ $147x^5 + 98x^4 + 49x^3 + 147x -$ 7 | $x^{14} + 98x^{12} + 3773x^{10} + 72030x^8 +$ $705894x^6 + 3294172x^4 + 5764801x^2 +$ 2873997 | $\begin{bmatrix} 13 \\ 6 \end{bmatrix}_6^2$ | T: 14,4 | $\frac{83}{42}$ |
| $x^{14} + 98x^{13} + 49x^{12} + 147x^{11} -$ $147x^{10} + 147x^9 + 49x^8 -$ $56x^7 - 49x^6 - 147x^5 - 49x^4 -$ $98x^3 - 49x^2 - 49x + 70$ | $x^{14} + 98x^{12} + 3773x^{10} + 72030x^8 +$ $705894x^6 + 3294172x^4 + 5764801x^2 +$ 3025260 | $\begin{bmatrix} 13 \\ 6 \end{bmatrix}_6^2$ | T: 14,4 | $\frac{83}{42}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{14} + 98x^{13} + 49x^{12} - 98x^{11} -$ $147x^{10} + 147x^9 + 98x^8 +$ $168x^7 - 147x^6 + 147x^3 -$ $147x^2 - 147x + 119$ | $x^{14} - 448x^7 + 784$ | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{611}{294}$ |
| $x^{14} + 98x^{13} - 147x^{12} + 49x^{11} -$ $49x^9 - 98x^8 - 161x^7 + 98x^6 -$ $147x^5 - 49x^4 + 49x^3 - 147x^2 -$ $147x - 91$ | $x^{14} - 1927118963x^7 +$ 928905819951766118 | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}_6^1$ | T: 14,14 | $\frac{611}{294}$ |
| $x^{14} - 98x^{13} - 147x^{12} +$ $147x^{11} + 98x^{10} - 49x^9 -$ $98x^8 + 161x^7 - 147x^6 + 49x^5 +$ $49x^4 - 98x^3 - 49x + 84$ | $x^{14} + 882x^{10} - 392x^7 + 172872x^6 -$ $16464x^5 + 230496x^3 + 3630312x^2 +$ $691488x + 71344$ | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{611}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{14} - 98x^{13} + 98x^{12} + 49x^{11} +$ $147x^{10} + 49x^9 - 98x^8 -$ $119x^7 + 98x^6 + 147x^5 -$ $147x^4 - 49x^3 - 49x^2 + 147x +$ 105 | $x^{14} - 15416951704x^7 +$ 59449972476913031552 | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}_6^1$ | T: 14,14 | $\frac{611}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{14} - 25039x^{12} - 247940x^{11} + 197956227x^{10} + 3556203420x^9 - 547493682785x^8 - 15203604112158x^7 + 397856570892109x^6 + 14388204788950146x^5 - 54612487100463271x^4 - 4024823142916326982x^3 - 15971099511201560201x^2 + 72297210759736831946x - 58790609295594265019$ | $x^{14} - 25039x^{12} - 247940x^{11} + 197956227x^{10} + 3556203420x^9 - 547493682785x^8 - 15203604112158x^7 + 397856570892109x^6 + 14388204788950146x^5 - 54612487100463271x^4 - 4024823142916326982x^3 - 15971099511201560201x^2 + 72297210759736831946x - 58790609295594265019$ | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}_6^1$ | T: 14,14 | $\frac{611}{294}$ |
| $x^{14} + 49x^{12} - 49x^{11} + 147x^{10} - 126x^7 + 49x^6 + 49x^4 - 98x^3 - 147x^2 + 49x + 140$ | $x^{14} - 1344x^7 - 28$ | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{611}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{14} - 14$ | $x^{14} - 1792$ | $\left[\begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 14,4 | $\frac{83}{42}$ |
| $x^{14} - 147x^{13} + 98x^{12} - 49x^{11} + 147x^{10} + 49x^9 - 49x^8 + 35x^7 + 98x^6 + 49x^5 + 98x^4 + 98x^3 + 49x^2 + 98x - 21$ | $x^{14} - 26979665482x^7 + 182065540710546159128$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_6^1 \left[\begin{array}{c} 13 \\ 6 \end{array} \right]_6^1$ | T: 14,14 | $\frac{611}{294}$ |
| $x^{14} + 147x^{13} - 98x^{12} - 49x^{11} - 49x^{10} + 98x^9 - 98x^8 - 7x^7 - 147x^6 - 147x^5 + 147x^4 - 98x^3 - 49x^2 - 49x + 7$ | $x^{14} + 28$ | $\left[\begin{array}{c} 13 \\ 6 \end{array} \right]_6^1$ | T: 14,4 | $\frac{83}{42}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{14} - 49588x^{12} + 966023828x^{10} -$ $9331790178480x^8$ | $9404340539440x^7$ | | | |
| $x^{14} + 147x^{13} + 49x^{12} + 98x^{11} +$ $98x^{10} + 147x^9 - 147x^8 +$ $98x^6 + 98x^4 - 147x^3 + 147x^2 -$ $98x + 28$ | $46274481137046624x^6$ $233171219334875360x^5$ $109269474791612761472x^4$ $1651784917768257050240x^3$ $96758119927973100283456x^2$ $2925311089367583235975040x$ $22107512170098200026172992$ | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}^1$ | T: 14,14 | $\frac{611}{294}$ |
| $x^{14} - 49x^{13} - 49x^{11} - 147x^{10} +$ $98x^9 - 49x^8 - 35x^7 + 49x^6 -$ $98x^5 - 147x^4 + 49x^3 + 49x^2 +$ $98x + 154$ | $x^{14} - 98x^{12} + 3773x^{10} - 72030x^8 +$ $705894x^6 - 3294172x^4 + 5764801x^2 -$ 2873997 | $\begin{bmatrix} 13 \\ 6 \end{bmatrix}^1$ | T: 14,4 | $\frac{83}{42}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{14} - 147x^{13} + 147x^{12} - 49x^{11} - 49x^{10} + 49x^9 - 28x^7 - 147x^6 + 49x^4 - 49x^2 - 105$ | $x^{14} + 882x^{10} - 1624x^7 + 172872x^6 - 72912x^5 + 954912x^3 + 3630312x^2 + 3062304x + 1305136$ | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{611}{294}$ |
| $x^{14} + 49x^{12} - 147x^{11} - 98x^9 + 147x^8 - 63x^7 - 147x^6 - 49x^4 + 147x^3 + 98x^2 - 21$ | $x^{14} - 30833903408x^7 + 237799889907652126208$ | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}_6^1$ | T: 14,14 | $\frac{611}{294}$ |
| $x^{14} - 21$ | $x^{14} - 98x^{12} + 3773x^{10} - 72030x^8 + 705894x^6 - 3294172x^4 + 5764801x^2 - 3292800$ | $\begin{bmatrix} 13 \\ 6 \end{bmatrix}_6^1$ | T: 14,4 | $\frac{83}{42}$ |
| $x^{14} + 98x^{12} + 49x^{11} - 49x^{10} - 49x^9 - 98x^8 + 91x^7 - 98x^6 - 49x^5 + 147x^4 + 98x^3 - 147x^2 - 98x + 133$ | $x^{14} - 672x^7 - 7$ | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{611}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{14} - 98x^{13} + 49x^{12} + 98x^{10} +$ $49x^9 + 147x^8 - 105x^7 +$ $147x^6 + 98x^5 - 98x^3 - 147x^2 -$ 91 | $x^{14} - 24794x^{12} + 213277988x^{10} -$ 799867729584 $x^8 - 450066737736x^7 +$ 1416565749093264 x^6 2110451004507384 x^5 1114994640730742464 x^4 3657572764158807648 x^3 282093644104877843392 x^2 2695101331594880355840 x 4962889331613174498768 | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}^1$ $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}^2$ | T: 14,14 | $\frac{611}{294}$ |
| $x^{14} + 49x^{11} + 147x^{10} - 147x^9 +$ $98x^8 - 56x^7 + 147x^6 - 147x^5 -$ $147x^4 + 98x^3 - 147x^2 + 98x +$ 140 | $x^{14} + 441x^{10} - 686x^7 + 43218x^6 -$ 24696 $x^5 + 201684x^3 + 453789x^2 +$ 518616 $x + 265825$ | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}^2$ | T: 14,14 | $\frac{611}{294}$ |

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Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|-------------------|
| $x^{14} - 147x^{13} - 147x^{12} -$ $147x^{11} - 49x^{10} + 98x^9 +$ $98x^8 + 7x^7 + 147x^4 + 147x^3 +$ $98x^2 + 98x + 119$ | $x^{14} - 49x^{12} + 1127x^{10} - 13720x^8 -$ $868x^7 + 93639x^6 + 10976x^5 -$ $302526x^4 + 101528x^3 + 453789x^2 -$ $585844x + 250096$ | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{611}{294}$ |
| $x^{14} + 98x^{13} + 98x^{11} + 98x^{10} -$ $147x^8 + 161x^7 + 147x^6 -$ $147x^5 + 147x^3 + 98x^2 - 98x +$ 154 | $x^{14} - 30772966840x^7 +$ 237799889907652126208 | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}_6^1$ | T: 14,14 | $\frac{611}{294}$ |
| $x^{14} - 98x^{12} - 147x^{11} + 98x^8 +$ $77x^7 + 147x^6 + 98x^5 - 98x^4 -$ $98x^3 - 98x^2 - 147x + 77$ | $x^{14} + 1792$ | $\begin{bmatrix} 13 \\ 6 \end{bmatrix}_6^1$ | T: 14,4 | $\frac{83}{42}$ |
| Continued on next page | | | | |

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{14} + 147x^{13} + 49x^{12} -$ $147x^{11} + 147x^{10} + 49x^9 -$ $98x^8 + 14x^7 - 147x^6 + 98x^5 -$ $49x^4 + 49x^3 - 147x^2 - 98x - 7$ | $x^{14} + 98x^{12} + 3773x^{10} + 72030x^8 -$ $10290x^7 + 705894x^6 - 504210x^5 +$ $3294172x^4 - 7058940x^3 +$ $5764801x^2 - 24706290x + 210406833$ | $\begin{bmatrix} 5 & 13 \\ 3 & 6 \end{bmatrix}_6^2$ | T: 14,14 | $\frac{611}{294}$ |
| $x^{14} - 147x^{13} + 98x^{11} + 98x^{10} -$ $49x^9 + 49x^8 + 14x^7 + 98x^5 -$ $147x^4 + 98x^3 - 147x^2 + 98x -$ 21 | $x^{14} - 49x^{12} + 833x^{10} - 6174x^8 - 49x^7 +$ $21609x^6 + 539x^5 - 33614x^4 - 2744x^3 +$ $16807x^2 + 5831x + 175$ | $\begin{bmatrix} 13 \\ 6 \end{bmatrix}_6^1$ | T: 14,4 | $\frac{83}{42}$ |
| $x^{14} - 98x^{13} + 49x^{12} - 49x^{11} -$ $98x^{10} + 49x^9 + 49x^8 - 133x^7 -$ $147x^6 + 98x^5 - 49x^4 + 147x^3 -$ $49x^2 + 98x - 119$ | $x^{14} + 7$ | $\begin{bmatrix} 13 \\ 6 \end{bmatrix}_6^1$ | T: 14,4 | $\frac{83}{42}$ |

Continued on next page

Table 3.4 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|---------|-----------------|
| $x^{14} - 49x^{13} - 147x^{12} +$ $147x^{11} - 49x^9 - 21x^7 - 98x^6 -$ $98x^5 + 147x^4 - 98x^3 - 49x^2 -$ $147x + 140$ | $x^{14} + 98x^{12} + 3773x^{10} + 72030x^8 +$ $705894x^6 + 3294172x^4 + 5764801x^2 +$ 28749 | $\left[\begin{smallmatrix} 13 \\ 6 \end{smallmatrix} \right]_6^2$ | T: 14,4 | $\frac{83}{42}$ |
| $x^{14} + 49x^{13} - 147x^{12} - 49x^{11} +$ $147x^{10} - 49x^9 + 98x^8 - 42x^7 -$ $147x^6 + 147x^5 + 49x^3 + 49x^2 +$ $49x - 42$ | $x^{14} - 98x^{12} + 3038x^{10} - 34300x^8 -$ $15484x^7 + 153664x^6 + 117306x^5 -$ $268912x^4 - 249704x^3 + 134456x^2 +$ $105644x - 33271$ | $\left[\begin{smallmatrix} 13 \\ 6 \end{smallmatrix} \right]_6^1$ | T: 14,4 | $\frac{83}{42}$ |

Table 3.5: Degree 15 extensions of \mathbb{Q}_3

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|------------------------|---|---|---------|---------------|
| $x^{15} + x^2 - x + 1$ | $x^{15} - x^{14} - 22x^{13} + 17x^{12} + 166x^{11} -$ $102x^{10} - 533x^9 + 270x^8 + 729x^7 -$ $352x^6 - 393x^5 + 173x^4 + 80x^3 - 27x^2 -$ $6x + 1$ | $\left[\begin{array}{c}]^{15} \\]_1 \end{array} \right]$ | T: 1,1 | 0 |
| $x^{15} - 9x^5 + 27$ | $x^{15} - 48x^{10} - 513x^5 + 27$ | $\left[\begin{array}{c}]^{12} \\]_5 \end{array} \right]$ | I: 5,1 | $\frac{4}{5}$ |

Continued on next page

Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|------------|-------------------|
| | $x^{15} + 534x^{13} - 11036x^{12} - 356445x^{11} -$ | | | |
| | $3303057x^{10} + 4340708x^9 +$ | | | |
| | $1522733040x^8 + 25801865400x^7 -$ | | | |
| | $10442000828x^6 - 3289261984425x^5 -$ | | | |
| $x^{15} + 9x^{14} + 3x^{13} + 21x^{12} +$ | $11731418737698x^4 +$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{3}{2} \\ \frac{3}{2} \\ \frac{3}{2} \\ \frac{3}{2} \end{array} \right]_2^5$ | I: 486,260 | $\frac{727}{486}$ |
| $9x^{11} + 6x^{10} + 16x^9 + 9x^8 +$ | $218971550450338x^3 +$ | | | |
| $3x^7 + 12x^5 + 3x^4 + 16x^3 +$ | $584232219851625x^2 -$ | | | |
| $3x^2 + 9x + 10$ | $9566281188519309x +$ | | | |
| | 21061402607852749 | | | |

Continued on next page

Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|-------------------|
| $x^{15} - 3x^{14} - 276x^{13} + 10178x^{12} - 354816x^{11} + 1537788x^{10} + 90568692x^9 - 2306546520x^8 + 39691030482x^7 - 140030871528x^6 - 4956080879892x^5 + 23119953452244x^4 - 65396756162112x^3 + 12688679327651868x^2 - 155866955794490664x + 514602372876454411$ | | | | |
| $x^{15} + 3x^{14} + 15x^{13} + 24x^{12} + 24x^{11} + 18x^{10} + 10x^9 + 21x^8 + 9x^7 + 15x^6 + 9x^5 + 3x^4 + 13x^3 + 18x + 7$ | | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \left. \vphantom{\begin{array}{c} 3 \\ 2 \end{array}} \right]_2^5$ | I: 486,260 | $\frac{727}{486}$ |
| $x^{15} + 3x^{14} + 18x^{12} + 9x^{11} + 12x^{10} + 10x^9 + 12x^8 + 6x^6 + 12x^5 + 12x^4 + 25x^3 + 21x^2 + 9x + 1$ | $x^{15} + 6x^{13} - 12x^{12} - 45x^{11} - 51x^{10} - 3x^9 + 225x^8 + 435x^7 - 4x^6 - 585x^5 - 216x^4 + 403x^3 + 135x^2 - 201x + 43$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \left. \vphantom{\begin{array}{c} 3 \\ 2 \end{array}} \right]_2^5$ | I: 162,54 | $\frac{241}{162}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|------------|-------------------|
| $x^{15} + 9x^{14} + 3x^{12} + 9x^{11} +$ $24x^{10} + 19x^9 + 24x^8 + 21x^7 +$ $21x^5 + 15x^4 + 22x^3 + 21x^2 +$ $3x + 7$ | $x^{15} - 25x^{12} - 25x^9 + 1500x^6 + 3125x^3 -$ 3125 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \begin{array}{c} 3 \\ 2 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \\ 2 \end{array} \left. \begin{array}{c} 3 \\ 2 \\ 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{727}{486}$ |
| $x^{15} + 18x^{14} + 21x^{13} + 9x^{12} +$ $12x^{11} + 3x^{10} + 22x^9 + 12x^8 +$ $24x^7 + 21x^6 + 3x^5 + 13x^3 +$ $21x^2 + 24x + 13$ | $x^{15} - 5x^{12} - 100x^9 + 375x^6 + 1875x^3 -$ 3125 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \begin{array}{c} 3 \\ 2 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \\ 2 \end{array} \left. \begin{array}{c} 3 \\ 2 \\ 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{727}{486}$ |
| $x^{15} + 12x^{14} + 21x^{13} + 21x^{11} +$ $9x^{10} + 7x^9 + 6x^8 + 9x^7 +$ $21x^6 + 21x^5 + 12x^4 + 25x^3 +$ $18x^2 + 24x + 22$ | $x^{15} + 18x^{13} - x^{12} + 90x^{11} - 54x^{10} -$ $32x^9 - 648x^8 - 945x^7 - 1781x^6 -$ $1242x^5 - 198x^4 - 802x^3 + 225x^2 +$ $189x - 23$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \begin{array}{c} 3 \\ 2 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \\ 2 \end{array} \left. \begin{array}{c} 3 \\ 2 \\ 2 \end{array} \right]_2^5$ | I: 162,54 | $\frac{241}{162}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|------------|-------------------|
| $x^{15} + 24x^{14} + 6x^{13} + 6x^{11} +$ $9x^{10} + 7x^9 + 24x^8 + 18x^6 +$ $18x^5 + 9x^4 + 10x^3 + 15x^2 +$ $24x + 7$ | $x^{15} - 20x^{12} + 50x^9 + 625x^6 - 1250x^3 -$ 3125 | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{3}{2} \\ \frac{3}{2} \\ \frac{3}{2} \\ \frac{3}{2} \end{array} \right]_2^5$ | I: 486,260 | $\frac{727}{486}$ |
| $x^{15} + 21x^{14} + 21x^{13} + 6x^{12} +$ $15x^{11} + 9x^{10} + 10x^9 + 15x^8 +$ $9x^7 + 18x^6 + 21x^5 + 24x^4 +$ $22x^3 + 18x^2 + 15x + 1$ | $x^{15} + 1602x^{13} - 1602x^{12} +$ $712890x^{11} + 1449543x^{10} -$ $25648198x^9 + 3641869854x^8 -$ $65308328160x^7 + 1037148982862x^6 -$ $8217225819288x^5 +$ $18025155674649x^4 -$ $483664689504437x^3 +$ $495026870153850x^2 +$ $8269511814856386x +$ 13725958753268389 | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{3}{2} \\ \frac{3}{2} \\ \frac{3}{2} \\ \frac{3}{2} \end{array} \right]_2^5$ | I: 486,260 | $\frac{727}{486}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} + 21x^{14} + 9x^{13} + 21x^{12} +$ $6x^{11} + 6x^{10} + 19x^9 + 18x^8 +$ $18x^7 + 21x^6 + 6x^5 + 9x^4 +$ $25x^3 + 15x^2 + 16$ | $x^{15} - 3x^{12} - 3x^9 + 15x^6 - 10x^3 - 1$ | $\left[\begin{array}{ccc} 3 & 3 & 3 \\ 2 & 2 & 2 \end{array} \right]_2^5$ | I: 162,54 | $\frac{241}{162}$ |
| $x^{15} + 21x^{13} + 18x^{12} + 15x^{11} +$ $12x^{10} + 7x^9 + 21x^8 + 15x^7 +$ $9x^6 + 9x^5 + 15x^4 + 13x^3 +$ $12x + 16$ | $x^{15} + 21x^{13} - 17x^{12} + 117x^{11} - 180x^{10} +$ $167x^9 - 540x^8 + 228x^7 + 38x^6 +$ $405x^5 + 417x^4 - 630x^3 - 279x^2 +$ $186x + 67$ | $\left[\begin{array}{ccc} 3 & 3 & 3 \\ 2 & 2 & 2 \end{array} \right]_2^5$ | I: 162,54 | $\frac{241}{162}$ |
| $x^{15} + 24x^{13} + 24x^{12} + 24x^{11} +$ $25x^9 + 6x^8 + 12x^7 + 18x^6 +$ $15x^5 + 21x^4 + 19x^3 + 21x^2 +$ $6x + 4$ | $x^{15} - 9x^{13} - 15x^{12} - 27x^{11} - 24x^{10} +$ $99x^9 + 144x^8 + 57x^7 + 6x^6 - 279x^5 +$ $3x^4 + 365x^3 + 234x^2 - 135x - 23$ | $\left[\begin{array}{ccc} 3 & 3 & 3 \\ 2 & 2 & 2 \end{array} \right]_2^5$ | I: 162,54 | $\frac{241}{162}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|------------|-------------------|
| $x^{15} + 3x^{14} + 24x^{13} + 9x^{11} +$ $25x^9 + 6x^8 + 21x^7 + 9x^6 +$ $24x^5 + 24x^4 + 4x^3 + 6x^2 +$ $21x + 25$ | $x^{15} + 18x^{13} - 31x^{12} + 90x^{11} - 354x^{10} +$ $308x^9 - 783x^8 + 1440x^7 + 299x^6 +$ $513x^5 - 2268x^4 + 238x^3 - 810x^2 +$ $1539x - 463$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \quad \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \quad \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \quad \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \quad \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2$ | I: 162,54 | $\frac{241}{162}$ |
| $x^{15} + 24x^{14} + 18x^{13} + 18x^{12} +$ $18x^{10} + 16x^9 + 15x^8 + 24x^7 +$ $21x^6 + 21x^5 + 6x^4 + 19x^3 +$ $15x^2 + 9x + 7$ | $x^{15} - 40x^{12} + 475x^9 - 1875x^6 + 625x^3 +$ 3125 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \quad \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \quad \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \quad \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \quad \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2$ | I: 486,260 | $\frac{727}{486}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|------------|-------------------|
| $x^{15} - 3x^{14} + 1860x^{13} + 13916x^{12} + 941202x^{11} + 15211926x^{10} + 195666300x^9 + 659754060x^8 - 37649227347x^7 - 1050135410116x^6 - 17616004395318x^5 - 189394974816333x^4 - 1582956028113438x^3 - 8845327084722546x^2 - 23089844303820426x - 15295851429943117$ | | $\left[\begin{smallmatrix} 3 & 3 & 3 & 3 \\ 2 & 2 & 2 & 2 \end{smallmatrix} \right]_2^5$ | I: 486,260 | $\frac{727}{486}$ |
| $x^{15} + 15x^{14} + 18x^{13} + 21x^{11} + 25x^9 + 15x^8 + 3x^7 + 21x^6 + 21x^5 + 18x^4 + 25x^3 + 24x^2 + 6x + 4$ | $x^{15} - 3x^{14} + 21x^{13} - 31x^{12} + 207x^{11} - 102x^{10} + 947x^9 + 1488x^8 + 75x^7 + 14565x^6 - 16692x^5 + 31335x^4 - 35754x^3 - 125298x^2 + 86121x + 21473$ | $\left[\begin{smallmatrix} 3 \\ 2 \end{smallmatrix} \right]_2^5$ | I: 6,1 | $\frac{7}{6}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|-------------------------------------|--|------------|-------------------|
| | $x^{15} - 3x^{14} - 1077x^{13} +$ | | | |
| | $34208x^{12} + 77190x^{11} -$ | | | |
| | $26398689x^{10} + 420409634x^9 +$ | | | |
| | $3065112471x^8 - 151805442603x^7 +$ | | | |
| $x^{15} + 24x^{14} + 6x^{13} + 3x^{12} +$ | $1553331870390x^6 -$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]$ | | |
| $24x^{11} + 15x^{10} + x^9 + 12x^8 +$ | $1051227957054x^5 -$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]$ | I: 486,260 | $\frac{727}{486}$ |
| $6x^7 + 9x^6 + 15x^4 + x^3 + 21x^2 +$ | $170431092049482x^4 +$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]$ | | |
| $9x + 10$ | $3242321785517978x^3 -$ | | | |
| | $36302369866746282x^2 +$ | | | |
| | $220224351887218176x -$ | | | |
| | 524639048971169441 | | | |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|---|------------|-------------------|
| $x^{15} - 3x^{14} - 810x^{13} + 17654x^{12} - 333990x^{11} + 2506731x^{10} + 62020874x^9 - 1238300079x^8 + 12329937147x^7 - 52542353811x^6 - 937670214021x^5 - 5897805961245x^4 + 143075089655097x^3 - 527398228596687x^2 + 3487828296723642x + 3117756568990097$ | | | | |
| $x^{15} + 6x^{14} + 9x^{13} + 21x^{11} + 9x^{10} + 25x^9 + 15x^8 + 12x^7 + 3x^6 + 15x^5 + 15x^4 + 16x^3 + 21x^2 + 18x + 19$ | | $\left[\begin{matrix} 3 & 3 & 3 & 3 \\ 2 & 2 & 2 & 2 \end{matrix} \right]_2^5$ | I: 486,260 | $\frac{727}{486}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|-------------------------------------|--|------------|-------------------|
| x^{15} | $- 3x^{14} - 1611x^{13} -$ | | | |
| | $5842x^{12} + 760443x^{11} +$ | | | |
| | $928494x^{10} - 111091691x^9 +$ | | | |
| | $6031635729x^8 + 106624123863x^7 -$ | | | |
| $x^{15} + 15x^{14} + 6x^{13} + 18x^{12} +$ | $1358187061417x^6 -$ | | | |
| $6x^{11} + 15x^{10} + 4x^9 + 21x^8 +$ | $35415630001332x^5 -$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]$ | I: 486,260 | $\frac{727}{486}$ |
| $6x^7 + 15x^6 + 15x^4 + 4x^3 +$ | $130943551307943x^4 -$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]$ | | |
| $12x^2 + 9x + 13$ | $808203916605106x^3 -$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]$ | | |
| | $54230927651532324x^2 -$ | | | |
| | $642620733323599953x -$ | | | |
| | 2280408379690279081 | | | |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|------------|-------------------|
| $x^{15} + 12x^{14} + 3x^{13} + 12x^{12} +$ $24x^{10} + 4x^9 + 18x^7 + 24x^6 +$ $24x^5 + 21x^4 + 4x^3 + 3x^2 +$ $18x + 10$ | $x^{15} - 15x^{12} - 625x^9 - 3625x^6 -$ $6250x^3 - 3125$ | $\left[\begin{array}{ccc} \frac{3}{2} & \frac{3}{2} & \frac{3}{2} \\ \frac{3}{2} & \frac{3}{2} & \frac{3}{2} \\ \frac{3}{2} & \frac{3}{2} & \frac{3}{2} \end{array} \right]_2^5$ | I: 486,260 | $\frac{727}{486}$ |
| $x^{15} + 6x^{13} + 21x^{12} + 12x^{10} +$ $16x^9 + 12x^8 + 9x^7 + 6x^6 +$ $9x^5 + 24x^4 + 7x^3 + 15x^2 +$ $3x + 16$ | $x^{15} - x^{12} - 4x^9 + 3x^6 + 3x^3 - 1$ | $\left[\begin{array}{ccc} \frac{3}{2} & \frac{3}{2} & \frac{3}{2} \\ \frac{3}{2} & \frac{3}{2} & \frac{3}{2} \\ \frac{3}{2} & \frac{3}{2} & \frac{3}{2} \end{array} \right]_2^5$ | I: 162,54 | $\frac{241}{162}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|------------|-------------------|
| x^{15} | $-3x^{14} + 1860x^{13} +$ | | | |
| | $15963x^{12} + 896346x^{11} +$ | | | |
| | $16721277x^{10} + 130568496x^9 +$ | | | |
| $x^{15} + 12x^{14} + 6x^{13} + 18x^{12} +$ | $3483291876x^8 + 19775954115x^7 -$ | | | |
| $12x^{11} + 18x^{10} + x^9 + 21x^8 +$ | $99312068390x^6 + 1374514150824x^5 -$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{3}{2} \\ \frac{3}{2} \\ \frac{3}{2} \\ \frac{3}{2} \end{array} \right]_2^5$ | I: 486,260 | $\frac{727}{486}$ |
| $24x^5 + 15x^4 + 4x^3 + 21x^2 +$ | $20592035248785x^4 -$ | | | |
| $24x + 1$ | $343708274699123x^3 +$ | | | |
| | $1759644758039379x^2 +$ | | | |
| | $11997400504345188x -$ | | | |
| | 50703945932444881 | | | |
| $x^{15} + 24x^{13} + 24x^{12} + 3x^{11} +$ | $x^{15} - 12x^{13} - 30x^{12} + 18x^{11} + 288x^{10} +$ | | | |
| $18x^{10} + 25x^9 + 9x^8 + 15x^7 +$ | $440x^9 - 522x^8 - 1995x^7 - 1624x^6 +$ | | | |
| $15x^6 + 21x^5 + 15x^4 + 13x^3 +$ | $414x^5 + 2166x^4 + 4531x^3 + 7002x^2 +$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{3}{2} \\ \frac{3}{2} \\ \frac{3}{2} \\ \frac{3}{2} \end{array} \right]_2^5$ | I: 162,54 | $\frac{241}{162}$ |
| $12x^2 + 18x + 25$ | $5403x + 1453$ | | | |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|------------|-------------------|
| $x^{15} + 18x^{14} + 9x^{13} + 24x^{12} +$ $3x^{10} + 19x^9 + 15x^8 + 24x^7 +$ $15x^6 + 6x^5 + 21x^4 + 13x^3 +$ $12x^2 + 21x + 7$ | $x^{15} - 3x^{13} - 9x^{12} - 36x^{11} - 18x^{10} +$ $76x^9 + 234x^8 + 483x^7 + 109x^6 -$ $387x^5 + 885x^4 + 959x^3 - 1953x^2 -$ $2583x - 727$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \left. \vphantom{\begin{array}{c} 3 \\ 2 \end{array}} \right]_2^5$ | I: 162,54 | $\frac{241}{162}$ |
| $x^{15} + 18x^{13} + 18x^{12} + 18x^{11} +$ $6x^{10} + 22x^9 + 15x^8 + 21x^7 +$ $6x^6 + 3x^4 + 4x^3 + 24x^2 + 6x + 1$ | $x^{15} - 40x^{12} - 75x^9 + 2250x^6 - 6250x^3 +$ 3125 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \left. \vphantom{\begin{array}{c} 3 \\ 2 \end{array}} \right]_2^5$ | I: 486,260 | $\frac{727}{486}$ |
| $x^{15} + 6x^{14} + 3x^{13} + 18x^{12} +$ $24x^{11} + 18x^{10} + 7x^9 + 9x^8 +$ $9x^7 + 9x^6 + 9x^5 + 3x^4 + 4x^3 +$ $15x^2 + 12x + 25$ | $x^{15} - 15x^{12} - 75x^9 + 1875x^6 - 6250x^3 -$ 3125 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \left. \vphantom{\begin{array}{c} 3 \\ 2 \end{array}} \right]_2^5$ | I: 486,260 | $\frac{727}{486}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|------------|-------------------|
| $x^{15} + 6x^{14} + 15x^{13} + 18x^{12} +$ $12x^{11} + 3x^{10} + 25x^9 + 12x^8 +$ $21x^7 + 9x^6 + 12x^5 + 6x^4 +$ $7x^3 + 3x^2 + 3x + 1$ | $x^{15} - 5x^{12} - 375x^9 - 2375x^6 - 5000x^3 -$ 3125 | $\left[\begin{array}{ccc} \frac{3}{2} & \frac{3}{2} & \frac{3}{2} \\ \frac{3}{2} & \frac{3}{2} & \frac{3}{2} \\ \frac{3}{2} & \frac{3}{2} & \frac{3}{2} \end{array} \right]_2^5$ | I: 486,260 | $\frac{727}{486}$ |
| $x^{15} + 9x^{13} + 12x^{12} + 24x^{11} +$ $16x^9 + 24x^8 + 21x^7 + 24x^5 +$ $4x^3 + 15x^2 + 21x + 1$ | $x^{15} - 3x^{14} + 525x^{13} - 12962x^{12} -$ $350277x^{11} - 5124396x^{10} + 136415x^9 +$ $2101148220x^8 + 29947884621x^7 +$ $13174861620x^6 - 2528651968275x^5 -$ $7914676645107x^4$ $99957146732609x^3$ $507801116283720x^2$ $4502945367507741x$ 6942182387460233 | $\left[\begin{array}{ccc} \frac{3}{2} & \frac{3}{2} & \frac{3}{2} \\ \frac{3}{2} & \frac{3}{2} & \frac{3}{2} \\ \frac{3}{2} & \frac{3}{2} & \frac{3}{2} \end{array} \right]_2^5$ | I: 486,260 | $\frac{727}{486}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} + 21x^{14} + 3x^{13} + 24x^{12} +$ $6x^{11} + 21x^{10} + 4x^9 + 9x^8 +$ $12x^7 + 12x^6 + 24x^5 + 3x^4 +$ $13x^3 + 9x^2 + 21x + 4$ | $x^{15} - 3x^{12} - 25x^9 - 29x^6 - 10x^3 - 1$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^5$ | I: 162,54 | $\frac{241}{162}$ |
| $x^{15} + 21x^{14} + 18x^{13} + 12x^{12} +$ $3x^{11} + x^9 + 21x^8 + 24x^7 +$ $6x^6 + 24x^5 + 6x^4 + 19x^3 +$ $12x^2 + 6x + 22$ | $x^{15} - 6x^{12} - x^9 + 10x^6 - 6x^3 + 1$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^5$ | I: 162,54 | $\frac{241}{162}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|-------------------------------------|--|------------|-------------------|
| x^{15} | $- 3x^{14} - 1077x^{13} +$ | | | |
| | $31538x^{12} + 71850x^{11} -$ | | | |
| | $23071869x^{10} + 384021984x^9 +$ | | | |
| | $1889719731x^8 - 123839627643x^7 +$ | | | |
| | $1428578745890x^6 -$ | | | |
| $x^{15} + 15x^{14} + 24x^{13} + 15x^{11} +$ | | | | |
| $12x^{10} + 22x^9 + 15x^8 + 18x^7 +$ | | | | |
| $9x^6 + 24x^4 + 4x^3 + 9x + 22$ | | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{727}{486}$ |
| | $2403510690574488x^3 -$ | | | |
| | $32039233628064927x^2 +$ | | | |
| | $217458343614396126x -$ | | | |
| | 564784797758216101 | | | |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{15} + 3x^{14} + 21x^{13} + 21x^{12} +$ $21x^{11} + 15x^{10} + 16x^9 + 15x^8 +$ $21x^7 + 18x^6 + 9x^5 + 9x^4 +$ $16x^3 + 18x^2 + 4$ | $x^{15} - x^{12} - 15x^9 - 19x^6 - 8x^3 - 1$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^5$ | I: 162,54 | $\frac{241}{162}$ |
| $x^{15} + 18x^{14} + 12x^{13} + 18x^{12} +$ $3x^{11} + 6x^{10} + 10x^9 + 9x^8 +$ $18x^7 + 3x^5 + 6x^4 + 16x^3 +$ $18x^2 + 24x + 13$ | $x^{15} - 33x^{13} - 51x^{12} + 297x^{11} + 858x^{10} -$ $295x^9 - 3960x^8 - 5676x^7 - 544x^6 +$ $10593x^5 + 23133x^4 + 28576x^3 +$ $20097x^2 + 6336x + 199$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^5$ | I: 162,54 | $\frac{241}{162}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---------------------------------------|--|------------|-------------------|
| $x^{15} - 3x^{14} + 1860x^{13} -$ | $12784x^{12} + 876054x^{11} -$ | | | |
| $10174701x^{10} + 66883923x^9 -$ | $2430272985x^8 - 4534018347x^7 +$ | | | |
| $x^{15} + 21x^{14} + 24x^{13} + 21x^{12} +$ | $162286312994x^6 + 787737248991x^5 +$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2$ | I: 486,260 | $\frac{727}{486}$ |
| $15x^{11} + 24x^{10} + x^9 + 9x^8 +$ | $33342373879320x^4 -$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2$ | | |
| $18x^7 + 21x^4 + 13x^3 + 9x^2 +$ | $177352964514079x^3 -$ | | | |
| $9x + 16$ | $3133655109034716x^2 +$ | | | |
| | $7214095667995362x +$ | | | |
| | 73208065322123071 | | | |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|------------|-------------------|
| $x^{15} - 3x^{14} - 2946x^{13} +$ $57615x^{12} + 2069277x^{11} -$ $77319594x^{10} + 223873337x^9 +$ $27148718595x^8 - 540347561913x^7 +$ $2718657893993x^6 +$ $65089944363519x^5 -$ $1693692847776387x^4 +$ $20530684903788623x^3 -$ $144656138022354831x^2 +$ $540008298412833288x -$ 732754866776488181 | | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \quad \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \quad \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \quad \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \quad \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2$ | I: 486,260 | $\frac{727}{486}$ |
| $x^{15} + 24x^{14} + 12x^{13} + 3x^{12} +$ $24x^{11} + 6x^{10} + x^9 + 18x^8 +$ $12x^7 + 18x^6 + 3x^5 + 12x^4 +$ $19x^3 + 15x^2 + 9x + 7$ | | | | |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|------------|-------------------|
| $x^{15} - 3x^{14} - 810x^{13} + 18989x^{12} - 346005x^{11} + 3263676x^{10} + 56238989x^9 - 1599823419x^8 + 17281209177x^7 - 118982301841x^6 - 963684815676x^5 + 4405617135960x^4 + 84905048383392x^3 - 1086443883724617x^2 + 672847854760317x + 6867637514341207$ | | | | |
| $x^{15} + 12x^{14} + 15x^{13} + 15x^{12} + 3x^{11} + 6x^{10} + 13x^9 + 12x^8 + 6x^7 + 21x^6 + 3x^5 + 3x^4 + 13x^3 + 24x^2 + 12x + 4$ | | $\left[\begin{matrix} 3 & 3 & 3 & 3 & 3 \\ 2 & 2 & 2 & 2 & 2 \end{matrix} \right]_2^5$ | I: 486,260 | $\frac{727}{486}$ |
| $x^{15} + 21x^{14} + 3x^{13} + 18x^{12} + 3x^{11} + 15x^{10} + 25x^9 + 3x^7 + 24x^6 + 3x^5 + 24x^4 + 25x^3 + 9x^2 + 15x + 7$ | $x^{15} - 10x^{12} - 125x^9 + 250x^6 + 2500x^3 + 3125$ | $\left[\begin{matrix} 3 & 3 & 3 & 3 & 3 \\ 2 & 2 & 2 & 2 & 2 \end{matrix} \right]_2^5$ | I: 486,260 | $\frac{727}{486}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} + 3x^{13} + 12x^{12} + 12x^{11} +$ $24x^{10} + 25x^9 + 18x^8 + 6x^7 +$ $24x^5 + 9x^4 + 25x^3 + 18x^2 +$ $18x + 19$ | $x^{15} - 4x^{12} - 9x^9 + 5x^6 + 9x^3 - 1$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^5$ | I: 162,54 | $\frac{241}{162}$ |
| $x^{15} + 9x^{14} + 21x^{13} + 15x^{12} +$ $12x^{11} + 18x^{10} + 10x^9 + 21x^8 +$ $12x^7 + 6x^5 + 9x^4 + x^3 + 12x +$ 19 | $x^{15} - 2x^{12} - 5x^9 + 13x^6 - 7x^3 + 1$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^5$ | I: 162,54 | $\frac{241}{162}$ |

Continued on next page

Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|------------|-------------------|
| $x^{15} - 3x^{14} - 276x^{13} +$ $8843x^{12} - 295809x^{11} +$ $1132749x^{10} + 57567759x^9 -$ $1138085901x^8 + 15861753339x^7 +$ $49909480523x^6 - 359972447472x^5 -$ $90910666555560x^4$ $865603118772207x^3$ $8210364682792638x^2$ $125025136421986278x$ 359017702103139089 | $+ 276x^{13}$ $+ 295809x^{11}$ $- 57567759x^9$ $+ 15861753339x^7$ $- 359972447472x^5$ $+ 555560x^4$ $+ 118772207x^3$ $- 2638x^2$ $+ 1986278x$ $+ 39089$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{3}{2} \\ \frac{3}{2} \\ \frac{3}{2} \\ \frac{3}{2} \\ \frac{3}{2} \end{array} \right]_2^5$ | I: 486,260 | $\frac{727}{486}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|-------------------|
| $x^{15} - 3x^{14} + 1593x^{13} - 22307x^{12} + 684348x^{11} - 20446191x^{10} + 105987408x^9 - 3852694392x^8 + 46198049301x^7 + 394451288731x^6 + 6992559730695x^5 - 123103892065131x^4 + 18986516891969x^3 - 6417278445092646x^2 + 87624343582019256x - 229442676068035519$ | | | | |
| $x^{15} + 24x^{14} + 12x^{13} + 6x^{12} + 24x^{11} + 18x^{10} + 10x^9 + 9x^8 + 9x^7 + 24x^6 + 24x^4 + 22x^3 + 24x^2 + 6x + 4$ | | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \begin{array}{c} 3 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{727}{486}$ |
| $x^{15} + 18x^{14} + 12x^{13} + 3x^{12} + 21x^{11} + 24x^{10} + 25x^9 + 12x^8 + 12x^7 + 9x^6 + 21x^5 + 24x^4 + 16x^3 + 6x^2 + 21x + 16$ | $x^{15} - 10x^{12} - 125x^9 + 1625x^6 - 4375x^3 + 3125$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \begin{array}{c} 3 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{727}{486}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|------------|-------------------|
| $x^{15} + 21x^{14} + 15x^{13} + 9x^{12} +$ $3x^{11} + 4x^9 + 3x^8 + 6x^7 +$ $24x^6 + 3x^5 + 9x^4 + x^3 + 12x^2 +$ $6x + 7$ | $x^{15} - 30x^{12} - 25x^9 + 1250x^6 - 3750x^3 +$ 3125 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \begin{array}{c} 3 \\ 2 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \\ 2 \end{array} \left. \begin{array}{c} 3 \\ 2 \\ 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{727}{486}$ |
| $x^{15} + 21x^{14} + 3x^{13} + 15x^{12} +$ $6x^{11} + 18x^{10} + 13x^9 + 9x^8 +$ $3x^7 + 21x^6 + 12x^5 + 9x^4 +$ $10x^3 + 15x^2 + 9x + 1$ | $x^{15} - 30x^{12} + 250x^9 - 125x^6 - 3750x^3 +$ 3125 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \begin{array}{c} 3 \\ 2 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \\ 2 \end{array} \left. \begin{array}{c} 3 \\ 2 \\ 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{727}{486}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|-------------------|
| $x^{15} - 2937x^{13} - 43343x^{12} +$ $2352537x^{11} + 64564071x^{10} -$ $204520220x^9 - 26520933780x^8 -$ $359730876351x^7 - 280956230353x^6 +$ $61170673347432x^5 +$ $1232633376521349x^4 +$ $13879369932221971x^3 +$ $87389530830208629x^2 +$ $230687413127771424x -$ 43328096527474903 | | | | |
| $x^{15} + 6x^{14} + 21x^{13} + 24x^{12} +$ $12x^{11} + 24x^{10} + 13x^9 + 15x^8 +$ $21x^6 + 6x^5 + 15x^4 + 7x^3 +$ $21x + 10$ | | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \begin{array}{c} 3 \\ 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \\ 2 \\ 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{727}{486}$ |
| $x^{15} + 24x^{13} + 12x^{12} + 9x^{11} +$ $24x^{10} + 7x^9 + 24x^8 + 9x^7 +$ $9x^6 + 12x^5 + 4x^3 + 18x^2 +$ $15x + 16$ | $x^{15} - 15x^{12} - 75x^9 + 500x^6 + 625x^3 -$ 3125 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \begin{array}{c} 3 \\ 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \\ 2 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \\ 2 \\ 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{727}{486}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|-------------------|
| $x^{15} + 18x^{14} + 18x^{13} + 21x^{11} +$ $21x^{10} + 16x^9 + 6x^8 + 12x^7 +$ $21x^6 + 18x^5 + 3x^4 + 13x^3 +$ $18x^2 + 24x + 16$ | $x^{15} - 35x^{12} + 325x^9 - 625x^6 - 1250x^3 +$ 3125 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \begin{array}{c} 3 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \left]_2^5$ | I: 486,260 | $\frac{727}{486}$ |
| $x^{15} + 12x^{14} + 9x^{13} + 18x^{12} +$ $18x^{11} + 3x^{10} + 7x^9 + 6x^8 +$ $9x^7 + 12x^6 + 12x^5 + 9x^4 +$ $19x^3 + 9x^2 + 15x + 1$ | $x^{15} - 25x^{12} - 300x^9 + 125x^6 + 3125x^3 -$ 3125 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \begin{array}{c} 3 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \left]_2^5$ | I: 486,260 | $\frac{727}{486}$ |
| $x^{15} + 18x^{14} + 3x^{12} + 9x^{10} +$ $16x^9 + 21x^8 + 18x^7 + 24x^6 +$ $12x^5 + 6x^4 + 7x^3 + 3x^2 + 3x +$ 13 | $x^{15} - 50x^{12} - 375x^9 - 375x^6 + 1875x^3 +$ 3125 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \begin{array}{c} 3 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \left]_2^5$ | I: 486,260 | $\frac{727}{486}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-------------------|
| $x^{15} + 15x^{14} + 24x^{13} + 6x^{12} +$ $21x^{11} + 3x^{10} + x^9 + 3x^8 +$ $15x^7 + 9x^6 + 18x^5 + 25x^3 +$ $21x^2 + 9x + 4$ | $x^{15} - 3x^{14} + 18x^{13} - 13x^{12} + 378x^{11} -$ $678x^{10} + 2363x^9 + 966x^8 + 9105x^7 -$ $9552x^6 + 5115x^5 + 291x^4 - 768x^3 +$ $63x^2 + 18x - 1$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^5$ | I: 6,1 | $\frac{7}{6}$ |
| $x^{15} + 9x^{14} + 18x^{13} + 21x^{12} +$ $9x^{11} + 12x^{10} + 19x^9 + 3x^7 +$ $12x^6 + 6x^4 + 19x^3 + 12x^2 +$ $3x + 4$ | $x^{15} - 2x^{12} - 5x^9 + 2x^6 + 4x^3 + 1$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^5 \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^5$ | I: 162,54 | $\frac{241}{162}$ |
| $x^{15} + 66x^{14} + 45x^{13} + 64x^{12} +$ $51x^{11} + 30x^{10} + 77x^9 + 6x^8 +$ $39x^7 + 77x^6 + 60x^5 + 63x^4 +$ $33x^3 + 66x^2 + 48x + 58$ | $x^{15} - 120x^{13} - 165x^{12} + 4275x^{11} +$ $9660x^{10} - 54710x^9 - 173880x^8 +$ $185745x^7 + 1050245x^6 + 393372x^5 -$ $1915410x^4 - 1916880x^3 + 108045x^2 +$ $493920x + 105301$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \right]_1^5 \left[\begin{array}{c} 2 \\ 2 \end{array} \right]_1^5$ | I: 243,67 | $\frac{484}{243}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{15} + 72x^{14} + 51x^{13} + 40x^{12} +$ $24x^{11} + 57x^{10} + 41x^9 + 9x^8 +$ $36x^7 + 2x^6 + 27x^5 + 51x^4 +$ $3x^3 + 48x^2 + 75x + 55$ | $x^{15} - 6x^{13} - 28x^{12} - 144x^{11} - 156x^{10} -$ $167x^9 - 36x^8 + 1806x^7 - 14x^6 +$ $801x^5 + 1224x^4 - 13460x^3 + 10944x^2 +$ $1248x - 2144$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & & 2 \\ & & & & & 2 \\ & & & & & & 2 \end{array} \right]_1^{10}$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 45x^{14} + 63x^{13} + 4x^{12} +$ $75x^{11} + 38x^9 + 42x^8 + 42x^7 +$ $23x^6 + 3x^5 + 54x^4 + 78x^3 +$ $75x^2 + 36x + 22$ | $x^{15} + 21x^{13} - 4x^{12} - 81x^{11} - 54x^{10} -$ $479x^9 + 432x^8 + 972x^7 + 1076x^6 -$ $2331x^5 - 4290x^4 + 4964x^3 + 7632x^2 -$ $1104x + 32$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & & 2 \\ & & & & & 2 \\ & & & & & & 2 \end{array} \right]_1^{10}$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 54x^{14} + 18x^{13} + 31x^{12} +$ $12x^{11} + 30x^{10} + 17x^9 + 42x^8 +$ $72x^7 + 17x^6 + 15x^5 + 3x^4 +$ $39x^3 + 60x^2 + 6x + 49$ | $x^{15} - 3x^{14} - 27x^{13} + 196x^{12} - 528x^{11} -$ $1095x^{10} + 12007x^9 - 42300x^8 +$ $97224x^7 - 165178x^6 + 202299x^5 -$ $168954x^4 + 93577x^3 - 34440x^2 +$ $8277x - 1033$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & & 2 \\ & & & & & 2 \\ & & & & & & 2 \end{array} \right]_1^{10}$ | I: 81,15 | $\frac{160}{81}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} + 60x^{13} + 7x^{12} + 69x^{11} + 8x^9 + 66x^8 + 75x^7 + 47x^6 + 33x^5 + 15x^4 + 12x^3 + 27x^2 + 21x + 28$ | $x^{15} - 4x^{12} - 99x^{11} - 198x^{10} - 493x^9 - 792x^8 + 891x^7 + 1226x^6 + 693x^5 + 3036x^4 - 5612x^3 - 5544x^2 + 6864x + 32$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & 2 \\ & & & 2 \end{array} \right]_1^{10}$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 9x^{14} + 57x^{13} + 31x^{12} + 18x^{11} + 36x^{10} + 38x^9 + 69x^8 + 57x^7 + 35x^6 + 36x^5 + 18x^4 + 18x^3 + 42x^2 + 63x + 31$ | $x^{15} - 180x^{13} - 65x^{12} + 11970x^{11} + 3675x^{10} - 391720x^9 - 4410x^8 + 6840645x^7 - 2942940x^6 - 61329429x^5 + 58874235x^4 + 217792995x^3 - 343583100x^2 + 68824665x + 1803151$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & 2 \\ & & & 2 \end{array} \right]_1^{15}$ | I: 81,15 | $\frac{160}{81}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} + 42x^{14} + 54x^{13} + 46x^{12} +$ $42x^{11} + 48x^{10} + 17x^9 + 66x^8 +$ $57x^7 + 2x^6 + 21x^5 + 57x^4 +$ $63x^3 + 6x^2 + 42x + 13$ | $x^{15} - 75x^{13} - 10x^{12} + 1665x^{11} -$ $465x^{10} - 15795x^9 + 11340x^8 +$ $67410x^7 - 76615x^6 - 105399x^5 +$ $175665x^4 - 4900x^3 - 77175x^2 +$ $25725x - 1715$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \end{array} \right]_1^5$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 48x^{14} + 45x^{13} + 79x^{12} +$ $39x^{11} + 78x^{10} + 26x^9 + 63x^8 +$ $24x^7 + 17x^6 + 15x^5 + 78x^4 +$ $15x^3 + 66x^2 + 27x + 52$ | $x^{15} - 3x^{14} - 45x^{13} + 308x^{12} - 138x^{11} -$ $5727x^{10} + 26545x^9 - 36816x^8 -$ $118632x^7 + 735536x^6 - 1923423x^5 +$ $3135012x^4 - 3405457x^3 +$ $2441040x^2 - 1054827x + 206933$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \end{array} \right]_1^{10}$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 12x^{13} + 73x^{12} + 36x^{11} +$ $12x^{10} + 50x^9 + 75x^8 + 18x^7 +$ $59x^6 + 75x^5 + 63x^4 + 27x^3 +$ $27x^2 + 72x + 37$ | $x^{15} - 9x^{13} - 40x^{12} - 27x^{11} -$ $42x^{10} + 44x^9 + 252x^8 - 207x^7 +$ $1468x^6 - 2259x^5 + 2142x^4 + 11508x^3 -$ $16272x^2 + 5904x + 8416$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \end{array} \right]_1^{10}$ | I: 243,67 | $\frac{484}{243}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-------------------|
| $x^{15} + 6x^{14} + 51x^{13} + 10x^{12} + 33x^{11} + 63x^{10} + 38x^9 + 18x^7 + 53x^6 + 54x^5 + 51x^4 + 39x^3 + 51x^2 + 51x + 34$ | $x^{15} - 12x^{13} - 16x^{12} + 18x^{11} + 48x^{10} + 123x^9 + 342x^8 + 294x^7 + 138x^6 + 405x^5 + 1002x^4 + 1636x^3 - 216x^2 - 2784x - 1376$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & & & 10 \\ & & & 2 \\ & & & 2 \\ & & & 2 \\ & & & 1 \end{bmatrix}$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{15} + 54x^{14} + 33x^{13} + 64x^{12} + 63x^{11} + 36x^{10} + 35x^9 + 51x^8 + 42x^7 + 32x^6 + 18x^5 + 45x^4 + 78x^3 + 21x^2 + 60x + 64$ | $x^{15} + 21x^{13} - 48x^{12} + 117x^{11} - 516x^{10} + 599x^9 - 1350x^8 + 2886x^7 - 2290x^6 + 5193x^5 - 5082x^4 + 3468x^3 - 6624x^2 + 1008x + 2144$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & & & 10 \\ & & & 2 \\ & & & 2 \\ & & & 2 \\ & & & 1 \end{bmatrix}$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 51x^{14} + 9x^{13} + 40x^{12} + 6x^{11} + 39x^{10} + 23x^9 + 42x^8 + 36x^7 + 38x^6 + 66x^5 + 78x^4 + 48x^3 + 15x^2 + 48x + 16$ | $x^{15} - 150x^{13} - 390x^{12} + 4620x^{11} + 10737x^{10} - 69235x^9 - 97125x^8 + 570075x^7 + 228475x^6 - 2336340x^5 + 729450x^4 + 3860375x^3 - 2926125x^2 - 1029750x + 1030025$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & & & 5 \\ & & & 2 \\ & & & 2 \\ & & & 2 \\ & & & 1 \end{bmatrix}$ | I: 81,15 | $\frac{160}{81}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-------------------|
| $x^{15} + 69x^{14} + 18x^{13} + 49x^{12} + 21x^{11} + 3x^{10} + 38x^9 + 24x^8 + 21x^7 + 65x^6 + 72x^5 + 60x^4 + 45x^3 + 57x^2 + 78x + 7$ | $x^{15} + 6x^{13} - 8x^{12} - 45x^{11} - 78x^{10} - 222x^9 - 576x^8 - 1020x^7 + 1458x^6 - 1539x^5 - 7194x^4 + 9728x^3 + 4968x^2 - 11760x + 4192$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 10 \\ & & & 1 \end{array} \right]_1$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{15} + 72x^{14} + 30x^{13} + 46x^{12} + 12x^{11} + 36x^{10} + 38x^9 + 63x^8 + 24x^7 + 56x^6 + 39x^5 + 48x^4 + 21x^3 + 36x^2 + 48x + 67$ | $x^{15} + 6x^{13} - 12x^{12} - 45x^{11} + 48x^{10} - 443x^9 + 1512x^8 - 2139x^7 + 5408x^6 - 9495x^5 + 6054x^4 - 2424x^3 - 360x^2 + 2736x + 736$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 10 \\ & & & 1 \end{array} \right]_1$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 6x^{14} + 78x^{13} + 19x^{12} + 66x^{11} + 63x^{10} + 20x^9 + 75x^8 + 29x^6 + 6x^5 + 54x^4 + 78x^3 + 48x^2 + 6x + 34$ | $x^{15} - 285x^{13} - 465x^{12} + 21960x^{11} + 61407x^{10} - 355400x^9 - 1063635x^8 + 2254215x^7 + 7168180x^6 - 5413233x^5 - 21448020x^4 + 158460x^3 + 23906040x^2 + 11209200x - 430432$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 5 \\ & & & 1 \end{array} \right]_1$ | I: 243,67 | $\frac{484}{243}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} + 39x^{14} + 3x^{13} + 43x^{12} +$ $21x^{11} + 60x^{10} + 26x^9 + 66x^8 +$ $24x^7 + 38x^6 + 6x^5 + 54x^3 +$ $45x^2 + 66x + 61$ | $x^{15} - 165x^{13} - 330x^{12} + 5115x^{11} +$ $12798x^{10} - 37075x^9 - 78735x^8 +$ $97260x^7 + 145120x^6 - 82260x^5 -$ $88800x^4 + 7570x^3 + 9570x^2 + 825x - 1$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \end{array} \right]_1^5$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 54x^{14} + 42x^{13} + 55x^{12} +$ $66x^{11} + 72x^{10} + 20x^9 + 27x^8 +$ $54x^7 + 5x^6 + 75x^5 + 57x^4 +$ $69x^3 + 60x^2 + 63x + 52$ | $x^{15} - 33x^{13} - 82x^{12} + 297x^{11} +$ $1650x^{10} + 2188x^9 - 4158x^8 -$ $24321x^7 - 57078x^6 - 65835x^5 -$ $4158x^4 + 78028x^3 + 52272x^2 +$ $10032x - 8416$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \end{array} \right]_1^{10}$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 24x^{14} + 30x^{13} + 25x^{12} +$ $72x^{11} + 24x^{10} + 35x^9 + 36x^7 +$ $32x^6 + 27x^5 + 48x^4 + 9x^3 +$ $54x^2 + 72x + 19$ | $x^{15} - 15x^{13} - 34x^{12} - 9x^{11} +$ $12x^{10} + 661x^9 + 3708x^8 + 6810x^7 +$ $1882x^6 - 5499x^5 - 5346x^4 - 10988x^3 -$ $23832x^2 - 22944x - 8416$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \end{array} \right]_1^{10}$ | I: 81,15 | $\frac{160}{81}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} + 48x^{14} + 24x^{13} + 46x^{12} +$ $78x^{11} + 57x^{10} + 80x^9 + 36x^8 +$ $60x^7 + 2x^6 + 15x^5 + 3x^4 +$ $9x^3 + 15x^2 + 12x + 52$ | $x^{15} - 150x^{13} - 400x^{12} + 5775x^{11} +$ $32133x^{10} + 17100x^9 - 223905x^8 -$ $498045x^7 + 49710x^6 + 1255260x^5 +$ $1216665x^4 - 347735x^3 - 1221780x^2 -$ $716235x - 136451$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 1 \end{array} \right]^{15}$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{15} + 6x^{14} + 42x^{13} + 34x^{12} +$ $42x^{11} + 3x^{10} + 44x^9 + 57x^7 +$ $59x^6 + 3x^5 + 18x^4 + 6x^3 +$ $9x^2 + 39x + 64$ | $x^{15} - 45x^{13} - 25x^{12} + 720x^{11} +$ $660x^{10} - 5080x^9 - 5985x^8 + 16050x^7 +$ $23925x^6 - 18387x^5 - 41115x^4 -$ $3850x^3 + 23625x^2 + 14070x + 2401$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 1 \end{array} \right]^5$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 63x^{14} + 48x^{13} + 76x^{12} +$ $33x^{11} + 45x^{10} + 68x^9 + 36x^8 +$ $12x^7 + 20x^6 + 24x^5 + 39x^4 +$ $15x^3 + 3x^2 + 63x + 64$ | $x^{15} - 120x^{13} - 20x^{12} + 4725x^{11} -$ $780x^{10} - 76005x^9 + 63000x^8 +$ $508725x^7 - 742770x^6 - 1024443x^5 +$ $2163840x^4 + 179340x^3 - 1852200x^2 +$ $740880x + 10976$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 1 \end{array} \right]^5$ | I: 243,67 | $\frac{484}{243}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{15} + 36x^{14} + 48x^{13} + 31x^{12} + 3x^{11} + 18x^{10} + 77x^9 + 42x^8 + 54x^7 + 2x^6 + 57x^5 + 63x^4 + 39x^3 + 9x^2 + 78x + 58$ | $x^{15} - 12x^{13} - 14x^{12} + 18x^{11} + 42x^{10} + 99x^9 + 522x^8 + 1338x^7 - 246x^6 - 6615x^5 - 7446x^4 + 5752x^3 + 11016x^2 - 2352x - 6304$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{bmatrix}^{10}_1$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 75x^{13} + 37x^{12} + 66x^{11} + 78x^{10} + 47x^9 + 63x^8 + 12x^7 + 56x^6 + 45x^5 + 18x^4 + 36x^3 + 78x^2 + 15x + 31$ | $x^{15} + 3x^{13} - 22x^{12} - 333x^{11} + 1122x^{10} + 1756x^9 - 10296x^8 + 5523x^7 + 25894x^6 - 36783x^5 - 5742x^4 + 20944x^3 + 34056x^2 - 59664x + 23584$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{bmatrix}^{10}_1$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 54x^{14} + 18x^{13} + 52x^{12} + 72x^{11} + 48x^{10} + 32x^9 + 59x^6 + 12x^5 + 42x^4 + 18x^3 + 75x^2 + 60x + 19$ | $x^{15} - 60x^{13} - 40x^{12} + 1350x^{11} + 1530x^{10} - 14000x^9 - 19170x^8 + 70920x^7 + 97250x^6 - 181314x^5 - 187530x^4 + 267890x^3 + 101430x^2 - 190365x + 51401$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & 2 & 2 & 2 \\ & & 2 & 2 \\ & & & 2 \end{bmatrix}^5_1$ | I: 243,67 | $\frac{484}{243}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{15} + 36x^{14} + 18x^{13} + 61x^{12} + 21x^{11} + 36x^{10} + 65x^9 + 42x^8 + 42x^7 + 74x^6 + 66x^5 + 9x^4 + 75x^3 + 39x^2 + 54x + 70$ | $x^{15} - 12x^{12} - 99x^{11} + 264x^{10} - 180x^9 + 1188x^8 - 858x^7 - 10392x^6 + 28017x^5 - 48906x^4 + 99608x^3 - 147312x^2 + 110352x - 31648$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & & 2 \\ & & & & & 2 \\ & & & & & & 2 \end{array} \right]_1^{10}$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 75x^{14} + 78x^{13} + 67x^{12} + 24x^{11} + 78x^{10} + 2x^9 + 21x^8 + 69x^7 + 5x^6 + 45x^5 + 36x^4 + 21x^3 + 36x^2 + 69x + 31$ | $x^{15} + 21x^{13} - 58x^{12} - 81x^{11} + 504x^{10} - 1595x^9 + 324x^8 + 6552x^7 - 9244x^6 - 7407x^5 + 25752x^4 + 6764x^3 - 11160x^2 + 18768x + 16928$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & & 2 \\ & & & & & 2 \\ & & & & & & 2 \end{array} \right]_1^{10}$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{15} + 6x^{14} + 33x^{13} + 31x^{12} + 69x^{11} + 45x^{10} + 68x^9 + 36x^8 + 72x^7 + 65x^6 + 63x^5 + 60x^4 + 18x^3 + 78x^2 + 69x + 37$ | $x^{15} - 285x^{13} - 725x^{12} + 15720x^{11} + 48447x^{10} - 265455x^9 - 972675x^8 + 1214010x^7 + 6597855x^6 + 2444202x^5 - 7535655x^4 - 1589855x^3 + 3395700x^2 - 999735x + 88157$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & & 2 \\ & & & & & 2 \\ & & & & & & 2 \end{array} \right]_1^5$ | I: 243,67 | $\frac{484}{243}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} - 225x^{13} - 890x^{12} + 11595x^{11} +$ $x^{15} + 33x^{14} + 72x^{13} + 10x^{12} +$ $69x^{11} + 54x^{10} + 20x^9 + 6x^8 +$ $42x^7 + 53x^6 + 27x^5 + 75x^4 +$ $51x^3 + 75x^2 + 69x + 25$ | $69078x^{10} - 133660x^9 - 1493505x^8 -$ $1550595x^7 + 8163435x^6 +$ $22813722x^5 + 17586225x^4 -$ $3778575x^3 - 10132590x^2 -$ $3455010x - 148307$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & 2 \\ & & & 2 \end{array} \right]_1^5$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 66x^{14} + 6x^{13} + 52x^{12} +$ $21x^{11} + 45x^{10} + 20x^9 + 48x^8 +$ $57x^7 + 35x^6 + 72x^5 + 66x^4 +$ $48x^3 + 36x^2 + 15x + 55$ | $x^{15} + 15x^{13} - 22x^{12} - 9x^{11} - 330x^{10} -$ $621x^9 + 1494x^7 + 9284x^6 + 21825x^5 +$ $4026x^4 - 62524x^3 - 95832x^2 -$ $46464x - 3872$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & 2 \\ & & & 2 \end{array} \right]_1^{10}$ | I: 243,67 | $\frac{484}{243}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{15} + 18x^{14} + 3x^{13} + 10x^{12} +$ $33x^{11} + 12x^{10} + 47x^9 + 48x^8 +$ $30x^7 + 11x^6 + 45x^5 + 45x^4 +$ $66x^3 + 78x^2 + 21x + 13$ | $x^{15} - 105x^{13} - 130x^{12} + 2970x^{11} +$ $5205x^{10} - 26825x^9 - 61830x^8 +$ $68865x^7 + 248430x^6 + 42651x^5 -$ $320355x^4 - 256025x^3 + 51450x +$ 12005 | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \end{array} \right]_1^5$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{15} + 30x^{14} + 76x^{12} + 21x^{11} +$ $78x^{10} + 17x^9 + 9x^8 + 33x^7 +$ $74x^6 + 24x^5 + 6x^4 + 12x^3 +$ $48x^2 + 40$ | $x^{15} - 345x^{13} - 1520x^{12} + 36030x^{11} +$ $286947x^{10} - 866410x^9 - 15325440x^8 -$ $37190520x^7 + 141654970x^6 +$ $876361704x^5 + 1489131915x^4 +$ $484176430x^3 - 866266380x^2 -$ $651655590x - 106124243$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \end{array} \right]_1^5$ | I: 243,67 | $\frac{484}{243}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-------------------|
| $x^{15} + 75x^{14} + 66x^{13} + 25x^{12} +$ $15x^{11} + 15x^{10} + 32x^9 + 51x^8 +$ $54x^7 + 47x^6 + 45x^5 + 57x^4 +$ $3x^3 + 48x^2 + 51x + 19$ | $x^{15} - 3x^{14} - 48x^{13} + 89x^{12} + 285x^{11} +$ $27x^{10} + 1707x^9 + 2955x^8 + 3942x^7 +$ $2571x^6 + 900x^5 - 360x^4 - 1332x^3 -$ $69x^2 + 171x + 43$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & & 2 \\ & & & & & 2 \\ & & & & & & 2 \end{array} \right]_1^{10}$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 15x^{14} + 78x^{13} + 49x^{12} +$ $69x^{11} + 66x^{10} + 80x^9 + 54x^8 +$ $48x^7 + 50x^6 + 66x^5 + 54x^4 +$ $42x^3 + 36x^2 + 30x + 34$ | $x^{15} - 135x^{13} - 300x^{12} + 5025x^{11} +$ $19773x^{10} - 34345x^9 - 222000x^8 -$ $8010x^7 + 840160x^6 + 355275x^5 -$ $1237590x^4 - 530195x^3 + 528705x^2 +$ $275580x + 16799$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & & 2 \\ & & & & & 2 \\ & & & & & & 2 \end{array} \right]_1^{15}$ | I: 81,15 | $\frac{160}{81}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{15} - 135x^{13} - 5x^{12} + 7215x^{11} - 1548x^{10} - 202980x^9 + 119445x^8 + 3251175x^7 - 3258285x^6 - 29071713x^5 + 40942365x^4 + 126641320x^3 - 225680715x^2 - 167129490x + 354676793$ | $x^{15} - 135x^{13} - 5x^{12} + 7215x^{11} - 1548x^{10} - 202980x^9 + 119445x^8 + 3251175x^7 - 3258285x^6 - 29071713x^5 + 40942365x^4 + 126641320x^3 - 225680715x^2 - 167129490x + 354676793$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \end{array} \right]_1^5$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 33x^{14} + 3x^{13} + 46x^{12} + 27x^{11} + 20x^9 + 51x^8 + 78x^7 + 17x^6 + 48x^5 + 3x^4 + 30x^3 + 21x^2 + 54x + 7$ | $x^{15} + 18x^{13} - 2x^{12} + 90x^{11} - 42x^{10} + 11x^9 - 306x^8 - 606x^7 - 948x^6 - 279x^5 + 222x^4 + 480x^3 + 216x^2 - 144x - 32$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \end{array} \right]_1^{10}$ | I: 81,15 | $\frac{160}{81}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} - 285x^{13} - 960x^{12} + 17565x^{11} +$ $x^{15} + 30x^{14} + 12x^{13} + 34x^{12} +$ $27x^{11} + 69x^{10} + 53x^9 + 24x^8 +$ $60x^7 + 62x^6 + 3x^5 + 12x^4 +$ $57x^3 + 60x^2 + 12x + 25$ | $46602x^{10} - 494735x^9 - 390240x^8 +$ $6538245x^7 - 6468000x^6 -$ $19465578x^5 + 29074095x^4 +$ $17944615x^3 - 31992525x^2 -$ $6733200x + 8393057$ | $\left[\begin{array}{ccccc} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{array} \right]_1^5$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 66x^{14} + 12x^{13} + 4x^{12} +$ $54x^{11} + 18x^{10} + 5x^9 + 51x^8 +$ $63x^7 + 20x^6 + 78x^5 + 78x^4 +$ $69x^3 + 72x + 40$ | $x^{15} - 105x^{13} - 320x^{12} + 1215x^{11} +$ $5352x^{10} + 2440x^9 - 14175x^8 -$ $25470x^7 - 16075x^6 - 2106x^5 +$ $1770x^4 + 590x^3 - 15x - 1$ | $\left[\begin{array}{ccccc} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{array} \right]_1^5$ | I: 243,67 | $\frac{484}{243}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} + 33x^{13} + 64x^{12} + 30x^{11} +$ $66x^{10} + 62x^9 + 30x^8 + 27x^7 +$ $47x^6 + 6x^5 + 27x^4 + 39x^3 +$ $9x^2 + 75x + 22$ | $x^{15} - 60x^{13} - 20x^{12} + 1350x^{11} +$ $810x^{10} - 13970x^9 - 10800x^8 +$ $66285x^7 + 56350x^6 - 132174x^5 -$ $130620x^4 + 75950x^3 + 110250x^2 +$ $32340x + 2401$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{bmatrix}^5$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 75x^{14} + 3x^{13} + 28x^{12} +$ $24x^{11} + 57x^{10} + 11x^9 + 57x^8 +$ $18x^7 + 44x^6 + 15x^5 + 42x^4 +$ $66x^3 + 3x + 10$ | $x^{15} - 255x^{13} - 110x^{12} + 21585x^{11} +$ $28803x^{10} - 746340x^9 - 1588350x^8 +$ $9267870x^7 + 19471170x^6 -$ $46907169x^5 - 45804585x^4 +$ $127400660x^3 - 86216685x^2 +$ $24154455x - 2462393$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & & & & 1 \end{bmatrix}^{15}$ | I: 81,15 | $\frac{160}{81}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{15} + 18x^{14} + 54x^{13} + 10x^{12} +$ $48x^{11} + 36x^{10} + 71x^9 + 18x^8 +$ $21x^7 + 59x^6 + 12x^5 + 12x^4 +$ $27x^3 + 75x^2 + 78x + 49$ | $x^{15} - 150x^{13} - 185x^{12} + 4845x^{11} +$ $8313x^{10} - 50685x^9 - 99225x^8 +$ $162675x^7 + 336550x^6 - 101490x^5 -$ $227625x^4 - 9625x^3 + 42750x^2 +$ $9375x + 125$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \end{array} \right]_1^5$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 63x^{14} + 15x^{13} + 34x^{12} +$ $42x^{11} + 72x^{10} + 11x^9 + 21x^8 +$ $66x^7 + 20x^6 + 42x^5 + 42x^4 +$ $9x^3 + 9x^2 + 12x + 37$ | $x^{15} - 12x^{13} - 36x^{12} - 81x^{11} + 174x^{10} +$ $1474x^9 + 2700x^8 - 114x^7 - 8430x^6 -$ $13743x^5 - 4476x^4 + 11296x^3 +$ $15768x^2 + 5568x - 4192$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \end{array} \right]_1^{10}$ | I: 81,15 | $\frac{160}{81}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{15} + 30x^{14} + 69x^{13} + 61x^{12} +$ $18x^{11} + 27x^{10} + 32x^9 + 39x^8 +$ $33x^7 + 80x^6 + 6x^5 + 30x^4 +$ $6x^3 + 60x^2 + 45x + 16$ | $x^{15} - 450x^{13} - 1175x^{12} +$ $78345x^{11} + 401643x^{10} - 6235725x^9 -$ $50567940x^8 + 171693120x^7 +$ $2749772380x^6 + 4234182975x^5 -$ $49907655390x^4 - 246411401030x^3 -$ $316084243650x^2 + 307986359340x +$ 758212856857 | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & & 2 \\ & & & & & 2 \\ & & & & & & 2 \\ & & & & & & & 2 \\ & & & & & & & & 2 \\ & & & & & & & & & 2 \\ & & & & & & & & & & 2 \\ & & & & & & & & & & & 2 \\ & & & & & & & & & & & & 2 \\ & & & & & & & & & & & & & 2 \\ & & & & & & & & & & & & & & 2 \end{array} \right]_1^{15}$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{15} + 39x^{14} + 78x^{13} + 52x^{12} +$ $3x^{11} + 12x^{10} + 59x^9 + 72x^8 +$ $14x^6 + 75x^5 + 48x^4 + 3x^3 +$ $57x^2 + 51x + 19$ | $x^{15} - 3x^{14} - 45x^{13} - 56x^{12} +$ $366x^{11} + 1575x^{10} + 2361x^9 - 1206x^8 -$ $13230x^7 - 35364x^6 - 69795x^5 -$ $112062x^4 - 134253x^3 - 107478x^2 -$ $50385x - 10363$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & & 2 \\ & & & & & 2 \\ & & & & & & 2 \\ & & & & & & & 2 \\ & & & & & & & & 2 \\ & & & & & & & & & 2 \\ & & & & & & & & & & 2 \\ & & & & & & & & & & & 2 \\ & & & & & & & & & & & & 2 \\ & & & & & & & & & & & & & 2 \\ & & & & & & & & & & & & & & 2 \end{array} \right]_1^{10}$ | I: 243,67 | $\frac{484}{243}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{15} + 48x^{14} + 6x^{13} + 73x^{12} + 12x^{11} + 51x^{10} + 26x^9 + 75x^8 + 36x^7 + 11x^6 + 24x^5 + 45x^4 + 51x^3 + 51x^2 + 36x + 19$ | $x^{15} - 195x^{13} - 125x^{12} + 10395x^{11} + 1680x^{10} - 220640x^9 - 6615x^8 + 2201325x^7 + 321930x^6 - 10412451x^5 - 4383540x^4 + 18335065x^3 + 15234345x^2 + 4141725x + 376957$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & 2 \\ & & & 2 \end{array} \right]^{15}_1$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{15} + 3x^{13} + 46x^{12} + 3x^{11} + 69x^{10} + 71x^9 + 3x^8 + 18x^7 + 29x^6 + 9x^5 + 12x^4 + 45x^3 + 15x^2 + 75x + 34$ | $x^{15} - 195x^{13} - 350x^{12} + 9600x^{11} + 27552x^{10} - 154190x^9 - 588510x^8 + 605100x^7 + 4190980x^6 + 2697657x^5 - 5744535x^4 - 7334890x^3 - 1881630x^2 + 396660x + 106693$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & 2 \\ & & & 2 \end{array} \right]^{5}_1$ | I: 243,67 | $\frac{484}{243}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{15} + 45x^{14} + 54x^{13} + 67x^{12} +$ $30x^{11} + 3x^{10} + 41x^9 + 6x^8 +$ $36x^7 + 23x^6 + 51x^5 + 3x^4 +$ $33x^3 + 51x^2 + 42x + 34$ | $x^{15} - 9x^{13} - 8x^{12} - 27x^{11} - 48x^{10} -$ $16x^9 - 306x^8 - 279x^7 + 284x^6 + 9x^5 +$ $1152x^4 - 720x^3 - 2088x^2 + 2592x - 736$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 1 \end{array} \right]^{10}$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{15} + 39x^{14} + 57x^{13} + 10x^{12} +$ $30x^{11} + 45x^{10} + 68x^9 + 48x^8 +$ $54x^7 + 35x^6 + 45x^5 + 57x^4 +$ $15x^3 + 30x^2 + 54x + 46$ | $x^{15} - 12x^{13} - 16x^{12} - 81x^{11} - 282x^{10} -$ $141x^9 + 342x^8 + 1449x^7 + 4560x^6 +$ $5553x^5 + 3378x^4 + 6432x^3 + 9288x^2 +$ $3024x - 1376$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 1 \end{array} \right]^{10}$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 51x^{14} + 57x^{13} + 55x^{12} +$ $63x^{10} + 38x^9 + 9x^8 + 21x^7 +$ $8x^6 + 21x^5 + 51x^4 + 6x^3 +$ $3x^2 + 15x + 19$ | $x^{15} - 285x^{13} - 1320x^{12} + 22440x^{11} +$ $186102x^{10} - 324185x^9 - 7911810x^8 -$ $22441230x^7 + 65808370x^6 +$ $559116402x^5 + 1443564030x^4 +$ $1737193275x^3 + 856533825x^2 +$ $27380925x - 63079255$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 1 \end{array} \right]^{5}$ | I: 243,67 | $\frac{484}{243}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} + 24x^{14} + 18x^{13} + 55x^{12} +$ $54x^{11} + 30x^{10} + 44x^9 + 39x^8 +$ $63x^7 + 59x^6 + 6x^5 + 3x^4 +$ $51x^3 + 39x + 40$ | $x^{15} - 225x^{13} - 935x^{12} + 14250x^{11} +$ $118062x^{10} - 2100x^9 - 3185730x^8 -$ $13480275x^7 - 11534525x^6 +$ $78031197x^5 + 311733285x^4 +$ $548755775x^3 + 531434775x^2 +$ $273546225x + 58179215$ | $\left[\begin{array}{ccccc} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{array} \right]^5$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{15} + 30x^{14} + 30x^{13} + 46x^{12} +$ $33x^{11} + 78x^{10} + 80x^9 + 60x^7 +$ $29x^6 + 63x^5 + 51x^4 + 12x^3 +$ $12x^2 + 57x + 25$ | $x^{15} - 135x^{13} - 195x^{12} + 3645x^{11} +$ $4437x^{10} - 42570x^9 - 27615x^8 +$ $257085x^7 - 11855x^6 - 774465x^5 +$ $572790x^4 + 755020x^3 - 1274565x^2 +$ $656130x - 117751$ | $\left[\begin{array}{ccccc} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{array} \right]^5$ | I: 243,67 | $\frac{484}{243}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} + 18x^{14} + 66x^{13} + 25x^{12} +$ $21x^{11} + 60x^{10} + 2x^9 + 45x^8 +$ $39x^7 + 53x^6 + 54x^5 + 45x^4 +$ $9x^3 + 6x^2 + 78x + 31$ | $x^{15} - 300x^{13} - 625x^{12} + 26775x^{11} +$ $106050x^{10} - 921900x^9 - 5898375x^8 +$ $6247500x^7 + 122818500x^6 +$ $254445975x^5 - 497135625x^4 -$ $3095146250x^3 - 5712879375x^2 -$ $4866526875x - 1622775875$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & & & & 2 \\ & & & & 2 \\ & & & & 2 \\ & & & & 2 \\ & & & & 2 \end{bmatrix}_1^5$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 12x^{14} + 7x^{12} + 60x^{11} +$ $51x^{10} + 62x^9 + 21x^8 + 9x^7 +$ $80x^6 + 9x^5 + 54x^4 + 36x^3 +$ $69x^2 + 66x + 70$ | $x^{15} - 150x^{13} - 555x^{12} + 3285x^{11} +$ $16497x^{10} - 15380x^9 - 154470x^8 -$ $92010x^7 + 497275x^6 + 729165x^5 -$ $177135x^4 - 850180x^3 - 410460x^2 +$ $13065x + 15251$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & & & & 2 \\ & & & & 2 \\ & & & & 2 \\ & & & & 2 \\ & & & & 2 \end{bmatrix}_1^5$ | I: 243,67 | $\frac{484}{243}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} + 69x^{14} + 27x^{13} + 25x^{12} +$ $78x^{11} + 36x^{10} + 71x^9 + 33x^8 +$ $60x^7 + 2x^6 + 45x^5 + 57x^4 +$ $21x^3 + 39x^2 + 51x + 64$ | $x^{15} - 105x^{13} - 5x^{12} + 4410x^{11} +$ $420x^{10} - 95165x^9 - 13230x^8 +$ $1133370x^7 + 203840x^6 - 7464366x^5 -$ $1754445x^4 + 25299680x^3 +$ $8211420x^2 - 34394325x - 15589693$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & & 2 \\ & & & & & 2 \\ & & & & & & 2 \\ & & & & & & & 2 \\ & & & & & & & & 2 \\ & & & & & & & & & 2 \\ & & & & & & & & & & 2 \\ & & & & & & & & & & & 2 \\ & & & & & & & & & & & & 2 \\ & & & & & & & & & & & & & 2 \\ & & & & & & & & & & & & & & 2 \end{bmatrix}_1^{15}$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{15} + 66x^{14} + 24x^{13} + 52x^{12} +$ $51x^{11} + 36x^{10} + 50x^9 + 9x^8 +$ $21x^7 + 71x^6 + 30x^5 + 45x^4 +$ $72x^3 + 12x^2 + 51x + 4$ | $x^{15} - 45x^{13} - 10x^{12} + 720x^{11} + 300x^{10} -$ $4990x^9 - 2610x^8 + 14430x^7 + 6960x^6 -$ $15687x^5 - 6915x^4 + 4640x^3 + 1890x^2 +$ $210x + 7$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & & 2 \\ & & & & & 2 \\ & & & & & & 2 \\ & & & & & & & 2 \\ & & & & & & & & 2 \\ & & & & & & & & & 2 \\ & & & & & & & & & & 2 \\ & & & & & & & & & & & 2 \\ & & & & & & & & & & & & 2 \\ & & & & & & & & & & & & & 2 \\ & & & & & & & & & & & & & & 2 \end{bmatrix}_1^5$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 60x^{14} + 4x^{12} + 51x^{11} +$ $36x^{10} + 47x^9 + 66x^8 + 72x^7 +$ $14x^6 + 72x^5 + 63x^4 + 21x^3 +$ $66x^2 + 64$ | $x^{15} - 165x^{13} - 65x^{12} + 6960x^{11} +$ $5682x^{10} - 96625x^9 - 47370x^8 +$ $501345x^7 - 52885x^6 - 535668x^5 -$ $56145x^4 + 109395x^3 + 33405x^2 +$ $2385x - 43$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & & 2 \\ & & & & & 2 \\ & & & & & & 2 \\ & & & & & & & 2 \\ & & & & & & & & 2 \\ & & & & & & & & & 2 \\ & & & & & & & & & & 2 \\ & & & & & & & & & & & 2 \\ & & & & & & & & & & & & 2 \\ & & & & & & & & & & & & & 2 \\ & & & & & & & & & & & & & & 2 \end{bmatrix}_1^5$ | I: 243,67 | $\frac{484}{243}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{15} + 15x^{14} + 72x^{13} + 43x^{12} +$ $54x^{11} + 12x^{10} + 50x^9 + 27x^8 +$ $66x^7 + 35x^6 + 51x^5 + 72x^4 +$ $39x^3 + 63x^2 + 15x + 25$ | $x^{15} - 105x^{13} - 25x^{12} + 4410x^{11} +$ $2100x^{10} - 93800x^9 - 66150x^8 +$ $1047375x^7 + 944965x^6 - 5658471x^5 -$ $5654355x^4 + 11413325x^3 +$ $8319465x^2 - 8247435x - 1423793$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & & 2 \\ & & & & & 2 \\ & & & & & & 2 \end{array} \right]_1^5$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 63x^{14} + 33x^{13} + 37x^{12} +$ $51x^{11} + 48x^{10} + 26x^9 + 42x^8 +$ $12x^7 + 59x^6 + 18x^5 + 12x^4 +$ $18x^3 + 3x^2 + 42x + 70$ | $x^{15} - 120x^{13} - 50x^{12} + 5220x^{11} +$ $3720x^{10} - 105660x^9 - 85995x^8 +$ $1085700x^7 + 842380x^6 - 5797827x^5 -$ $4038090x^4 + 15296820x^3 +$ $9338175x^2 - 15712830x - 8215193$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & & 2 \\ & & & & & 2 \\ & & & & & & 2 \end{array} \right]_1^{15}$ | I: 81,15 | $\frac{160}{81}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} + 6x^{14} + 51x^{13} + 64x^{12} +$ $33x^{11} + 42x^{10} + 77x^9 + 21x^8 +$ $75x^7 + 26x^6 + 60x^5 + 69x^4 +$ $15x^3 + 30x^2 + 60x + 61$ | $x^{15} - 105x^{13} - 35x^{12} + 4410x^{11} +$ $2940x^{10} - 94235x^9 - 92610x^8 +$ $1074780x^7 + 1353590x^6 -$ $6233976x^5 - 9202935x^4 +$ $15577100x^3 + 25159050x^2 -$ $11087475x - 18952465$ | $\left[\begin{array}{ccccc} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{array} \right]^5$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 18x^{14} + 36x^{13} + 43x^{12} +$ $54x^{11} + 66x^{10} + 17x^9 + 75x^8 +$ $69x^7 + 65x^6 + 48x^5 + 51x^3 +$ $75x^2 + 30x + 52$ | $x^{15} - 150x^{13} - 85x^{12} + 7620x^{11} +$ $12288x^{10} - 166960x^9 - 483300x^8 +$ $1318800x^7 + 6914075x^6 +$ $3407160x^5 - 28156950x^4 -$ $62918000x^3 - 49911750x^2 -$ $9032625x + 4499975$ | $\left[\begin{array}{ccccc} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{array} \right]^5$ | I: 243,67 | $\frac{484}{243}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} + 42x^{14} + 6x^{13} + 4x^{12} +$ $75x^{11} + 21x^{10} + 5x^9 + 75x^8 +$ $30x^7 + 80x^6 + 27x^5 + 75x^4 +$ $54x^3 + 6x^2 + 66x + 10$ | $x^{15} - 225x^{13} - 355x^{12} + 15465x^{11} +$ $49548x^{10} - 277665x^9 - 1713240x^8 -$ $3107310x^7 - 1611760x^6 +$ $1193367x^5 + 1504125x^4 + 418595x^3 -$ $22290x^2 - 15750x + 343$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{bmatrix}_1^5$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 57x^{14} + 9x^{13} + 22x^{12} +$ $51x^{11} + 75x^{10} + 53x^9 + 78x^8 +$ $21x^7 + 80x^6 + 33x^5 + 27x^4 +$ $36x^3 + 57x^2 + 12x + 40$ | $x^{15} - 345x^{13} - 2325x^{12} + 16395x^{11} +$ $188457x^{10} + 214635x^9 - 2507670x^8 -$ $6246075x^7 + 10829415x^6 +$ $40224906x^5 - 11351685x^4 -$ $98865505x^3 - 20317185x^2 +$ $82270995x + 30215093$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{bmatrix}_1^5$ | I: 243,67 | $\frac{484}{243}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{15} + 69x^{14} + 48x^{13} + 46x^{12} +$ $18x^{11} + 60x^{10} + 53x^9 + 54x^8 +$ $65x^6 + 18x^5 + 57x^4 + 75x^3 +$ $54x^2 + 27x + 19$ | $x^{15} - 105x^{13} - 20x^{12} + 4410x^{11} +$ $1680x^{10} - 93485x^9 - 52920x^8 +$ $1027530x^7 + 761705x^6 - 5241726x^5 -$ $4764270x^4 + 8094800x^3 +$ $9183825x^2 + 180075x - 1212505$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & & 2 \\ & & & & & 2 \\ & & & & & & 2 \end{array} \right]_1^5$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 60x^{14} + 45x^{13} + 37x^{12} +$ $12x^{11} + 60x^{10} + 32x^9 + 51x^8 +$ $6x^7 + 2x^6 + 21x^5 + 18x^4 +$ $21x^3 + 51x^2 + 21x + 55$ | $x^{15} - 105x^{13} - 70x^{12} + 4410x^{11} +$ $5880x^{10} - 91415x^9 - 185220x^8 +$ $897120x^7 + 2604385x^6 - 2503116x^5 -$ $14088480x^4 - 11450320x^3 +$ $4985505x^2 + 8051925x + 1440943$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & & 2 \\ & & & & & 2 \\ & & & & & & 2 \end{array} \right]_1^{15}$ | I: 81,15 | $\frac{160}{81}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} + 33x^{14} + 18x^{13} + 73x^{12} +$ $12x^{11} + 6x^{10} + 5x^9 + 57x^8 +$ $18x^7 + 77x^6 + 12x^5 + 15x^4 +$ $39x^3 + 33x^2 + 69x + 37$ | $x^{15} - 135x^{13} - 450x^{12} + 4095x^{11} +$ $29538x^{10} + 48240x^9 - 142965x^8 -$ $746010x^7 - 1215135x^6 - 309420x^5 +$ $1936710x^4 + 3397950x^3 +$ $2694870x^2 + 1089855x + 182007$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & & & 2 \end{bmatrix}_1^5$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 78x^{14} + 39x^{13} + 49x^{12} +$ $24x^{11} + 36x^{10} + 2x^9 + 54x^8 +$ $69x^7 + 47x^6 + 18x^5 + 15x^4 +$ $36x^3 + 36x^2 + 63x + 73$ | $x^{15} - 3x^{14} - 36x^{13} + 151x^{12} +$ $306x^{11} - 2250x^{10} + 1258x^9 +$ $10467x^8 - 18066x^7 - 7856x^6 +$ $39705x^5 - 23016x^4 - 8527x^3 +$ $5730x^2 + 2244x + 199$ | $\begin{bmatrix} 2 \\ & 2 \end{bmatrix}_1^5$ | I: 3,1 | $\frac{4}{3}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|------------------|
| $x^{15} + 51x^{14} + 69x^{13} + 13x^{12} +$ $27x^{11} + 66x^{10} + 20x^9 + 9x^8 +$ $63x^7 + 23x^6 + 60x^5 + 9x^4 +$ $39x^3 + 21x^2 + 45x + 67$ | $x^{15} - 75x^{13} - 85x^{12} + 1665x^{11} +$ $2865x^{10} - 14595x^9 - 34020x^8 +$ $44730x^7 + 165620x^6 + 33516x^5 -$ $265335x^4 - 281260x^3 - 77175x^2 +$ $10290x + 2401$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & & 2 \\ & & & & & 2 \\ & & & & & & 2 \\ & & & & & & & 2 \\ & & & & & & & & 2 \\ & & & & & & & & & 2 \\ & & & & & & & & & & 2 \\ & & & & & & & & & & & 2 \\ & & & & & & & & & & & & 2 \\ & & & & & & & & & & & & & 2 \\ & & & & & & & & & & & & & & 2 \end{bmatrix}_1^{15}$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{15} + 57x^{14} + 63x^{13} + 13x^{12} +$ $12x^{11} + 66x^{10} + 53x^9 + 33x^8 +$ $33x^7 + 50x^6 + 48x^5 + 33x^3 +$ $45x^2 + 6x + 16$ | $x^{15} - 150x^{13} - 585x^{12} + 3495x^{11} +$ $20952x^{10} - 6535x^9 - 222945x^8 -$ $380775x^7 + 398035x^6 + 2138145x^5 +$ $3170520x^4 + 2468375x^3 +$ $1088100x^2 + 256665x + 25151$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & & 2 \\ & & & & & 2 \\ & & & & & & 2 \\ & & & & & & & 2 \\ & & & & & & & & 2 \\ & & & & & & & & & 2 \\ & & & & & & & & & & 2 \\ & & & & & & & & & & & 2 \\ & & & & & & & & & & & & 2 \\ & & & & & & & & & & & & & 2 \end{bmatrix}_1^{15}$ | I: 81,15 | $\frac{160}{81}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{15} + 51x^{14} + 72x^{13} + 76x^{12} +$ $18x^{11} + 57x^{10} + 41x^9 + 21x^8 +$ $63x^7 + 5x^6 + 42x^5 + 48x^4 +$ $72x^3 + 63x^2 + 39x + 61$ | $x^{15} - 105x^{13} - 85x^{12} + 4410x^{11} +$ $7140x^{10} - 90620x^9 - 224910x^8 +$ $847035x^7 + 3150235x^6 - 1451331x^5 -$ $16593675x^4 - 18750235x^3 +$ $659295x^2 + 6737745x - 903707$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & & 2 \\ & & & & & 2 \\ & & & & & & 2 \end{array} \right]_1^5$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 12x^{14} + 72x^{13} + 43x^{12} +$ $12x^{11} + 66x^{10} + 56x^9 + 15x^8 +$ $24x^7 + 26x^6 + 48x^5 + 54x^4 +$ $66x^3 + 24x + 67$ | $x^{15} - 90x^{13} - 40x^{12} + 3015x^{11} +$ $3030x^{10} - 47680x^9 - 76185x^8 +$ $359670x^7 + 824675x^6 - 1004913x^5 -$ $3842370x^4 - 926100x^3 + 5929245x^2 +$ $6443010x + 1964557$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & & 2 \\ & & & & & 2 \\ & & & & & & 2 \end{array} \right]_1^5$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 60x^{14} + 45x^{13} + 70x^{12} +$ $57x^{11} + 39x^{10} + 80x^9 + 69x^8 +$ $66x^7 + 2x^6 + 51x^4 + 39x^3 +$ $3x^2 + 33x + 4$ | $x^{15} - 45x^{13} - 35x^{12} + 720x^{11} +$ $960x^{10} - 4930x^9 - 8595x^8 + 14520x^7 +$ $32325x^6 - 13392x^5 - 50235x^4 -$ $7675x^3 + 25515x^2 + 12180x + 1043$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & & 2 \\ & & & & & 2 \\ & & & & & & 2 \end{array} \right]_1^{15}$ | I: 81,15 | $\frac{160}{81}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} + 60x^{14} + 12x^{13} + 76x^{12} +$ $30x^{11} + 33x^{10} + 2x^9 + 54x^8 +$ $6x^7 + 17x^6 + 3x^5 + 48x^4 +$ $9x^3 + 66x^2 + 78x + 76$ | $x^{15} - 120x^{13} - 200x^{12} + 5250x^{11} +$ $16338x^{10} - 91390x^9 - 438120x^8 +$ $360675x^7 + 4394410x^6 + 4179690x^5 -$ $13354320x^4 - 28658805x^3 -$ $10878210x^2 + 9024045x + 4097849$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{bmatrix}_1^5$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 15x^{14} + 9x^{13} + 46x^{12} +$ $12x^{11} + 21x^{10} + 35x^9 + 54x^8 +$ $54x^7 + 47x^6 + 72x^5 + 45x^4 +$ $33x^3 + 3x^2 + 21x + 1$ | $x^{15} - 195x^{13} - 460x^{12} + 10395x^{11} +$ $29190x^{10} - 231875x^9 - 654885x^8 +$ $2340240x^7 + 6669390x^6 -$ $10412451x^5 - 31657185x^4 +$ $16343950x^3 + 63206325x^2 +$ $1440600x - 32329465$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{bmatrix}_1^5$ | I: 243,67 | $\frac{484}{243}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} + 12x^{14} + 48x^{13} + 61x^{12} +$ $69x^{11} + 60x^{10} + 2x^9 + 48x^8 +$ $21x^7 + 2x^6 + 45x^5 + 36x^4 +$ $42x^3 + 75x^2 + 9x + 25$ | $x^{15} - 345x^{13} - 2115x^{12} + 17970x^{11} +$ $159477x^{10} - 84300x^9 - 2712420x^8 -$ $2623890x^7 + 12899070x^6 +$ $21462876x^5 - 11452800x^4 -$ $39786625x^3 - 21843675x^2 -$ $1715250x + 223775$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{bmatrix}_1^5$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 72x^{14} + 24x^{13} + 28x^{12} +$ $9x^{11} + 51x^{10} + 71x^9 + 12x^8 +$ $69x^7 + 77x^6 + 42x^5 + 12x^4 +$ $12x^3 + 45x^2 + 57x + 19$ | $x^{15} - 105x^{13} - 25x^{12} + 2970x^{11} -$ $735x^{10} - 29060x^9 + 17145x^8 +$ $113550x^7 - 102585x^6 - 169974x^5 +$ $221445x^4 + 37240x^3 - 138915x^2 +$ $51450x - 2401$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{bmatrix}_1^5$ | I: 243,67 | $\frac{484}{243}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{15} + 39x^{14} + 60x^{13} + 28x^{12} + 24x^{11} + 48x^{10} + 2x^9 + 24x^8 + 45x^7 + 35x^6 + 33x^5 + 63x^4 + 45x^3 + 33x^2 + 60x + 64$ | $x^{15} + 27x^{13} - 26x^{12} + 153x^{11} - 588x^{10} - 736x^9 - 684x^8 + 759x^7 + 21714x^6 - 4239x^5 - 55104x^4 + 5984x^3 + 49032x^2 - 2400x - 14752$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & 2 \\ & & & 2 \end{array} \right]_{10}^1$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 6x^{14} + 63x^{13} + 25x^{12} + 36x^{11} + 30x^{10} + 56x^9 + 36x^8 + 3x^7 + 26x^6 + 51x^5 + 27x^4 + 60x^3 + 9x^2 + 33x + 67$ | $x^{15} - 105x^{13} - 105x^{12} + 3645x^{11} + 6795x^{10} - 47995x^9 - 129960x^8 + 195645x^7 + 910450x^6 + 414792x^5 - 1683780x^4 - 2587550x^3 - 1331820x^2 - 215355x - 9751$ | $\left[\begin{array}{cccc} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & 2 \\ & & & 2 \end{array} \right]_{15}^1$ | I: 81,15 | $\frac{160}{81}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} + 21x^{14} + 15x^{13} + 49x^{12} +$ $39x^{11} + 12x^{10} + 80x^9 + 36x^8 +$ $36x^7 + 53x^6 + 12x^5 + 30x^4 +$ $57x^3 + 30x^2 + 42x + 58$ | $x^{15} - 165x^{13} - 100x^{12} + 9450x^{11} +$ $11550x^{10} - 216720x^9 - 385875x^8 +$ $1743420x^7 + 3052700x^6 -$ $5859126x^5 - 6791400x^4 +$ $9938425x^3 + 2701125x^2 - 4501875x +$ 300125 | $\left[\begin{array}{ccccc} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{array} \right]^5$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 48x^{14} + 45x^{13} + x^{12} +$ $21x^{10} + 35x^9 + 57x^8 + 30x^7 +$ $80x^6 + 36x^5 + 78x^4 + 60x^3 +$ $69x^2 + 39x + 37$ | $x^{15} - 105x^{13} - 55x^{12} + 4410x^{11} +$ $4620x^{10} - 92435x^9 - 145530x^8 +$ $961380x^7 + 2067310x^6 - 3852576x^5 -$ $11951835x^4 - 2009980x^3 +$ $13181490x^2 + 8175405x + 103243$ | $\left[\begin{array}{ccccc} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{array} \right]^5$ | I: 243,67 | $\frac{484}{243}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|------------------|
| $x^{15} + 66x^{14} + 66x^{13} + 58x^{12} +$ $24x^{11} + 75x^{10} + 71x^9 + 63x^8 +$ $21x^7 + 80x^6 + 6x^5 + 66x^4 +$ $3x^3 + 72x^2 + 24x + 40$ | $x^{15} - 120x^{13} - 65x^{12} + 4725x^{11} +$ $3810x^{10} - 76860x^9 - 91980x^8 +$ $526995x^7 + 894495x^6 - 1183203x^5 -$ $3084060x^4 - 329280x^3 + 3195045x^2 +$ $2577645x + 602651$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & & 2 \\ & & & & & 2 \\ & & & & & & 2 \\ & & & & & & & 2 \\ & & & & & & & & 2 \\ & & & & & & & & & 2 \\ & & & & & & & & & & 2 \\ & & & & & & & & & & & 2 \\ & & & & & & & & & & & & 2 \\ & & & & & & & & & & & & & 2 \\ & & & & & & & & & & & & & & 2 \end{bmatrix}_1^{15}$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{15} + 24x^{14} + 9x^{13} + 61x^{12} +$ $36x^{11} + 12x^{10} + 77x^9 + 27x^8 +$ $39x^7 + 68x^6 + 69x^5 + 45x^2 +$ $42x + 31$ | $x^{15} - 345x^{13} - 2535x^{12} + 15450x^{11} +$ $217647x^{10} + 384490x^9 - 3456660x^8 -$ $13505985x^7 + 14406275x^6 +$ $130326561x^5 + 60112785x^4 -$ $518726380x^3 - 575303715x^2 +$ $734619405x + 1080085999$ | $\begin{bmatrix} 2 & 2 & 2 & 2 \\ & & & 2 \\ & & & & 2 \\ & & & & & 2 \\ & & & & & & 2 \\ & & & & & & & 2 \\ & & & & & & & & 2 \\ & & & & & & & & & 2 \\ & & & & & & & & & & 2 \\ & & & & & & & & & & & 2 \\ & & & & & & & & & & & & 2 \\ & & & & & & & & & & & & & 2 \\ & & & & & & & & & & & & & & 2 \end{bmatrix}_1^{15}$ | I: 81,15 | $\frac{160}{81}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} + 45x^{14} + 42x^{13} + 43x^{12} +$ $12x^{11} + 27x^{10} + 50x^9 + 36x^8 +$ $50x^6 + 75x^5 + 39x^4 + 57x^3 +$ $15x^2 + 27x + 34$ | $x^{15} - 150x^{13} - 505x^{12} + 4860x^{11} +$ $26922x^{10} - 13480x^9 - 354120x^8 -$ $809385x^7 - 254025x^6 + 1584090x^5 +$ $2690190x^4 + 1870470x^3 + 608565x^2 +$ $82215x + 3701$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{bmatrix}_1^5$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 21x^{14} + 42x^{13} + 7x^{12} +$ $3x^{11} + 33x^{10} + 77x^9 + 27x^8 +$ $75x^7 + 59x^6 + 15x^5 + 78x^4 +$ $6x^2 + 30x + 49$ | $x^{15} - 105x^{13} - 125x^{12} + 4410x^{11} +$ $10500x^{10} - 86900x^9 - 330750x^8 +$ $612675x^7 + 4520285x^6 + 3470229x^5 -$ $19681095x^4 - 52215625x^3 -$ $48604815x^2 - 13958385x + 1989743$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{bmatrix}_1^5$ | I: 243,67 | $\frac{484}{243}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-------------------|
| $x^{15} + 24x^{14} + 24x^{13} + 4x^{12} +$ $60x^{11} + 77x^9 + 51x^8 + 57x^7 +$ $11x^6 + 72x^5 + 21x^4 + 9x^3 +$ $33x^2 + 18x + 76$ | $x^{15} - 105x^{13} - 150x^{12} + 3645x^{11} +$ $9495x^{10} - 45295x^9 - 177030x^8 +$ $118650x^7 + 1218875x^6 + 1171737x^5 -$ $2085195x^4 - 5132750x^3 -$ $3781575x^2 - 828345x + 103243$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{bmatrix}_1^5$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 21x^{14} + 57x^{13} + 10x^{12} +$ $12x^{11} + 3x^{10} + 80x^9 + 21x^8 +$ $39x^7 + 74x^6 + 12x^5 + 69x^4 +$ $15x^2 + 51x + 67$ | $x^{15} - 3x^{14} - 24x^{13} + 46x^{12} + 249x^{11} -$ $261x^{10} - 994x^9 + 579x^8 + 1371x^7 -$ $2093x^6 + 663x^5 + 141x^4 + 3811x^3 -$ $4920x^2 + 6912x - 3191$ | $\begin{bmatrix} 2 \\ & 2 \\ & & 2 \\ & & & 1 \end{bmatrix}_1^{10}$ | I: 3,1 | $\frac{4}{3}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} + 48x^{14} + 72x^{13} + 10x^{12} + 54x^{11} + 75x^{10} + 62x^9 + 54x^8 + 69x^7 + 59x^6 + 45x^5 + 39x^4 + 72x^3 + 69x^2 + 33x + 43$ | $x^{15} - 135x^{13} - 20x^{12} + 6765x^{11} + 5148x^{10} - 166980x^9 - 251295x^8 + 2057550x^7 + 4748635x^6 - 10040388x^5 - 35060340x^4 - 2364580x^3 + 57864840x^2 + 15651285x - 33269143$ | $\left[\begin{array}{ccccc} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{array} \right]^5$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 42x^{14} + 72x^{13} + 40x^{12} + 72x^{11} + 78x^{10} + 17x^9 + 60x^8 + 45x^7 + 80x^6 + 27x^5 + 75x^3 + 48x^2 + 69x + 7$ | $x^{15} - 345x^{13} - 1770x^{12} + 18390x^{11} + 106488x^{10} - 359050x^9 - 2014470x^8 + 3941970x^7 + 15563455x^6 - 27226779x^5 - 39432300x^4 + 85292875x^3 - 32062800x^2 + 3313935x - 101149$ | $\left[\begin{array}{ccccc} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{array} \right]^5$ | I: 243,67 | $\frac{484}{243}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|------------------|
| $x^{15} + 15x^{14} + 33x^{13} + 31x^{12} +$ $30x^{11} + 39x^{10} + 77x^9 + 72x^8 +$ $6x^7 + 53x^6 + 54x^5 + 36x^4 +$ $60x^3 + 51x^2 + 6x + 10$ | $x^{15} - 150x^{13} - 290x^{12} + 6885x^{11} +$ $23535x^{10} - 115610x^9 - 614250x^8 +$ $310590x^7 + 5896450x^6 + 6975738x^5 -$ $16344930x^4 - 40775350x^3 -$ $14462595x^2 + 23965410x + 14717101$ | $\left[\begin{array}{ccccc} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{array} \right]^5$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{15} + 36x^{14} + 60x^{13} + 19x^{12} +$ $72x^{11} + 18x^{10} + 68x^9 + 45x^8 +$ $30x^7 + 26x^6 + 72x^5 + 66x^4 +$ $78x^3 + 30x^2 + 30x + 70$ | $x^{15} - 105x^{13} - 65x^{12} + 4410x^{11} +$ $5460x^{10} - 91910x^9 - 171990x^8 +$ $928305x^7 + 2428685x^6 - 3158001x^5 -$ $13515915x^4 - 6799975x^3 +$ $9183825x^2 + 6662775x + 516215$ | $\left[\begin{array}{ccccc} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{array} \right]^5$ | I: 81,15 | $\frac{160}{81}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{15} + 33x^{14} + 78x^{13} + 61x^{12} +$ $15x^{11} + 63x^{10} + 11x^9 + 24x^8 +$ $48x^7 + 53x^6 + 36x^5 + 21x^4 +$ $69x^3 + 33x^2 + 63x + 52$ | $x^{15} - 120x^{13} - 85x^{12} + 4725x^{11} +$ $3030x^{10} - 86760x^9 - 28980x^8 +$ $792855x^7 - 27825x^6 - 3260313x^5 +$ $1055460x^4 + 3991050x^3 - 879795x^2 -$ $1003275x + 171157$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{bmatrix}_1^5$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 15x^{14} + 60x^{13} + 34x^{12} +$ $72x^{11} + 72x^{10} + 5x^9 + 18x^8 +$ $69x^7 + 71x^6 + 75x^5 + 6x^4 +$ $75x^3 + 45x^2 + 30x + 16$ | $x^{15} - 135x^{13} - 135x^{12} + 4275x^{11} +$ $6270x^{10} - 31425x^9 - 34830x^8 +$ $109995x^7 + 62325x^6 - 200214x^5 -$ $13545x^4 + 164990x^3 - 46305x^2 -$ $36015x + 14749$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{bmatrix}_1^5$ | I: 243,67 | $\frac{484}{243}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|------------------|
| $x^{15} + 54x^{14} + 15x^{13} + x^{12} +$ $36x^{11} + 66x^{10} + 65x^9 + 42x^8 +$ $27x^7 + 8x^6 + 48x^5 + 30x^4 +$ $33x^3 + 33x^2 + 30x + 52$ | $x^{15} - 105x^{13} - 70x^{12} + 4410x^{11} +$ $5880x^{10} - 91235x^9 - 185220x^8 +$ $885780x^7 + 2589265x^6 - 2264976x^5 -$ $13453440x^4 - 12799780x^3 -$ $1682415x^2 + 1384005x - 34643$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 2 \\ & & 2 \end{array} \right]_1^{15}$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{15} + 30x^{14} + 15x^{13} + 22x^{12} +$ $3x^{11} + 63x^{10} + 56x^9 + 36x^8 +$ $6x^7 + 50x^6 + 54x^5 + 72x^4 +$ $45x^3 + 18x^2 + 36x + 40$ | $x^{15} - 60x^{13} - 20x^{12} + 1350x^{11} +$ $720x^{10} - 14180x^9 - 8370x^8 +$ $72045x^7 + 37870x^6 - 169974x^5 -$ $70770x^4 + 160475x^3 + 44100x^2 -$ $40425x - 12005$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 2 \\ & & 2 \end{array} \right]_1^5$ | I: 81,15 | $\frac{160}{81}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{15} + 63x^{14} + 9x^{13} + 52x^{12} + 39x^{11} + 54x^{10} + 71x^9 + 9x^8 + 57x^7 + 29x^6 + 39x^5 + 30x^4 + 21x^3 + 48x^2 + 6x + 19$ | $x^{15} - 255x^{13} - 560x^{12} + 14490x^{11} + 22107x^{10} - 332635x^9 - 249030x^8 + 3285825x^7 + 864410x^6 - 11808249x^5 - 5749545x^4 + 14761485x^3 + 13216740x^2 + 1126710x - 1051493$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 2 \\ & & 2 \end{array} \right]_1^5$ | I: 81,15 | $\frac{160}{81}$ |
| $x^{15} + 15x^{14} + 72x^{13} + 19x^{12} + 63x^{11} + 60x^{10} + 20x^9 + 66x^8 + 75x^7 + 38x^6 + 27x^5 + 42x^4 + 12x^3 + 75x^2 + 9x + 22$ | $x^{15} - 315x^{13} - 420x^{12} + 24255x^{11} + 51450x^{10} - 674730x^9 - 1574370x^8 + 8000475x^7 + 18316200x^6 - 41446062x^5 - 86976225x^4 + 84359135x^3 + 136136700x^2 - 68320455x - 47076407$ | $\left[\begin{array}{ccc} 2 & 2 & 2 \\ & 2 & 2 \\ & & 2 \end{array} \right]_1^5$ | I: 243,67 | $\frac{484}{243}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} + 18x^{14} + 51x^{13} + 79x^{12} +$ $72x^{11} + 18x^{10} + 56x^9 + 66x^8 +$ $17x^6 + 9x^5 + 78x^4 + 27x^3 +$ $75x^2 + 45x + 55$ | $x^{15} - 135x^{13} - 155x^{12} + 5130x^{11} +$ $4470x^{10} - 82075x^9 - 13860x^8 +$ $659610x^7 - 394450x^6 - 2477538x^5 +$ $3384675x^4 + 2315250x^3 -$ $7347060x^2 + 5047245x - 1097257$ | $\left[\begin{array}{ccccc} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{array} \right]_1^5$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 24x^{14} + 75x^{13} + 58x^{12} +$ $36x^{11} + 17x^9 + 48x^8 + 47x^6 +$ $30x^5 + 27x^4 + 69x^3 + 66x^2 +$ $30x + 7$ | $x^{15} - 315x^{13} - 840x^{12} + 24255x^{11} +$ $54390x^{10} - 845250x^9 - 972405x^8 +$ $15193185x^7 - 231525x^6 -$ $132203862x^5 + 128033325x^4 +$ $418794425x^3 - 762365520x^2 +$ $172944030x + 188356049$ | $\left[\begin{array}{ccccc} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{array} \right]_1^5$ | I: 81,15 | $\frac{160}{81}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} + 51x^{13} + 10x^{12} + 3x^{11} + 48x^{10} + 77x^9 + 39x^7 + 23x^6 + 69x^5 + 42x^4 + 21x^3 + 63x^2 + 15x + 31$ | $x^{15} - 315x^{13} - 210x^{12} + 24255x^{11} + 33810x^{10} - 683550x^9 - 1574370x^8 + 6781110x^7 + 23486925x^6 - 5791212x^5 - 93999150x^4 - 114947875x^3 - 43109955x^2 - 1008420x + 722701$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{bmatrix}_1^5$ | I: 243,67 | $\frac{484}{243}$ |
| $x^{15} + 24x^{14} + 27x^{13} + 76x^{12} + 6x^{11} + 68x^9 + 72x^8 + 12x^7 + 50x^6 + 18x^5 + 60x^4 + 33x^3 + 48x^2 + 66x + 16$ | $x^{15} - 150x^{13} - 290x^{12} + 6315x^{11} + 22983x^{10} - 32540x^9 - 183060x^8 - 6120x^7 + 473730x^6 + 293640x^5 - 371130x^4 - 422060x^3 - 71565x^2 + 42540x + 10957$ | $\begin{bmatrix} 2 & 2 & 2 & 2 & 2 \\ & & & & 1 \end{bmatrix}_1^5$ | I: 243,67 | $\frac{484}{243}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|---------|---------------|
| $x^{15} - 3x^{14} + 27x^{13} + 31x^{12} +$ $5361x^{11} + 3249x^{10} - 120562x^9 -$ $259107x^8 + 1090119x^7 + 4464049x^6 +$ $785697x^5 - 20966655x^4 -$ $43817519x^3 - 38133582x^2 -$ $14510214x - 1701701$ | $x^{15} - 3x^{14} - 114x^{13} + 130x^{12} +$ $5361x^{11} + 3249x^{10} - 120562x^9 -$ $259107x^8 + 1090119x^7 + 4464049x^6 +$ $785697x^5 - 20966655x^4 -$ $43817519x^3 - 38133582x^2 -$ $14510214x - 1701701$ | $\begin{bmatrix} 5 \\ 2 \end{bmatrix}_1$ | I: 3,1 | $\frac{4}{3}$ |
| $x^{15} + 42x^{14} + 27x^{13} + 31x^{12} +$ $45x^{11} + 45x^{10} + 41x^9 + 30x^8 +$ $42x^7 + 8x^6 + 75x^5 + 18x^4 +$ $42x^3 + 24x^2 + 51x + 19$ | $x^{15} - 3x^{14} - 114x^{13} + 165x^{12} +$ $5277x^{11} + 309x^{10} - 119015x^9 -$ $163851x^8 + 1201692x^7 + 3201011x^6 -$ $2654712x^5 - 17750946x^4 -$ $19922550x^3 - 3294435x^2 +$ $4535715x + 831403$ | $\begin{bmatrix} 5 \\ 2 \end{bmatrix}_1$ | I: 3,1 | $\frac{4}{3}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|--------------------|
| $x^{15} + 75x^{14} + 18x^{13} + 73x^{12} +$ $63x^{11} + 36x^{10} + 65x^9 + 75x^8 +$ $27x^7 + 19x^6 + 48x^5 + 21x^4 +$ $16x^3 + 60x^2 + 21x + 52$ | $x^{15} - 9x^{12} - 27x^9 + 108x^6 + 81x^3 - 243$ | $\begin{bmatrix} 3 & 3 & 3 & 3 & 3 \\ 2 & 2 & 2 & 2 & 2 \end{bmatrix}^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 75x^{14} + 72x^{13} + x^{12} +$ $72x^{11} + 72x^{10} + 77x^9 + 39x^8 +$ $45x^7 + 40x^6 + 75x^5 + 75x^4 +$ $61x^3 + 15x^2 + 39x + 40$ | $x^{15} - 12x^{12} - 576x^9 + 5184x^6 +$ $62208x^3 - 248832$ | $\begin{bmatrix} 3 & 3 & 3 & 3 & 3 \\ 2 & 2 & 2 & 2 & 2 \end{bmatrix}^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 75x^{14} + 27x^{13} + 70x^{12} +$ $45x^{11} + 18x^{10} + 23x^9 + 66x^8 +$ $36x^7 + 52x^6 + 66x^5 + 30x^4 +$ $52x^3 + 15x^2 + 21x + 49$ | $x^{15} - 48x^{12} + 288x^9 + 8640x^6 -$ $41472x^3 - 248832$ | $\begin{bmatrix} 3 & 3 & 3 & 3 & 3 \\ 2 & 2 & 2 & 2 & 2 \end{bmatrix}^5$ | I: 486,260 | $\frac{1051}{486}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|--------------------|
| $x^{15} + 30x^{14} + 54x^{13} + 49x^{12} +$ $45x^{11} + 63x^{10} + 62x^9 + 21x^8 +$ $9x^7 + 19x^6 + 75x^5 + 48x^4 +$ $49x^3 + 33x^2 + 57x + 52$ | $x^{15} - 36x^{12} - 3600x^9 - 50112x^6 -$ $207360x^3 - 248832$ | $\left[\begin{array}{ccc} 3 & 3 & 3 \\ 2 & 2 & 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 57x^{14} + 63x^{13} + 73x^{12} +$ $54x^{11} + 18x^{10} + 17x^9 + 39x^8 +$ $45x^7 + 40x^6 + 48x^5 + 3x^4 +$ $31x^3 + 51x^2 + 21x + 43$ | $x^{15} - 36x^{12} - 432x^9 + 25920x^6 -$ $207360x^3 - 248832$ | $\left[\begin{array}{ccc} 3 & 3 & 3 \\ 2 & 2 & 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 57x^{14} + 54x^{13} + 22x^{12} +$ $27x^{11} + 27x^{10} + 20x^9 + 57x^8 +$ $54x^7 + 19x^6 + 21x^5 + 57x^4 +$ $31x^3 + 69x^2 + 48x + 25$ | $x^{15} - 42x^{12} - 2205x^9 + 120393x^6 -$ $1361367x^3 + 4084101$ | $\left[\begin{array}{ccc} 3 & 3 & 3 \\ 2 & 2 & 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|------------|--------------------|
| $x^{15} + 12x^{14} + 54x^{13} + 76x^{12} +$ $63x^{11} + 27x^{10} + 77x^9 + 30x^8 +$ $54x^7 + 61x^6 + 21x^5 + 3x^4 +$ $70x^3 + 24x^2 + 21x + 43$ | $x^{15} - 42x^{12} - 2205x^9 + 18522x^6 +$ $777924x^3 + 4084101$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right] \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 5 \\ 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 30x^{14} + 31x^{12} + 9x^{11} +$ $9x^{10} + 11x^9 + 57x^8 + 36x^7 +$ $76x^6 + 48x^5 + 57x^4 + 16x^3 +$ $33x^2 + 39x + 10$ | $x^{15} - 24x^{12} + 171x^9 - 405x^6 + 81x^3 +$ 243 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right] \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 5 \\ 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 12x^{14} + 72x^{13} + 4x^{12} +$ $9x^{11} + 9x^{10} + 2x^9 + 3x^8 +$ $63x^7 + 16x^6 + 48x^5 + 3x^4 +$ $46x^3 + 78x^2 + 21x + 79$ | $x^{15} - 96x^{12} + 2736x^9 - 25920x^6 +$ $20736x^3 + 248832$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right] \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 5 \\ 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|------------|--------------------|
| $x^{15} + 3x^{14} + 18x^{13} + 73x^{12} +$ $9x^{11} + 36x^{10} + 68x^9 + 21x^8 +$ $27x^7 + 52x^6 + 66x^5 + 12x^4 +$ $64x^3 + 69x^2 + 12x + 67$ | $x^{15} - 21x^{12} - 6615x^9 - 175959x^6 -$ $1555848x^3 - 4084101$ | $\left[\begin{array}{c} \frac{3}{2} \quad \frac{3}{2} \quad \frac{3}{2} \quad \frac{3}{2} \\ \frac{5}{2} \quad \frac{5}{2} \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 3x^{14} + 63x^{13} + 70x^{12} +$ $72x^{11} + 8x^9 + 21x^8 + 72x^7 +$ $73x^6 + 57x^5 + 39x^4 + 28x^3 +$ $33x^2 + 21x + 25$ | $x^{15} - 3x^{14} - 9x^{13} - 28x^{12} + 171x^{11} -$ $132x^{10} + 1286x^9 - 2328x^8 + 7743x^7 -$ $29172x^6 + 44922x^5 - 149313x^4 +$ $246705x^3 - 398574x^2 + 625365x -$ 270073 | $\left[\begin{array}{c} \frac{5}{2} \\ \frac{5}{2} \end{array} \right]_2^5$ | I: 6,1 | $\frac{11}{6}$ |
| $x^{15} + 75x^{14} + 31x^{12} + 9x^{11} +$ $71x^9 + 3x^8 + 9x^7 + 25x^6 +$ $21x^5 + 75x^4 + 70x^3 + 78x^2 +$ $12x + 70$ | $x^{15} - 3x^{14} - 9x^{13} + 221x^{12} +$ $405x^{11} - 1518x^{10} + 5858x^9 +$ $52050x^8 + 47658x^7 - 73575x^6 +$ $816546x^5 + 3812001x^4 + 3764190x^3 -$ $4792113x^2 - 8311266x - 1325059$ | $\left[\begin{array}{c} \frac{3}{2} \quad \frac{3}{2} \quad \frac{3}{2} \quad \frac{3}{2} \\ \frac{5}{2} \quad \frac{5}{2} \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|------------|--------------------|
| $x^{15} + 66x^{14} + 27x^{13} + 46x^{12} +$ $63x^{11} + 27x^{10} + 26x^9 + 48x^8 +$ $63x^7 + x^6 + 57x^5 + 75x^4 +$ $34x^3 + 69x^2 + 66x + 64$ | $x^{15} - 24x^{12} - 720x^9 + 22464x^6 -$ $145152x^3 + 248832$ | $\left[\begin{array}{ccc} 3 & 3 & 3 \\ 2 & 2 & 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 39x^{14} + 54x^{13} + 61x^{12} +$ $9x^{11} + 9x^{10} + 53x^9 + 39x^8 +$ $72x^7 + 40x^6 + 66x^5 + 3x^4 +$ $43x^3 + 42x^2 + 30x + 64$ | $x^{15} - 12x^{12} - 2160x^9 - 32832x^6 -$ $165888x^3 - 248832$ | $\left[\begin{array}{ccc} 3 & 3 & 3 \\ 2 & 2 & 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 75x^{14} + 54x^{13} + 10x^{12} +$ $72x^{11} + 45x^{10} + 77x^9 + 21x^8 +$ $72x^7 + 46x^6 + 39x^5 + 12x^4 +$ $70x^3 + 51x^2 + 12x + 16$ | $x^{15} - 12x^{12} - 81x^9 + 135x^6 + 729x^3 -$ 243 | $\left[\begin{array}{ccc} 3 & 3 & 3 \\ 2 & 2 & 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|------------|--------------------|
| $x^{15} + 12x^{14} + 27x^{13} + 7x^{12} +$ $27x^{11} + 45x^{10} + 20x^9 + 39x^8 +$ $36x^7 + 46x^6 + 21x^5 + 75x^4 +$ $x^3 + 60x^2 + 66x + 31$ | $x^{15} - 126x^{12} - 441x^9 + 92610x^6 -$ $1166886x^3 + 4084101$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right] \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 5 \\ 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 39x^{14} + 18x^{13} + 46x^{12} +$ $54x^{11} + 72x^{10} + 59x^9 + 30x^8 +$ $13x^6 + 66x^5 + 30x^4 + 79x^3 +$ $60x^2 + 57x + 37$ | $x^{15} - 84x^{12} + 1872x^9 - 8640x^6 -$ $41472x^3 + 248832$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right] \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 5 \\ 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 57x^{14} + 54x^{13} + 73x^{12} +$ $18x^{11} + 54x^{10} + 44x^9 + 75x^8 +$ $72x^7 + 67x^6 + 75x^5 + 75x^4 +$ $31x^3 + 51x^2 + 66x + 64$ | $x^{15} - 3x^{14} - 9x^{13} + 11x^{12} - 477x^{11} +$ $1254x^{10} - 1093x^9 + 8706x^8 +$ $50871x^7 - 52092x^6 + 443208x^5 -$ $834123x^4 + 1220166x^3 - 3637008x^2 +$ $733140x - 6109489$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right] \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 5 \\ 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|------------|--------------------|
| $x^{15} + 30x^{14} + 40x^{12} + 27x^{11} +$ $54x^{10} + 68x^9 + 21x^8 + 18x^7 +$ $52x^6 + 57x^5 + 30x^4 + 70x^3 +$ $60x^2 + 30x + 16$ | $x^{15} - 126x^{12} + 4410x^9 - 9261x^6 -$ $1166886x^3 + 4084101$ | $\left[\begin{array}{ccc} 3 & 3 & 3 \\ 2 & 2 & 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 21x^{14} + 72x^{13} + 16x^{12} +$ $27x^{11} + 63x^{10} + 26x^9 + 39x^8 +$ $18x^7 + 61x^6 + 57x^5 + 48x^4 +$ $76x^3 + 78x^2 + 66x + 73$ | $x^{15} - 9x^{12} - 27x^9 + 405x^6 - 810x^3 - 243$ | $\left[\begin{array}{ccc} 3 & 3 & 3 \\ 2 & 2 & 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 75x^{14} + 63x^{13} + 40x^{12} +$ $45x^{11} + 18x^{10} + 29x^9 + 21x^8 +$ $18x^7 + 49x^6 + 3x^5 + 30x^4 +$ $16x^3 + 15x^2 + 12x + 76$ | $x^{15} - 168x^{12} - 1323x^9 + 166698x^6 -$ $1944810x^3 + 4084101$ | $\left[\begin{array}{ccc} 3 & 3 & 3 \\ 2 & 2 & 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|--------------------|
| $x^{15} + 30x^{14} + 27x^{13} + 28x^{12} +$ $36x^{11} + 45x^{10} + 38x^9 + 48x^8 +$ $27x^7 + 10x^6 + 48x^5 + 39x^4 +$ $10x^3 + 6x^2 + 3x + 46$ | $x^{15} - 3x^{12} - 135x^9 - 513x^6 - 648x^3 -$ 243 | $\left[\begin{array}{ccc} 3 & 3 & 3 \\ 2 & 2 & 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 75x^{14} + 54x^{13} + 16x^{12} +$ $54x^{11} + 72x^{10} + 23x^9 + 12x^8 +$ $72x^7 + 25x^6 + 12x^5 + 30x^4 +$ $31x^3 + 78x^2 + 48x + 67$ | $x^{15} - 120x^{12} - 2160x^9 - 5184x^6 +$ $62208x^3 + 248832$ | $\left[\begin{array}{ccc} 3 & 3 & 3 \\ 2 & 2 & 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 30x^{14} + 63x^{13} + 25x^{12} +$ $36x^{11} + 18x^{10} + 5x^9 + 75x^8 +$ $x^6 + 48x^5 + 21x^4 + 7x^3 +$ $60x^2 + 48x + 37$ | $x^{15} - 24x^{12} - 720x^9 + 3456x^6 +$ $82944x^3 + 248832$ | $\left[\begin{array}{ccc} 3 & 3 & 3 \\ 2 & 2 & 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|------------|--------------------|
| $x^{15} + 48x^{14} + 36x^{13} + 13x^{12} +$ $63x^{11} + 63x^{10} + 29x^9 + 21x^8 +$ $72x^7 + 4x^6 + 48x^5 + 48x^4 +$ $19x^3 + 15x^2 + 12x + 19$ | $x^{15} - 3x^{14} - 9x^{13} - 73x^{12} +$ $972x^{11} - 3597x^{10} - 694x^9 +$ $54003x^8 - 207681x^7 + 389937x^6 +$ $76611x^5 - 2620803x^4 + 7813032x^3 -$ $14907141x^2 + 16435323x - 12609409$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]$ $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]$ $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]$ $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]$ $\left[\begin{array}{c} 5 \\ 2 \end{array} \right]$ $\left[\begin{array}{c} 5 \\ 2 \end{array} \right]$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 75x^{14} + 18x^{13} + 55x^{12} +$ $47x^9 + 75x^8 + 27x^7 + 61x^6 +$ $57x^5 + 3x^4 + 52x^3 + 60x^2 +$ $3x + 79$ | $x^{15} - 30x^{12} - 135x^9 - 81x^6 + 243x^3 +$ 243 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]$ $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]$ $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]$ $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]$ $\left[\begin{array}{c} 5 \\ 2 \end{array} \right]$ $\left[\begin{array}{c} 5 \\ 2 \end{array} \right]$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 48x^{14} + 63x^{13} + x^{12} +$ $9x^{11} + 54x^{10} + 32x^9 + 3x^8 +$ $54x^7 + 70x^6 + 48x^5 + 66x^4 +$ $58x^3 + 69x^2 + 57x + 49$ | $x^{15} - 24x^{12} - 27x^9 + 486x^6 - 810x^3 +$ 243 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]$ $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]$ $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]$ $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]$ $\left[\begin{array}{c} 5 \\ 2 \end{array} \right]$ $\left[\begin{array}{c} 5 \\ 2 \end{array} \right]$ | I: 486,260 | $\frac{1051}{486}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|------------|--------------------|
| $x^{15} + 75x^{14} + 9x^{13} + 49x^{12} +$ $63x^{11} + 36x^{10} + 47x^9 + 75x^8 +$ $36x^7 + 64x^6 + 57x^5 + 3x^4 +$ $76x^3 + 51x^2 + 3x + 76$ | $x^{15} - 9x^{12} - 225x^9 - 783x^6 - 810x^3 -$ 243 | $\left[\begin{array}{ccc} 3 & 3 & 3 \\ 2 & 2 & 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 39x^{14} + 63x^{13} + 67x^{12} +$ $18x^{11} + 72x^{10} + 20x^9 + 57x^8 +$ $9x^7 + 19x^6 + 30x^5 + 21x^4 +$ $76x^3 + 78x^2 + 75x + 61$ | $x^{15} - 60x^{12} - 1728x^9 + 1728x^6 +$ $103680x^3 - 248832$ | $\left[\begin{array}{ccc} 3 & 3 & 3 \\ 2 & 2 & 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 57x^{14} + 18x^{13} + x^{12} +$ $45x^{11} + 45x^{10} + 23x^9 + 48x^8 +$ $18x^7 + 13x^6 + 66x^5 + 39x^4 +$ $79x^3 + 24x^2 + 39x + 4$ | $x^{15} - 63x^{12} - 11025x^9 - 268569x^6 -$ $1944810x^3 - 4084101$ | $\left[\begin{array}{ccc} 3 & 3 & 3 \\ 2 & 2 & 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|--------------------|
| $x^{15} + 21x^{14} + 63x^{13} + 31x^{12} +$ $63x^{11} + 63x^{10} + 80x^9 + 48x^8 +$ $45x^7 + 73x^6 + 57x^5 + 48x^4 +$ $40x^3 + 51x^2 + 66x + 55$ | $x^{15} - 3x^{12} - 36x^9 + 81x^6 + 243x^3 - 243$ | $\left[\begin{array}{ccc} 3 & 3 & 3 \\ 2 & 2 & 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 57x^{14} + 63x^{13} + 34x^{12} +$ $36x^{11} + 72x^{10} + 5x^9 + 30x^8 +$ $27x^7 + 67x^6 + 39x^5 + 39x^4 +$ $13x^3 + 60x^2 + 75x + 16$ | $x^{15} - 15x^{12} - 108x^9 + 27x^6 + 405x^3 -$ 243 | $\left[\begin{array}{ccc} 3 & 3 & 3 \\ 2 & 2 & 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 21x^{14} + 18x^{13} + 10x^{12} +$ $9x^{11} + 27x^{10} + 50x^9 + 66x^8 +$ $63x^7 + 31x^6 + 21x^5 + 48x^4 +$ $58x^3 + 24x^2 + 75x + 55$ | $x^{15} - 63x^{12} - 1323x^9 + 37044x^6 +$ $194481x^3 - 4084101$ | $\left[\begin{array}{ccc} 3 & 3 & 3 \\ 2 & 2 & 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|------------|--------------------|
| $x^{15} + 12x^{14} + 45x^{13} + 19x^{12} +$ $27x^{11} + 45x^{10} + 23x^9 + 66x^8 +$ $18x^7 + 4x^6 + 30x^5 + 66x^4 +$ $52x^3 + 78x^2 + 30x + 40$ | $x^{15} - 96x^{12} - 432x^9 + 31104x^6 -$ $207360x^3 + 248832$ | $\left[\begin{array}{ccc} 3 & 3 & 3 \\ 2 & 2 & 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 75x^{14} + 54x^{13} + 37x^{12} +$ $45x^{11} + 45x^{10} + 80x^9 + 12x^8 +$ $36x^7 + 73x^6 + 21x^5 + 21x^4 +$ $13x^3 + 69x^2 + 12x + 1$ | $x^{15} - 84x^{12} + 882x^9 + 46305x^6 -$ $388962x^3 - 4084101$ | $\left[\begin{array}{ccc} 3 & 3 & 3 \\ 2 & 2 & 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 30x^{14} + 45x^{13} + 43x^{12} +$ $18x^{11} + 8x^9 + 21x^8 + 19x^6 +$ $75x^5 + 48x^4 + 34x^3 + 60x^2 +$ $66x + 25$ | $x^{15} - 72x^{12} + 1440x^9 - 1728x^6 -$ $124416x^3 + 248832$ | $\left[\begin{array}{ccc} 3 & 3 & 3 \\ 2 & 2 & 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|--------------------|
| $x^{15} + 66x^{14} + 9x^{13} + 34x^{12} +$ $27x^{11} + 45x^{10} + 59x^9 + 48x^8 +$ $72x^7 + 67x^6 + 3x^5 + 57x^4 +$ $64x^3 + 51x^2 + 30x + 55$ | $x^{15} - 36x^{12} - 432x^9 + 6912x^6 +$ $20736x^3 - 248832$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right] \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 5 \\ 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 48x^{14} + 63x^{13} + 52x^{12} +$ $63x^{10} + 47x^9 + 30x^8 + 9x^7 +$ $25x^6 + 39x^5 + 48x^4 + x^3 +$ $15x^2 + 30x + 76$ | $x^{15} - 48x^{12} - 1296x^9 + 8640x^6 +$ $186624x^3 - 248832$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right] \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 5 \\ 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 21x^{14} + 37x^{12} + 72x^{11} +$ $9x^{10} + 32x^9 + 12x^8 + 54x^7 +$ $79x^6 + 57x^5 + 39x^4 + 58x^3 +$ $78x^2 + 48x + 28$ | $x^{15} - 21x^{12} + 117x^9 - 135x^6 - 162x^3 +$ 243 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right] \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 5 \\ 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|------------|--------------------|
| $x^{15} + 39x^{14} + 36x^{13} + 79x^{12} +$ $45x^{11} + 68x^9 + 48x^8 + 18x^7 +$ $67x^6 + 3x^5 + 12x^4 + 31x^3 +$ $51x^2 + 30x + 67$ | $x^{15} - 6x^{12} - 45x^9 + 54x^6 + 324x^3 + 243$ | $\left[\begin{array}{c} \frac{3}{2} \quad \frac{3}{2} \quad \frac{3}{2} \quad \frac{3}{2} \\ \frac{5}{2} \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 3x^{14} + 45x^{13} + 46x^{12} +$ $36x^{11} + 45x^{10} + 59x^9 + 66x^8 +$ $18x^7 + 10x^6 + 57x^5 + 48x^4 +$ $49x^3 + 69x^2 + 66x + 28$ | $x^{15} - 3x^{14} - 9x^{13} + 17x^{12} + 63x^{11} -$ $132x^{10} + 35x^9 + 102x^8 + 453x^7 -$ $1335x^6 + 2046x^5 - 3459x^4 + 4218x^3 -$ $5454x^2 + 1233x + 683$ | $\left[\begin{array}{c} \frac{5}{2} \\ \frac{5}{2} \end{array} \right]_2^5$ | I: 6,1 | $\frac{11}{6}$ |
| $x^{15} + 30x^{14} + 18x^{13} + x^{12} +$ $18x^{10} + 68x^9 + 75x^8 + 54x^7 +$ $73x^6 + 48x^5 + 30x^4 + 49x^3 +$ $51x^2 + 3x + 79$ | $x^{15} - 6x^{12} - 45x^9 + 351x^6 - 567x^3 + 243$ | $\left[\begin{array}{c} \frac{3}{2} \quad \frac{3}{2} \quad \frac{3}{2} \quad \frac{3}{2} \\ \frac{5}{2} \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|------------|--------------------|
| $x^{15} + 30x^{14} + 45x^{13} + 31x^{12} + 9x^{10} + 11x^9 + 39x^8 + 27x^7 + 76x^6 + 75x^5 + 21x^4 + 4x^3 + 60x^2 + 12x + 16$ | $x^{15} - 168x^{12} + 8379x^9 - 138915x^6 + 194481x^3 + 4084101$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right] \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \left. \begin{array}{c} 5 \\ 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 12x^{14} + 36x^{13} + 73x^{12} + 54x^{11} + 27x^{10} + 32x^9 + 48x^8 + 7x^6 + 12x^5 + 48x^4 + 13x^3 + 60x^2 + 66x + 43$ | $x^{15} - 72x^{12} - 144x^9 + 17280x^6 - 124416x^3 + 248832$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right] \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \left. \begin{array}{c} 5 \\ 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 30x^{14} + 18x^{13} + x^{12} + 63x^{11} + 54x^{10} + 23x^9 + 21x^8 + 54x^7 + 64x^6 + 48x^5 + 12x^4 + 7x^3 + 69x^2 + 57x + 43$ | $x^{15} - 12x^{12} + 18x^9 + 135x^6 - 162x^3 - 243$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right] \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \left. \begin{array}{c} 5 \\ 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|--------------------|
| $x^{15} + 57x^{14} + 45x^{13} + 49x^{12} +$ $27x^{11} + 45x^{10} + 23x^9 + 21x^8 +$ $45x^7 + 13x^6 + 39x^5 + 57x^4 +$ $22x^3 + 24x^2 + 66x + 52$ | $x^{15} - 18x^{12} + 90x^9 - 27x^6 - 486x^3 + 243$ | $\left[\begin{array}{ccc} 3 & 3 & 3 \\ 2 & 2 & 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 12x^{14} + 72x^{13} + 43x^{12} +$ $63x^{11} + 68x^9 + 39x^8 + 36x^7 +$ $19x^6 + 30x^5 + 3x^4 + 7x^3 +$ $78x^2 + 39x + 76$ | $x^{15} - 63x^{12} - 1323x^9 + 138915x^6 -$ $1944810x^3 - 4084101$ | $\left[\begin{array}{ccc} 3 & 3 & 3 \\ 2 & 2 & 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 3x^{14} + 72x^{13} + 52x^{12} +$ $63x^{11} + 72x^{10} + 59x^9 + 75x^8 +$ $54x^7 + 73x^6 + 30x^5 + 48x^4 +$ $28x^3 + 24x^2 + 75x + 16$ | $x^{15} - 210x^{12} - 6615x^9 - 27783x^6 +$ $583443x^3 + 4084101$ | $\left[\begin{array}{ccc} 3 & 3 & 3 \\ 2 & 2 & 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|------------|--------------------|
| $x^{15} + 12x^{14} + 45x^{13} + 43x^{12} +$ $36x^{11} + 63x^{10} + 41x^9 + 12x^8 +$ $72x^7 + 55x^6 + 48x^5 + 39x^4 +$ $52x^3 + 42x^2 + 57x + 40$ | $x^{15} - 18x^{12} - 9x^9 + 270x^6 - 486x^3 + 243$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \quad \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \quad \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \quad \left[\begin{array}{c} 5 \\ 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 57x^{14} + 73x^{12} + 36x^{11} +$ $54x^{10} + 41x^9 + 66x^8 + 9x^7 +$ $19x^6 + 39x^5 + 30x^4 + 28x^3 +$ $24x^2 + 30x + 31$ | $x^{15} - 147x^{12} + 5733x^9 - 46305x^6 -$ $388962x^3 + 4084101$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \quad \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \quad \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \quad \left[\begin{array}{c} 5 \\ 2 \end{array} \right]_2^5$ | I: 486,260 | $\frac{1051}{486}$ |
| $x^{15} + 21x^{14} + 54x^{13} + 13x^{12} +$ $18x^{11} + 63x^{10} + 62x^9 + 30x^8 +$ $70x^6 + 66x^5 + 39x^4 + 19x^3 +$ $15x^2 + 75x + 1$ | $x^{15} - 3x^{14} - 9x^{13} - 73x^{12} + 279x^{11} -$ $132x^{10} + 4157x^9 - 7674x^8 + 23781x^7 -$ $127965x^6 + 184026x^5 - 742773x^4 +$ $1653648x^3 - 2367306x^2 + 5691051x -$ 4549357 | $\left[\begin{array}{c} 5 \\ 2 \end{array} \right]_2^5$ | I: 6,1 | $\frac{11}{6}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{15} - 3x^{12} - 3x^{11} + 3x^{10} -$ $3x^9 + 3x^8 + 3x^7 - 3x^6 + 3x - 3$ | $x^{15} - 6x^{14} + 33x^{13} - 52x^{12} + 204x^{11} +$ $288x^{10} + 82x^9 + 2634x^8 + 1239x^7 +$ $5302x^6 + 10881x^5 + 4974x^4 + 8408x^3 +$ $16788x^2 + 9144x + 1480$ | $\left[\begin{array}{c} \frac{11}{10} \\ \frac{11}{10} \\ \frac{11}{10} \\ \frac{11}{10} \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{889}{810}$ |
| $x^{15} - 3x^{14} + 3x^{13} + 3x^{11} +$ $3x^{10} - 3x^7 - 3x^6 - 3x^5 + 3x^3 -$ $3x^2 - 3x - 3$ | $x^{15} - 12x^{14} - 24x^{13} + 685x^{12} - 840x^{11} -$ $11532x^{10} + 42694x^9 + 27738x^8 -$ $582210x^7 + 1878920x^6 - 3095874x^5 +$ $2807568x^4 - 1382389x^3 + 614850x^2 -$ $552630x + 256955$ | $\left[\begin{array}{c} \frac{11}{10} \\ \frac{11}{10} \\ \frac{11}{10} \\ \frac{11}{10} \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{889}{810}$ |
| $x^{15} + 3x^{12} - 3x^{11} + 3x^9 - 3x^8 -$ $3x^5 + 3x^4 + 3x^2 - 3$ | $x^{15} - 45x^{13} - 70x^{12} + 1710x^{11} -$ $4077x^{10} - 4355x^9 + 26340x^8 -$ $17460x^7 - 41675x^6 + 51606x^5 +$ $38100x^4 - 134740x^3 + 216825x^2 -$ $245115x + 120613$ | $\left[\begin{array}{c} \frac{6}{5} \\ \frac{6}{5} \\ \frac{6}{5} \\ \frac{6}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{484}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} - 3x^{13} + 3x^{12} + 3x^8 - 3x^7 - 3x^5 + 3x^3 + 3x^2 + 3$ | $x^{15} - 15x^{13} - 25x^{12} + 165x^{11} - 15x^{10} - 290x^9 + 30x^8 + 180x^7 - 95x^6 + 204x^5 - 180x^4 + 80x^3 - 45x^2 + 15x - 2$ | $\left[\begin{array}{ccc} \frac{6}{5} & \frac{6}{5} & \frac{6}{5} \\ & \frac{6}{5} & \frac{6}{5} \\ & & \frac{6}{5} \end{array} \right]^{12}_5$ | T: 15,26 | $\frac{484}{405}$ |
| $x^{15} - 3x^{14} + 3x^{13} + 3x^{10} + 3x^9 + 3x^7 - 3x^6 - 3x^3 + 3x^2 + 3$ | $x^{15} - 30x^{13} - 45x^{12} + 345x^{11} + 834x^{10} - 1140x^9 - 3630x^8 + 3105x^7 + 2265x^6 - 15141x^5 + 28305x^4 + 30300x^3 - 76665x^2 - 1800x + 36447$ | $\left[\begin{array}{ccc} \frac{6}{5} & \frac{6}{5} & \frac{6}{5} \\ & \frac{6}{5} & \frac{6}{5} \\ & & \frac{6}{5} \end{array} \right]^{12}_5$ | T: 15,26 | $\frac{484}{405}$ |
| $x^{15} - 3x^{14} + 3x^{12} - 3x^{10} + 3x^9 + 3x^6 - 3x^4 - 3x^2 - 3$ | $x^{15} - 30x^{13} - 165x^{12} - 1365x^{11} - 7266x^{10} - 13050x^9 + 4590x^8 + 12375x^7 + 5895x^6 + 8253x^5 - 30015x^4 + 20610x^3 - 24705x^2 + 44640x - 32355$ | $\left[\begin{array}{ccc} \frac{6}{5} & \frac{6}{5} & \frac{6}{5} \\ & \frac{6}{5} & \frac{6}{5} \\ & & \frac{6}{5} \end{array} \right]^4_5$ | T: 15,26 | $\frac{484}{405}$ |
| Continued on next page | | | | |

Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} - 3x^{14} - 3x^{13} + 3x^{12} + 3x^{11} - 3x^8 - 3x^7 - 3x^6 + 3x^5 + 3x^4 - 3x^3 - 3$ | $x^{15} - 25x^{12} - 24x^{10} + 160x^9 + 75x^8 + 240x^7 - 155x^6 - 51x^5 - 285x^4 + 20x^3 + 90x + 13$ | $\left[\begin{array}{c} \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{188}{135}$ |
| $x^{15} - 3x^{14} - 3x^{13} + 3x^{11} - 3x^9 - 3x^8 + 3x^7 - 3x^5 + 3x^4 + 3$ | $x^{15} - 15x^{13} - 10x^{12} + 120x^{11} + 63x^{10} - 635x^9 + 90x^8 + 2070x^7 - 2315x^6 - 1200x^5 + 3600x^4 - 1510x^3 - 1215x^2 + 1275x - 329$ | $\left[\begin{array}{c} \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{188}{135}$ |
| $x^{15} + 3x^{12} + 3x^{10} + 3x^9 - 3x^8 + 3x^7 + 3x^6 + 3x^4 - 3$ | $x^{15} - 30x^{13} - 120x^{12} + 345x^{11} - 1110x^{10} - 2205x^9 - 1965x^8 - 9195x^7 - 21765x^6 - 31344x^5 - 29730x^4 - 20685x^3 - 10305x^2 - 3060x - 384$ | $\left[\begin{array}{c} \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{188}{135}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{15} + 3x^{14} + 3x^{13} + 3x^{12} +$ $3x^{11} + 3x^{10} + 3x^9 - 3x^8 -$ $3x^7 + 3x^6 + 3x^4 - 3x^3 + 3$ | $x^{15} + 30x^{13} - 35x^{12} + 135x^{11} +$ $1080x^{10} + 145x^9 + 18270x^8 +$ $36495x^7 - 24625x^6 - 119673x^5 -$ $83145x^4 + 68075x^3 + 132660x^2 +$ $69210x + 11978$ | $\left[\begin{array}{c} \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{188}{135}$ |
| $x^{15} - 3x^{14} + 3x^{12} + 3x^{11} -$ $3x^{10} - 3x^8 - 3x^7 + 3x^5 + 3x^4 -$ 3 | $x^{15} - 105x^{13} - 275x^{12} + 3525x^{11} +$ $16593x^{10} - 7400x^9 - 138330x^8 -$ $161820x^7 + 179405x^6 + 386334x^5 +$ $110310x^4 - 88330x^3 + 14925x^2 +$ $77025x + 28442$ | $\left[\begin{array}{c} \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{188}{135}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} - 3x^{14} + 3x^{12} - 3x^{10} - 3x^9 + 3x^8 + 3x^7 + 3x^6 - 3x^4 - 3$ | $x^{15} - 15x^{13} - 25x^{12} - 225x^{11} - 546x^{10} + 6130x^9 + 38535x^8 + 94290x^7 + 105970x^6 - 9165x^5 - 235890x^4 - 431845x^3 - 430380x^2 - 237525x - 56030$ | $\left[\begin{array}{c} \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{188}{135}$ |
| $x^{15} + 3x^{12} - 3x^{11} + 3x^{10} - 3x^9 + 3x^6 + 3x^4 - 3x^3 - 3$ | $x^{15} - 5x^{12} + 15x^{11} - 51x^{10} + 145x^9 - 450x^8 + 405x^7 - 505x^6 + 981x^5 - 900x^4 + 410x^3 - 105x^2 + 15x - 1$ | $\left[\begin{array}{c} \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{188}{135}$ |
| $x^{15} + 3x^{14} + 3x^{13} + 3x^{12} + 3x^{10} - 3x^9 - 3x^8 + 3x^7 - 3x^5 + 3x^4 + 3x^3 - 3$ | $x^{15} - 30x^{13} - 25x^{12} - 150x^{11} + 423x^{10} + 15115x^9 + 14100x^8 - 220395x^7 - 391490x^6 + 1255542x^5 + 3377415x^4 - 1310455x^3 - 9647610x^2 - 7457940x - 545405$ | $\left[\begin{array}{c} \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{188}{135}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} - 3x^{13} + 3x^{12} + 3x^{11} -$ $3x^{10} + 3x^8 + 3x^7 - 3x^6 - 3x^5 -$ $3x^4 - 3x^3 + 3$ | $x^{15} - 45x^{13} - 100x^{12} + 1065x^{11} +$ $2535x^{10} - 8795x^9 - 31875x^8 +$ $33390x^7 + 196870x^6 + 42588x^5 -$ $720315x^4 - 869875x^3 + 563670x^2 +$ $2684580x + 1791607$ | $\left[\begin{array}{c} \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{188}{135}$ |
| $x^{15} - 3x^{14} - 3x^{13} + 3x^{12} -$ $3x^{11} - 3x^{10} - 3x^8 - 3x^7 +$ $3x^6 - 3x^4 - 3x^3 + 3$ | $x^{15} - 120x^{13} - 455x^{12} + 2085x^{11} +$ $8781x^{10} - 14135x^9 - 77520x^8 -$ $144135x^7 - 342685x^6 - 630309x^5 -$ $473700x^4 - 504730x^3 - 439875x^2 +$ $124335x - 34327$ | $\left[\begin{array}{c} \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{188}{135}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|---------------------|
| $x^{15} - 3x^{12} + 3x^{10} + 3x^9 + 3x^8 +$ $3x^6 - 3x^5 - 3x^4 + 3$ | $x^{15} - 105x^{13} - 70x^{12} + 3255x^{11} +$ $2427x^{10} - 57575x^9 - 29715x^8 +$ $620235x^7 + 140875x^6 - 4113138x^5 -$ $361305x^4 + 16040780x^3 +$ $2866815x^2 - 30753870x - 21283352$ | $\left[\begin{array}{ccc} \frac{7}{5} & \frac{7}{5} & \frac{7}{5} \\ & \frac{7}{5} & \frac{7}{5} \\ & & \frac{7}{5} \end{array} \right]^{12}_5$ | T: 15,26 | $\frac{188}{135}$ |
| $x^{15} - 3x^{14} + 3x^{12} - 3x^{10} -$ $3x^8 - 3x^6 + 3x^5 - 3x^4 + 3$ | $x^{15} - 25x^{12} + 15x^{11} + 57x^{10} + 145x^9 -$ $540x^8 + 135x^7 + 1045x^6 - 1575x^5 +$ $1080x^4 - 430x^3 + 105x^2 - 15x + 1$ | $\left[\begin{array}{ccc} \frac{7}{5} & \frac{7}{5} & \frac{7}{5} \\ & \frac{7}{5} & \frac{7}{5} \\ & & \frac{7}{5} \end{array} \right]^{12}_5$ | T: 15,26 | $\frac{188}{135}$ |
| $x^{15} + 3x^{14} - 3x^{13} + 3x^{11} -$ $3x^{10} + 3x^9 + 3x^8 - 3x^7 - 3x^6 +$ $3x^5 + 3$ | $x^{15} - 3x^{14} + 69x^{13} - 405x^{12} + 1881x^{11} -$ $5367x^{10} + 60003x^9 - 40059x^8 +$ $280845x^7 - 1264311x^6 - 1476645x^5 -$ $2630277x^4 - 3412389x^3 -$ $2667375x^2 - 775431x - 114339$ | $\left[\begin{array}{ccc} \frac{11}{10} & \frac{11}{10} & \frac{11}{10} \\ & \frac{11}{10} & \frac{11}{10} \\ & & \frac{11}{10} \end{array} \right]^4_{10}$ | T: 15,44 | $\frac{3319}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|---------------------|
| $x^{15} + 3x^{14} + 3x^{11} + 3x^{10} - 3x^9 - 3x^6 + 3x^5 - 3x^3 - 3$ | $x^{15} - 30x^{12} + 90x^{11} + 96x^{10} - 120x^9 - 2340x^8 + 5580x^7 - 3510x^6 + 13122x^5 - 59040x^4 + 86400x^3 - 51840x^2 + 14580x + 8658$ | $\left[\begin{array}{c} \frac{11}{10} \\ \frac{11}{10} \\ \frac{11}{10} \\ \frac{11}{10} \end{array} \right]_4 \left[\begin{array}{c} \frac{3}{2} \\ \frac{3}{2} \end{array} \right]_{10}$ | T: 15,44 | $\frac{3319}{2430}$ |
| $x^{15} + 3x^{14} + 3x^{11} + 3x^{10} + 3x^9 - 3x^7 - 3x^6 - 3x^5 - 3x^3 - 3$ | $x^{15} - 9x^{14} + 12x^{13} + 27x^{12} + 231x^{11} + 1185x^{10} - 576x^9 + 1653x^8 - 6222x^7 - 1806x^6 + 1428x^5 + 5814x^4 + 483x^3 + 1413x^2 - 756x + 489$ | $\left[\begin{array}{c} \frac{11}{10} \\ \frac{11}{10} \\ \frac{11}{10} \\ \frac{11}{10} \end{array} \right]_4 \left[\begin{array}{c} \frac{3}{2} \\ \frac{3}{2} \end{array} \right]_{10}$ | T: 15,44 | $\frac{3319}{2430}$ |
| $x^{15} + 3x^{14} + 3x^{12} - 3x^9 + 3x^8 + 3x^5 + 3$ | $x^{15} - 24x^{10} - 15x^5 - 3$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{3}{2} \end{array} \right]_4$ | T: 15,4 | $\frac{13}{10}$ |
| $x^{15} - 3x^{13} - 3x^{12} + 3x^9 - 3x^7 - 3x^6 - 3x^5 + 3$ | $x^{15} - 348x^{10} - 30x^5 - 3$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{3}{2} \end{array} \right]_4$ | T: 15,4 | $\frac{13}{10}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|---------------------|
| $x^{15} - 3x^{14} + 3x^{13} + 3x^{12} - 3x^9 - 3x^8 + 3x^6 - 3x^5 + 3$ | $x^{15} - 3x^{13} - 15x^{12} - 174x^{11} - 276x^{10} + 1650x^9 - 5982x^8 + 34845x^7 - 56166x^6 + 162789x^5 - 138285x^4 + 232203x^3 + 67050x^2 - 126801x + 326625$ | $\left[\begin{array}{c} \frac{11}{10} \\ \frac{11}{10} \\ \frac{11}{10} \\ \frac{11}{10} \end{array} \right]_4 \left[\begin{array}{c} \frac{3}{2} \\ \frac{17}{10} \\ \frac{17}{10} \\ \frac{17}{10} \end{array} \right]_{10}$ | T: 15,44 | $\frac{3319}{2430}$ |
| $x^{15} + 3x^{14} + 3x^{13} - 3x^{12} - 3x^{11} - 3x^{10} - 3x^9 - 3x^8 - 3x^7 - 3x^6 - 3x^3 + 3$ | $x^{15} - 140x^{12} - 420x^{11} - 984x^{10} + 70x^9 + 3780x^8 + 23100x^7 + 33530x^6 - 49158x^5 - 141960x^4 + 41090x^3 + 166740x^2 - 270900x - 358882$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{17}{10} \\ \frac{17}{10} \\ \frac{17}{10} \end{array} \right]_4 \left[\begin{array}{c} \frac{17}{10} \\ \frac{17}{10} \\ \frac{17}{10} \\ \frac{17}{10} \end{array} \right]_{10}$ | T: 15,44 | $\frac{1373}{810}$ |
| $x^{15} - 3x^{14} - 3x^{13} - 3x^{12} + 3x^{11} - 3x^{10} - 3x^8 + 3x^7 + 3x^6 - 3x^3 - 3$ | $x^{15} + 3x^{13} - 175x^{12} + 816x^{11} + 72x^{10} + 17050x^9 + 17646x^8 + 138795x^7 + 170872x^6 + 581151x^5 + 564225x^4 + 956543x^3 + 578010x^2 + 515571x + 84235$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{17}{10} \\ \frac{17}{10} \\ \frac{17}{10} \end{array} \right]_4 \left[\begin{array}{c} \frac{17}{10} \\ \frac{17}{10} \\ \frac{17}{10} \\ \frac{17}{10} \end{array} \right]_{10}$ | T: 15,44 | $\frac{1373}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|--------------------|
| $x^{15} - 3x^{11} + 3x^9 - 3x^8 - 3x^7 - 3x^6 - 3$ | $x^{15} - 70x^{12} + 1960x^9 + 34300x^6 - 240100x^3 - 8403500$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{17}{10} \frac{17}{10} \frac{17}{10} \right]_{10}^4$ | T: 15,44 | $\frac{1373}{810}$ |
| $x^{15} - 3x^{13} + 3x^{11} + 3x^{10} - 3x^9 + 3x^8 - 3x^7 + 3x^6 - 3$ | $x^{15} - 70x^{12} - 420x^{11} - 564x^{10} - 4340x^9 - 5040x^8 - 4620x^7 - 52220x^6 + 68652x^5 - 33180x^4 - 13300x^3 - 159180x^2 + 567000x - 462692$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{17}{10} \frac{17}{10} \frac{17}{10} \right]_{10}^4$ | T: 15,44 | $\frac{1373}{810}$ |
| $x^{15} + 3x^{14} + 3x^{13} + 3x^8 + 3x^7 + 3x^3 - 3$ | $x^{15} - 3x^{14} - 42x^{13} + 399x^{12} + 285x^{11} - 4365x^{10} - 2640x^9 + 29325x^8 + 3900x^7 - 29190x^6 - 114300x^5 - 6570x^4 + 210405x^3 + 399375x^2 + 318600x + 91095$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{17}{10} \frac{17}{10} \frac{17}{10} \right]_{10}^4$ | T: 15,44 | $\frac{1373}{810}$ |
| $x^{15} + 3x^{10} - 3x^8 - 3x^7 - 3x^3 - 3$ | $x^{15} - 14x^{12} + 784x^9 - 9604x^6 - 38416x^3 + 941192$ | $\left[\begin{array}{c} 17 \\ 10 \end{array} \frac{17}{10} \frac{17}{10} \right]_{10}^4$ | T: 15,33 | $\frac{1369}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|--------------------|
| $x^{15} - 3x^{12} + 3x^{11} + 3x^9 + 3x^8 - 3x^7 - 3x^3 + 3$ | $x^{15} - 4x^{12} - 8x^9 - 8x^6 + 14x^3 - 8$ | $\left[\begin{array}{c} \frac{17}{10} \\ \frac{17}{10} \\ \frac{17}{10} \\ \frac{17}{10} \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1369}{810}$ |
| $x^{15} - 3x^{14} + 3x^{13} - 3x^{10} - 3x^8 - 3x^7 + 3x^6 - 3x^3 - 3$ | $x^{15} - 6x^{14} + 18x^{13} - 143x^{12} + 696x^{11} - 1704x^{10} + 7738x^9 - 20754x^8 + 36204x^7 - 122338x^6 + 39894x^5 - 214716x^4 - 147367x^3 + 591342x^2 - 969264x - 1268401$ | $\left[\begin{array}{c} \frac{17}{10} \\ \frac{17}{10} \\ \frac{17}{10} \\ \frac{17}{10} \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1369}{810}$ |
| $x^{15} + 3x^{14} + 3x^{13} - 3x^{12} - 3x^{11} - 3x^9 + 3x^7 + 3x^6 + 3x^3 - 3$ | $x^{15} + 3x^{13} - 2x^{12} + 36x^{11} + 24x^{10} - 32x^9 + 120x^7 + 8x^6 - 180x^5 + 216x^4 - 76x^3 - 12x + 8$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{17}{10} \\ \frac{17}{10} \\ \frac{17}{10} \\ \frac{17}{10} \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1373}{810}$ |
| $x^{15} - 3x^{13} - 3x^{12} + 3x^{11} - 3x^{10} - 3x^{10} + 3x^8 + 3x^7 - 3x^6 + 3$ | $x^{15} - 6x^{14} + 9x^{13} + 4x^{12} - 6x^{11} - 12x^{10} - 26x^9 + 24x^8 + 90x^7 + 68x^6 - 294x^5 + 50x^3 + 84x^2 + 174x + 104$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{17}{10} \\ \frac{17}{10} \\ \frac{17}{10} \\ \frac{17}{10} \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1373}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|--------------------|
| $x^{15} + 3x^{14} + 3x^{13} + 3x^{12} + 3x^{11} + 3x^{10} + 3x^7 - 3x^6 - 3$ | $x^{15} - 3x^{14} + 6x^{13} - 50x^{12} + 189x^{11} - 111x^{10} - 1496x^9 + 570x^8 + 5190x^7 - 17824x^6 + 26034x^5 - 27036x^4 + 18608x^3 - 10464x^2 + 3744x - 1216$ | $\left[\begin{array}{c} \frac{17}{10} \\ \frac{17}{10} \\ \frac{17}{10} \\ \frac{17}{10} \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1369}{810}$ |
| $x^{15} + 3x^{14} - 3x^{11} - 3x^9 + 3x^8 - 3x^7 + 3x^6 - 3$ | $x^{15} - 6x^{14} + 24x^{13} + 60x^{12} - 1050x^{11} + 4434x^{10} - 294x^9 - 76014x^8 + 315240x^7 - 87600x^6 - 3054636x^5 + 7894836x^4 + 2372676x^3 - 35808660x^2 + 45927900x - 10953300$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{17}{10} \\ \frac{17}{10} \\ \frac{17}{10} \\ \frac{17}{10} \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1373}{810}$ |
| $x^{15} - 3x^{14} - 3x^{12} - 3x^9 + 3x^8 - 3x^7 + 3$ | $x^{15} - 10x^{12} - 140x^9 - 9800x^6 + 274400x^3 - 4802000$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{17}{10} \\ \frac{17}{10} \\ \frac{17}{10} \\ \frac{17}{10} \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1373}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|--------------------|
| $x^{15} - 3x^{14} - 3x^{11} + 3x^9 - 3x^8 +$ $3x^7 - 3x^6 + 3x^3 - 3$ | $x^{15} - 3x^{14} + 24x^{13} + 120x^{12} + 411x^{11} +$ $2331x^{10} + 13164x^9 + 49698x^8 +$ $135180x^7 + 288792x^6 + 525384x^5 +$ $821592x^4 + 1047384x^3 + 994140x^2 +$ $602316x + 168444$ | $\left[\begin{array}{c} \frac{17}{10} \\ \frac{17}{10} \\ \frac{17}{10} \\ \frac{17}{10} \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1369}{810}$ |
| $x^{15} - 3x^{14} + 3x^{13} - 3x^{12} -$ $3x^{11} - 3x^9 + 3x^8 + 3x^7 + 3x^6 +$ $3x^3 - 3$ | $x^{15} - 3x^{14} + 113x^{12} - 807x^{11} +$ $3909x^{10} - 14660x^9 + 43767x^8 -$ $109908x^7 + 231400x^6 - 399036x^5 +$ $563130x^4 - 622885x^3 + 481575x^2 -$ $225150x + 51625$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{17}{10} \\ \frac{17}{10} \\ \frac{17}{10} \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1373}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{15} + 3x^{14} - 3x^{13} - 3x^{12} - 3x^{10} - 3x^8 + 3x^7 + 3$ | $x^{15} - 3x^{14} - 6x^{13} - 77x^{12} + 21x^{11} + 2343x^{10} + 316x^9 - 22083x^8 - 5736x^7 + 119528x^6 + 75300x^5 - 356640x^4 - 407725x^3 + 421875x^2 + 921000x + 431375$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{17}{10} \frac{17}{10} \frac{17}{10} \right]_{10}^4$ | T: 15,44 | $\frac{1373}{810}$ |
| $x^{15} - 3x^{12} + 3x^{11} + 3x^{10} + 3x^9 + 3x^8 - 3x^7 - 3$ | $x^{15} - 140x^{12} - 210x^{11} + 276x^{10} + 6370x^9 + 21420x^8 - 3360x^7 - 186340x^6 - 877608x^5 - 1937460x^4 - 2753380x^3 - 2679180x^2 + 380520x - 1284772$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{17}{10} \frac{17}{10} \frac{17}{10} \right]_{10}^4$ | T: 15,44 | $\frac{1373}{810}$ |
| $x^{15} - 3x^{13} - 3x^{10} - 3x^9 + 3x^7 - 3x^6 + 3$ | $x^{15} - 6x^{14} + 15x^{13} - 4x^{12} - 126x^{11} + 612x^{10} - 1814x^9 + 4032x^8 - 7128x^7 + 10216x^6 - 11940x^5 + 11328x^4 - 8572x^3 + 4968x^2 - 1980x + 400$ | $\left[\begin{array}{c} 17 \\ 10 \end{array} \frac{17}{10} \frac{17}{10} \frac{17}{10} \right]_{10}^4$ | T: 15,33 | $\frac{1369}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{15} + 3x^{14} + 3x^{12} + 3x^{11} -$ $3x^{10} - 3x^9 - 3x^8 - 3x^6 + 3$ | $x^{15} - 30x^{13} - 115x^{12} + 1305x^{11} -$ $2604x^{10} - 5585x^9 + 69630x^8 -$ $144555x^7 - 679445x^6 + 1922385x^5 +$ $5242845x^4 - 9978295x^3 -$ $41492820x^2 - 45632250x - 17152730$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{724}{405}$ |
| $x^{15} + 3x^{14} + 3x^{13} + 3x^{12} +$ $3x^{10} - 3x^9 - 3x^8 + 3x^6 + 3x^3 +$ 3 | $x^{15} - 75x^{13} - 270x^{12} + 435x^{11} +$ $2613x^{10} - 2550x^9 - 15225x^8 +$ $15840x^7 + 46605x^6 - 74349x^5 -$ $21870x^4 + 167115x^3 - 238140x^2 +$ $156645x - 41772$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{724}{405}$ |
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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{15} + 3x^{13} - 3x^{12} - 3x^{11} - 3x^{10} - 3x^9 + 3x^8 + 3x^3 - 3$ | $x^{15} - 90x^{13} - 200x^{12} + 2700x^{11} + 10767x^{10} - 22460x^9 - 156000x^8 + 17970x^7 + 1276760x^6 + 2507541x^5 + 1377780x^4 - 419980x^3 - 653970x^2 - 519990x + 71417$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{724}{405}$ |
| $x^{15} + 3x^{14} - 3x^{13} - 3x^{12} + 3x^{11} - 3x^{10} - 3x^8 - 3x^6 + 3$ | $x^{15} - 45x^{13} - 150x^{12} + 660x^{11} + 3423x^{10} + 900x^9 - 7440x^8 - 4950x^7 + 6195x^6 + 15390x^5 + 9900x^4 - 10755x^3 - 3645x^2 - 2970x + 3156$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{724}{405}$ |
| $x^{15} + 3x^{13} - 3x^{12} - 3x^{11} + 3x^{10} - 3x^8 - 3x^6 + 3x^3 - 3$ | $x^{15} - 45x^{13} - 170x^{12} + 720x^{11} + 12423x^{10} + 54175x^9 + 160230x^8 + 210630x^7 + 240515x^6 - 143484x^5 - 488940x^4 - 1258720x^3 - 1310775x^2 - 764685x - 62203$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{724}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{15} + 3x^{13} - 3x^{12} - 3x^{11} +$ $3x^9 + 3x^8 - 3x^3 + 3$ | $x^{15} - 120x^{13} - 360x^{12} + 3885x^{11} +$ $13587x^{10} - 66495x^9 - 199230x^8 +$ $599175x^7 + 1565850x^6 - 2831913x^5 -$ $6566445x^4 + 6430650x^3 +$ $12612555x^2 - 5832270x - 8211048$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{724}{405}$ |
| $x^{15} + 3x^{13} - 3x^{12} + 3x^{11} +$ $3x^{10} - 3x^9 + 3x^8 - 3x^6 + 3x^3 -$ 3 | $x^{15} - 15x^{13} - 5x^{12} + 90x^{11} + 60x^{10} -$ $260x^9 - 315x^8 + 225x^7 + 755x^6 +$ $738x^5 + 150x^4 - 400x^3 - 405x^2 -$ $150x - 19$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{724}{405}$ |
| $x^{15} - 3x^{14} + 3x^{13} - 3x^{11} +$ $3x^{10} + 3x^8 + 3x^6 - 3x^3 + 3$ | $x^{15} - 15x^{13} - 5x^{12} + 90x^{11} + 141x^{10} +$ $145x^9 + 540x^8 + 1125x^7 + 935x^6 +$ $108x^5 - 345x^4 - 265x^3 - 90x^2 - 15x - 1$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{724}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{15} + 3x^{13} + 3x^{11} - 3x^8 + 3x^3 + 3$ | $x^{15} - 45x^{13} - 170x^{12} + 1383x^{10} + 3295x^9 + 570x^8 - 11040x^7 - 21655x^6 - 11454x^5 + 19650x^4 + 42710x^3 + 36975x^2 + 16305x + 3023$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{724}{405}$ |
| $x^{15} + 3x^{13} - 3x^{12} - 3x^9 - 3x^8 - 3x^6 - 3x^3 - 3$ | $x^{15} - 45x^{13} - 10x^{12} - 285x^{11} - 10791x^{10} - 26585x^9 + 133725x^8 + 469950x^7 - 1257800x^6 - 9210990x^5 - 21164055x^4 - 25724005x^3 - 17689710x^2 - 6413610x - 915017$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{724}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} + 3x^{13} - 3x^{11} + 3x^{10} + 3x^9 - 3x^8 - 3x^6 - 3x^3 - 3$ | $x^{15} - 120x^{13} - 230x^{12} + 4350x^{11} + 21783x^{10} - 11195x^9 - 589695x^8 - 1551165x^7 + 1443740x^6 + 9558921x^5 + 29086890x^4 + 91220495x^3 + 129404925x^2 + 97730370x + 106226168$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{724}{405}$ |
| $x^{15} - 3x^{14} + 3x^{12} + 3x^{11} - 3x^{10} - 3x^8 - 3x^6 - 3$ | $x^{15} + 30x^{13} - 85x^{12} + 135x^{11} - 87x^{10} - 1745x^9 + 7290x^8 - 12915x^7 + 12565x^6 - 7371x^5 + 2820x^4 - 760x^3 + 135x^2 - 15x + 1$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{724}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} + 3x^{14} + 3x^{12} - 3x^8 - 3$ | $x^{15} - 90x^{13} - 365x^{12} + 2955x^{11} +$ $41856x^{10} - 93080x^9 - 1638870x^8 +$ $3623565x^7 + 26598725x^6 -$ $85832511x^5 - 73075605x^4 +$ $563501030x^3 - 829870515x^2 +$ $522010410x - 125468797$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{724}{405}$ |
| $x^{15} - 3x^{14} + 3x^{13} + 3x^{11} +$ $3x^{10} + 3x^9 + 3x^8 + 3x^3 + 3$ | $x^{15} - 15x^{13} - 35x^{12} + 228x^{10} + 400x^9 +$ $165x^8 - 960x^7 - 1930x^6 - 1878x^5 -$ $1080x^4 - 265x^3 + 75x^2 + 90x + 32$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{724}{405}$ |
| $x^{15} + 3x^{14} + 3x^{13} + 3x^{12} -$ $3x^{11} - 3x^{10} + 3x^8 - 3x^3 - 3$ | $x^{15} - 45x^{13} - 50x^{12} + 1290x^{11} +$ $13023x^{10} + 45625x^9 + 42870x^8 -$ $61350x^7 + 5285x^6 + 405426x^5 +$ $267600x^4 - 1142410x^3 + 1197675x^2 -$ $946455x + 335573$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{724}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{15} + 3x^{14} + 3x^{10} + 3x^9 - 3x^8 -$ $3x^6 + 3x^3 - 3$ | $x^{15} + 120x^{13} - 255x^{12} + 5205x^{11} -$ $21444x^{10} + 136800x^9 + 58920x^8 -$ $1242405x^7 - 725745x^6 + 393579x^5 +$ $1929825x^4 + 2674380x^3 - 209295x^2 -$ $2370330x - 948765$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{724}{405}$ |
| $x^{15} - 3x^{14} + 3x^{13} + 3x^{10} +$ $3x^9 - 3x^8 + 3x^3 - 3$ | $x^{15} + 105x^{13} - 250x^{12} + 4905x^{11} -$ $19239x^{10} + 133195x^9 - 448635x^8 +$ $1709220x^7 - 3303500x^6 +$ $6150486x^5 + 364845x^4 - 8522935x^3 +$ $5379720x^2 - 12812970x + 2809771$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{724}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{15} - 3x^{14} - 3x^{13} + 3x^{12} +$ $3x^{11} - 3x^{10} - 3x^9 - 3x^8 -$ $3x^6 - 3$ | $x^{15} - 75x^{13} - 265x^{12} + 1935x^{11} +$ $24279x^{10} - 215930x^9 + 666810x^8 -$ $1009350x^7 + 1006345x^6 - 680760x^5 +$ $797280x^4 - 390370x^3 + 21105x^2 -$ $14925x + 24208$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{724}{405}$ |
| $x^{15} + 3x^{14} + 3x^{13} - 3x^{12} +$ $3x^{10} - 3x^8 + 3x^6 - 3x^3 + 3$ | $x^{15} - 30x^{13} - 265x^{12} + 2115x^{11} -$ $6024x^{10} + 26005x^9 - 54390x^8 -$ $45465x^7 + 155185x^6 - 863745x^5 +$ $2458515x^4 - 2067595x^3 +$ $2545980x^2 + 8067150x - 21877670$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{724}{405}$ |
| $x^{15} - 3x^{12} - 3x^{11} - 3x^{10} +$ $3x^9 - 3x^8 + 3x^6 - 3$ | $x^{15} - 15x^{13} - 5x^{12} + 165x^{11} - 63x^{10} -$ $560x^9 - 1770x^8 - 1140x^7 - 715x^6 -$ $348x^5 + 180x^4 + 230x^3 + 45x^2 - 15x -$ 10 | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{724}{405}$ |
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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} + 3x^{14} - 3x^{12} + 3x^{11} -$ $3x^{10} + 3x^9 + 3x^8 + 3x^6 - 3x^3 -$ 3 | $x^{15} - 85x^{12} + 225x^{11} + 186x^{10} -$ $1535x^9 + 2670x^8 - 2085x^7 + 295x^6 +$ $489x^5 + 105x^4 - 385x^3 + 60x^2 + 90x +$ 34 | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{724}{405}$ |
| $x^{15} - 3x^{14} - 3x^{13} - 3x^{11} -$ $3x^{10} - 3x^9 + 3x^8 + 3x^3 + 3$ | $x^{15} - 30x^{13} - 350x^{12} - 270x^{11} +$ $17331x^{10} - 53765x^9 + 25815x^8 +$ $45615x^7 + 37310x^6 - 83751x^5 +$ $175110x^4 + 37775x^3 - 690045x^2 -$ $665400x + 344576$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{724}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{15} - 3x^{13} - 3x^{12} + 3x^{10} + 3x^8 - 3x^6 + 3$ | $x^{15} - 120x^{13} - 445x^{12} + 5385x^{11} +$ $28302x^{10} - 31550x^9 - 373530x^8 -$ $1901715x^7 - 7177595x^6 -$ $8577285x^5 - 32347545x^4 -$ $116268370x^3 - 35232975x^2 -$ $173633400x - 295055627$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]^{12}_5$ | T: 15,26 | $\frac{724}{405}$ |
| $x^{15} - 3x^{12} + 3x^{11} + 3x^9 + 3x^8 - 3x^6 + 3$ | $x^{15} - 15x^{12} + 9x^{10} - 30x^9 - 585x^8 -$ $2025x^7 - 4140x^6 - 5526x^5 - 4770x^4 -$ $2565x^3 - 810x^2 - 135x - 9$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]^{4}_5$ | T: 15,26 | $\frac{724}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} - 3x^{14} + 3x^{13} - 3x^{10} + 3x^8 - 3x^6 - 3x^3 + 3$ | $x^{15} - 90x^{13} - 195x^{12} + 5865x^{11} + 2166x^{10} - 178500x^9 + 27300x^8 + 5079465x^7 - 14689185x^6 - 29628549x^5 + 224302635x^4 - 462451410x^3 + 446746545x^2 - 203713650x + 35153391$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{724}{405}$ |
| $x^{15} + 3x^{14} + 3x^{11} + 3x^8 + 3x^6 + 3x^3 + 3$ | $x^{15} - 225x^{12} - 360x^{11} - 4788x^{10} + 14460x^9 + 450x^8 - 130050x^7 + 1778715x^6 - 36783x^5 + 272880x^4 - 145125x^3 + 18900x^2 - 11340x + 2520$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{724}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} - 3x^{13} - 3x^{12} - 3x^{11} - 3x^8 + 3x^6 - 3$ | $x^{15} - 120x^{13} - 270x^{12} + 3390x^{11} + 12132x^{10} - 14190x^9 - 145155x^8 - 319995x^7 + 13365x^6 - 220608x^5 + 318375x^4 - 402060x^3 + 177120x^2 - 25560x + 1968$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{724}{405}$ |
| $x^{15} - 3x^{13} + 3x^{10} - 3x^9 + 3x^8 + 3$ | $x^{15} + 105x^{11} - 1377x^{10} + 1995x^9 - 735x^8 - 2205x^7 + 47985x^6 - 94788x^5 + 62685x^4 - 190365x^3 - 6615x^2 + 161910x + 109920$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{724}{405}$ |
| $x^{15} + 3x^{12} + 3x^{11} + 3x^9 - 3x^8 - 3x^6 - 3x^3 - 3$ | $x^{15} - 30x^{13} - 5x^{12} + 585x^{11} - 948x^{10} - 2915x^9 + 9300x^8 - 8745x^7 + 21455x^6 - 65571x^5 + 53565x^4 + 36815x^3 - 34890x^2 - 22800x - 3328$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{724}{405}$ |
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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} + 3x^{13} + 3x^{12} + 3x^{10} - 3x^9 - 3x^8 - 3x^6 - 3$ | $x^{15} - 75x^{13} - 105x^{12} + 600x^{11} - 3267x^{10} - 16140x^9 - 13395x^8 - 28170x^7 - 23745x^6 - 38799x^5 - 51885x^4 - 23775x^3 - 37170x^2 - 13680x - 29208$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{724}{405}$ |
| $x^{15} - 3x^{14} + 3x^{13} - 3x^{12} - 3x^{10} + 3x^9 - 3x^8 - 3x^6 - 3$ | $x^{15} - 120x^{13} - 665x^{12} + 1035x^{11} + 18441x^{10} - 45215x^9 - 1485150x^8 - 10992525x^7 - 48050065x^6 - 142138725x^5 - 294404610x^4 - 421724620x^3 - 391762275x^2 - 206993625x - 43628983$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{724}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} - 90x^{13} - 570x^{12} + 300x^{11} + 23205x^{10} + 94365x^9 - 115935x^8 - 1461825x^7 - 3861540x^6 - 9624141x^5 + 14369130x^4 + 241109955x^3 + 362546235x^2 - 1007906310x - 2205218688$ | $x^{15} - 90x^{13} - 570x^{12} + 300x^{11} + 23205x^{10} + 94365x^9 - 115935x^8 - 1461825x^7 - 3861540x^6 - 9624141x^5 + 14369130x^4 + 241109955x^3 + 362546235x^2 - 1007906310x - 2205218688$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{724}{405}$ |
| $x^{15} - 3x^{14} + 3x^{12} + 3x^{11} + 3x^9 + 3x^8 - 3x^6 - 3x^3 + 3$ | $x^{15} - 15x^{13} - 35x^{12} + 93x^{10} + 55x^9 - 150x^8 - 465x^7 - 10x^6 - 708x^5 - 1890x^4 - 1720x^3 - 825x^2 - 225x - 25$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{724}{405}$ |
| $x^{15} - 3x^{12} + 3x^{11} + 3x^8 + 3x^6 + 3$ | $x^{15} + 15x^{13} - 5x^{12} + 135x^{11} + 411x^{10} + 1060x^9 + 375x^8 - 13575x^7 - 56650x^6 - 142356x^5 - 265725x^4 - 358735x^3 - 325470x^2 - 177165x - 43999$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{724}{405}$ |
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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|---------------------|
| $x^{15} + 3x^{14} + 3x^{13} + 3x^{12} +$ $3x^{11} + 3x^{10} - 3x^9 - 3x^8 +$ $3x^6 - 3$ | $x^{15} - 15x^{13} - 5x^{12} + 30x^{11} + 123x^{10} +$ $235x^9 - 240x^8 - 1365x^7 - 1690x^6 -$ $708x^5 + 5400x^4 + 11750x^3 + 9315x^2 +$ $6495x + 3977$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{724}{405}$ |
| $x^{15} - 3x^{14} + 3x^{13} - 3x^{12} +$ $3x^{10} - 3x^8 - 3$ | $x^{15} - 15x^{13} - 55x^{12} - 180x^{11} - 411x^{10} -$ $635x^9 - 810x^8 - 5895x^7 - 9800x^6 -$ $8172x^5 - 5730x^4 - 2800x^3 - 765x^2 -$ $285x - 41$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{724}{405}$ |
| $x^{15} + 3x^{14} + 3x^{13} - 3x^{12} -$ $3x^{11} + 3x^{10} + 3x^6 - 3x^3 - 3$ | $x^{15} - 105x^{13} - 735x^{12} - 5670x^{11} -$ $34371x^{10} - 334005x^9 - 2092230x^8 -$ $4103505x^7 - 4445280x^6 -$ $159142356x^5 - 1221930360x^4 -$ $4079897640x^3 - 7173495945x^2 -$ $6600030255x - 2540619045$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|---------------------|
| $x^{15} + 3x^{11} + 3x^{10} - 3x^9 + 3x^6 - 3x^3 + 3$ | $x^{15} + 15x^{13} - 80x^{12} + 2940x^{10} - 9065x^9 - 24255x^8 + 28665x^7 + 89915x^6 + 521703x^5 - 468195x^4 - 2426725x^3 + 1296540x^2 - 1872780x + 1503026$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} + 3x^{14} + 12x^{13} + 12x^{12} - 6x^{11} + 3x^{10} + 9x^9 - 9x^8 - 9x^7 + 12x^6 + 9x^4 - 12x^3 - 9x^2 - 12$ | $x^{15} - 90x^{13} - 105x^{12} - 1275x^{11} - 17193x^{10} - 167865x^9 - 637920x^8 - 1107405x^7 + 1089375x^6 + 1472949x^5 - 35201790x^4 - 190524450x^3 - 431786835x^2 - 529819335x - 239083557$ | $\left[\begin{array}{c} \frac{7}{5} \quad \frac{7}{5} \quad \frac{7}{5} \quad \frac{7}{5} \\ \frac{7}{5} \quad \frac{7}{5} \quad \frac{7}{5} \quad \frac{7}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{728}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|---------------------|
| $x^{15} + 6x^{14} - 6x^{13} - 9x^{12} - 6x^{11} + 6x^{10} + 9x^8 - 9x^6 - 9x^5 - 9x^4 + 9x^3 - 9x + 12$ | $x^{15} - 105x^{13} - 890x^{12} + 9825x^{11} + 82467x^{10} - 711335x^9 - 1617705x^8 + 22554360x^7 - 56094100x^6 + 110309166x^5 - 342408585x^4 + 364303925x^3 - 520500750x^2 + 340121250x - 44366875$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} - 3x^{14} + 3x^{13} + 3x^{12} - 3x^{11} - 3x^{10} - 3x^9 - 3x^6 + 3x^3 - 3$ | $x^{15} + 15x^{13} - 425x^{12} + 5835x^{11} - 23829x^{10} - 2270x^9 + 471150x^8 - 1756080x^7 + 1405595x^6 + 2063970x^5 - 609540x^4 - 1718860x^3 - 2076105x^2 - 2081235x - 177802$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} - 3x^{14} - 3x^{12} + 3x^{11} + 3x^{10} + 3x^6 + 3$ | $x^{15} - 5x^{12} + 30x^{10} + 10x^9 - 180x^8 + 1100x^6 - 3672x^5 + 6840x^4 - 8680x^3 + 7200x^2 - 3360x + 656$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| Continued on next page | | | | |

Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|---------------------|
| $x^{15} + 6x^{14} - 6x^{12} + 9x^{11} +$ $12x^{10} - 9x^9 + 9x^8 + 9x^7 -$ $9x^6 + 6x^3 + 9x + 6$ | $x^{15} - 15x^{13} - 5x^{12} + 90x^{11} + 789x^{10} +$ $3385x^9 + 7020x^8 + 7605x^7 + 4175x^6 +$ $756x^5 - 345x^4 - 265x^3 - 90x^2 - 15x - 1$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} + 3x^{14} + 9x^{12} + 9x^{11} +$ $3x^{10} + 6x^9 + 9x^5 - 9x^2 + 9x -$ 12 | $x^{15} - 105x^{13} - 210x^{12} + 735x^{11} +$ $561x^{10} - 58065x^9 - 281295x^8 +$ $56385x^7 + 1313235x^6 - 221832x^5 -$ $61080075x^4 - 203454510x^3 -$ $409389435x^2 - 237671910x -$ 80428440 | $\left[\begin{array}{c} \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{728}{405}$ |
| $x^{15} - 3x^{13} + 3x^{12} + 3x^{11} -$ $3x^{10} + 3x^9 + 3$ | $x^{15} - 30x^{13} - 145x^{12} - 15x^{11} + 915x^{10} +$ $1165x^9 - 1350x^8 - 4365x^7 - 3215x^6 +$ $6201x^5 + 11400x^4 - 700x^3 - 8295x^2 -$ $17355x + 15991$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|---------------------|
| $x^{15} - 3x^{14} + 3x^{13} - 3x^{10} +$ $3x^6 - 3x^3 - 3$ | $x^{15} - 45x^{13} - 10x^{12} + 870x^{11} + 540x^{10} -$ $9125x^9 - 10260x^8 + 52200x^7 +$ $91300x^6 - 131427x^5 - 385290x^4 -$ $48205x^3 + 588030x^2 + 622980x +$ 202504 | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} + 3x^{14} - 3x^{11} + 3x^{10} +$ $3x^9 + 3x^3 - 3$ | $x^{15} - 105x^{13} - 330x^{12} - 1725x^{11} -$ $25683x^{10} - 158895x^9 - 525915x^8 -$ $1626930x^7 - 9816960x^6 -$ $38522286x^5 - 26694585x^4 +$ $24664015x^3 + 767273850x^2 +$ $875769300x + 357056259$ | $\left[\begin{array}{c} \frac{7}{5} \quad \frac{7}{5} \quad \frac{7}{5} \quad \frac{7}{5} \\ \frac{7}{5} \quad \frac{7}{5} \quad \frac{7}{5} \quad \frac{7}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{728}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|---------------------|
| $x^{15} + 6x^{13} - 6x^{12} - 12x^{11} +$ $3x^{10} + 6x^9 + 9x^8 - 9x^7 + 9x^6 -$ $9x^5 + 9x^4 - 12x^3 + 9x^2 - 9x + 6$ | $x^{15} - 105x^{13} - 365x^{12} + 18735x^{11} -$ $140691x^{10} + 374470x^9 + 877770x^8 -$ $12006900x^7 + 50057495x^6 -$ $119252052x^5 + 182182560x^4 -$ $183568390x^3 + 118655985x^2 -$ $44653785x + 7506596$ | $\left[\frac{9}{5} \frac{9}{5} \frac{9}{5} \frac{9}{5} \frac{9}{5} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} + 3x^{14} + 3x^{13} + 3x^{12} -$ $3x^{10} + 3x^6 + 3$ | $x^{15} - 25x^{12} - 15x^{11} - 81x^{10} + 10x^9 -$ $225x^8 + 225x^7 - 50x^6 + 81x^5 - 810x^4 -$ $490x^3 + 2730x^2 - 2700x + 709$ | $\left[\frac{7}{5} \frac{7}{5} \frac{7}{5} \frac{7}{5} \frac{7}{5} \right]_5^4$ | T: 15,36 | $\frac{728}{405}$ |
| $x^{15} + 3x^{13} - 3x^{12} - 3x^{11} +$ $3x^{10} + 3x^3 - 3$ | $x^{15} - 105x^{13} - 175x^{12} + 4305x^{11} +$ $17151x^{10} - 24395x^9 - 165690x^8 -$ $32760x^7 - 1031555x^6 - 7934166x^5 -$ $4915995x^4 + 44056040x^3 +$ $62406120x^2 - 66735480x - 125062064$ | $\left[\frac{7}{5} \frac{7}{5} \frac{7}{5} \frac{7}{5} \frac{7}{5} \right]_5^4$ | T: 15,36 | $\frac{728}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|---------------------|
| $x^{15} - 3x^{14} + 3x^{12} + 3x^{11} +$ $3x^{10} + 3x^6 + 3x^3 - 3$ | $x^{15} - 45x^{13} - 65x^{12} + 630x^{11} +$ $1650x^{10} - 2780x^9 - 14400x^8 -$ $7740x^7 + 42920x^6 + 83088x^5 +$ $15120x^4 - 125560x^3 - 180720x^2 -$ $108480x - 25552$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} - 6x^{13} - 3x^{12} + 9x^{11} -$ $12x^{10} + 6x^9 - 12x^6 - 9x^5 +$ $12x^3 + 9x^2 - 6$ | $x^{15} + 15x^{13} - 35x^{12} + 120x^{11} - 441x^{10} -$ $245x^9 - 2970x^8 - 2925x^7 - 8440x^6 -$ $24552x^5 - 34620x^4 - 26800x^3 -$ $12135x^2 - 3105x - 349$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|---------------------|
| $x^{15} - 3x^{14} + 3x^{13} + 3x^{12} +$ $3x^{11} + 3x^{10} + 3x^9 - 3x^6 +$ $3x^3 + 3$ | $x^{15} - 12x^{14} - 30x^{13} + 1040x^{12} -$ $2838x^{11} - 44904x^{10} + 479800x^9 -$ $2294208x^8 + 6292737x^7 -$ $8999036x^6 - 400314x^5 +$ $28988880x^4 - 59869588x^3 +$ $62186064x^2 - 34405752x + 8083072$ | $\left[\begin{array}{c} 4 \\ 2 \end{array} \right]_5$ | T: 15,1 | $\frac{8}{5}$ |
| $x^{15} + 3x^{14} - 3x^{12} + 3x^{11} -$ $3x^{10} - 3x^9 - 3x^3 - 3$ | $x^{15} - 10x^{12} - 15x^{11} - 51x^{10} - 155x^9 -$ $315x^8 - 495x^7 - 935x^6 - 1431x^5 -$ $1125x^4 - 220x^3 + 75x^2 - 15x + 1$ | $\left[\begin{array}{ccc} \frac{9}{5} & \frac{9}{5} & \frac{9}{5} \\ \frac{9}{5} & \frac{9}{5} & \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|---------------------|
| $x^{15} - 3x^{14} + 3x^{13} + 3x^{11} + 3x^{10} + 3x^9 + 3$ | $x^{15} - 120x^{13} - 215x^{12} + 6885x^{11} + 24312x^{10} - 150425x^9 - 856170x^8 + 206505x^7 + 7013195x^6 + 4613985x^5 - 19595625x^4 + 15635375x^3 + 141923250x^2 + 164408550x + 59057450$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} + 12x^{14} + 12x^{12} + 12x^{11} + 12x^{10} - 6x^9 - 3x^6 - 9x^5 - 9x^3 + 9x^2 + 9x + 6$ | $x^{15} - 105x^{13} - 595x^{12} - 1680x^{11} + 27231x^{10} + 429835x^9 + 2298240x^8 + 6145965x^7 - 2341640x^6 - 101090502x^5 - 363191010x^4 - 457215640x^3 + 679636965x^2 - 253943445x + 30402301$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|---------------------|
| $x^{15} + 3x^{14} - 3x^{13} - 3x^{12} +$ $3x^{11} - 3x^{10} + 3x^9 - 3x^6 -$ $3x^3 - 3$ | $x^{15} - 120x^{13} - 95x^{12} + 4935x^{11} +$ $6471x^{10} - 82580x^9 - 102015x^8 +$ $818730x^7 + 82925x^6 - 6026211x^5 +$ $14694105x^4 - 16949590x^3 +$ $9247200x^2 - 685575x - 1166200$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} + 3x^{14} + 3x^{13} + 3x^{10} +$ $3x^6 - 3x^3 + 3$ | $x^{15} + 75x^{13} - 170x^{12} + 1590x^{11} -$ $5466x^{10} - 14945x^9 - 18225x^8 +$ $175905x^7 + 320915x^6 - 412506x^5 -$ $1159995x^4 - 440725x^3 + 626700x^2 +$ $627375x + 171125$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|---------------------|
| $x^{15} + 12x^{14} + 12x^{13} + 3x^{12} -$ $9x^{11} + 3x^{10} + 9x^9 - 9x^8 - 9x^7 -$ $3x^6 - 9x^5 - 3x^3 - 9x^2 + 9x + 6$ | $x^{15} - 45x^{13} - 80x^{12} + 495x^{11} +$ $2529x^{10} + 3745x^9 - 10170x^8 -$ $55080x^7 - 171010x^6 - 257040x^5 -$ $169875x^4 - 227035x^3 - 186075x^2 -$ $47880x - 892$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} - 3x^{13} + 3x^{12} + 3x^{10} -$ $3x^3 - 3$ | $x^{15} - 105x^{13} - 735x^{12} -$ $1050x^{11} + 10569x^{10} - 2415x^9 -$ $424620x^8 - 1779435x^7 + 476070x^6 +$ $13563198x^5 - 33868800x^4 -$ $310452450x^3 - 572440365x^2 +$ $451735515x - 136861941$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|---------------------|
| $x^{15} + 3x^{14} - 3x^{13} - 3x^{11} +$ $3x^{10} - 3x^9 + 3x^6 - 3x^3 + 3$ | $x^{15} - 75x^{13} - 105x^{12} + 2850x^{11} +$ $12720x^{10} - 28965x^9 - 449910x^8 -$ $1960020x^7 - 4911075x^6 -$ $7648578x^5 - 6375015x^4 + 661515x^3 +$ $8362710x^2 + 8876700x + 3314028$ | $\left[\begin{array}{c} \frac{6}{5} \quad \frac{6}{5} \quad \frac{6}{5} \quad \frac{6}{5} \\ \frac{6}{5} \quad \frac{6}{5} \quad \frac{6}{5} \quad \frac{6}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2104}{1215}$ |
| $x^{15} + 3x^{14} - 3x^{13} + 3x^{12} -$ $3x^{11} + 3x^{10} + 3x^6 - 3x^3 + 3$ | $x^{15} - 105x^{13} - 160x^{12} + 3840x^{11} +$ $11988x^{10} - 17765x^9 - 15120x^8 +$ $65430x^7 - 2085620x^6 - 8846955x^5 -$ $27314970x^4 - 140742895x^3 -$ $442473330x^2 - 632680200x -$ 335693354 | $\left[\begin{array}{c} \frac{7}{5} \quad \frac{7}{5} \quad \frac{7}{5} \quad \frac{7}{5} \\ \frac{7}{5} \quad \frac{7}{5} \quad \frac{7}{5} \quad \frac{7}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{728}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|---------------------|
| $x^{15} - 6x^{14} + 9x^{13} + 6x^{12} -$ $12x^{10} - 12x^9 - 9x^8 + 6x^6 -$ $9x^5 + 9x^4 - 9x^2 - 6$ | $x^{15} - 15x^{13} - 15x^{12} - 30x^{11} - 21x^{10} +$ $165x^9 + 90x^8 - 225x^7 - 450x^6 -$ $1080x^5 - 1890x^4 - 690x^3 + 4095x^2 +$ $6255x + 2613$ | $\left[\begin{array}{c} \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{2}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{728}{405}$ |
| $x^{15} - 3x^{14} + 3x^{11} - 3x^{10} +$ $3x^9 + 3x^6 + 3x^3 - 3$ | $x^{15} - 85x^{12} + 45x^{11} + 111x^{10} + 1480x^9 -$ $2835x^8 - 3420x^7 + 3475x^6 + 19215x^5 -$ $34155x^4 + 20210x^3 - 3870x^2 - 195x - 2$ | $\left[\begin{array}{c} \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{2}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{728}{405}$ |
| $x^{15} + 9x^{14} + 9x^{13} - 3x^{12} +$ $9x^{11} - 6x^{10} - 6x^9 - 9x^7 - 3x^6 +$ $9x^5 + 9x^4 - 3x^3 + 9x^2 - 12$ | $x^{15} - 120x^{13} - 25x^{12} + 7815x^{11} +$ $12723x^{10} - 251645x^9 - 715140x^8 +$ $3752865x^7 + 14355655x^6 -$ $22480839x^5 - 109606530x^4 +$ $68116760x^3 + 270139485x^2 -$ $692041845x - 1302135785$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{2}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|---------------------|
| $x^{15} + 3x^{14} - 12x^{13} - 12x^{12} -$ $9x^{11} + 3x^{10} - 9x^9 + 9x^6 - 9x^5 -$ $6x^3 + 9x^2 + 9x + 6$ | $x^{15} - 105x^{13} - 70x^{12} + 4410x^{11} +$ $7350x^{10} - 90650x^9 - 246960x^8 +$ $833490x^7 + 3615220x^6 - 1663893x^5 -$ $26615085x^4 - 45655015x^3 -$ $21176820x^2 + 13109460x + 11563216$ | $\left[\frac{9}{5} \frac{9}{5} \frac{9}{5} \frac{9}{5} \frac{9}{5} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} - 9x^{14} - 9x^{13} - 9x^{12} -$ $6x^{11} + 6x^{10} + 9x^9 - 9x^8 - 9x^7 -$ $9x^6 + 9x^5 + 9x^4 - 9x^3 + 9x^2 +$ 12 | $x^{15} + 15x^{13} - 25x^{12} + 90x^{11} - 201x^{10} -$ $125x^9 - 1980x^8 - 2025x^7 - 3590x^6 -$ $5832x^5 - 1110x^4 - 4480x^3 + 9765x^2 +$ $2265x + 6445$ | $\left[\frac{9}{5} \frac{9}{5} \frac{9}{5} \frac{9}{5} \frac{9}{5} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} + 3x^{14} - 3x^{12} + 3x^{10} -$ $3x^9 - 3$ | $x^{15} - 35x^{12} + 105x^{11} + 351x^{10} -$ $1820x^9 + 21105x^8 - 36540x^7 +$ $35630x^6 - 262782x^5 + 2169405x^4 -$ $8300635x^3 + 10006185x^2 -$ $7221690x - 16944376$ | $\left[\frac{7}{5} \frac{7}{5} \frac{7}{5} \frac{7}{5} \frac{7}{5} \right]_5^4$ | T: 15,36 | $\frac{728}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|---------------------|
| $x^{15} - 3x^{14} - 3x^{13} - 3x^{11} + 3x^{10} - 3x^6 - 3x^3 - 3$ | $x^{15} - 15x^{13} - 5x^{12} + 90x^{11} + 96x^{10} - 65x^9 + 90x^8 + 540x^7 + 440x^6 - 297x^5 - 615x^4 + 5x^3 + 225x^2 - 330x - 304$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} + 9x^{14} - 6x^{13} + 3x^{12} - 3x^{11} - 12x^{10} + 6x^9 + 9x^6 + 9x^5 - 9x^3 - 9x^2 + 9x - 6$ | $x^{15} - 105x^{13} - 680x^{12} + 1915x^{11} - 106041x^{10} + 191245x^9 + 248715x^8 - 2797560x^7 + 3621770x^6 - 512172x^5 - 16606065x^4 + 18082115x^3 - 15684690x^2 - 11041080x - 1604191$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} - 3x^{14} + 3x^{13} + 3x^{10} - 3x^3 + 3$ | $x^{15} - 15x^{13} - 10x^{12} + 90x^{11} + 90x^{10} - 215x^9 - 225x^8 + 135x^7 - 65x^6 - 27x^5 + 705x^4 + 395x^3 - 360x^2 - 180x + 46$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|---------------------|
| $x^{15} - 3x^{12} + 3x^{11} + 3x^{10} +$ $3x^6 - 3x^3 + 3$ | $x^{15} - 15x^{13} - 40x^{12} - 105x^{11} - 201x^{10} -$ $215x^9 - 225x^8 + 135x^7 - 335x^6 -$ $2070x^5 - 2805x^4 - 5710x^3 - 5055x^2 -$ $3000x - 1088$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} + 3x^{14} - 3x^{13} - 3x^{12} +$ $3x^{11} - 3x^{10} + 3x^9 + 3x^6 - 3$ | $x^{15} - 120x^{13} - 145x^{12} + 5175x^{11} +$ $10491x^{10} - 92600x^9 - 230175x^8 +$ $862920x^7 + 1587745x^6 - 6402771x^5 -$ $569775x^4 + 20587130x^3 -$ $30430350x^2 + 19401045x - 4888430$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|---------------------|
| $x^{15} + 3x^{14} - 6x^{13} + 12x^{12} +$ $3x^{10} + 3x^9 + 9x^7 + 3x^6 - 9x^5 -$ $9x^4 - 3x^3 - 9x^2 + 9x + 6$ | $x^{15} - 90x^{13} - 420x^{12} - 4635x^{11} +$ $58302x^{10} - 365055x^9 + 2221650x^8 -$ $10475505x^7 + 55699560x^6 -$ $343213155x^5 + 1560553560x^4 -$ $4533775740x^3 + 8141796540x^2 -$ $8320124655x + 3701424294$ | $\left[\begin{array}{ccc} \frac{9}{5} & \frac{9}{5} & \frac{9}{5} \\ \frac{9}{5} & \frac{9}{5} & \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} + 6x^{14} + 12x^{13} - 3x^{12} +$ $12x^{11} + 12x^{10} - 12x^9 + 9x^8 +$ $9x^7 - 9x^6 + 9x^4 - 12x^3 - 9x^2 -$ $9x + 6$ | $x^{15} + 30x^{13} - 95x^{12} + 165x^{11} - 357x^{10} +$ $55x^9 + 5670x^8 - 17775x^7 + 22745x^6 -$ $19251x^5 + 13290x^4 - 4630x^3 - 165x^2 +$ $555x - 313$ | $\left[\begin{array}{ccc} \frac{6}{5} & \frac{6}{5} & \frac{6}{5} \\ \frac{6}{5} & \frac{6}{5} & \frac{6}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2104}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|---------------------|
| $x^{15} + 3x^{14} + 3x^{13} + 3x^{12} +$ $3x^{11} + 3x^{10} + 3x^9 + 3x^6 + 3x^3 +$ 3 | $x^{15} - 135x^{13} - 40x^{12} + 7365x^{11} +$ $4941x^{10} - 203315x^9 - 218655x^8 +$ $3153285x^7 + 5698945x^6 -$ $27953460x^5 - 74719935x^4 +$ $181042640x^3 + 384618405x^2 -$ $922056660x + 310217968$ | $\left[\begin{array}{c} \frac{6}{5} \\ \frac{6}{5} \\ \frac{6}{5} \\ \frac{6}{5} \\ \frac{6}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2104}{1215}$ |
| $x^{15} + 3x^{14} + 3x^{12} + 3x^{11} +$ $3x^{10} - 3x^6 - 3x^3 + 3$ | $x^{15} - 150x^{13} - 455x^{12} + 3375x^{11} +$ $9081x^{10} - 2570x^9 - 128025x^8 -$ $871920x^7 + 5845445x^6 -$ $11136015x^5 + 4443495x^4 +$ $14454080x^3 - 25721820x^2 +$ $18098055x - 5283022$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} - 3x^{14} - 9x^{13} - 9x^{12} +$ $6x^{11} + 12x^{10} - 12x^9 + 9x^8 +$ $3x^6 + 9x^5 - 6x^3 - 9x^2 - 9x + 6$ | $x^{15} - 75x^{13} - 325x^{12} + 1965x^{11} +$ $27279x^{10} - 229700x^9 + 543690x^8 +$ $384750x^7 - 2831915x^6 - 881460x^5 +$ $10555260x^4 + 2332700x^3 -$ $24905175x^2 - 3856275x + 28684948$ | $\left[\frac{7}{5} \frac{7}{5} \frac{7}{5} \frac{7}{5} \frac{7}{5} \right]_5^4$ | T: 15,36 | $\frac{728}{405}$ |
| $x^{15} - 3x^{12} - 3x^{10} - 3x^9 + 3x^6 -$ 3 | $x^{15} - 330x^{12} + 4815x^{11} - 40770x^{10} +$ $161055x^9 - 452610x^8 + 1189215x^7 -$ $3047220x^6 + 5853393x^5 -$ $6859890x^4 + 4128480x^3 - 954450x^2 -$ $157275x + 135774$ | $\left[\frac{7}{5} \frac{7}{5} \frac{7}{5} \frac{7}{5} \frac{7}{5} \right]_5^4$ | T: 15,36 | $\frac{728}{405}$ |
| $x^{15} - 3x^{13} - 3x^{12} + 3x^{10} +$ $3x^9 + 3x^6 + 3$ | $x^{15} - 5x^{12} + 45x^{11} - 15x^{10} + 10x^9 -$ $135x^8 + 450x^7 - 280x^6 - 468x^5 +$ $765x^4 - 535x^3 + 180x^2 - 30x + 2$ | $\left[\frac{7}{5} \frac{7}{5} \frac{7}{5} \frac{7}{5} \frac{7}{5} \right]_5^4$ | T: 15,36 | $\frac{728}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|---------------------|
| $x^{15} + 3x^{14} + 3x^{13} + 9x^{12} +$ $9x^{11} + 12x^{10} + 9x^9 + 9x^7 +$ $3x^6 - 9x^5 + 6x^3 + 9x^2 + 6$ | $x^{15} + 45x^{13} - 565x^{12} + 1890x^{11} -$ $19161x^{10} + 162445x^9 - 731610x^8 +$ $3427065x^7 - 18819260x^6 +$ $81071100x^5 - 230149440x^4 +$ $366966740x^3 - 216146205x^2 -$ $72227835x + 34036069$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} + 3x^{13} - 3x^{11} + 3x^{10} +$ $3x^9 - 3x^6 - 3x^3 - 3$ | $x^{15} - 105x^{13} - 140x^{12} + 4410x^{11} +$ $14946x^{10} - 39935x^9 - 153405x^8 +$ $685125x^7 + 3070340x^6 - 1405161x^5 -$ $28548030x^4 - 68781685x^3 -$ $79860375x^2 - 48508530x - 12318307$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|---------------------|
| $x^{15} + 3x^{13} - 3x^{11} - 3x^{10} -$ $3x^9 - 3x^3 - 3$ | $x^{15} - 120x^{13} - 150x^{12} + 4200x^{11} +$ $1929x^{10} - 77085x^9 + 70200x^8 +$ $787860x^7 - 1757220x^6 - 3005046x^5 +$ $13380165x^4 - 8337000x^3 -$ $25638120x^2 + 33661080x - 32497584$ | $\left[\begin{array}{c} \frac{7}{5} \quad \frac{7}{5} \quad \frac{7}{5} \quad 2 \\ \frac{5} \quad \frac{5} \quad \frac{5} \quad 5 \end{array} \right]_5^4$ | T: 15,36 | $\frac{728}{405}$ |
| $x^{15} + 12x^{14} - 6x^{13} + 3x^{12} -$ $6x^{11} - 6x^{10} - 12x^9 + 9x^7 +$ $12x^6 - 9x^5 - 9x^4 + 6x^3 - 12$ | $x^{15} - 3186x^{10} - 49527x^5 - 28125$ | $\left[\begin{array}{c} 2 \\ \frac{5} \end{array} \right]_5^4$ | T: 15,1 | $\frac{8}{5}$ |
| $x^{15} + 12x^{14} - 3x^{13} + 9x^{12} +$ $9x^{11} + 6x^{10} - 12x^9 + 9x^8 +$ $9x^7 + 9x^4 - 12x^3 + 9x^2 + 9x - 6$ | $x^{15} - 330x^{12} + 1200x^{11} -$ $6186x^{10} - 7065x^9 + 135630x^8 -$ $597915x^7 + 1291470x^6 - 1716669x^5 +$ $1554840x^4 - 1029705x^3 + 452970x^2 -$ $117720x + 10632$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad 2 \\ \frac{5} \quad \frac{5} \quad \frac{5} \quad 5 \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|---------------------|
| $x^{15} + 6x^{14} + 12x^{13} - 6x^{12} +$ $6x^{11} + 6x^{10} + 6x^9 - 9x^7 +$ $12x^6 - 9x^5 - 9x^4 - 12x^3 +$ $9x^2 - 9x - 6$ | $x^{15} - 105x^{13} - 290x^{12} + 3780x^{11} +$ $20778x^{10} + 7555x^9 - 47700x^8 +$ $118530x^7 - 3072250x^6 -$ $21994335x^5 - 53937750x^4 -$ $143237635x^3 - 602079840x^2 -$ $1354632180x - 1083830656$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} - 3x^{14} - 3x^{13} + 3x^{11} +$ $3x^{10} - 3x^9 + 3x^6 - 3x^3 + 3$ | $x^{15} - 135x^{13} - 50x^{12} + 7560x^{11} +$ $2520x^{10} - 208715x^9 - 107640x^8 +$ $3300390x^7 + 2091140x^6 -$ $31434273x^5 - 22208310x^4 +$ $213136025x^3 + 32352210x^2 -$ $849976200x + 791674052$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|---------------------|
| $x^{15} + 3x^{14} + 9x^{13} - 6x^{12} + 6x^{11} + 3x^{10} + 3x^9 + 9x^7 + 12x^6 + 9x^5 + 9x^4 + 6x^3 - 9x - 12$ | $x^{15} - 15x^{13} - 30x^{12} - 225x^{11} - 981x^{10} - 1905x^9 - 4095x^8 - 11925x^7 - 31095x^6 - 61812x^5 - 73575x^4 - 41670x^3 - 2565x^2 + 1890x - 720$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} - 3x^{11} - 3x^{10} + 3x^9 - 3$ | $x^{15} - 150x^{13} - 450x^{12} + 3240x^{11} + 591x^{10} - 30270x^9 + 116460x^8 - 695880x^7 + 1923720x^6 - 2114595x^5 + 1882530x^4 - 2704020x^3 - 34611480x^2 + 97786800x - 104301867$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} - 3x^{12} + 3x^{10} + 3x^9 - 3$ | $x^{15} - 15x^{13} - 60x^{12} - 105x^{11} + 39x^{10} + 405x^9 + 495x^8 + 315x^7 + 285x^6 - 450x^5 - 1845x^4 - 2010x^3 - 675x^2 + 180x - 12$ | $\left[\begin{array}{c} \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{728}{405}$ |
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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|---------------------|
| $x^{15} - 3x^{14} + 3x^{13} + 3x^{11} -$ $3x^{10} - 3x^9 - 3x^6 - 3x^3 + 3$ | $x^{15} - 220x^{12} + 4305x^{11} - 37350x^{10} +$ $126055x^9 - 268470x^8 + 509085x^7 -$ $412790x^6 - 1589337x^5 + 985410x^4 +$ $2384360x^3 + 1362450x^2 + 374175x +$ 45934 | $\left[\begin{array}{c} \frac{6}{5} \quad \frac{6}{5} \quad \frac{6}{5} \quad \frac{6}{5} \\ \frac{6}{5} \quad \frac{6}{5} \quad \frac{6}{5} \quad \frac{6}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2104}{1215}$ |
| $x^{15} + 6x^{14} - 9x^{13} - 3x^{12} -$ $3x^{11} - 12x^{10} + 3x^9 - 9x^8 +$ $12x^6 + 9x^5 - 9x^4 - 6$ | $x^{15} - 120x^{13} - 505x^{12} + 4185x^{11} +$ $37734x^{10} + 61645x^9 - 395280x^8 -$ $2719395x^7 - 8625995x^6 -$ $11924721x^5 - 1707285x^4 +$ $3349745x^3 + 29469330x^2 -$ $25754880x + 5732680$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|---------------------|
| $x^{15} + 12x^{14} - 9x^{13} - 6x^{12} -$ $3x^{11} - 12x^{10} + 9x^9 + 9x^7 -$ $12x^6 + 9x^5 - 9x^4 - 3x^3 - 9x^2 +$ $9x + 12$ | $x^{15} - 45x^{12} + 75x^{11} + 6x^{10} + 30x^9 -$ $135x^8 + 45x^7 + 855x^6 - 1377x^5 +$ $315x^4 + 990x^3 - 945x^2 + 315x - 15$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} + 3x^{14} - 3x^{13} + 3x^{12} +$ $3x^{10} - 3x^9 - 3x^6 - 3x^3 + 3$ | $x^{15} - 90x^{13} - 155x^{12} + 3465x^{11} +$ $16884x^{10} - 120575x^9 - 487620x^8 +$ $3271185x^7 + 1526255x^6 -$ $22492395x^5 + 7933995x^4 -$ $613112965x^3 + 5156879670x^2 -$ $14073919200x + 13097601380$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|---------------------|
| $x^{15} - 3x^{14} - 3x^{13} - 3x^{12} -$ $3x^{11} + 3x^{10} - 3$ | $x^{15} - 105x^{13} - 680x^{12} + 10875x^{11} +$ $47397x^{10} - 913985x^9 + 2248605x^8 +$ $20978100x^7 - 195291340x^6 +$ $802294866x^5 - 1969362795x^4 +$ $2963699255x^3 - 2347376430x^2 -$ $4696230x + 998672927$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} - 12x^{13} - 9x^{12} - 9x^{11} -$ $3x^{10} + 3x^9 + 9x^8 - 9x^7 + 9x^5 -$ $9x^4 - 3x^3 - 9x^2 - 9x + 12$ | $x^{15} - 15x^{13} - 45x^{12} - 180x^{11} -$ $351x^{10} + 135x^9 + 630x^8 - 5175x^7 +$ $7740x^6 + 13518x^5 - 32130x^4 - 630x^3 +$ $27945x^2 - 16065x + 2601$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|---------------------|
| $x^{15} + 3x^{14} + 3x^{13} - 3x^{12} +$ $3x^{10} + 3x^9 + 3x^6 + 3x^3 + 3$ | $x^{15} - 135x^{13} - 400x^{12} + 4815x^{11} +$ $29250x^{10} + 26590x^9 - 97560x^8 +$ $285570x^7 + 2474065x^6 + 2720457x^5 -$ $10627065x^4 - 37161085x^3 -$ $49706640x^2 - 32137650x - 8369798$ | $\left[\frac{9}{5} \frac{9}{5} \frac{9}{5} \frac{9}{5} \frac{9}{5} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} + 6x^{14} + 9x^{13} + 12x^{12} -$ $12x^{11} - 3x^{10} + 3x^9 - 9x^7 -$ $9x^6 + 9x^5 + 3x^3 + 9x + 12$ | $x^{15} - 45x^{13} - 190x^{12} + 135x^{11} +$ $4143x^{10} + 14575x^9 - 1215x^8 -$ $155295x^7 - 516575x^6 - 909414x^5 -$ $1222965x^4 - 1688650x^3 -$ $2018655x^2 - 1448700x - 433568$ | $\left[\frac{7}{5} \frac{7}{5} \frac{7}{5} \frac{7}{5} \frac{7}{5} \right]_5^4$ | T: 15,36 | $\frac{728}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|---------------------|
| $x^{15} - 3x^{14} + 9x^{12} + 12x^{11} +$ $3x^{10} + 9x^9 + 9x^6 - 9x^5 + 9x^4 -$ $12x^3 - 9x^2 + 6$ | $x^{15} - 105x^{13} - 175x^{12} +$ $630x^{11} - 3219x^{10} - 52325x^9 -$ $6930x^8 + 92925x^7 - 2371670x^6 -$ $1616022x^5 - 714210x^4 - 4281970x^3 -$ $288847125x^2 + 783725565x -$ 1433709089 | $\left[\begin{array}{c} \frac{6}{5} \quad \frac{6}{5} \quad \frac{6}{5} \quad \frac{6}{5} \\ \frac{6}{5} \quad \frac{6}{5} \quad \frac{6}{5} \quad \frac{6}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2104}{1215}$ |
| $x^{15} - 3x^{14} - 3x^{13} - 3x^{12} -$ $3x^{11} + 3x^{10} + 3x^9 + 3x^6 -$ $3x^3 - 3$ | $x^{15} + 105x^{13} - 1275x^{12} + 2265x^{11} -$ $4683x^{10} + 112110x^9 - 558360x^8 +$ $5180850x^7 - 44429055x^6 +$ $194572044x^5 - 502393410x^4 +$ $914380620x^3 - 1277826165x^2 +$ $1146745845x - 408386076$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|---------------------|
| $x^{15} - 12x^{14} + 12x^{12} - 12x^{11} - 12x^{10} - 9x^8 - 9x^7 - 9x^6 - 9x^5 + 9x^4 + 12x^3 - 9x^2 - 9x - 6$ | $x^{15} - 8427x^{10} - 198144x^5 + 3072$ | $\left[\begin{matrix} 2 \\ 2 \end{matrix} \right]_5^4$ | T: 15,1 | $\frac{8}{5}$ |
| $x^{15} - 3x^{14} - 3x^{12} + 3x^{10} + 3x^3 + 3$ | $x^{15} - 30x^{13} - 90x^{12} - 330x^{11} - 201x^{10} + 450x^9 - 900x^8 - 2070x^7 + 2370x^6 + 1359x^5 - 3600x^4 + 420x^3 + 1710x^2 - 1080x + 105$ | $\left[\begin{matrix} 9 & 9 & 9 & 9 \\ 5 & 5 & 5 & 5 \end{matrix} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} + 3x^{14} - 3x^{10} + 3x^6 + 3$ | $x^{15} - 90x^{13} - 70x^{12} - 1485x^{11} - 14148x^{10} - 126215x^9 + 65790x^8 + 1812645x^7 + 721630x^6 - 6224391x^5 + 2395980x^4 - 13024330x^3 + 1582290x^2 - 10491435x - 665468$ | $\left[\begin{matrix} 6 & 6 & 6 & 6 \\ 5 & 5 & 5 & 5 \end{matrix} \right]_5^4$ | T: 15,36 | $\frac{2104}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|---------------------|
| $x^{15} + 3x^{14} - 3x^{13} - 3x^{12} +$ $3x^{11} + 3x^{10} + 3x^6 - 3$ | $x^{15} - 45x^{13} - 25x^{12} + 630x^{11} + 840x^{10} -$ $3530x^9 - 8280x^8 + 3780x^7 + 28960x^6 +$ $28008x^5 - 18720x^4 - 71920x^3 -$ $76320x^2 - 36240x - 5648$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} - 3x^{14} + 12x^{12} + 9x^{11} +$ $6x^{10} - 12x^9 + 9x^6 + 9x^4 -$ $12x^3 + 12$ | $x^{15} - 15x^{13} - 5x^{12} + 105x^{11} - 36x^{10} -$ $140x^9 - 225x^8 + 585x^7 + 110x^6 -$ $882x^5 + 330x^4 + 485x^3 - 285x^2 - 90x +$ 56 | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} - 6x^{14} + 3x^{13} + 12x^{12} +$ $3x^{11} + 6x^{10} + 9x^9 + 9x^7 - 9x^6 -$ $9x^4 + 3x^3 - 9x^2 - 9x - 6$ | $x^{15} - 90x^{13} - 210x^{12} - 1275x^{11} -$ $22548x^{10} - 204615x^9 - 640440x^8 -$ $1319715x^7 - 3152730x^6 -$ $11809341x^5 - 26478180x^4 -$ $38355090x^3 - 65747700x^2 -$ $141310935x - 172753188$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|---------------------|
| $x^{15} - 3x^{14} + 3x^{10} + 3x^9 + 3x^6 - 3x^3 + 3$ | $x^{15} + 45x^{13} - 110x^{12} - 360x^{11} - 5091x^{10} + 11305x^9 + 61875x^8 + 17280x^7 - 635320x^6 - 588915x^5 + 4896585x^4 - 2379970x^3 - 9851760x^2 + 13241760x - 4703863$ | $\left[\frac{9}{5} \frac{9}{5} \frac{9}{5} \frac{9}{5} \frac{9}{5} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} - 12x^{14} - 12x^{13} + 12x^{12} - 12x^{10} - 9x^9 + 9x^7 + 3x^6 + 9x^4 + 9x^2 - 6$ | $x^{15} - 15x^{13} - 35x^{12} + 90x^{11} + 519x^{10} - 635x^9 - 2160x^8 + 4995x^7 - 10x^6 - 25686x^5 - 15870x^4 - 23410x^3 - 75195x^2 - 40605x + 10085$ | $\left[\frac{7}{5} \frac{7}{5} \frac{7}{5} \frac{7}{5} \frac{7}{5} \right]_5^4$ | T: 15,36 | $\frac{728}{405}$ |
| $x^{15} + 12x^{14} + 3x^{13} - 3x^{12} - 9x^{11} + 6x^{10} - 9x^9 - 9x^8 + 9x^7 - 3x^6 - 9x^4 - 6x^3 - 9x^2 - 9x + 12$ | $x^{15} - 45x^{13} - 70x^{12} - 45x^{11} + 648x^{10} + 10555x^9 + 55665x^8 + 187875x^7 + 525700x^6 + 1248291x^5 + 2232315x^4 + 2363600x^3 + 661005x^2 - 954945x - 623657$ | $\left[\frac{9}{5} \frac{9}{5} \frac{9}{5} \frac{9}{5} \frac{9}{5} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| Continued on next page | | | | |

Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|---------------------|
| $x^{15} + 3x^{14} + 3x^{13} - 3x^{12} +$ $3x^{11} - 3x^{10} - 3x^9 + 3$ | $x^{15} + 75x^{13} - 190x^{12} + 3090x^{11} +$ $9318x^{10} + 21595x^9 + 188460x^8 +$ $1176480x^7 + 3757990x^6 +$ $5540445x^5 - 3111810x^4 -$ $34775005x^3 - 79574280x^2 -$ $90733380x - 43643624$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} - 9x^{14} + 9x^{13} + 12x^{12} -$ $3x^{11} + 12x^{10} - 6x^9 + 9x^8 +$ $9x^6 - 9x^5 + 9x^3 - 12$ | $x^{15} - 30x^{13} - 85x^{12} + 15x^{11} + 1515x^{10} +$ $6355x^9 + 15570x^8 + 25965x^7 +$ $29935x^6 + 25173x^5 + 15900x^4 +$ $7700x^3 + 2805x^2 + 705x + 97$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|---------------------|
| $x^{15} + 3x^{14} - 3x^{13} + 12x^{12} +$ $9x^{11} - 6x^{10} + 3x^9 + 9x^8 - 9x^7 +$ $6x^6 + 9x^5 - 9x^4 + 9x^3 + 9x^2 + 6$ | $x^{15} + 30x^{13} - 695x^{12} + 5415x^{11} -$ $27093x^{10} + 110485x^9 - 364410x^8 +$ $525015x^7 + 2337695x^6 -$ $14414679x^5 + 31781130x^4 -$ $32943370x^3 + 19018875x^2 -$ $18118725x + 14702753$ | $\left[\begin{array}{c} \frac{6}{5} \\ \frac{6}{5} \\ \frac{6}{5} \\ \frac{6}{5} \\ \frac{6}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2104}{1215}$ |
| $x^{15} - 3x^{13} + 12x^{12} - 9x^{11} -$ $3x^{10} + 9x^8 - 9x^7 + 9x^6 - 9x^4 -$ $12x^3 - 9x^2 - 9x + 12$ | $x^{15} - 120x^{13} - 385x^{12} + 3975x^{11} +$ $31125x^{10} + 59995x^9 - 109440x^8 -$ $588600x^7 - 315140x^6 + 1649997x^5 +$ $1936365x^4 - 862570x^3 - 1543845x^2 -$ $1273110x - 621431$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|---------------------|
| $x^{15} + 3x^{14} - 9x^{13} - 12x^{12} -$ $12x^{11} + 12x^{10} + 6x^9 - 9x^8 +$ $9x^7 + 6x^6 - 9x^5 - 9x^4 - 3x^3 +$ $9x - 12$ | $x^{15} - 135x^{13} - 275x^{12} + 7800x^{11} +$ $27531x^{10} - 214625x^9 - 1103310x^8 +$ $2116035x^7 + 20158370x^6 +$ $17651700x^5 - 115412490x^4 -$ $323961550x^3 - 303123165x^2 -$ $94317345x - 15487423$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} + 6x^{14} + 6x^{13} + 6x^{12} +$ $9x^{11} - 12x^{10} - 9x^9 + 9x^7 +$ $12x^6 - 9x^5 - 3x^3 - 9x^2 - 9x - 6$ | $x^{15} + 15x^{13} - 65x^{12} - 30x^{11} - 111x^{10} +$ $655x^9 + 720x^8 - 405x^7 - 2380x^6 -$ $7272x^5 - 2220x^4 + 350x^3 + 12135x^2 +$ $9165x + 7715$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|---------------------|
| $x^{15} + 3x^{13} - 3x^{12} - 3x^{10} + 3x^9 + 3x^6 + 3x^3 + 3$ | $x^{15} + 120x^{13} - 175x^{12} + 5445x^{11} - 47643x^{10} + 120535x^9 - 905670x^8 + 8527185x^7 - 32322815x^6 + 51997059x^5 - 7425510x^4 - 105710980x^3 + 174415545x^2 - 122316225x + 33697357$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} - 3x^{14} - 3x^{13} - 3x^{12} + 3x^{11} - 3x^{10} + 3x^9 - 3x^6 + 3x^3 - 3$ | $x^{15} - 120x^{13} - 70x^{12} + 5340x^{11} + 4779x^{10} - 107390x^9 - 50580x^8 + 1238580x^7 - 962600x^6 - 12759741x^5 + 6963810x^4 + 59089700x^3 - 4504200x^2 - 125831250x + 130857625$ | $\left[\begin{array}{c} \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{728}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|---------------------|
| $x^{15} + 12x^{14} - 12x^{13} + 6x^{12} +$ $6x^{10} + 12x^9 + 6x^6 - 9x^5 +$ $9x^4 - 3x^3 + 12$ | $x^{15} - 120x^{13} - 300x^{12} + 4470x^{11} +$ $22701x^{10} - 30030x^9 - 419130x^8 -$ $422820x^7 + 2799510x^6 + 5561739x^5 -$ $3593070x^4 - 20008260x^3 -$ $11196180x^2 + 1364580x + 5120421$ | $\left[\begin{array}{c} \frac{9}{5} \ \frac{9}{5} \ \frac{9}{5} \ \frac{9}{5} \\ \frac{9}{5} \ \frac{9}{5} \ \frac{9}{5} \ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} + 3x^{14} - 3x^{11} + 3x^{10} -$ $3x^6 + 3x^3 - 3$ | $x^{15} - 15x^{10} - 36x^5 - 3$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \right]_5^4$ | T: 15,1 | $\frac{8}{5}$ |
| $x^{15} + 3x^{14} - 3x^{13} - 3x^{10} -$ $3x^6 + 3x^3 + 3$ | $x^{15} - 105x^{13} - 35x^{12} + 4305x^{11} +$ $5214x^{10} - 75740x^9 - 215145x^8 +$ $638505x^7 + 3268160x^6 - 1532736x^5 -$ $20194860x^4 - 20444725x^3 +$ $66830505x^2 + 53057760x + 17520896$ | $\left[\begin{array}{c} \frac{9}{5} \ \frac{9}{5} \ \frac{9}{5} \ \frac{9}{5} \\ \frac{9}{5} \ \frac{9}{5} \ \frac{9}{5} \ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|---------------------|
| $x^{15} - 3x^{14} + 6x^{13} + 3x^{12} +$ $6x^{10} + 3x^9 + 9x^8 - 9x^7 + 6x^6 -$ $6x^3 + 9x^2 - 6$ | $x^{15} - 135x^{13} - 280x^{12} + 8265x^{11} +$ $34479x^{10} - 220835x^9 - 1557405x^8 +$ $803565x^7 + 28570195x^6 +$ $63883260x^5 - 120411585x^4 -$ $776928520x^3 - 1287664305x^2 -$ $595185120x + 280682932$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} + 3x^{13} - 3x^{11} + 3x^{10} -$ $3x^9 - 3x^6 - 3$ | $x^{15} + 105x^{13} - 210x^{12} + 3675x^{11} +$ $32619x^{10} - 58065x^9 - 458325x^8 +$ $4084605x^7 + 6752235x^6 -$ $58068432x^5 - 73654245x^4 +$ $546400470x^3 - 406250145x^2 -$ $621819450x + 681862056$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|---------------------|
| $x^{15} + 6x^{14} - 9x^{13} + 6x^{12} -$ $6x^{11} - 6x^{10} - 3x^9 - 9x^8 -$ $9x^7 - 9x^6 - 9x^5 - 9x^4 - 6x^3 -$ $9x^2 - 9x + 6$ | $x^{15} + 15x^{13} - 10x^{12} + 45x^{11} - 111x^{10} -$ $455x^9 - 2835x^8 - 8865x^7 - 20825x^6 -$ $34542x^5 - 44625x^4 - 41230x^3 -$ $28935x^2 - 12180x - 1724$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} - 3x^{14} + 3x^{13} - 3x^{12} -$ $3x^{10} - 3x^6 + 3$ | $x^{15} - 45x^{13} - 30x^{12} + 645x^{11} +$ $876x^{10} + 1245x^9 + 12600x^8 -$ $77310x^7 - 525060x^6 - 60210x^5 +$ $4636530x^4 + 7713750x^3 -$ $9335025x^2 - 33675525x - 22244133$ | $\left[\begin{array}{c} \frac{7}{5} \quad \frac{7}{5} \quad \frac{7}{5} \quad \frac{7}{5} \\ \frac{7}{5} \quad \frac{7}{5} \quad \frac{7}{5} \quad \frac{7}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{728}{405}$ |
| $x^{15} + 3x^{14} + 3x^{13} + 3x^{12} -$ $3x^{10} - 3x^6 - 3x^3 + 3$ | $x^{15} - 45x^{13} - 10x^{12} + 630x^{11} + 300x^{10} -$ $3740x^9 - 1980x^8 + 9000x^7 + 3280x^6 -$ $7992x^5 - 2520x^4 - 160x^3 + 5040x^2 -$ $1680x - 224$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|---------------------|
| $x^{15} - 12x^{14} - 6x^{13} + 6x^{12} -$ $6x^{11} - 3x^{10} + 3x^9 + 3x^6 + 9x^4 -$ 6 | $x^{15} + 90x^{13} - 455x^{12} + 2925x^{11} +$ $10755x^{10} - 365885x^9 + 3807900x^8 -$ $26497665x^7 + 136505915x^6 -$ $532857123x^5 + 1571602050x^4 -$ $3378627310x^3 + 5013526005x^2 -$ $4439461095x + 1690626869$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} + 9x^{14} + 3x^{13} - 9x^{11} +$ $3x^{10} + 3x^9 - 9x^7 + 3x^6 - 9x^5 +$ $9x^4 - 9x^2 - 9x - 12$ | $x^{15} - 105x^{13} - 960x^{12} - 4665x^{11} -$ $26103x^{10} - 187665x^9 - 925965x^8 -$ $3137670x^7 - 10192230x^6 -$ $40007826x^5 - 150829155x^4 -$ $431400075x^3 - 852214860x^2 -$ $1055850390x - 628447911$ | $\left[\begin{array}{c} \frac{7}{5} \quad \frac{7}{5} \quad \frac{7}{5} \quad \frac{7}{5} \\ \frac{7}{5} \quad \frac{7}{5} \quad \frac{7}{5} \quad \frac{7}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{728}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{15} - 6x^{13} - 6x^{12} + 12x^{10} -$ $6x^9 - 9x^8 - 12x^6 - 9x^5 + 9x^3 -$ $9x^2 - 9x + 6$ | $x^{15} - 15x^{13} - 125x^{12} - 1455x^{11} -$ $6801x^{10} - 25640x^9 - 92205x^8 -$ $192060x^7 - 290665x^6 - 350010x^5 +$ $760335x^4 + 1954535x^3 + 20490x^2 -$ $401385x - 1607833$ | $\left[\begin{array}{c} \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{728}{405}$ |
| $x^{15} + 12x^{14} - 12x^{13} + 12x^{12} -$ $6x^{11} - 3x^{10} + 9x^9 + 9x^7 - 9x^5 -$ $3x^3 + 9x^2 - 9x - 6$ | $x^{15} - 120x^{13} - 1435x^{12} - 5475x^{11} +$ $16125x^{10} + 42145x^9 + 790470x^8 -$ $874935x^7 - 10113215x^6 -$ $48679443x^5 - 60702870x^4 -$ $107772520x^3 - 125928255x^2 -$ $85612575x - 33853331$ | $\left[\begin{array}{c} \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{728}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|---|----------|---------------------|
| $x^{15} - 105x^{13} - 120x^{12} + 17685x^{11} - 160011x^{10} + 606345x^9 - 401445x^8 - 8496540x^7 + 50185980x^6 - 168272352x^5 + 376195995x^4 - 608707125x^3 + 675856440x^2 - 499850730x + 175632561$ | | $\left[\begin{array}{c} \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{728}{405}$ |
| $x^{15} - 120x^{12} - 585x^{11} + 2214x^{10} + 13305x^9 - 13995x^8 - 103365x^7 - 320490x^6 + 2741463x^5 - 5119065x^4 - 14795415x^3 + 107193240x^2 - 218879550x + 151839351$ | | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|---------------------|
| $x^{15} + 6x^{14} - 9x^{13} + 12x^{12} + 3x^{11} + 12x^{10} + 9x^8 + 9x^7 - 12x^6 + 9x^5 + 9x^4 - 3x^3 + 9x - 12$ | $x^{15} + 15x^{13} - 5x^{12} + 60x^{11} + 69x^{10} - 335x^9 - 450x^8 - 4905x^7 - 5590x^6 + 6138x^5 + 3180x^4 + 26900x^3 + 2775x^2 - 31515x + 83801$ | $\left[\begin{array}{c} \frac{6}{5} \quad \frac{6}{5} \quad \frac{6}{5} \quad \frac{6}{5} \\ \frac{6}{5} \quad \frac{6}{5} \quad \frac{6}{5} \quad \frac{6}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2104}{1215}$ |
| $x^{15} + 9x^{14} - 3x^{13} - 9x^{12} + 9x^{11} + 12x^{10} + 6x^9 - 9x^8 - 9x^7 - 9x^6 + 9x^5 - 9x^4 + 12x^3 + 6$ | $x^{15} - 105x^{13} - 260x^{12} + 5520x^{11} + 7707x^{10} - 98555x^9 - 58140x^8 + 522945x^7 - 1770985x^6 + 443025x^5 + 987720x^4 - 858880x^3 + 711060x^2 + 13965x + 2891$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} + 3x^{14} + 6x^{13} - 9x^{12} + 12x^{11} - 12x^{10} - 9x^9 + 9x^8 + 9x^7 + 3x^6 - 9x^4 - 6x^3 + 9x^2 + 9x - 6$ | $x^{15} - 15x^{13} - 10x^{12} + 120x^{11} + 276x^{10} - 5x^9 - 405x^8 + 945x^7 + 3670x^6 + 3123x^5 - 1230x^4 - 3415x^3 - 2085x^2 - 930x - 479$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|---------------------|
| $x^{15} - 6x^{14} - 3x^{13} - 3x^{12} -$ $9x^{11} + 3x^{10} - 6x^9 - 9x^8 +$ $9x^7 - 9x^5 - 3x^3 - 9x^2 - 12$ | $x^{15} + 105x^{13} - 995x^{12} + 2475x^{11} -$ $3003x^{10} + 44560x^9 - 652860x^8 +$ $5066820x^7 - 19634635x^6 +$ $32091894x^5 - 8357910x^4 +$ $39731180x^3 - 300332025x^2 +$ $457456965x - 133529788$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} - 3x^{14} + 3x^{13} - 3x^{12} -$ $3x^{11} - 3x^{10} + 3x^9 - 3x^3 + 3$ | $x^{15} - 105x^{13} - 20x^{12} + 4410x^{11} +$ $1680x^{10} - 95375x^9 - 52920x^8 +$ $1146600x^7 + 799190x^6 - 7742196x^5 -$ $6338640x^4 + 27573770x^3 +$ $25714710x^2 - 41309205x - 43522927$ | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|---------------------|
| $x^{15} - 3x^{14} + 3x^{13} - 3x^{12} -$ $3x^{11} - 3x^{10} - 3x^9 + 3x^6 + 3$ | $x^{15} - 105x^{13} - 25x^{12} + 4410x^{11} +$ $2100x^{10} - 93170x^9 - 66150x^8 +$ $1007685x^7 + 929530x^6 - 4824981x^5 -$ $5006085x^4 + 5455415x^3 +$ $1512630x^2 - 5654355x + 2833180$ | $\left[\frac{9}{5} \frac{9}{5} \frac{9}{5} \frac{9}{5} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} + 9x^{14} + 6x^{13} - 3x^{11} +$ $12x^{10} + 9x^9 - 9x^7 + 3x^6 -$ $9x^4 + 3x^3 - 9x^2 + 9x - 12$ | $x^{15} - 25x^{12} + 15x^{11} + 9x^{10} + 10x^9 +$ $225x^8 - 315x^7 + 250x^6 - 639x^5 +$ $540x^4 + 170x^3 - 30x^2 + 1710x + 967$ | $\left[\frac{7}{5} \frac{7}{5} \frac{7}{5} \frac{7}{5} \right]_5^4$ | T: 15,36 | $\frac{728}{405}$ |
| $x^{15} - 6x^{14} - 3x^{13} - 6x^{12} +$ $9x^{11} + 6x^{10} + 12x^9 + 9x^8 -$ $9x^7 - 9x^5 - 9x^4 + 3x^3 + 9x^2 +$ $9x - 6$ | $x^{15} - 15x^{13} - 50x^{12} + 15x^{11} + 639x^{10} -$ $125x^9 - 3465x^8 + 4275x^7 + 2915x^6 -$ $10368x^5 + 11625x^4 - 10510x^3 +$ $7275x^2 - 1890x - 328$ | $\left[\frac{9}{5} \frac{9}{5} \frac{9}{5} \frac{9}{5} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| Continued on next page | | | | |

Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|---------------------|
| $x^{15} - 12x^{14} - 12x^{13} - 3x^{12} + 9x^{11} - 3x^{10} - 9x^9 + 9x^7 - 9x^6 - 9x^5 + 9x^4 + 6x^3 - 9x^2 - 9x - 6$ | $x^{15} - 105x^{13} - 140x^{12} + 4515x^{11} + 12564x^{10} - 88340x^9 - 368235x^8 + 801045x^7 + 5008430x^6 - 2553651x^5 - 36119055x^4 + 1359575x^3 + 131448450x^2 - 84026250x + 14376125$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} - 3x^{14} + 12x^{13} - 12x^{12} + 6x^{11} - 6x^{10} + 6x^9 - 9x^8 + 9x^7 + 3x^6 + 9x^5 + 9x^4 - 12x^3 + 9x^2 + 6$ | $x^{15} - 105x^{13} - 750x^{12} - 5295x^{11} - 50043x^{10} - 320385x^9 - 1467765x^8 - 6534000x^7 - 28783740x^6 - 100169676x^5 - 238574295x^4 - 348280815x^3 - 254355570x^2 - 58317210x - 26796903$ | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|---------------------|
| $x^{15} + 3x^{14} - 12x^{13} + 9x^{12} -$ $3x^{11} - 3x^{10} + 6x^9 - 9x^8 + 9x^7 -$ $3x^6 + 9x^5 - 6x^3 - 9x^2 + 12$ | $x^{15} + 60x^{13} - 215x^{12} + 2145x^{11} -$ $16137x^{10} + 50395x^9 - 35640x^8 -$ $254565x^7 + 672305x^6 + 36531x^5 -$ $1421790x^4 - 234160x^3 + 3156765x^2 -$ $1848015x + 48503$ | $\left[\begin{array}{c} \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{7}{5} \\ \frac{2}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{728}{405}$ |
| $x^{15} + 12x^{13} + 12x^{12} + 6x^{11} -$ $3x^{10} - 3x^9 - 9x^8 + 9x^7 - 6x^6 +$ $9x^5 + 9x^4 - 3x^3 - 9x^2 - 9x - 6$ | $x^{15} - 15x^{13} - 10x^{12} + 75x^{11} + 186x^{10} +$ $310x^9 + 495x^8 + 585x^7 + 550x^6 +$ $513x^5 + 345x^4 + 35x^3 - 150x^2 - 120x -$ 29 | $\left[\begin{array}{c} \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{9}{5} \\ \frac{2}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|---------------------|
| $x^{15} - 120x^{13} - 1155x^{12} - 2745x^{11} + 39645x^{10} - 47595x^9 + 871110x^8 - 6417675x^7 + 4101615x^6 + 19632717x^5 + 171469980x^4 - 1090253250x^3 + 2386162935x^2 - 2432910465x + 989398269$ | | $\left[\begin{array}{c} \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \quad \frac{9}{5} \\ 5 \quad 5 \quad 5 \quad 5 \end{array} \right]_5^4$ | T: 15,36 | $\frac{2344}{1215}$ |
| $x^{15} + 3x^{11} + 3x^{10} - 3x^9 + 3x^6 + 3x^3 - 3$ | $x^{15} - 6x^{14} - 21x^{13} + 815x^{12} + 180x^{11} - 29376x^{10} - 12344x^9 + 489366x^8 + 658125x^7 - 3743720x^6 - 12064461x^5 - 105879x^4 + 62688851x^3 + 139760820x^2 + 132275565x + 47545825$ | $\left[\begin{array}{c} \frac{3}{2} \quad \frac{21}{10} \quad \frac{21}{10} \quad \frac{21}{10} \\ 2 \quad 10 \quad 10 \quad 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1693}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|--------------------|
| $x^{15} + 3x^{14} - 9x^{13} + 3x^{12} -$ $6x^{11} - 9x^{10} + 9x^9 + 9x^7 -$ $12x^6 + 3x^3 - 9x^2 + 6$ | $x^{15} - 190x^{12} + 11410x^9 - 230300x^6 +$ $1817900x^3 - 3001250$ | $\begin{bmatrix} 3 & 21 & 21 & 21 \\ 2 & 10 & 10 & 10 \end{bmatrix}_{10}^4$ | T: 15,44 | $\frac{1693}{810}$ |
| $x^{15} - 3x^{14} - 3x^{13} - 3x^{12} -$ $3x^{11} + 3x^6 - 3$ | $x^{15} + 39x^{13} - 11x^{12} + 672x^{11} - 528x^{10} +$ $5104x^9 - 9360x^8 + 5427x^7 - 81610x^6 -$ $144351x^5 - 120747x^4 + 47033x^3 +$ $1177716x^2 + 2574825x + 2149625$ | $\begin{bmatrix} 3 & 21 & 21 & 21 \\ 2 & 10 & 10 & 10 \end{bmatrix}_{10}^4$ | T: 15,44 | $\frac{1693}{810}$ |
| $x^{15} + 12x^{13} - 12x^{11} - 9x^{10} +$ $12x^9 - 9x^8 + 9x^7 + 3x^6 - 9x^4 +$ $3x^3 + 9x + 3$ | $x^{15} + 87x^{13} - 131x^{12} + 3912x^{11} -$ $11070x^{10} + 71440x^9 - 162702x^8 +$ $550521x^7 - 922102x^6 + 1836783x^5 -$ $2123385x^4 + 2326043x^3 -$ $1370004x^2 + 613863x + 134699$ | $\begin{bmatrix} 3 & 21 & 21 & 21 \\ 2 & 10 & 10 & 10 \end{bmatrix}_{10}^4$ | T: 15,44 | $\frac{1693}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{15} + 9x^{14} - 12x^{13} - 6x^{12} - 12x^{11} + 9x^{10} - 6x^9 + 9x^7 + 6x^6 + 9x^5 + 9x^4 - 6x^3 + 9x^2 + 9x + 6$ | $x^{15} - 15x^{13} - 5x^{12} + 90x^{11} + 60x^{10} - 260x^9 - 270x^8 + 315x^7 + 530x^6 + 27x^5 - 345x^4 - 265x^3 - 90x^2 - 15x - 82$ | $\begin{bmatrix} 3 & 21 \\ 2 & 10 \end{bmatrix} \begin{bmatrix} 21 & 21 \\ 10 & 10 \end{bmatrix}^4$ | T: 15,44 | $\frac{1693}{810}$ |
| $x^{15} - 3x^{14} - 3x^{13} - 3x^{11} - 3x^9 - 3x^6 - 3x^3 - 3$ | $x^{15} - 21x^{13} - 22x^{12} + 144x^{11} + 312x^{10} - 56x^9 - 864x^8 - 1890x^7 - 3464x^6 - 4482x^5 - 4476x^4 - 4846x^3 - 4608x^2 - 2550x - 596$ | $\begin{bmatrix} 21 \\ 10 \end{bmatrix} \begin{bmatrix} 21 & 21 \\ 10 & 10 \end{bmatrix}^4$ | T: 15,33 | $\frac{563}{270}$ |
| $x^{15} + 9x^{14} + 6x^{13} - 3x^{12} - 3x^{11} + 9x^{10} - 9x^9 + 9x^6 + 9x^5 + 9x^4 - 9x^2 - 9x - 3$ | $x^{15} - 6x^{14} + 57x^{13} - 316x^{12} + 1368x^{11} - 4782x^{10} + 12220x^9 - 9450x^8 - 23571x^7 + 322738x^6 - 962835x^5 + 2511372x^4 - 4476166x^3 + 5705298x^2 - 4246050x + 1891402$ | $\begin{bmatrix} 21 \\ 10 \end{bmatrix} \begin{bmatrix} 21 & 21 \\ 10 & 10 \end{bmatrix}^4$ | T: 15,33 | $\frac{563}{270}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|--------------------|
| $x^{15} + 12x^{13} + 12x^{12} + 12x^{11} + 3x^9 + 9x^7 - 12x^6 + 3x^3 + 6$ | $x^{15} - 140x^{12} + 4900x^9 + 27440x^6 + 912380x^3 - 1680700$ | $\begin{bmatrix} 3 & 21 \\ 2 & 10 \end{bmatrix} \begin{bmatrix} 21 & 21 \\ 10 & 10 \end{bmatrix}^4$ | T: 15,44 | $\frac{1693}{810}$ |
| $x^{15} + 3x^{14} + 6x^{13} + 12x^{12} + 12x^{11} + 9x^9 - 9x^7 - 12x^6 + 9x^4 - 6x^3 + 9x^2 - 9x + 6$ | $x^{15} - 6x^{14} + 6x^{13} - 170x^{12} + 1176x^{11} - 1374x^{10} - 34088x^9 + 314028x^8 - 1422000x^7 + 9277928x^6 - 60207060x^5 + 280545744x^4 - 861104584x^3 + 805271520x^2 + 1225072896x + 542270408$ | $\begin{bmatrix} 3 & 21 \\ 2 & 10 \end{bmatrix} \begin{bmatrix} 21 & 21 \\ 10 & 10 \end{bmatrix}^4$ | T: 15,44 | $\frac{1693}{810}$ |
| $x^{15} + 3x^{14} - 3x^{12} - 6x^{11} - 3x^9 - 9x^8 + 9x^7 - 6x^6 + 9x^5 - 9x^4 - 9x^3 + 9x^2 + 9x + 12$ | $x^{15} - 8x^{12} + 28x^9 - 28x^6 + 8x^3 + 8$ | $\begin{bmatrix} 21 \\ 10 \end{bmatrix} \begin{bmatrix} 21 & 21 \\ 10 & 10 \end{bmatrix}^4$ | T: 15,33 | $\frac{563}{270}$ |
| $x^{15} + 9x^{14} + 3x^{13} - 9x^{12} + 3x^{11} + 9x^{10} - 6x^9 - 9x^8 + 9x^6 + 6x^3 - 9x^2 - 9x - 6$ | $x^{15} - 7x^{12} - 98x^9 + 15778x^6 + 40817x^3 + 117649$ | $\begin{bmatrix} 21 \\ 10 \end{bmatrix} \begin{bmatrix} 21 & 21 \\ 10 & 10 \end{bmatrix}^4$ | T: 15,33 | $\frac{563}{270}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|--------------------|
| $x^{15} - 12x^{14} - 6x^{13} + 9x^{12} -$ $3x^{11} - 6x^9 + 9x^8 + 9x^7 - 6x^6 +$ $12x^3 - 9x^2 - 9x + 3$ | $x^{15} - 6x^{14} - 39x^{13} + 371x^{12} -$ $1530x^{11} + 13104x^{10} - 86822x^9 +$ $310572x^8 - 1155843x^7 + 5771770x^6 -$ $15847215x^5 + 10516569x^4 -$ $14672509x^3 + 211909986x^2 -$ $479623275x + 311302537$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{21}{10} \right] \left[\begin{array}{c} 21 \\ 10 \end{array} \frac{21}{10} \right] \left[\begin{array}{c} 21 \\ 10 \end{array} \frac{21}{10} \right] \left[\begin{array}{c} 21 \\ 10 \end{array} \frac{21}{10} \right] \left[\begin{array}{c} 21 \\ 10 \end{array} \frac{21}{10} \right] \left[\begin{array}{c} 21 \\ 10 \end{array} \frac{21}{10} \right]$ | T: 15,44 | $\frac{1693}{810}$ |
| $x^{15} - 12x^{14} - 12x^{13} - 6x^{12} +$ $12x^{11} + 9x^{10} - 6x^9 + 6x^6 +$ $9x^5 + 6x^3 - 9x^2 - 9x + 6$ | $x^{15} - 30x^{12} + 1260x^9 - 66150x^6 -$ $926100x^3 - 81033750$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{21}{10} \right] \left[\begin{array}{c} 21 \\ 10 \end{array} \frac{21}{10} \right] \left[\begin{array}{c} 21 \\ 10 \end{array} \frac{21}{10} \right] \left[\begin{array}{c} 21 \\ 10 \end{array} \frac{21}{10} \right] \left[\begin{array}{c} 21 \\ 10 \end{array} \frac{21}{10} \right] \left[\begin{array}{c} 21 \\ 10 \end{array} \frac{21}{10} \right]$ | T: 15,44 | $\frac{1693}{810}$ |
| $x^{15} + 3x^{13} + 3x^{12} - 3x^{11} +$ $3x^9 - 3x^3 - 3$ | $x^{15} - 3x^{13} - 10x^{12} + 36x^{11} + 24x^{10} +$ $112x^9 - 864x^8 + 504x^7 + 1864x^6 -$ $972x^5 - 2856x^4 + 530x^3 + 1872x^2 +$ $42x - 500$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{21}{10} \right] \left[\begin{array}{c} 21 \\ 10 \end{array} \frac{21}{10} \right] \left[\begin{array}{c} 21 \\ 10 \end{array} \frac{21}{10} \right] \left[\begin{array}{c} 21 \\ 10 \end{array} \frac{21}{10} \right] \left[\begin{array}{c} 21 \\ 10 \end{array} \frac{21}{10} \right] \left[\begin{array}{c} 21 \\ 10 \end{array} \frac{21}{10} \right]$ | T: 15,44 | $\frac{1693}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{15} - 12x^{14} + 3x^{12} + 6x^{11} -$ $9x^{10} - 3x^9 + 3x^6 - 9x^5 - 3x^3 +$ $9x^2 + 9x - 6$ | $x^{15} - 15x^{13} - 6x^{12} + 90x^{11} + 72x^{10} -$ $258x^9 - 324x^8 + 297x^7 + 576x^6 +$ $81x^5 - 54x^4 - 360x^3 - 648x^2 + 108x -$ 72 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{21}{10} \frac{21}{10} \frac{21}{10} \frac{21}{10} \right]_{10}^4$ | T: 15,44 | $\frac{1693}{810}$ |
| $x^{15} - 9x^{14} + 6x^{13} - 6x^{12} +$ $6x^{11} - 9x^{10} + 9x^7 - 3x^6 +$ $9x^4 + 9x^3 + 9x - 6$ | $x^{15} - 3x^{14} + 108x^{13} - 888x^{12} +$ $6423x^{11} - 46845x^{10} + 268404x^9 -$ $1135224x^8 + 3566304x^7 -$ $8535744x^6 + 15769692x^5 -$ $22601448x^4 + 24812208x^3 -$ $20238048x^2 + 11196288x - 3377472$ | $\left[\frac{21}{10} \frac{21}{10} \frac{21}{10} \frac{21}{10} \right]_{10}^4$ | T: 15,33 | $\frac{563}{270}$ |
| $x^{15} - 12x^{14} - 12x^{13} - 3x^{12} +$ $12x^{11} - 12x^9 + 9x^8 + 9x^7 +$ $9x^5 - 9x^3 + 9x^2 + 6$ | $x^{15} - 105x^{12} + 4410x^9 - 92610x^6 +$ $972405x^3 + 3176523$ | $\left[\frac{21}{10} \frac{21}{10} \frac{21}{10} \frac{21}{10} \right]_{10}^4$ | T: 15,33 | $\frac{563}{270}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|--------------------|
| $x^{15} + 3x^{14} + 9x^{13} - 6x^{12} -$ $3x^{11} - 9x^{10} - 6x^9 + 9x^8 - 9x^7 +$ $9x^6 + 9x^3 + 9x^2 - 9x - 3$ | $x^{15} - 6x^{14} + 9x^{13} + 56x^{12} - 351x^{11} +$ $966x^{10} - 1535x^9 + 1332x^8 - 270x^7 -$ $500x^6 + 138x^5 + 648x^4 - 868x^3 +$ $504x^2 - 132x + 16$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{21}{10} \frac{21}{10} \frac{21}{10} \right]_{10}^4$ | T: 15,44 | $\frac{1693}{810}$ |
| $x^{15} + 9x^{13} - 9x^{12} - 6x^{11} +$ $9x^{10} - 3x^9 - 9x^8 - 6x^6 + 9x^5 -$ $9x^4 + 12x^3 - 9x^2 + 12$ | $x^{15} - 490x^{12} + 90160x^9 - 7559720x^6 +$ $278588030x^3 - 3676531250$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{21}{10} \frac{21}{10} \frac{21}{10} \right]_{10}^4$ | T: 15,44 | $\frac{1693}{810}$ |
| $x^{15} + 3x^{14} - 3x^{13} - 3x^{11} -$ $3x^9 - 3x^6 + 3x^3 + 3$ | $x^{15} - 132x^{13} - 376x^{12} + 6900x^{11} +$ $38544x^{10} - 136640x^9 - 1496088x^8 -$ $808704x^7 + 26291440x^6 +$ $80473104x^5 - 133003680x^4 -$ $1317965728x^3 - 3357099264x^2 -$ $4010079360x - 1932762560$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{21}{10} \frac{21}{10} \frac{21}{10} \right]_{10}^4$ | T: 15,44 | $\frac{1693}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|--------------------|
| $x^{15} + 12x^{14} - 12x^{13} + 12x^{12} +$ $12x^{11} - 9x^{10} - 9x^9 + 9x^8 -$ $9x^7 - 3x^6 - 9x^5 - 9x^4 + 3x^3 +$ $9x^2 + 12$ | $x^{15} - 10x^{12} + 40x^9 + 100x^6 + 80x^3 - 500$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{21}{10} \frac{21}{10} \frac{21}{10} \frac{21}{10} \right]_{10}^4$ | T: 15,44 | $\frac{1693}{810}$ |
| $x^{15} - 3x^{14} - 12x^{13} - 9x^{12} -$ $3x^{11} + 9x^{10} + 3x^9 - 9x^8 + 9x^7 +$ $12x^6 + 9x^4 - 9x^2 + 9x - 3$ | $x^{15} + 39x^{13} - 26x^{12} + 402x^{11} -$ $1500x^{10} - 3566x^9 - 31824x^8 -$ $111987x^7 - 344584x^6 - 944433x^5 -$ $1864182x^4 - 3459880x^3 -$ $4759620x^2 - 4794240x - 4363960$ | $\left[\begin{array}{c} 21 \\ 10 \end{array} \frac{21}{10} \frac{21}{10} \frac{21}{10} \right]_{10}^4$ | T: 15,33 | $\frac{563}{270}$ |
| $x^{15} - 6x^{14} - 3x^{13} - 3x^{12} +$ $3x^{11} - 6x^9 + 9x^8 + 9x^6 + 9x^5 -$ $9x^4 + 12x^3 - 9x^2 + 12$ | $x^{15} - 80x^{12} + 1750x^9 - 16660x^6 +$ $89180x^3 - 600250$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{21}{10} \frac{21}{10} \frac{21}{10} \frac{21}{10} \right]_{10}^4$ | T: 15,44 | $\frac{1693}{810}$ |
| $x^{15} + 3x^{13} + 3x^{12} + 3x^{11} +$ $3x^9 + 3x^6 + 3x^3 - 3$ | $x^{15} - 120x^{12} + 8190x^9 - 264600x^6 +$ $3704400x^3 - 16206750$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{21}{10} \frac{21}{10} \frac{21}{10} \frac{21}{10} \right]_{10}^4$ | T: 15,44 | $\frac{1693}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|--------------------|
| $x^{15} + 3x^{14} + 3x^{11} - 3x^6 - 3x^3 - 3$ | $x^{15} - x^{12} - 8x^9 - 8x^6 + 8x^3 - 8$ | $\left[\begin{array}{c} \frac{21}{10} \\ \frac{21}{10} \\ \frac{21}{10} \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{563}{270}$ |
| $x^{15} - 3x^{13} + 3x^{11} + 3x^3 + 3$ | $x^{15} - 420x^{12} + 70560x^9 - 5556600x^6 + 207446400x^3 - 3176523000$ | $\left[\begin{array}{c} \frac{21}{10} \\ \frac{21}{10} \\ \frac{21}{10} \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{563}{270}$ |
| $x^{15} - 3x^{14} - 9x^{13} + 9x^{12} - 6x^{11} + 9x^{10} - 6x^9 - 9x^7 - 12x^6 + 9x^5 + 9x^4 - 12x^3 - 9x^2 + 9x - 3$ | $x^{15} - 140x^{12} - 53900x^9 + 13548500x^6 - 816340000x^3 + 14706125000$ | $\left[\begin{array}{c} \frac{21}{10} \\ \frac{21}{10} \\ \frac{21}{10} \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{563}{270}$ |
| $x^{15} - 6x^{14} + 3x^{13} - 12x^{12} + 6x^{11} + 9x^{10} - 9x^8 + 9x^7 - 6x^6 + 9x^5 + 9x^4 + 3x^3 - 9x^2 + 6$ | $x^{15} - 6x^{14} - 57x^{13} + 513x^{12} - 48x^{11} - 11718x^{10} + 46806x^9 - 33300x^8 - 371529x^7 + 1887378x^6 - 5245119x^5 + 10396377x^4 - 15596613x^3 + 16656408x^2 - 10770579x + 3085635$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{21}{10} \\ \frac{21}{10} \\ \frac{21}{10} \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1693}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{15} - 3x^{12} + 3x^{11} + 3x^9 + 3x^3 - 3$ | $x^{15} - 8x^{12} + 28x^9 - 64x^6 + 98x^3 - 64$ | $\left[\begin{array}{c} \frac{21}{10} \\ \frac{21}{10} \\ \frac{21}{10} \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{563}{270}$ |
| $x^{15} - 12x^{14} - 9x^{13} - 3x^{12} - 3x^{11} + 9x^{10} + 9x^9 - 9x^8 - 9x^7 + 9x^5 + 9x^4 - 3x^3 - 9x^2 - 9x + 12$ | $x^{15} - 15x^{13} - 3x^{12} + 90x^{11} + 36x^{10} - 240x^9 - 162x^8 + 135x^7 + 234x^6 + 567x^5 + 297x^4 - 585x^3 - 810x^2 - 675x - 315$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{21}{10} \\ \frac{21}{10} \\ \frac{21}{10} \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1693}{810}$ |
| $x^{15} - 3x^{14} - 9x^{13} + 6x^{11} + 9x^{10} + 3x^9 + 9x^8 - 9x^7 - 6x^6 - 9x^5 - 9x^4 - 12x^3 + 9x^2 - 9x - 12$ | $x^{15} - 69x^{13} - 183x^{12} + 1338x^{11} + 6948x^{10} + 3720x^9 - 33390x^8 - 53505x^7 + 60660x^6 + 206019x^5 + 57735x^4 - 191211x^3 + 46368x^2 + 244107x - 115113$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{21}{10} \\ \frac{21}{10} \\ \frac{21}{10} \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1693}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|--------------------|
| $x^{15} - 9x^{14} - 3x^{13} - 3x^{12} + 12x^{11} - 9x^{10} + 12x^9 - 9x^6 + 9x^4 + 9x^2 + 9x + 3$ | $x^{15} - 6x^{14} + 6x^{13} - 30x^{12} - 1134x^{11} - 7254x^{10} + 64542x^9 + 506178x^8 + 864900x^7 - 2284812x^6 - 7686900x^5 - 9997236x^4 - 14390604x^3 - 14717160x^2 - 7809804x - 8213652$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 21 \\ 10 \end{array} \begin{array}{c} 21 \\ 10 \end{array} \begin{array}{c} 21 \\ 10 \end{array} \begin{array}{c} 21 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1693}{810}$ |
| $x^{15} - 9x^{14} + 6x^{13} + 3x^{12} + 3x^{11} - 9x^{10} - 9x^9 - 9x^8 - 9x^7 - 9x^6 + 9x^5 + 9x^3 - 9x^2 + 9x - 12$ | $x^{15} - 5x^{12} + 10x^9 - 10x^6 + 5x^3 + 8$ | $\left[\begin{array}{c} 21 \\ 10 \end{array} \begin{array}{c} 21 \\ 10 \end{array} \begin{array}{c} 21 \\ 10 \end{array} \begin{array}{c} 21 \\ 10 \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{563}{270}$ |
| $x^{15} - 3x^{14} + 3x^{13} + 3x^{11} + 3x^3 - 3$ | $x^{15} - 30x^{12} + 270x^9 - 540x^6 - 1620x^3 + 6750$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 21 \\ 10 \end{array} \begin{array}{c} 21 \\ 10 \end{array} \begin{array}{c} 21 \\ 10 \end{array} \begin{array}{c} 21 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1693}{810}$ |
| $x^{15} - 3x^{14} + 3x^{12} + 3x^{11} + 3x^9 - 3x^3 + 3$ | $x^{15} + 30x^{11} - 504x^{10} + 1140x^9 - 2880x^8 + 28530x^7 - 134820x^6 + 340092x^5 - 520650x^4 + 498180x^3 - 288180x^2 + 90990x - 11982$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 21 \\ 10 \end{array} \begin{array}{c} 21 \\ 10 \end{array} \begin{array}{c} 21 \\ 10 \end{array} \begin{array}{c} 21 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1693}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|--------------------|
| $x^{15} + 3x^{14} + 3x^{13} - 3x^{12} + 3x^{11} + 3x^3 + 3$ | $x^{15} - 6x^{14} + 234x^{13} - 990x^{12} + 9030x^{11} - 77886x^{10} + 267036x^9 - 540954x^8 + 2550690x^7 - 16147560x^6 + 67747284x^5 - 179910054x^4 + 300453396x^3 - 306424530x^2 + 175074750x - 43129290$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{21}{10} \right]_4 \left[\begin{array}{c} 21 \\ 10 \\ 10 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1693}{810}$ |
| $x^{15} + 3x^{14} + 3x^{12} - 3x^{11} + 3x^9 - 3x^6 + 3x^3 + 3$ | $x^{15} - 6x^{14} + 57x^{13} - 241x^{12} + 1278x^{11} - 3432x^{10} + 10960x^9 - 3060x^8 - 39141x^7 + 404578x^6 - 1257315x^5 + 3734157x^4 - 6792481x^3 + 11172708x^2 - 10582185x + 8521027$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{21}{10} \right]_4 \left[\begin{array}{c} 21 \\ 10 \\ 10 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1693}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|--------------------|
| $x^{15} + 3x^{14} + 6x^{13} - 9x^{12} -$ $6x^{11} - 9x^{10} + 3x^9 - 9x^8 -$ $9x^6 - 9x^5 + 6x^3 + 9x + 3$ | $x^{15} - 20x^{12} + 40x^9 - 100x^6 + 650x^3 -$ 1750 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{21}{10} \frac{21}{10} \frac{21}{10} \right]_{10}^4$ | T: 15,44 | $\frac{1693}{810}$ |
| $x^{15} - 3x^{14} - 3x^{13} - 3x^{11} -$ $3x^3 - 3$ | $x^{15} + 45x^{13} - 75x^{12} + 690x^{11} -$ $1296x^{10} - 20220x^9 + 114210x^8 -$ $548505x^7 + 2518290x^6 - 7887573x^5 +$ $21803805x^4 - 44234865x^3 +$ $54223290x^2 - 35516835x + 9755997$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{21}{10} \frac{21}{10} \frac{21}{10} \right]_{10}^4$ | T: 15,44 | $\frac{1693}{810}$ |
| $x^{15} - 9x^{14} + 12x^{13} + 6x^{12} +$ $6x^{11} - 9x^{10} + 6x^9 + 9x^8 + 9x^7 -$ $9x^5 + 3x^3 - 9x^2 + 9x + 3$ | $x^{15} - 6x^{14} + 21x^{13} - 64x^{12} + 135x^{11} -$ $102x^{10} - 185x^9 + 180x^8 + 873x^7 -$ $206x^6 - 591x^5 - 96x^4 + 113x^3 + 54x^2 +$ $33x + 4$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{21}{10} \frac{21}{10} \frac{21}{10} \right]_{10}^4$ | T: 15,44 | $\frac{1693}{810}$ |
| $x^{15} + 3x^{14} + 3x^{13} + 3x^{12} +$ $3x^{11} - 3x^9 - 3x^6 - 3$ | $x^{15} - 140x^{12} + 24010x^9 - 1269100x^6 +$ 17767400x ³ - 294122500 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{21}{10} \frac{21}{10} \frac{21}{10} \right]_{10}^4$ | T: 15,44 | $\frac{1693}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{15} + 3x^{14} - 6x^{13} - 3x^{12} -$ $3x^{11} + 9x^{10} - 12x^9 - 9x^8 +$ $9x^7 + 12x^6 + 9x^5 + 9x^4 + 6x^3 +$ $9x^2 - 9x + 3$ | $x^{15} - 15x^{13} - 21x^{12} + 90x^{11} + 252x^{10} -$ $162x^9 - 1134x^8 - 567x^7 + 2034x^6 +$ $2673x^5 - 297x^4 - 2709x^3 - 2106x^2 -$ $621x - 63$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{21}{10} \frac{21}{10} \frac{21}{10} \frac{21}{10} \right]_{10}^4$ | T: 15,44 | $\frac{1693}{810}$ |
| $x^{15} + 12x^{14} + 6x^{13} + 6x^{12} -$ $3x^{11} - 9x^{10} - 9x^9 - 9x^8 -$ $9x^7 + 9x^5 - 6x^3 + 9x - 6$ | $x^{15} + 15x^{13} - 14x^{12} + 90x^{11} - 168x^{10} +$ $274x^9 - 756x^8 + 441x^7 - 1648x^6 +$ $351x^5 - 1950x^4 + 104x^3 - 1224x^2 -$ $12x - 328$ | $\left[\begin{array}{c} 21 \\ 10 \end{array} \frac{21}{10} \frac{21}{10} \frac{21}{10} \right]_{10}^4$ | T: 15,33 | $\frac{563}{270}$ |
| $x^{15} - 3x^{14} + 3x^{13} + 3x^{12} +$ $3x^{11} - 3$ | $x^{15} - 20x^{12} + 40x^9 + 800x^6 - 1600x^3 +$ 14000 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{21}{10} \frac{21}{10} \frac{21}{10} \frac{21}{10} \right]_{10}^4$ | T: 15,44 | $\frac{1693}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{15} - 9x^{14} - 9x^{12} - 12x^{11} +$ $9x^{10} - 9x^9 - 9x^6 + 9x^5 + 9x^4 -$ $3x^3 + 9x^2 + 9x - 6$ | $x^{15} - 6x^{14} - 15x^{13} - 29x^{12} +$ $3828x^{11} - 39534x^{10} + 223738x^9 -$ $847440x^8 + 2352357x^7 - 4971634x^6 +$ $8340279x^5 - 11032941x^4 +$ $11349455x^3 - 8264874x^2 +$ $4509933x + 2055959$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{21}{10} \frac{21}{10} \frac{21}{10} \frac{21}{10} \right]_{10}^4$ | T: 15,44 | $\frac{1693}{810}$ |
| $x^{15} - 3x^{14} - 3x^{11} - 3x^3 - 3$ | $x^{15} + 15x^{13} - 4x^{12} + 90x^{11} - 48x^{10} +$ $310x^9 - 216x^8 + 765x^7 - 512x^6 +$ $1323x^5 - 804x^4 + 1400x^3 - 720x^2 +$ $960x - 320$ | $\left[\begin{array}{c} 21 \\ 10 \end{array} \frac{21}{10} \frac{21}{10} \frac{21}{10} \frac{21}{10} \right]_{10}^4$ | T: 15,33 | $\frac{563}{270}$ |
| $x^{15} + 9x^{13} + 3x^{11} - 6x^9 - 6x^6 -$ $9x^4 + 9x^2 + 9x + 3$ | $x^{15} - 350x^{12} + 49000x^9 - 3430000x^6 +$ $120050000x^3 - 2626093750$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{21}{10} \frac{21}{10} \frac{21}{10} \frac{21}{10} \right]_{10}^4$ | T: 15,44 | $\frac{1693}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|--------------------|
| $x^{15} + 6x^{14} + 12x^{13} + 6x^{12} +$ $12x^{11} - 12x^9 - 9x^8 - 9x^7 +$ $9x^6 + 9x^4 - 3x^3 + 9x^2 - 12$ | $x^{15} - 70x^{12} + 4900x^9 - 274400x^6 +$ $6674780x^3 - 58824500$ | $\begin{bmatrix} 3 & 21 & 21 & 21 \\ 2 & 10 & 10 & 10 \end{bmatrix}_{10}^4$ | T: 15,44 | $\frac{1693}{810}$ |
| $x^{15} - 3x^{14} + 3x^{12} + 3x^{11} -$ $3x^9 - 3x^6 + 3x^3 + 3$ | $x^{15} - 105x^{12} - 17640x^9 - 926100x^6 -$ $27551475x^3 - 397065375$ | $\begin{bmatrix} 21 \\ 10 \end{bmatrix}_{10}^4 \begin{bmatrix} 21 & 21 \\ 10 & 10 \end{bmatrix}_{10}^4$ | T: 15,33 | $\frac{563}{270}$ |
| $x^{15} + 12x^{14} - 6x^{13} - 12x^{12} +$ $3x^{11} + 9x^9 - 9x^8 - 9x^7 + 9x^6 +$ $9x^5 - 9x^4 + 9x^2 - 9x + 3$ | $x^{15} - 160x^{12} + 11200x^9 - 274400x^6 +$ $2352980x^3 + 600250$ | $\begin{bmatrix} 3 & 21 & 21 & 21 \\ 2 & 10 & 10 & 10 \end{bmatrix}_{10}^4$ | T: 15,44 | $\frac{1693}{810}$ |
| $x^{15} + 3x^{13} + 3x^{12} - 3x^{11} + 3$ | $x^{15} - 6x^{14} + 51x^{13} - 266x^{12} - 384x^{11} +$ $2952x^{10} - 16742x^9 + 170982x^8 -$ $354447x^7 + 624002x^6 - 11201349x^5 +$ $39427014x^4 - 14750314x^3 -$ $88835196x^2 + 47468016x + 80492150$ | $\begin{bmatrix} 21 \\ 10 \end{bmatrix}_{10}^4 \begin{bmatrix} 21 & 21 \\ 10 & 10 \end{bmatrix}_{10}^4$ | T: 15,33 | $\frac{563}{270}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{15} + 6x^{14} + 9x^{13} - 3x^{12} -$ $12x^{11} - 9x^{10} + 9x^7 - 3x^6 +$ $9x^4 + 12x^3 - 9x + 3$ | $x^{15} - 15x^{13} + 90x^{11} - 255x^9 + 270x^7 -$ $90x^6 + 162x^5 + 540x^4 - 270x^3 -$ $810x^2 - 405x - 63$ | $\left[\begin{array}{c} 21 \\ 10 \end{array} \right]_{10} \left[\begin{array}{c} 21 \\ 10 \end{array} \right]_{10} \left[\begin{array}{c} 21 \\ 10 \end{array} \right]_{10} \left[\begin{array}{c} 21 \\ 10 \end{array} \right]_{10}$ | T: 15,33 | $\frac{563}{270}$ |
| $x^{15} + 3x^{14} + 3x^{13} + 3x^{12} -$ $3x^{11} - 3x^9 - 3$ | $x^{15} - 6x^{14} - 15x^{13} - 68x^{12} +$ $3900x^{11} - 37968x^{10} + 224158x^9 -$ $921600x^8 + 2813499x^7 - 6979900x^6 +$ $15508131x^5 - 30704466x^4 +$ $48255980x^3 - 52590378x^2 +$ $34428750x - 10175830$ | $\left[\begin{array}{c} 21 \\ 10 \end{array} \right]_{10} \left[\begin{array}{c} 21 \\ 10 \end{array} \right]_{10} \left[\begin{array}{c} 21 \\ 10 \end{array} \right]_{10} \left[\begin{array}{c} 21 \\ 10 \end{array} \right]_{10}$ | T: 15,33 | $\frac{563}{270}$ |
| $x^{15} + 3x^{14} - 3x^{13} - 3x^{12} +$ $6x^{11} + 9x^{10} - 12x^9 + 9x^7 +$ $9x^6 - 9x^4 - 9x^2 - 9x + 12$ | $x^{15} + 15x^{13} - 5x^{12} + 90x^{11} - 60x^{10} +$ $295x^9 - 270x^8 + 630x^7 - 595x^6 +$ $918x^5 - 735x^4 + 770x^3 - 495x^2 +$ $285x - 79$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_{10} \left[\begin{array}{c} 21 \\ 10 \end{array} \right]_{10} \left[\begin{array}{c} 21 \\ 10 \end{array} \right]_{10} \left[\begin{array}{c} 21 \\ 10 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1693}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|--------------------|
| $x^{15} - 12x^{13} + 6x^{12} - 9x^{10} + 3x^9 + 9x^7 - 6x^6 - 9x^5 - 9x^4 - 6$ | $x^{15} - 15x^{12} + 90x^9 - 450x^6 + 2025x^3 - 3375$ | $\left[\begin{matrix} 23 & 23 & 23 \\ 10 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} - 6x^{14} - 3x^{13} - 9x^{12} - 9x^{11} - 9x^{10} + 3x^9 + 9x^7 - 3x^6 - 12x^3 + 9x^2 - 9x - 3$ | $x^{15} - 6x^{14} + 6x^{13} + 12290x^{12} - 147111x^{11} + 561498x^{10} + 20268856x^9 - 687656070x^8 + 4829910363x^7 - 157103028218x^6 + 710487404022x^5 + 205308007494x^4 - 206873910300871x^3 + 1376518418409810x^2 - 3339087661315020x - 242680775967673070$ | $\left[\begin{matrix} 3 & 23 & 23 \\ 2 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|--------------------|
| $x^{15} + 9x^{14} + 12x^{13} - 12x^{12} +$ $9x^{10} + 9x^9 - 9x^8 + 9x^7 - 6x^6 -$ $9x^5 + 9x^4 - 12x^3 + 9x^2 + 6$ | $x^{15} + 15x^{13} - 4x^{12} + 90x^{11} - 48x^{10} +$ $280x^9 - 216x^8 + 495x^7 - 452x^6 +$ $513x^5 - 444x^4 + 290x^3 - 180x^2 + 60x -$ 20 | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} + 9x^{14} - 12x^{13} - 3x^{12} -$ $9x^9 - 9x^7 - 6x^6 + 9x^5 - 6x^3 -$ $9x^2 + 3$ | $x^{15} - 5x^{12} - 98x^9 + 2378x^6 - 21853x^3 +$ 68921 | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} - 3x^{14} - 12x^{13} + 12x^{12} -$ $9x^{11} + 9x^{10} + 12x^9 + 9x^8 -$ $9x^7 + 12x^6 + 9x^5 - 9x^4 + 9x^2 -$ $9x - 6$ | $x^{15} - 20x^{12} + 40x^9 + 920x^6 + 2480x^3 +$ 2000 | $\left[\begin{array}{ccc} 3 & 23 & 23 \\ 2 & 10 & 10 \end{array} \right]_2 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} + 6x^{13} - 6x^{12} + 9x^{10} -$ $12x^9 - 9x^8 + 6x^6 + 9x^5 + 9x^4 -$ $6x^3 - 9x^2 - 3$ | $x^{15} - 70x^{12} + 1960x^9 + 137200x^6 -$ $18247600x^3 + 470596000$ | $\left[\begin{array}{ccc} 3 & 23 & 23 \\ 2 & 10 & 10 \end{array} \right]_2 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|--------------------|
| $x^{15} + 3x^{14} + 3x^{13} - 6x^{12} - 9x^{10} - 6x^9 + 9x^7 + 3x^6 + 9x^5 + 3x^3 + 9x^2 - 9x + 3$ | $x^{15} - 12x^{13} - 14x^{12} + 90x^{11} + 210x^{10} - 440x^9 - 2160x^8 - 1440x^7 + 5960x^6 + 8640x^5 - 24000x^4 - 104560x^3 - 173160x^2 - 140520x - 46120$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_2 \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 12x^{13} + 12x^{12} - 9x^{11} - 9x^9 - 9x^8 - 9x^7 - 6x^6 + 12x^3 - 9x^2 - 9x + 12$ | $x^{15} - 100x^{12} + 7000x^9 - 245000x^6 + 4287500x^3 - 30012500$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_2 \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 3x^{14} + 6x^{13} + 12x^{12} + 9x^{11} - 9x^{10} - 9x^9 - 6x^8 + 9x^7 - 6x^6 - 9x^5 - 9x^4 + 6x^3 - 9x^2 + 9x - 12$ | $x^{15} - 50x^{12} + 940x^9 - 4000x^6 + 5900x^3 - 2500$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_2 \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} + 3x^{14} + 6x^{13} + 12x^{12} + 9x^{11} - 12x^9 - 9x^8 + 9x^6 + 9x^4 - 12x^3 + 9x + 3$ | $x^{15} - 10x^{12} + 160x^9 - 2000x^6 + 10400x^3 - 14000$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_2 \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|--------------------|
| $x^{15} - 3x^{13} - 3x^{12} + 3x^6 - 3$ | $x^{15} - 385x^{12} + 51940x^9 - 2435300x^6 - 3229345x^3 - 14706125$ | $\left[\begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} + 3x^{14} - 12x^{13} - 6x^{12} - 9x^{11} + 9x^{10} + 9x^7 + 9x^6 + 12x^3 + 9x^2 + 9x + 6$ | $x^{15} - 280x^{12} + 29890x^9 - 1406300x^6 + 21368900x^3 + 205885750$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 3x^{14} + 3x^{13} - 12x^{12} - 9x^{10} - 12x^9 + 9x^8 + 9x^7 - 9x^6 - 9x^5 - 9x^4 + 3x^3 - 9x - 12$ | $x^{15} - 3x^{13} - 2x^{12} + 90x^{11} + 120x^{10} + 310x^9 + 540x^8 + 765x^7 + 1160x^6 - 135x^5 - 3570x^4 - 5320x^3 - 3600x^2 - 1200x - 160$ | $\left[\begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} - 6x^{13} - 9x^{12} - 9x^{11} + 9x^{10} - 9x^9 - 9x^8 + 9x^7 + 6x^6 - 9x^5 - 9x^4 - 6x^3 + 9x^2 - 9x + 3$ | $x^{15} - 93x^{13} - 277x^{12} + 2520x^{11} + 13020x^{10} - 11480x^9 - 185220x^8 - 275625x^7 + 434140x^6 - 1528065x^5 - 2067775x^4 - 5652125x^3 - 64610910x^2 - 32161395x - 6566735$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|--------------------|
| $x^{15} - 12x^{14} + 6x^{13} - 6x^{12} +$ $3x^9 - 9x^8 + 12x^6 - 9x^5 + 9x^4 +$ $3x^3 + 9x - 12$ | $x^{15} - 175x^{12} + 7840x^9 + 13720x^6 -$ $1788745x^3 - 14706125$ | $\left[\begin{array}{c} 23 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} + 3x^{14} + 3x^{13} + 9x^{12} -$ $9x^{11} + 12x^9 - 9x^7 + 3x^6 -$ $9x^5 - 9x^4 + 3x^3 + 9x^2 - 9x + 12$ | $x^{15} + 15x^{13} - 10x^{12} + 90x^{11} - 120x^{10} +$ $250x^9 + 945x^7 - 620x^6 + 4455x^5 +$ $1770x^4 + 1580x^3 + 6300x^2 + 4200x +$ 1000 | $\left[\begin{array}{c} 23 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} + 9x^{14} + 12x^{13} + 3x^{12} +$ $6x^9 - 9x^8 + 9x^7 - 9x^6 - 6x^3 -$ $9x^2 - 12$ | $x^{15} - 15x^{13} - 20x^{12} + 90x^{11} + 240x^{10} -$ $95x^9 - 1080x^8 - 1170x^7 + 1250x^6 +$ $4482x^5 + 3840x^4 - 1870x^3 - 8190x^2 -$ $8565x - 4027$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|--------------------|
| $x^{15} - 12x^{14} + 12x^{13} - 6x^{12} + 9x^{11} - 9x^{10} - 12x^9 + 6x^6 + 9x^5 + 9x^4 - 6x^3 + 9x^2 - 9x - 3$ | $x^{15} - 3x^{14} + 720x^{13} + 1820x^{12} + 185298x^{11} + 1699146x^{10} + 22973860x^9 + 398642220x^8 + 1903601241x^7 + 39946875589x^6 + 151057203972x^5 + 1910703234240x^4 + 8314625590364x^3 + 42128508695676x^2 + 197813561861376x + 311034579909232$ | $\left[\begin{matrix} 3 & 23 & 23 & 23 \\ 2 & 10 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 12x^{14} + 6x^{13} - 6x^{12} + 3x^9 + 9x^7 - 9x^6 - 9x^4 + 12x^3 - 9x^2 + 9x + 3$ | $x^{15} - 40x^{12} + 2380x^9 - 45080x^6 + 1015280x^3 - 4802000$ | $\left[\begin{matrix} 3 & 23 & 23 & 23 \\ 2 & 10 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|--------------------|
| $x^{15} + 9x^{14} + 6x^{13} - 9x^{10} +$ $3x^9 + 9x^8 + 9x^7 - 9x^5 + 9x^4 +$ $9x^3 + 9x^2 - 9x + 6$ | $x^{15} - 100x^{12} + 5530x^9 + 65170x^6 +$ $294980x^3 + 600250$ | $\left[\begin{array}{ccc} 3 & 23 & 23 \\ 2 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 6x^{14} + 3x^{13} - 12x^{12} +$ $9x^{11} - 9x^{10} - 6x^9 + 9x^8 -$ $3x^6 + 9x^5 + 9x^2 + 12$ | $x^{15} - 6x^{14} - 87x^{13} + 833x^{12} - 816x^{11} -$ $4722x^{10} - 22928x^9 + 224604x^8 -$ $82521x^7 - 1477748x^6 + 3213201x^5 -$ $1511781x^4 - 1967707x^3 +$ $17864418x^2 - 46925781x + 49307245$ | $\left[\begin{array}{ccc} 3 & 23 & 23 \\ 2 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 6x^{14} + 6x^{13} - 12x^{12} +$ $9x^{11} - 9x^{10} - 9x^7 - 9x^6 -$ $9x^5 - 9x^4 - 3x^3 - 9x - 3$ | $x^{15} - 140x^{12} + 7840x^9 - 137200x^6 +$ $192080x^3 - 6722800$ | $\left[\begin{array}{ccc} 3 & 23 & 23 \\ 2 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|--------------------|
| $x^{15} + 9x^{14} + 12x^{13} + 9x^{12} -$ $9x^{11} + 9x^{10} + 6x^9 - 12x^6 -$ $9x^4 - 6x^3 - 9x^2 - 9x - 6$ | $x^{15} - 15x^{13} - 18x^{12} + 90x^{11} + 216x^{10} -$ $150x^9 - 972x^8 - 675x^7 + 1584x^6 +$ $2997x^5 + 702x^4 - 2760x^3 - 3240x^2 -$ $1440x - 240$ | $\left[\begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4 \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}$ | T: 15,33 | $\frac{1849}{810}$ |
| Continued on next page | | | | |

Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------------------|--|----------|--------------------|
| x^{15} | $- 3x^{14} + 15x^{13} +$ | | | |
| | $32887x^{12} + 394824x^{11} -$ | | | |
| | $789504x^{10} + 1094385484x^9 -$ | | | |
| | $9760640148x^8 - 29168218656x^7 -$ | | | |
| $x^{15} + 3x^{14} + 6x^{13} + 9x^{12} +$ | $675916371292768x^6 +$ | | | |
| $9x^{11} - 3x^9 + 9x^8 - 9x^7 +$ | $1709906975297328x^5 -$ | | | |
| $12x^6 + 9x^4 - 6x^3 - 9x + 3$ | $15597588748123248x^4 +$ | $\left[\begin{matrix} 3 & 23 & 23 & 23 \\ 2 & 10 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| | $21279404414716274144x^3 +$ | | | |
| | $45219942894126924384x^2 -$ | | | |
| | $336915067234661344992x -$ | | | |
| | 226330371158529775843936 | | | |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{15} + 9x^{14} + 12x^{13} - 12x^{12} - 9x^{11} - 9x^9 + 9x^7 - 9x^6 + 9x^5 + 9x^4 + 3x^3 + 9x^2 - 9x - 3$ | $x^{15} + 15x^{13} - 20x^{12} + 90x^{11} - 330x^{10} + 430x^9 - 1350x^8 + 2565x^7 - 4870x^6 + 18495x^5 - 40110x^4 + 52280x^3 - 41400x^2 + 8700x + 6500$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} - 6x^{14} + 6x^{13} - 6x^{12} + 9x^{10} - 9x^9 + 9x^8 + 9x^7 + 9x^6 + 9x^5 + 9x^3 + 6$ | $x^{15} - 315x^{12} + 39690x^9 - 2006550x^6 + 37275525x^3 - 397065375$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} + 3x^{14} - 3x^{13} - 3x^{12} + 9x^{11} + 9x^8 - 3x^6 - 9x^5 - 12x^3 - 9x - 12$ | $x^{15} - 5x^{12} + 10x^9 - 25x^6 - 10x^3 - 1$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{15} + 3x^{14} + 3x^{13} - 3x^{12} - 9x^{11} + 6x^9 + 9x^8 - 9x^5 + 9x^4 - 12x^3 + 9x^2 + 9x + 12$ | $x^{15} - 6x^{14} + 30x^{13} + 230x^{12} - 3120x^{11} + 8220x^{10} + 221920x^9 + 618660x^8 - 666180x^7 - 4994240x^6 - 8440980x^5 - 17569680x^4 - 34167400x^3 - 38069880x^2 - 21458400x - 5019800$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \Big]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 3x^{14} - 6x^{13} - 3x^{12} + 9x^{10} - 9x^9 - 9x^8 + 9x^7 + 9x^6 - 9x^4 + 3x^3 - 9x^2 + 9x - 12$ | $x^{15} - 3x^{14} + 108x^{13} - 379x^{12} + 4371x^{11} - 17595x^{10} + 52396x^9 - 339471x^8 + 1020528x^7 - 1344212x^6 + 1481532x^5 - 752958x^4 - 334207x^3 + 692421x^2 - 460944x + 123547$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \Big]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 3x^{14} + 6x^{13} - 12x^{12} + 9x^{11} - 9x^{10} + 12x^9 + 9x^8 - 9x^7 - 12x^6 + 9x^5 - 9x^3 + 9x^2 + 9x - 12$ | $x^{15} - 490x^{12} + 85750x^9 - 6860000x^6 + 255106250x^3 - 3676531250$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \Big]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|--------------------|
| $x^{15} - 6x^{14} + 12x^{13} + 9x^{12} + 9x^{11} - 9x^{10} - 3x^9 - 9x^8 - 9x^7 + 12x^6 - 9x^5 - 9x^4 - 12x^3 - 9x^2 - 9x + 12$ | $x^{15} - 3x^{14} + 237x^{13} - 1019x^{12} + 8814x^{11} - 60834x^{10} + 1191394x^9 - 3952062x^8 - 43819803x^7 + 837504497x^6 - 5722341063x^5 + 25553320449x^4 - 79120055056x^3 + 193189428744x^2 - 347749075860x + 420799142348$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \left. \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_4^{10}$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 12x^{14} + 6x^{13} + 9x^{12} + 9x^{11} - 9x^{10} + 9x^9 - 9x^7 + 3x^6 - 9x^5 + 9x^3 + 9x^2 + 6$ | $x^{15} - 260x^{12} + 24640x^9 - 1019200x^6 + 20854400x^3 - 384160000$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \left. \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_4^{10}$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 9x^{14} - 3x^{13} + 12x^{12} + 9x^{11} + 9x^{10} + 12x^9 + 9x^8 + 6x^6 - 9x^5 - 9x^4 - 6x^3 + 9x^2 - 3$ | $x^{15} - 20x^{12} + 160x^9 - 640x^6 + 1280x^3 - 1000$ | $\left[\begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \left. \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_4^{10}$ | T: 15,33 | $\frac{1849}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|--------------------|
| $x^{15} + 12x^{14} + 12x^{13} - 12x^{12} - 9x^{10} + 3x^9 + 9x^8 - 9x^7 - 9x^6 + 9x^5 + 9x^4 + 6x^3 - 9x - 6$ | $x^{15} + 57x^{13} - 58x^{12} + 630x^{11} + 3360x^{10} - 11690x^9 + 317520x^8 - 1788255x^7 + 10565380x^6 - 44776935x^5 + 203999250x^4 - 635688760x^3 + 1545043500x^2 - 2088005640x + 2084932360$ | $\left[\begin{matrix} 23 & 23 & 23 \\ 10 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} - 12x^{14} + 3x^{13} - 12x^{12} - 9x^{11} + 9x^{10} + 6x^9 + 9x^8 - 12x^6 - 9x^5 - 9x^4 + 3x^3 + 9x^2 - 3$ | $x^{15} + 15x^{13} - 10x^{12} + 90x^{11} - 120x^{10} + 340x^9 - 540x^8 + 1035x^7 - 1040x^6 + 2133x^5 - 570x^4 + 1910x^3 + 360x^2 + 60x + 4$ | $\left[\begin{matrix} 23 & 23 & 23 \\ 10 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} + 6x^{14} - 6x^{13} + 6x^{12} - 9x^{11} - 9x^{10} - 12x^9 + 9x^7 + 9x^6 + 9x^5 + 9x^4 - 6x^3 + 9x^2 - 3$ | $x^{15} - 15x^{13} - 5x^{12} + 90x^{11} + 60x^{10} - 260x^9 - 270x^8 + 315x^7 + 620x^6 + 27x^5 - 885x^4 - 355x^3 + 720x^2 + 255x - 307$ | $\left[\begin{matrix} 3 & 23 & 23 \\ 2 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|--------------------|
| $x^{15} - 6x^{14} + 27x^{13} + 1876x^{12} - 15969x^{11} + 29646x^{10} + 2160559x^9 - 32067396x^8 + 278646525x^7 - 1552860898x^6 + 5769576591x^5 - 9218401812x^4 - 18765496150x^3 + 223543955748x^2 - 962648363538x + 1478861240888$ | $x^{15} - 6x^{14} + 27x^{13} + 1876x^{12} - 15969x^{11} + 29646x^{10} + 2160559x^9 - 32067396x^8 + 278646525x^7 - 1552860898x^6 + 5769576591x^5 - 9218401812x^4 - 18765496150x^3 + 223543955748x^2 - 962648363538x + 1478861240888$ | $\left[\begin{array}{c} 23 \\ 10 \end{array} \right]_{10} \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} - 3x^{14} - 6x^{13} + 12x^{12} + 9x^{11} + 9x^{10} + 3x^9 + 9x^6 + 9x^5 + 9x^2 + 9x + 3$ | $x^{15} - 117x^{13} - 267x^{12} + 10062x^{11} - 9306x^{10} - 315540x^9 + 631908x^8 + 5636493x^7 - 15736878x^6 - 61165773x^5 + 228000825x^4 + 451218087x^3 - 3212231418x^2 + 5596438473x - 3375852363$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_{10} \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|--------------------|
| $x^{15} - 9x^{14} - 6x^{13} + 9x^{12} - 9x^{11} + 9x^{10} + 9x^9 + 9x^8 + 9x^7 + 9x^5 + 9x^4 + 6x^3 - 3$ | $x^{15} - 33x^{13} - 37x^{12} + 360x^{11} + 930x^{10} - 530x^9 - 6750x^8 - 14085x^7 + 1900x^6 + 61695x^5 + 101505x^4 + 36125x^3 - 61200x^2 - 67425x - 20285$ | $\begin{bmatrix} 3 & 23 & 23 & 23 & 23 \\ 2 & 10 & 10 & 10 & 10 \end{bmatrix}^4_{10}$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} + 9x^{14} - 3x^{13} + 9x^{11} + 9x^{10} - 3x^9 - 9x^8 + 9x^6 + 9x^4 - 9x^3 - 9x + 12$ | $x^{15} - 182x^{12} + 13720x^9 - 548800x^6 + 12005000x^3 - 117649000$ | $\begin{bmatrix} 23 & 23 & 23 & 23 \\ 10 & 10 & 10 & 10 \end{bmatrix}^4_{10}$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} - 9x^{14} - 3x^{13} + 6x^{12} + 9x^{11} - 9x^{10} - 9x^9 + 9x^8 + 9x^7 - 6x^6 + 9x^5 - 9x^4 - 3x^3 - 9x^2 + 3$ | $x^{15} - 45x^{12} + 450x^9 + 3150x^6 + 5805x^3 + 3375$ | $\begin{bmatrix} 23 & 23 & 23 & 23 \\ 10 & 10 & 10 & 10 \end{bmatrix}^4_{10}$ | T: 15,33 | $\frac{1849}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|--------------------|
| $x^{15} - 12x^{14} + 12x^{13} - 6x^{12} - 9x^{11} - 9x^{10} + 9x^9 - 9x^8 - 3x^6 - 9x^4 - 6x^3 - 9x^2 + 9x + 3$ | $x^{15} - 6x^{14} + 39x^{13} - 540x^{12} + 4374x^{11} - 24732x^{10} + 160656x^9 - 1096470x^8 + 5717205x^7 - 21048678x^6 + 55757421x^5 - 109734138x^4 + 163815888x^3 - 181769868x^2 + 134897616x - 49316808$ | $\left[\begin{array}{c} 23 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} - 12x^{13} - 3x^9 - 9x^7 + 9x^6 + 9x^5 - 9x^4 - 3x^3 + 9x^2 + 9x - 3$ | $x^{15} - 630x^{12} + 114660x^9 - 3395700x^6 - 51861600x^3 - 1588261500$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|--------------------|
| $x^{15} + 12x^{13} - 3x^{12} - 9x^{11} +$ $9x^{10} + 3x^9 + 9x^7 + 6x^6 + 9x^5 -$ $9x^4 + 9x^3 - 9x + 3$ | $x^{15} - 6x^{14} - 51x^{13} + 14x^{12} + 5394x^{11} +$ $11136x^{10} - 355988x^9 - 552618x^8 +$ $10449657x^7 + 17167942x^6 -$ $135213315x^5 - 252025566x^4 +$ $679491164x^3 + 1243856424x^2 -$ $1537026846x - 2745976142$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} - 3x^{14} + 3x^{13} - 6x^{12} -$ $9x^{11} + 9x^{10} - 9x^9 + 9x^8 + 6x^6 -$ $9x^5 - 9x^4 - 9x^3 - 9x^2 + 6$ | $x^{15} - 93x^{13} - 536x^{12} + 252x^{11} +$ $21720x^{10} + 152410x^9 + 436518x^8 -$ $560799x^7 - 11463232x^6 -$ $68533137x^5 - 289783860x^4 -$ $868128142x^3 - 1683593784x^2 -$ $1871665212x - 904660666$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{15} + 6x^{14} + 12x^{13} - 12x^{12} + 9x^{11} - 9x^{10} - 6x^9 + 9x^7 - 12x^6 - 9x^5 - 3x^3 - 9x^2 + 9x + 6$ | $x^{15} - 15x^{13} - 17x^{12} + 90x^{11} + 204x^{10} - 170x^9 - 918x^8 - 495x^7 + 1556x^6 + 2457x^5 + 303x^4 - 2305x^3 - 2520x^2 - 1185x - 235$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 12x^{14} + 12x^{13} + 3x^{12} + 9x^{11} - 9x^9 - 9x^7 - 12x^6 - 9x^3 + 9x^2 + 6$ | $x^{15} - 6x^{14} + 99x^{13} - 589x^{12} + 3900x^{11} - 14652x^{10} + 34072x^9 + 79272x^8 + 656973x^7 - 5395490x^6 + 21171261x^5 - 53028261x^4 + 72426659x^3 - 48751944x^2 + 14527665x - 1327475$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 6x^{14} + 12x^{13} - 6x^{12} + 9x^{10} + 12x^9 + 9x^8 - 9x^6 + 9x^2 - 3$ | $x^{15} + 15x^{13} - 10x^{12} + 90x^{11} - 120x^{10} + 295x^9 - 540x^8 + 630x^7 - 1160x^6 + 918x^5 - 1290x^4 + 770x^3 - 720x^2 + 285x - 164$ | $\left[\begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|--------------------|
| $x^{15} + 3x^{14} - 3x^{13} - 3x^{12} - 9x^{11} + 9x^{10} + 3x^9 - 9x^8 + 9x^6 + 9x^4 - 9x^3 - 9x - 6$ | $x^{15} - 16100x^{12} + 5267500x^9 + 551972750000x^6 + 107208401562500x^3 + 180993007343750000$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 6x^{14} + 3x^{13} + 9x^{12} - 9x^{11} + 9x^{10} - 9x^9 + 3x^6 + 12x^3 - 9x - 6$ | $x^{15} - 3x^{14} + 108x^{13} - 436x^{12} + 4695x^{11} - 20907x^{10} + 60946x^9 - 331686x^8 + 917622x^7 - 1636520x^6 + 4148736x^5 - 4740228x^4 + 5696588x^3 - 6169656x^2 + 3097980x - 436340$ | $\left[\begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} + 3x^{14} + 6x^{13} + 3x^{12} + 9x^{11} + 3x^9 - 9x^8 - 9x^7 - 6x^6 - 9x^5 - 9x^4 - 12x^3 + 9x^2 + 9x + 12$ | $x^{15} - 10x^{12} + 40x^9 - 50x^6 - 100x^3 + 250$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|--------------------|
| $x^{15} - 6x^{14} + 6x^{13} + 17540x^{12} -$ $210111x^{11} + 802158x^{10} +$ $41891296x^9 - 1403079660x^8 +$ $9854131383x^7 - 442961922098x^6 +$ $2032182903342x^5 +$ $672120564684x^4 -$ $860521643688121x^3 +$ $5738671434348570x^2 -$ $13912329325179900x -$ 1445128010349292100 | $x^{15} - 6x^{14} + 6x^{13} + 17540x^{12} -$ $210111x^{11} + 802158x^{10} +$ $41891296x^9 - 1403079660x^8 +$ $9854131383x^7 - 442961922098x^6 +$ $2032182903342x^5 +$ $672120564684x^4 -$ $860521643688121x^3 +$ $5738671434348570x^2 -$ $13912329325179900x -$ 1445128010349292100 | $\begin{bmatrix} 3 & 23 & 23 & 23 & 23 \\ 2 & 10 & 10 & 10 & 10 \end{bmatrix}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 12x^{14} - 12x^{13} - 9x^{10} +$ $6x^9 + 9x^8 + 9x^6 + 9x^5 - 9x^4 -$ $12x^3 + 9x^2 - 9x - 6$ | $x^{15} + 15x^{13} - 5x^{12} + 90x^{11} - 60x^{10} +$ $280x^9 - 270x^8 + 495x^7 - 550x^6 +$ $513x^5 - 465x^4 + 275x^3 - 90x^2 + 15x - 4$ | $\begin{bmatrix} 3 & 23 & 23 & 23 & 23 \\ 2 & 10 & 10 & 10 & 10 \end{bmatrix}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|--------------------|
| $x^{15} + 6x^{13} + 6x^{12} + 9x^{11} - 9x^{10} + 3x^9 + 9x^8 + 9x^7 + 6x^6 - 9x^4 - 3x^3 + 9x^2 + 6$ | $x^{15} - 60x^{12} + 1170x^9 - 7740x^6 + 13230x^3 - 6750$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \Big]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 3x^{14} - 12x^{13} - 6x^{12} + 3x^9 + 9x^8 - 9x^7 - 9x^6 + 9x^5 + 9x^3 + 9x + 12$ | $x^{15} - 10x^{12} - 20x^9 - 80x^6 - 70x^3 - 50$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \Big]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|----------|--------------------|
| $x^{15} - 3x^{14} + 15x^{13} -$ $333213x^{12} + 623304x^{11} -$ $4386384x^{10} + 38302911804x^9 +$ $27762343812x^8 - 517438353456x^7 -$ $2047928165983368x^6 +$ $858905769795048x^5 +$ $2604589188494112x^4 +$ $34020715400669685894x^3 +$ $45646455140105001174x^2 -$ $166338320295062928582x -$ 304442242531481953734366 | | $\left[\begin{matrix} 3 & 23 & 23 & 23 \\ 2 & 10 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 3x^{14} + 6x^{13} - 12x^9 -$ $9x^8 - 9x^7 - 9x^4 + 9x^3 - 9x^2 +$ 12 | | $\left[\begin{matrix} 23 & 23 & 23 \\ 10 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|--------------------|
| $x^{15} + 12x^{14} + 12x^{13} - 3x^{12} - 9x^{11} + 9x^{10} + 9x^9 - 9x^8 + 12x^6 - 6x^3 - 9x^2 + 9x - 6$ | $x^{15} - 93x^{13} - 223x^{12} + 2520x^{11} + 10500x^{10} - 15680x^9 - 145530x^8 - 130095x^7 + 522340x^6 - 972405x^5 - 8360625x^4 - 7170415x^3 - 10156230x^2 - 6014505x - 5918465$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 6x^{13} - 3x^{12} - 6x^9 + 9x^6 - 9x^5 + 9x^4 + 3x^3 + 9x^2 - 3$ | $x^{15} + 3x^{13} - 21x^{12} + 90x^{11} + 90x^{10} - 120x^9 - 270x^8 - 135x^7 + 570x^6 + 2025x^5 + 2295x^4 + 1965x^3 + 810x^2 - 45x - 105$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|--------------------|
| $x^{15} - 12x^{14} + 6x^{13} - 9x^{12} +$ $9x^9 - 9x^8 - 9x^7 + 12x^6 - 9x^5 +$ $9x^4 - 6x^3 - 9x^2 + 9x - 6$ | $x^{15} - 6x^{14} + 6x^{13} + 380x^{12} - 1707x^{11} +$ $15486x^{10} + 84106x^9 + 546336x^8 -$ $2768679x^7 + 13442350x^6 -$ $122785548x^5 - 1919568360x^4 +$ $2293949288x^3 - 72620765520x^2 +$ $58940013408x - 760256264384$ | $\left[\begin{array}{c} 23 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} - 6x^{14} + 6x^{13} - 3x^{12} +$ $9x^{11} - 6x^9 - 9x^8 - 9x^7 +$ $12x^6 - 9x^5 + 9x^4 - 9x^2 - 9x - 6$ | $x^{15} - 56x^{12} + 1288x^9 + 34112x^6 -$ $632056x^3 + 4410944$ | $\left[\begin{array}{c} 23 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} + 6x^{14} - 12x^{13} + 9x^{11} +$ $9x^{10} + 9x^8 - 9x^7 + 3x^6 + 9x^4 +$ $9x^3 + 9x^2 - 9x - 6$ | $x^{15} - 280x^{12} + 24010x^9 - 891800x^6 +$ $10564400x^3 - 58824500$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|--------------------|
| $x^{15} - 6x^{13} + 12x^{12} - 9x^{11} -$ $12x^9 + 9x^8 + 9x^7 + 9x^4 + 9x^3 -$ 12 | $x^{15} - 93x^{13} - 197x^{12} + 2520x^{11} +$ $8400x^{10} - 20930x^9 - 92610x^8 +$ $94815x^7 + 411110x^6 - 3472875x^5 -$ $26152035x^4 - 82061035x^3 -$ $138297600x^2 - 121190475x -$ 43422085 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 9x^{14} + 3x^{13} - 9x^{11} -$ $9x^8 - 6x^6 - 9x^5 - 9x^4 - 12x^3 -$ $9x^2 + 9x - 3$ | $x^{15} - 6x^{14} + 63x^{13} - 116x^{12} - 3639x^{11} +$ $27342x^{10} - 49937x^9 - 1119672x^8 +$ $14220234x^7 - 92383732x^6 +$ $392338302x^5 - 1143868032x^4 +$ $2272508636x^3 - 2942366280x^2 +$ 2244345444x - 768449632 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|--------------------|
| $x^{15} + 6x^{14} + 12x^{13} - 12x^{12} - 9x^9 + 9x^8 + 9x^7 + 9x^6 - 9x^5 + 9x^4 - 6x^3 + 9x + 12$ | $x^{15} + 15x^{13} - 7x^{12} + 90x^{11} - 84x^{10} + 292x^9 - 378x^8 + 603x^7 - 818x^6 + 837x^5 - 939x^4 + 671x^3 - 558x^2 + 231x - 131$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} + 12x^{14} - 6x^{13} + 9x^{12} - 9x^{11} - 9x^{10} + 3x^9 - 9x^8 + 9x^7 - 9x^6 - 9x^5 - 12x^3 + 9x^2 - 9x - 6$ | $x^{15} + 15x^{13} - x^{12} + 90x^{11} - 12x^{10} + 250x^9 - 54x^8 + 225x^7 - 68x^6 - 297x^5 + 159x^4 - 565x^3 + 360x^2 - 75x + 145$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 12x^{14} - 12x^{13} - 3x^{12} + 9x^{11} - 12x^9 - 9x^7 + 6x^6 - 12x^3 + 9x^2 - 12$ | $x^{15} - 280x^{12} + 37240x^9 - 2497040x^6 + 80865680x^3 - 235298000$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{15} + 6x^{14} + 12x^{13} + 9x^{12} + 9x^{11} - 9x^{10} - 12x^9 - 9x^8 - 9x^7 - 6x^6 - 9x^5 + 9x^4 - 9x^3 + 9x + 3$ | $x^{15} - 3x^{14} + 36x^{13} - 1656x^{12} + 3960x^{11} - 160452x^{10} + 1522758x^9 - 10458522x^8 + 188331570x^7 - 922415994x^6 + 6576958080x^5 - 25256993508x^4 - 14496125769x^3 + 22152597795x^2 + 41531168664x - 36722337912$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 3x^{13} + 12x^{12} - 9x^{11} - 12x^9 + 9x^8 + 9x^7 - 9x^5 + 6x^3 + 9x^2 + 6$ | $x^{15} - 180x^{12} + 10710x^9 - 286650x^6 + 6019650x^3 + 16206750$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} + 6x^{14} + 6x^{13} - 6x^{12} - 9x^9 + 9x^8 - 3x^6 + 9x^3 + 9x^2 + 9x + 3$ | $x^{15} - 945x^{12} + 339570x^9 - 57479940x^6 + 4558310505x^3 - 136193423625$ | $\left[\begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{15} - 12x^{14} + 6x^{13} - 3x^{12} + 9x^{10} - 9x^9 - 9x^6 + 9x^5 - 9x^4 - 6x^3 + 9x + 3$ | $x^{15} - 6x^{14} + 6x^{13} + 75x^{12} - 504x^{11} - 4104x^{10} + 10362x^9 + 140148x^8 + 360900x^7 - 318582x^6 - 3497400x^5 - 5220576x^4 + 7458321x^3 + 30433050x^2 + 27568476x + 753243$ | $\left[\begin{array}{c} 23 \\ 10 \end{array} \right]_{10} \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} + 12x^{14} - 3x^{13} - 12x^{12} + 9x^{11} - 9x^{10} + 12x^9 + 9x^8 - 6x^6 - 9x^5 + 9x^4 - 9x^3 - 9x^2 + 9x - 12$ | $x^{15} - 30x^{12} + 180x^9 + 1530x^6 - 8370x^3 - 66150$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_{10} \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} + 6x^{14} - 3x^{13} - 9x^{10} + 6x^9 + 9x^8 - 9x^7 - 3x^6 + 9x^5 - 9x^4 + 6x^3 - 9x^2 + 9x - 3$ | $x^{15} - 70x^{12} + 1240x^9 + 4750x^6 + 5150x^3 + 1750$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_{10} \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{15} - 12x^{13} + 3x^{12} + 9x^{10} - 3x^9 + 9x^8 - 9x^7 - 12x^6 + 6x^3 - 9x^2 - 9x - 3$ | $x^{15} - 20x^{12} + 160x^9 - 400x^6 + 650x^3 - 250$ | $\begin{bmatrix} 3 & 23 & 23 & 23 \\ 2 & 10 & 10 & 10 \end{bmatrix}_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 9x^{14} - 6x^{13} - 9x^{11} - 9x^{10} - 9x^8 - 9x^7 + 6x^6 + 9x^5 + 9x^2 + 9x - 3$ | $x^{15} + 3x^{13} - 19x^{12} + 90x^{11} - 60x^{10} - 200x^9 + 540x^8 - 45x^7 - 1880x^6 + 4185x^5 - 4515x^4 + 2105x^3 + 900x^2 - 1725x + 655$ | $\begin{bmatrix} 3 & 23 & 23 & 23 \\ 2 & 10 & 10 & 10 \end{bmatrix}_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 12x^{14} + 6x^{13} + 12x^{12} + 9x^{11} - 3x^9 - 9x^5 - 9x^2 - 6$ | $x^{15} - 10x^{12} - 80x^9 + 1600x^6 - 4720x^3 + 4000$ | $\begin{bmatrix} 3 & 23 & 23 & 23 \\ 2 & 10 & 10 & 10 \end{bmatrix}_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} + 6x^{14} - 6x^{13} - 9x^{12} + 9x^{11} + 9x^{10} - 9x^9 - 9x^8 - 12x^6 + 9x^5 + 9x^4 + 3x^3 + 9x^2 - 9x + 12$ | $x^{15} - 3x^{13} - 14x^{12} + 1008x^{11} + 2478x^{10} + 6664x^9 + 7938x^8 + 289737x^7 + 963830x^6 + 1805895x^5 + 2702154x^4 + 2828378x^3 + 1728720x^2 + 576240x + 33614$ | $\begin{bmatrix} 23 & 23 & 23 & 23 \\ 10 & 10 & 10 & 10 \end{bmatrix}_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{15} + 6x^{14} - 6x^{13} - 12x^{12} - 9x^{11} - 9x^8 - 12x^6 - 9x^5 + 9x^4 + 3x^3 - 9x - 12$ | $x^{15} - 15x^{13} - 15x^{12} + 90x^{11} + 180x^{10} - 390x^9 - 810x^8 + 1485x^7 + 1320x^6 - 3483x^5 + 585x^4 + 2925x^3 - 2700x^2 + 945x - 138$ | $\begin{bmatrix} 3 & 23 & 23 & 23 \\ 2 & 10 & 10 & 10 \end{bmatrix}^4_{10}$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} + 6x^{14} - 3x^{13} + 12x^{12} + 9x^{10} - 3x^9 - 9x^8 + 9x^7 + 6x^6 + 9x^5 - 9x^4 - 3x^3 - 9x^2 - 9x + 6$ | $x^{15} - 10x^{12} + 100x^9 - 290x^6 + 530x^3 + 250$ | $\begin{bmatrix} 3 & 23 & 23 & 23 \\ 2 & 10 & 10 & 10 \end{bmatrix}^4_{10}$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 6x^{14} + 12x^{13} + 6x^{12} - 6x^9 + 9x^8 - 9x^7 - 3x^6 - 9x^5 + 9x^4 - 9x^3 - 9x^2 + 3$ | $x^{15} - 3x^{13} - x^{12} - 72x^{11} - 48x^{10} + 424x^9 + 432x^8 - 423x^7 - 740x^6 - 135x^5 + 321x^4 + 263x^3 + 90x^2 + 15x + 1$ | $\begin{bmatrix} 3 & 23 & 23 & 23 \\ 2 & 10 & 10 & 10 \end{bmatrix}^4_{10}$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} + 6x^{14} + 6x^{13} + 12x^{12} - 9x^{10} + 3x^9 + 3x^6 - 9x^5 - 6x^3 + 9x^2 + 9x + 6$ | $x^{15} - 20x^{12} - 350x^9 + 13250x^6 - 21250x^3 + 218750$ | $\begin{bmatrix} 3 & 23 & 23 & 23 \\ 2 & 10 & 10 & 10 \end{bmatrix}^4_{10}$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|--------------------|
| $x^{15} + 12x^{14} - 3x^{13} - 12x^{12} -$ $9x^{11} - 12x^9 - 9x^8 - 9x^7 -$ $12x^6 + 9x^5 - 12x^3 - 9x^2 -$ $9x - 12$ | $x^{15} - 175x^{12} + 9310x^9 - 171500x^6 +$ $660275x^3 - 14706125$ | $\left[\begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} + 3x^{14} - 3x^{13} + 12x^{12} -$ $9x^{11} - 9x^{10} + 6x^9 + 9x^7 - 6x^6 -$ $9x^4 - 3x^3 + 9x + 12$ | $x^{15} - 35x^{12} + 22540x^9 - 3018400x^6 +$ $130314275x^3 - 1838265625$ | $\left[\begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} - 3x^{14} + 12x^{13} - 12x^{12} -$ $9x^{11} + 9x^{10} + 6x^9 - 9x^8 + 9x^5 +$ $9x^4 - 9x^3 - 9x^2 + 9x - 6$ | $x^{15} - 6x^{14} + 39x^{13} - 607x^{12} + 3954x^{11} -$ $22290x^{10} + 177952x^9 - 1017972x^8 +$ $3879153x^7 - 13073594x^6 +$ $40876599x^5 - 93642351x^4 +$ $145080803x^3 - 179748546x^2 +$ $191204625x - 107483885$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|--------------------|
| $x^{15} - 6x^{14} - 699x^{13} +$ $1544x^{12} + 233949x^{11} +$ $192846x^{10} - 4490955x^9 -$ $137192796x^8 + 5124582648x^7 +$ $23571361696x^6 - 347670079872x^5 -$ $1799178345024x^4$ $12324296579540x^3$ $41871409916088x^2$ $110151603179484x$ 4688386704279088 | $x^{15} - 6x^{14} - 699x^{13} +$ $1544x^{12} + 233949x^{11} +$ $192846x^{10} - 4490955x^9 -$ $137192796x^8 + 5124582648x^7 +$ $23571361696x^6 - 347670079872x^5 -$ $1799178345024x^4$ $12324296579540x^3$ $41871409916088x^2$ $110151603179484x$ 4688386704279088 | $\left[\begin{matrix} 23 & 23 & 23 \\ 10 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} + 12x^{14} - 6x^{13} - 3x^{12} -$ $9x^{10} + 12x^9 - 9x^8 - 9x^7 +$ $3x^6 + 9x^5 - 9x^4 - 3x^3 - 3$ | $x^{15} - 15x^{13} + 90x^{11} - 285x^9 + 540x^7 -$ $60x^6 - 648x^5 + 360x^4 + 390x^3 -$ $540x^2 + 45x - 3$ | $\left[\begin{matrix} 3 & 23 & 23 \\ 2 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{15} - 3x^{14} - 12x^{13} + 3x^{12} - 9x^{10} + 3x^9 + 3x^6 - 9x^5 + 9x^3 + 9x + 12$ | $x^{15} - 40x^{12} + 520x^9 - 2240x^6 + 320x^3 - 32$ | $\begin{bmatrix} 3 & 23 & 23 & 23 \\ 2 & 10 & 10 & 10 \end{bmatrix}_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 3x^{14} + 6x^{13} + 12x^{12} + 9x^{11} + 9x^{10} - 6x^6 - 9x^4 + 9x^3 + 9x + 3$ | $x^{15} - 126x^{12} + 5292x^9 - 98784x^6 + 1555848x^3 - 25412184$ | $\begin{bmatrix} 23 & 23 & 23 & 23 \\ 10 & 10 & 10 & 10 \end{bmatrix}_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} + 12x^{14} + 3x^{13} + 6x^{12} + 3x^9 + 9x^7 + 3x^6 + 9x^5 - 12x^3 + 9x^2 + 9x - 3$ | $x^{15} - 15x^{13} - 5x^{12} + 90x^{11} + 60x^{10} - 260x^9 - 270x^8 + 315x^7 + 530x^6 + 27x^5 - 345x^4 - 265x^3 - 90x^2 - 15x + 287$ | $\begin{bmatrix} 23 & 23 & 23 & 23 \\ 10 & 10 & 10 & 10 \end{bmatrix}_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} + 3x^{14} - 12x^{13} + 12x^{12} + 9x^{11} - 9x^{10} - 9x^9 + 9x^8 + 9x^7 + 12x^6 + 9x^5 + 9x^4 + 12x^3 + 9x^2 + 6$ | $x^{15} - 20x^{12} + 100x^9 + 50x^6 - 70x^3 + 50$ | $\begin{bmatrix} 3 & 23 & 23 & 23 \\ 2 & 10 & 10 & 10 \end{bmatrix}_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|--------------------|
| $x^{15} - 12x^{14} - 6x^{13} - 9x^{12} - 9x^9 - 12x^6 - 9x^5 + 9x^4 + 3x^3 + 9x - 6$ | $x^{15} - 15x^{13} + 90x^{11} - 285x^9 + 540x^7 - 648x^5 + 510x^3 - 315x - 123$ | $\left[\begin{array}{c} 23 \\ 10 \end{array} \right]_2 \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} + 3x^{14} - 6x^{13} + 9x^{12} + 9x^{11} - 9x^{10} + 9x^9 + 9x^8 + 9x^7 + 3x^6 + 9x^5 - 9x^4 + 6x^3 - 9x^2 - 6$ | $x^{15} - 3x^{13} - 7x^{12} + 90x^{11} - 210x^{10} + 370x^9 - 270x^8 + 315x^7 + 40x^6 - 675x^5 + 465x^4 + 365x^3 - 720x^2 - 705x - 185$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4 \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} + 6x^{14} - 6x^{13} + 12x^{12} - 9x^{11} - 9x^{10} - 3x^9 - 9x^8 + 9x^7 + 12x^6 + 9x^5 - 9x^4 + 3x^3 - 9x^2 - 3$ | $x^{15} + 15x^{13} - 5x^{12} + 90x^{11} - 60x^{10} + 280x^9 - 270x^8 + 495x^7 - 520x^6 + 513x^5 - 285x^4 + 155x^3 + 180x^2 - 345x + 131$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2 \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4 \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 12x^{14} - 3x^{13} - 3x^{12} + 9x^{11} - 9x^{10} - 9x^9 + 9x^8 + 9x^7 - 6x^6 + 9x^5 + 6x^3 - 9x^2 + 9x + 12$ | $x^{15} - 70x^{12} + 1960x^9 - 27440x^6 + 192080x^3 - 941192$ | $\left[\begin{array}{c} 23 \\ 10 \end{array} \right]_2 \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4 \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{15} + 12x^{14} - 12x^{13} - 3x^{12} +$ $9x^{11} + 9x^{10} + 3x^9 - 9x^8 + 9x^7 +$ $3x^6 + 9x^4 - 9x^2 + 9x - 6$ | $x^{15} - x^{12} - 8x^9 + 16x^6 - 7x^3 + 1$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} - 3x^{14} + 3x^{13} - 12x^{12} +$ $9x^{11} - 9x^{10} - 9x^8 + 9x^6 -$ $9x^5 + 9x^4 + 3$ | $x^{15} - 3x^{13} - 46x^{12} + 1008x^{11} -$ $4368x^{10} + 11494x^9 - 74088x^8 +$ $470547x^7 - 1932560x^6 + 4862025x^5 -$ $11314884x^4 + 32659088x^3 -$ $54886860x^2 + 33421920x - 6516314$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} - 9x^{14} - 12x^{13} - 9x^{12} -$ $9x^{11} - 9x^{10} - 3x^9 - 9x^8 + 9x^7 +$ $3x^6 - 9x^4 + 6x^3 - 9x^2 - 3$ | $x^{15} - 20x^{12} + 130x^9 - 280x^6 + 20x^3 - 1$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} + 3x^{14} + 6x^{13} + 9x^{12} -$ $9x^{11} - 9x^{10} - 12x^9 - 9x^7 -$ $3x^6 - 9x^4 - 12x^3 - 9x^2 + 12$ | $x^{15} - 50x^{12} + 520x^9 - 2320x^6 +$ $4880x^3 - 4000$ | $\left[\begin{array}{ccc} 3 & 23 & 23 \\ 2 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{15} + 12x^{14} + 6x^{13} + 6x^{12} +$ $9x^{11} - 9x^{10} + 3x^9 + 9x^8 - 9x^7 +$ $3x^6 + 9x^5 - 9x + 3$ | $x^{15} - 280x^{12} + 31360x^9 - 1756160x^6 +$ $49172480x^3 - 537824000$ | $\begin{bmatrix} 3 & 23 & 23 & 23 \\ 2 & 10 & 10 & 10 \end{bmatrix}_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} + 3x^{14} - 3x^{13} + 3x^{12} + 3$ | $x^{15} - 10x^{12} + 460x^9 - 1400x^6 +$ $5900x^3 - 8750$ | $\begin{bmatrix} 3 & 23 & 23 & 23 \\ 2 & 10 & 10 & 10 \end{bmatrix}_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 12x^{14} + 3x^{13} + 12x^{12} -$ $9x^{11} + 9x^{10} + 6x^9 + 9x^8 + 9x^7 -$ $3x^6 - 9x^5 - 12x^3 + 9x + 6$ | $x^{15} - 57x^{13} - 46x^{12} + 630x^{11} -$ $840x^{10} + 10570x^9 + 79380x^8 -$ $588735x^7 - 3690680x^6 + 8473815x^5 +$ $124025370x^4 + 455010080x^3 +$ $851394600x^2 + 839005440x +$ 346992520 | $\begin{bmatrix} 23 & 23 & 23 & 23 \\ 10 & 10 & 10 & 10 \end{bmatrix}_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{15} + 12x^{14} + 3x^{13} + 9x^{12} +$ $9x^{11} - 9x^{10} + 12x^9 + 9x^7 +$ $12x^6 + 9x^5 - 9x^3 - 9x^2 - 9x - 3$ | $x^{15} - 6x^{14} - 51x^{13} + 699x^{12} + 684x^{11} -$ $24174x^{10} - 2958x^9 - 123048x^8 -$ $1162863x^7 + 22137792x^6 +$ $66151215x^5 - 467263791x^4 -$ $1442984601x^3 + 4526311014x^2 +$ $21534079419x + 22034651493$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \left. \vphantom{\begin{array}{c} 3 \\ 2 \end{array}} \right]^4 \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \Big]_{10}$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} + 3x^{14} + 12x^{13} - 3x^{12} -$ $9x^{10} + 6x^9 + 9x^8 - 12x^6 +$ $9x^4 + 9x + 12$ | $x^{15} - 15x^{13} - 530x^{12} - 882x^{11} +$ $18672x^{10} + 144454x^9 - 526932x^8 -$ $3390741x^7 + 7191728x^6 +$ $6762663x^5 + 33596466x^4 +$ $363543146x^3 - 779082984x^2 -$ $2163154506x - 2987036140$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \left. \vphantom{\begin{array}{c} 3 \\ 2 \end{array}} \right]^4 \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \Big]_{10}$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{15} - 9x^{14} - 6x^{13} + 6x^{12} + 9x^{11} - 12x^9 + 9x^8 + 9x^6 - 9x^5 + 9x^4 - 9x^2 - 9x + 3$ | $x^{15} - 6x^{14} - 699x^{13} + 8876x^{12} + 200109x^{11} - 3891642x^{10} - 37024835x^9 + 767764944x^8 + 5401068984x^7 - 70252655264x^6 - 509157916800x^5 + 2193542708448x^4$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| | $19003166071316x^3$ | | | |
| | $19038101801304x^2$ | | | |
| | $166129679719524x$ | | | |
| | 1033002426042400 | | | |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|--------------------|
| $x^{15} - 3x^{14} - 6x^{13} + 6x^{12} - 9x^{11} + 9x^{10} - 9x^9 + 9x^8 - 9x^7 + 3x^6 + 9x^5 - 9x^4 + 12x^3 + 12$ | $x^{15} - 3x^{14} - 42x^{13} + 346x^{12} - 4830x^{11} + 46050x^{10} - 171068x^9 + 39276x^8 + 458919x^7 + 8922083x^6 - 65733738x^5 + 206775762x^4 - 397623370x^3 + 506638878x^2 - 384814572x + 209649452$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \begin{array}{c} 4 \\ 10 \end{array}$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 12x^{14} - 12x^{13} - 6x^{12} + 9x^{10} - 6x^9 + 9x^7 - 3x^6 - 6x^3 - 6$ | $x^{15} - 10x^{12} - 110x^9 - 3140x^6 - 2020x^3 - 2450$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \begin{array}{c} 4 \\ 10 \end{array}$ | T: 15,44 | $\frac{1853}{810}$ |

Continued on next page

Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|--------------------|
| $x^{15} + 3x^{14} + 3x^{13} + 12x^{12} +$ $9x^{11} + 3x^9 + 9x^8 - 9x^7 - 9x^5 +$ $9x^4 + 9x^3 + 9x^2 + 9x + 3$ | $x^{15} - 93x^{13} - 307x^{12} + 2520x^{11} +$ $14910x^{10} - 8330x^9 - 264600x^8 -$ $685755x^7 + 1305850x^6 + 8195985x^5 -$ $16942485x^4 - 198862825x^3 -$ $578689020x^2 - 780048885x -$ 430463285 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{23}{10} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \frac{23}{10} \right]^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} + 6x^{14} + 12x^{13} + 3x^{12} +$ $9x^{11} - 9x^{10} - 3x^9 - 9x^7 + 9x^5 +$ $9x^4 - 3x^3 + 9x^2 - 9x + 3$ | $x^{15} - 165x^{13} - 410x^{12} + 10080x^{11} +$ $53760x^{10} - 151340x^9 - 1891890x^8 -$ $4275495x^7 + 11130350x^6 +$ $95434605x^5 + 273950670x^4 +$ $322526330x^3 - 238779450x^2 -$ $1091974800x - 868561750$ | $\left[\begin{array}{c} 23 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \frac{23}{10} \right]^4$ | T: 15,33 | $\frac{1849}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|--------------------|
| $x^{15} + 9x^{14} - 6x^{13} - 12x^{12} +$ $9x^{10} - 9x^7 - 9x^6 + 9x^4 - 6x^3 -$ $9x - 12$ | $x^{15} - 33x^{13} - 13x^{12} + 360x^{11} + 300x^{10} -$ $1070x^9 - 2160x^8 - 4365x^7 + 6490x^6 +$ $26325x^5 - 9465x^4 - 25375x^3 +$ $5760x^2 + 11055x - 4265$ | $\begin{bmatrix} 3 & 23 & 23 & 23 \\ 2 & 10 & 10 & 10 \end{bmatrix}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 6x^{14} - 6x^{13} + 6x^{12} +$ $9x^{11} + 9x^{10} - 9x^7 + 12x^6 +$ $9x^5 + 9x^4 - 6x^3 - 9x - 12$ | $x^{15} + 3x^{13} - 36x^{12} + 90x^{11} - 180x^{10} +$ $150x^9 + 540x^8 - 315x^7 - 2100x^6 +$ $3915x^5 - 6660x^4 + 10680x^3 - 8640x^2 +$ $3780x - 780$ | $\begin{bmatrix} 23 & 23 & 23 & 23 \\ 10 & 10 & 10 & 10 \end{bmatrix}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} + 12x^{14} - 6x^{13} + 12x^{12} -$ $9x^{11} + 9x^9 - 9x^8 + 3x^6 - 9x^4 -$ $9x^2 - 9x - 12$ | $x^{15} - 15x^{13} - 25x^{12} + 90x^{11} +$ $300x^{10} - 20x^9 - 1350x^8 - 1935x^7 -$ $260x^6 - 3645x^5 - 22245x^4 - 40795x^3 -$ $34200x^2 - 14325x - 3125$ | $\begin{bmatrix} 3 & 23 & 23 & 23 \\ 2 & 10 & 10 & 10 \end{bmatrix}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|--------------------|
| $x^{15} - 6x^{14} - 3x^{13} - 3x^{12} - 9x^{11} + 12x^9 + 3x^6 + 9x^5 - 12x^3 - 9x^2 - 9x - 12$ | $x^{15} - 3x^{14} + 15x^{13} - 153x^{12} - 1017x^{11} + 1575x^{10} + 10761x^9 + 75465x^8 + 451251x^7 - 990021x^6 - 10660743x^5 - 11520783x^4 + 50228745x^3 + 164904777x^2 + 214956963x + 125232267$ | $\left[\begin{matrix} 3 & 23 & 23 & 23 \\ 2 & 10 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 3x^{14} + 3x^{13} + 3x^6 - 3$ | $x^{15} - 6x^{14} + 45x^{13} + 295x^{12} - 66x^{11} + 4320x^{10} + 59314x^9 + 207954x^8 + 210339x^7 - 513382x^6 - 1951473x^5 - 2851497x^4 - 2252389x^3 - 987450x^2 - 223731x - 22285$ | $\left[\begin{matrix} 3 & 23 & 23 & 23 \\ 2 & 10 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|--------------------|
| $x^{15} + 3x^{14} + 12x^{13} - 9x^{11} -$ $12x^9 - 9x^7 - 12x^6 + 9x^5 +$ $9x^3 - 9x + 12$ | $x^{15} - 6x^{14} + 135x^{13} - 970x^{12} +$ $6960x^{11} - 48150x^{10} + 210070x^9 -$ $888930x^8 + 3861405x^7 -$ $10486970x^6 + 13303335x^5 -$ $2424870x^4 - 10541590x^3 +$ $8209470x^2 + 1743300x - 4055750$ | $\left[\begin{matrix} 23 & 23 & 23 \\ 10 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------------------|--|----------|--------------------|
| x^{15} | $- 3x^{14} + 15x^{13} +$ | | | |
| | $23017x^{12} + 276384x^{11} -$ | | | |
| | $552624x^{10} + 538763704x^9 -$ | | | |
| | $4786693128x^8 - 14280488316x^7 -$ | | | |
| $x^{15} - 3x^{14} + 6x^{13} - 9x^{12} +$ | $231736699052548x^6 +$ | | | |
| $9x^{11} + 9x^{10} - 12x^9 - 9x^7 -$ | $586581180620088x^5 -$ | $\left[\begin{matrix} 3 & 23 & 23 & 23 \\ 2 & 10 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $3x^6 + 9x^5 + 9x + 12$ | $5349950039990688x^4 +$ | | | |
| | $5113707699354675074x^3 +$ | | | |
| | $10853855945326809834x^2 -$ | | | |
| | $80886137989582250202x -$ | | | |
| | 38030173189086514552486 | | | |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|----------|--------------------|
| $x^{15} + 57x^{13} - 96x^{12} + 252x^{11} - 3150x^{10} - 78480x^9 - 890532x^8 - 4474809x^7 - 14561202x^6 - 34647957x^5 - 62414190x^4 - 84862932x^3 - 83190024x^2 - 51995592x - 15556686$ | | $\left[\begin{array}{c} 23 \\ 10 \end{array} \frac{23}{10} \frac{23}{10} \frac{23}{10} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} - 3x^{14} + 3x^{13} + 3x^{12} - 3x^6 + 3$ | | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{23}{10} \frac{23}{10} \frac{23}{10} \frac{23}{10} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|--------------------|
| $x^{15} - 3x^{14} - 123x^{13} + 745x^{12} +$ $14916x^{11} + 348x^{10} - 760394x^9 -$ $2899638x^8 + 10843776x^7 +$ $103037132x^6 + 181115022x^5 -$ $751200474x^4 - 4278191779x^3 -$ $8653825443x^2 - 8214606519x -$ 3053888911 | $x^{15} - 15x^{13} - 5x^{12} + 90x^{11} + 60x^{10} -$ $275x^9 - 270x^8 + 450x^7 + 575x^6 -$ $378x^5 - 615x^4 + 140x^3 + 315x^2 - 15x -$ 67 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 9x^{14} + 3x^{13} - 9x^{11} -$ $12x^9 + 9x^8 + 9x^6 + 9x^5 + 9x^4 -$ $12x^3 - 9x^2 + 9x - 12$ | $x^{15} - 12x^{14} + 12x^{13} - 3x^{12} -$ $9x^{11} - 6x^9 - 9x^7 - 9x^5 + 3x^3 -$ $9x^2 + 9x - 6$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|--------------------|
| $x^{15} - 12x^{14} + 12x^{13} + 6x^{12} - 9x^{10} + 6x^9 + 9x^8 + 9x^7 + 9x^6 + 9x^5 - 9x^4 + 12x^3 + 9x^2 + 3$ | $x^{15} - 6x^{14} + 9x^{13} + 57x^{12} + 1764x^{11} - 3564x^{10} - 8430x^9 + 149832x^8 + 175203x^7 - 807390x^6 - 1612251x^5 + 295731x^4 + 3478293x^3 + 4144176x^2 + 2036691x + 366669$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} + 3x^{14} - 12x^{13} + 6x^{12} - 9x^{11} - 9x^{10} + 3x^9 + 3x^6 + 12x^3 - 9x^2 + 6$ | $x^{15} - 70x^{12} - 5390x^9 - 109760x^6 + 912380x^3 - 58824500$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 9x^{14} + 3x^{13} - 9x^{11} - 9x^{10} - 12x^9 - 9x^8 - 9x^7 - 6x^6 + 9x^5 - 9x^4 + 3x^3 + 9x + 12$ | $x^{15} - 12x^{13} - 16x^{12} + 90x^{11} + 60x^{10} - 500x^9 - 540x^8 + 1800x^7 + 460x^6 - 4860x^5 - 2640x^4 + 7400x^3 - 5040x^2 + 960x - 80$ | $\left[\begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|--------------------|
| $x^{15} + 12x^{14} - 3x^{13} - 12x^{12} + 9x^{11} + 9x^8 + 9x^7 + 12x^6 + 9x^5 - 9x^3 + 9x^2 + 9x + 6$ | $x^{15} - 490x^{12} + 81340x^9 - 4802000x^6 + 39376400x^3 - 235298000$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} + 3x^{14} + 12x^{13} - 6x^{12} + 6x^9 - 9x^7 + 3x^6 + 9x^5 - 9x^4 - 9x^3 - 9x^2 - 9x + 3$ | $x^{15} - 3x^{13} - 89x^{12} + 2250x^{11} + 15240x^{10} + 33208x^9 - 2952x^8 - 121923x^7 - 103936x^6 + 288207x^5 + 716871x^4 + 530423x^3 + 85230x^2 - 32907x + 7307$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} + 6x^{13} + 9x^{12} - 9x^{11} - 9x^9 + 9x^8 - 9x^7 + 12x^6 - 9x^5 + 9x^4 + 3x^3 - 9x - 12$ | $x^{15} - 35x^{12} + 490x^9 + 17150x^6 - 1140475x^3 + 14706125$ | $\left[\begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} - 9x^{14} + 6x^{13} - 12x^{12} + 12x^9 + 9x^8 - 9x^6 + 9x^5 + 9x^3 + 9x^2 + 9x + 12$ | $x^{15} - 250x^{12} + 28000x^9 - 1715000x^6 + 55737500x^3 - 750312500$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|--------------------|
| $x^{15} - 3x^{14} - 12x^{13} - 6x^{12} +$ $9x^{11} - 9x^{10} - 3x^9 - 9x^8 + 9x^7 +$ $6x^6 + 9x^5 - 3x^3 + 9x^2 - 12$ | $x^{15} - 25x^{12} + 130x^9 - 290x^6 + 305x^3 -$ 125 | $\left[\begin{array}{c} 23 \\ 10 \end{array} \right]_{10} \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} - 12x^{14} - 3x^{13} + 9x^{11} -$ $9x^{10} - 3x^9 - 9x^8 + 9x^7 - 9x^5 -$ $9x^4 + 9x^2 + 9x + 6$ | $x^{15} - 140x^{12} + 10780x^9 - 301840x^6 +$ $3073280x^3 - 6722800$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_{10} \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 6x^{14} - 12x^{13} + 9x^{12} -$ $6x^9 + 9x^8 - 9x^5 - 9x^4 - 6x^3 +$ $9x^2 - 9x - 3$ | $x^{15} - 70x^{12} - 110x^9 + 59470x^6 -$ $1270x^3 + 1750$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_{10} \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|--------------------|
| $x^{15} + 12x^{14} + 3x^{13} + 6x^{12} + 9x^{11} + 9x^{10} + 12x^9 + 9x^8 - 9x^7 - 6x^6 + 9x^5 - 9x^4 - 9x^3 - 9x^2 + 12$ | $x^{15} - 6x^{14} - 105x^{13} - 208x^{12} + 6717x^{11} + 69006x^{10} + 310591x^9 + 294948x^8 - 3731688x^7 - 21789152x^6 - 49243344x^5 + 7340448x^4 + 437435696x^3 + 1344935712x^2 + 2172531216x + 1501688896$ | $\left[\begin{matrix} 23 & 23 & 23 \\ 10 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} + 6x^{14} - 3x^{13} + 6x^{12} + 9x^{11} - 9x^{10} + 9x^9 - 9x^8 + 12x^6 + 9x^5 + 9x^4 + 3x^3 - 6$ | $x^{15} - 3x^{12} + 18x^9 - 18x^6 - 27x^3 - 27$ | $\left[\begin{matrix} 23 & 23 & 23 \\ 10 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|--------------------|
| $x^{15} - 9x^{14} + 3x^{13} + 3x^{12} -$ $9x^{11} + 9x^{10} - 9x^9 - 9x^8 +$ $9x^7 - 9x^6 - 9x^4 - 9x^3 + 12$ | $x^{15} - 6x^{14} + 63x^{13} - 283x^{12} - 1104x^{11} +$ $26802x^{10} - 297758x^9 + 2369574x^8 -$ $14513229x^7 + 73510408x^6 -$ $298345227x^5 + 1000890009x^4 -$ $2483399407x^3 + 3636963372x^2 -$ $2491171749x + 630625759$ | $\begin{bmatrix} 3 & 23 & 23 & 23 & 23 \\ 2 & 10 & 10 & 10 & 10 \end{bmatrix}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 3x^{14} - 3x^{13} + 12x^{12} +$ $9x^{11} - 9x^{10} + 3x^9 + 9x^6 - 9x^5 -$ $9x^4 - 9x^3 + 9x^2 + 9x + 3$ | $x^{15} - 10x^{12} + 40x^9 - 80x^6 + 80x^3 - 8$ | $\begin{bmatrix} 23 & 23 & 23 & 23 \\ 10 & 10 & 10 & 10 \end{bmatrix}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} - 12x^{14} + 12x^{13} - 6x^{12} -$ $9x^{11} + 9x^{10} + 3x^9 - 9x^8 - 9x^7 +$ $12x^6 + 9x^4 + 3x^3 + 9x^2 - 9x -$ 12 | $x^{15} - 15x^{13} - 15x^{12} + 90x^{11} + 90x^{10} -$ $240x^9 + 945x^7 - 540x^6 - 8505x^5 -$ $20115x^4 - 24795x^3 - 18900x^2 -$ $8325x - 1875$ | $\begin{bmatrix} 3 & 23 & 23 & 23 & 23 \\ 2 & 10 & 10 & 10 & 10 \end{bmatrix}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|--------------------|
| $x^{15} + 3x^{14} + 12x^{13} + 9x^{11} - 9x^{10} + 3x^9 - 9x^8 + 6x^6 + 9x^5 + 9x^4 + 9x^2 + 12$ | $x^{15} - 57x^{13} - 29x^{12} + 630x^{11} + 7770x^{10} - 1190x^9 - 343980x^8 + 297675x^7 + 9907310x^6 - 31718925x^5 - 145217625x^4 + 1282742825x^3 - 3823712550x^2 + 5407472175x - 3044407975$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_4 \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 12x^{14} - 6x^{13} + 12x^{12} + 9x^{11} - 9x^{10} - 9x^9 - 12x^8 - 9x^8 - 9x^8 - 9x^8 - 9x^8 - 3$ | $x^{15} - 57x^{13} - 349x^{12} + 630x^{11} + 16800x^{10} + 53620x^9 - 357210x^8 - 2343915x^7 + 3015460x^6 + 58946265x^5 + 128763915x^4 - 267085525x^3 - 1605548700x^2 - 2374793085x - 1252829795$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_4 \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|--------------------|
| $x^{15} + 12x^{13} + 12x^{12} - 9x^{11} + 9x^{10} - 6x^9 + 9x^8 + 3x^6 + 9x^5 + 6x^3 + 9x + 6$ | $x^{15} - 6x^{14} + 21x^{13} + 60x^{12} - 4167x^{11} - 10962x^{10} + 441x^9 - 1787904x^8 + 3240522x^7 - 38307924x^6 - 5322906x^5 - 341328816x^4 - 276013788x^3 - 3946381848x^2 + 1970902692x - 20173927008$ | $\left[\begin{matrix} 23 & 23 & 23 \\ 10 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|--------------------|
| $x^{15} - 6x^{14} + 6x^{13} + 2490x^{12} -$ $47151x^{11} + 91098x^{10} -$ $23644944x^9 - 458177310x^8 +$ $2339927343x^7 - 285076955418x^6 -$ $554716464858x^5 - 590162124186x^4 -$ $1257678592557921x^3 +$ $2888712465340230x^2 -$ $4642862570704980x -$ 1951121496874016130 | $x^{15} - 6x^{14} + 6x^{13} + 2490x^{12} -$ $47151x^{11} + 91098x^{10} -$ $23644944x^9 - 458177310x^8 +$ $2339927343x^7 - 285076955418x^6 -$ $554716464858x^5 - 590162124186x^4 -$ $1257678592557921x^3 +$ $2888712465340230x^2 -$ $4642862570704980x -$ 1951121496874016130 | $\begin{bmatrix} 3 & 23 \\ 2 & 10 \end{bmatrix} \begin{bmatrix} 23 & 23 \\ 10 & 10 \end{bmatrix}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 9x^{14} - 12x^{13} + 3x^{12} -$ $9x^{10} + 6x^9 + 9x^8 - 9x^7 - 3x^6 +$ $9x^5 + 12x^3 - 9x^2 - 6$ | $x^{15} - 77x^{12} + 1666x^9 + 25382x^6 +$ $69629x^3 - 117649$ | $\begin{bmatrix} 23 & 23 \\ 10 & 10 \end{bmatrix} \begin{bmatrix} 23 & 23 \\ 10 & 10 \end{bmatrix}^4$ | T: 15,33 | $\frac{1849}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|--------------------|
| $x^{15} - 12x^{14} - 12x^{13} - 6x^{12} - 9x^{11} + 9x^{10} - 6x^9 - 9x^8 - 9x^7 + 12x^6 - 9x^5 + 9x^4 - 3x^3 + 9x^2 - 12$ | $x^{15} - 10x^{12} + 40x^9 - 65x^6 + 35x^3 - 8$ | $\left[\begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]^4_{10}$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} + 6x^{14} + 12x^{13} - 3x^{12} - 9x^{11} + 9x^{10} - 9x^9 + 9x^7 + 9x^6 - 9x^5 + 9x^4 - 12x^3 - 9x + 12$ | $x^{15} - 93x^{13} - 263x^{12} + 2520x^{11} + 10290x^{10} - 24290x^9 - 132300x^8 - 24255x^7 - 197470x^6 - 6251175x^5 - 31986465x^4 - 78613885x^3 - 118849500x^2 - 102822825x - 48896365$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]^4_{10}$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|--------------------|
| $x^{15} - 6x^{14} + 12x^{13} + 12x^{12} -$ $9x^{11} - 9x^9 + 9x^8 + 9x^7 -$ $12x^6 - 9x^5 - 9x^4 - 3x^3 + 9x^2 +$ 6 | $x^{15} + 3x^{13} - 48x^{12} + 1008x^{11} -$ $2646x^{10} - 3444x^9 + 15876x^8 +$ $289737x^7 - 2043300x^6 + 4862025x^5 -$ $882882x^4 - 20084022x^3 +$ $47323710x^2 - 48836340x + 20499738$ | $\left[\begin{array}{c} 23 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} + 6x^{14} + 6x^{13} - 9x^{12} +$ $9x^{11} - 9x^{10} + 3x^9 - 9x^7 +$ $9x^6 + 9x^4 + 9x^2 + 9x - 6$ | $x^{15} - 40x^{12} + 610x^9 - 4100x^6 +$ $10400x^3 + 2500$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} + 6x^{14} + 3x^{13} + 9x^{12} -$ $9x^{10} - 6x^9 + 9x^7 - 9x^6 - 9x^4 +$ $12x^3 - 9x^2 - 9x - 12$ | $x^{15} - 6x^{14} + 39x^{13} - 667x^{12} + 4584x^{11} -$ $24720x^{10} + 200722x^9 - 1291392x^8 +$ $5580063x^7 - 20339414x^6 +$ $69480309x^5 - 186479601x^4 +$ $330030353x^3 - 347138466x^2 +$ $192660285x - 43297115$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right] \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|--------------------|
| $x^{15} + 6x^{14} + 3x^{13} + 9x^{12} +$ $12x^9 + 9x^6 - 9x^4 - 3x^3 + 9x^2 +$ 12 | $x^{15} - 6x^{14} - 6x^{13} + 176x^{12} - 330x^{11} -$ $852x^{10} + 3472x^9 - 1008x^8 - 15372x^7 +$ $41380x^6 - 49884x^5 + 34464x^4 -$ $14776x^3 + 3936x^2 - 600x + 40$ | $\left[\begin{array}{ccc} 3 & 23 & 23 \\ 2 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} + 12x^{14} + 12x^{13} + 3x^{12} +$ $9x^{11} + 9x^8 - 9x^7 + 9x^6 - 9x^4 +$ $3x^3 + 9x^2 + 6$ | $x^{15} - 6x^{14} + 45x^{13} + 309x^{12} + 396x^{11} +$ $4194x^{10} + 64662x^9 + 324378x^8 +$ $701613x^7 + 14796x^6 - 3456081x^5 -$ $7959411x^4 - 7891281x^3 -$ $4089906x^2 - 1144665x - 152919$ | $\left[\begin{array}{ccc} 3 & 23 & 23 \\ 2 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{15} + 12x^{14} + 12x^{13} + 3x^{12} - 9x^{10} + 9x^9 - 9x^8 - 9x^7 + 9x^6 + 9x^5 - 9x^4 + 6x^3 + 9x + 3$ | $x^{15} - 3x^{14} - 45x^{13} + 303x^{12} + 2619x^{11} + 621x^{10} - 83343x^9 - 335025x^8 + 263223x^7 + 4272219x^6 + 11759445x^5 + 24833385x^4 + 56696445x^3 + 93592395x^2 + 81689175x + 28245825$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \Big]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 3x^{13} + 9x^{12} + 9x^{11} - 9x^{10} + 9x^9 + 9x^7 - 9x^6 + 3x^3 + 9x^2 - 9x + 6$ | $x^{15} - 20x^{12} + 100x^9 - 1750x^6 + 46250x^3 - 306250$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \Big]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} - 9x^{14} + 6x^{13} - 3x^{12} + 3x^9 - 9x^8 + 9x^7 - 6x^6 - 9x^5 - 9x^4 - 6x^3 - 9x^2 + 9x - 6$ | $x^{15} - 10x^{12} + 10x^9 + 100x^6 - 100x^3 - 500$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \Big]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|--------------------|
| $x^{15} - 9x^{14} + 6x^{13} + 12x^{12} +$ $9x^{10} - 12x^9 - 9x^8 + 12x^6 +$ $9x^5 + 9x^3 + 9x^2 - 9x + 12$ | $x^{15} - 10x^{12} + 160x^9 + 1600x^6 +$ $4400x^3 + 4000$ | $\left[\begin{array}{ccc} 3 & 23 & 23 \\ 2 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} + 12x^{13} + 12x^{12} + 9x^9 -$ $9x^8 - 9x^7 - 9x^6 - 9x^4 + 3x^3 -$ $9x^2 + 3$ | $x^{15} + 57x^{13} - 55x^{12} + 36x^{11} - 4056x^{10} -$ $96620x^9 - 882792x^8 - 4590045x^7 -$ $15606566x^6 - 35812611x^5 -$ $55052385x^4 - 54845857x^3 -$ $34056630x^2 - 12920631x - 4264385$ | $\left[\begin{array}{ccc} 3 & 23 & 23 \\ 2 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|-----------------------------|--|----------|--------------------|
| x^{15} | $-6x^{14} + 6x^{13} -$ | | | |
| $350310x^{12}$ | $+ 1364049x^{11} -$ | | | |
| $3613302x^{10}$ | $+ 33477125856x^9 -$ | | | |
| $241928168310x^8$ | $+ 909265891203x^7 -$ | | | |
| $1534855626835338x^6$ | $+ 14220631577617182x^5 -$ | $\left[\begin{matrix} 3 & 23 & 23 & 23 \\ 2 & 10 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $9x^{10} + 6x^9 - 9x^7 + 3x^6 + 9x^5 +$ | $61487882366521266x^4 -$ | | | |
| $9x^4 + 3x^3 - 9x^2 + 6$ | $13962847291891055511x^3 +$ | | | |
| | $89894252455146275490x^2 -$ | | | |
| | $100679270286378986460x -$ | | | |
| | 38058865096849716790110 | | | |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|--------------------|
| $x^{15} + 12x^{14} - 6x^{13} - 9x^{12} - 9x^{11} + 9x^{10} - 6x^9 - 9x^8 + 12x^6 + 9x^3 - 9x^2 - 3$ | $x^{15} - 93x^{13} - 611x^{12} + 1062x^{11} + 28110x^{10} + 120580x^9 + 59418x^8 - 1460169x^7 - 9533392x^6 - 49870827x^5 - 213040185x^4 - 617894677x^3 - 1092725244x^2 - 1053314697x - 421878091$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_2 \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} + 12x^{14} + 6x^{13} + 9x^{11} - 6x^9 + 9x^7 + 3x^6 + 12x^3 + 9x + 12$ | $x^{15} - 799x^{12} + 194392x^9 - 11628176x^6 - 195187240x^3 - 86233722632$ | $\left[\begin{array}{c} 23 \\ 10 \end{array} \right]_{10} \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4$ | T: 15,33 | $\frac{1849}{810}$ |
| $x^{15} + 6x^{13} - 6x^{12} - 9x^7 + 9x^6 - 9x^5 - 6x^3 - 9x^2 + 9x + 6$ | $x^{15} - 70x^{12} - 12740x^9 - 274400x^6 + 3361400x^3 - 8403500$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right]_2 \left[\begin{array}{c} 23 \\ 10 \\ 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{15} + 6x^{14} + 12x^{13} + 3x^{12} +$ $9x^{11} - 9x^{10} + 12x^9 - 9x^7 +$ $9x^5 + 9x^4 + 12x^3 + 9x^2 - 9x + 3$ | $x^{15} + 3x^{13} - 29x^{12} + 90x^{11} - 120x^{10} +$ $40x^9 - 270x^8 + 1035x^7 - 2530x^6 +$ $5265x^5 - 10065x^4 + 15455x^3 -$ $15210x^2 + 11955x - 5845$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \Big]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} + 3x^{14} + 3x^{13} + 12x^{12} +$ $12x^9 + 9x^7 - 9x^6 - 9x^4 + 3x^3 +$ $9x + 3$ | $x^{15} + 15x^{13} - 5x^{12} + 90x^{11} - 60x^{10} +$ $310x^9 - 270x^8 + 765x^7 - 700x^6 +$ $1323x^5 - 1365x^4 + 1400x^3 - 1440x^2 +$ $960x - 256$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \Big]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} + 6x^{14} + 6x^{13} - 12x^{12} -$ $9x^{10} - 9x^8 + 9x^7 - 9x^6 - 9x^4 +$ $3x^3 - 9x^2 + 9x + 6$ | $x^{15} - 20x^{12} + 160x^9 + 80x^6 - 400x^3 +$ 2048 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \Big]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} + 3x^{14} + 6x^{13} + 6x^{12} -$ $9x^{10} + 9x^8 + 9x^7 + 12x^6 -$ $9x^4 + 12x^3 + 9x - 6$ | $x^{15} - 80x^{12} + 490x^9 - 225400x^6 +$ $1817900x^3 - 6002500$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \Big]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{15} + 9x^{14} + 6x^{13} + 6x^{12} - 9x^{11} + 9x^{10} - 12x^9 + 9x^8 - 9x^7 - 12x^6 - 6x^3 + 9x + 12$ | $x^{15} - 420x^{12} + 70560x^9 - 5402250x^6 + 207446400x^3 - 794130750$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \Big]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} + 9x^{14} + 6x^{13} + 12x^{12} - 9x^{11} - 9x^{10} + 9x^9 - 9x^8 - 9x^6 - 9x^5 - 3x^3 - 9x^2 - 9x - 3$ | $x^{15} - 140x^{12} + 7840x^9 - 34300x^6 - 3841600x^3 - 29412250$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \Big]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |
| $x^{15} + 9x^{14} + 3x^{13} - 9x^{12} + 9x^{11} + 9x^9 + 9x^8 - 9x^7 - 6x^6 + 9x^3 - 9x^2 + 6$ | $x^{15} - 57x^{13} - 113x^{12} + 1764x^{11} + 5502x^{10} - 26054x^9 - 95256x^8 + 197127x^7 + 914144x^6 - 1194669x^5 - 7790559x^4 - 2721019x^3 + 12749310x^2 - 23085615x - 99821575$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \begin{array}{c} 23 \\ 10 \end{array} \right] \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \begin{array}{c} 23 \\ 10 \\ 10 \end{array} \Big]_{10}^4$ | T: 15,44 | $\frac{1853}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} - 60x^{13} - 520x^{12} + 7650x^{11} +$ $867x^{10} - 257060x^9 + 887670x^8 -$ $3186720x^7 + 34914190x^6 -$ $181673199x^5 + 417150660x^4 -$ $277177000x^3 - 628707240x^2 +$ $1177498380x - 595791455$ | $x^{15} - 60x^{13} - 520x^{12} + 7650x^{11} +$ $867x^{10} - 257060x^9 + 887670x^8 -$ $3186720x^7 + 34914190x^6 -$ $181673199x^5 + 417150660x^4 -$ $277177000x^3 - 628707240x^2 +$ $1177498380x - 595791455$ | $\left[\begin{matrix} \frac{12}{5} & \frac{12}{5} & \frac{12}{5} \\ \frac{12}{5} & \frac{12}{5} & \frac{12}{5} \end{matrix} \right]^4_5$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 3x^{14} - 9x^{13} - 6x^{12} -$ $9x^{11} + 6x^9 - 9x^8 + 9x^7 - 3x^6 +$ $9x^5 - 3x^3 - 9x^2 - 3$ | $x^{15} - 15x^{13} - 155x^{12} + 180x^{11} +$ $2211x^{10} + 385x^9 - 3870x^8 + 135x^7 -$ $52840x^6 - 163224x^5 - 130440x^4 -$ $18760x^3 - 24345x^2 - 19275x + 6431$ | $\left[\begin{matrix} 2 & \frac{12}{5} & \frac{12}{5} \\ \frac{12}{5} & \frac{12}{5} & \frac{12}{5} \end{matrix} \right]^4_5$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} + 6x^{14} - 9x^{13} - 9x^{10} -$ $3x^9 + 9x^8 - 9x^7 - 9x^4 + 9x^2 -$ $9x + 6$ | $x^{15} - 105x^{13} - 35x^{12} + 4410x^{11} +$ $2940x^{10} - 80360x^9 - 92610x^8 +$ $200655x^7 + 922670x^6 + 12122649x^5 +$ $8895705x^4 - 105944125x^3 -$ $164876670x^2 - 157565625x +$ 93967937 | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \\ \frac{12}{5} \quad \frac{12}{5} \\ \frac{12}{5} \quad \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 12x^{14} - 12x^{12} + 9x^{11} -$ $12x^9 + 9x^8 - 9x^7 - 6x^6 - 9x^5 +$ $6x^3 + 9x + 12$ | $x^{15} + 30x^{13} - 20x^{12} + 360x^{11} - 471x^{10} +$ $1270x^9 + 6480x^8 - 19980x^7 + 8660x^6 +$ $21195x^5 - 33330x^4 + 25100x^3 -$ $12060x^2 + 3000x - 133$ | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \\ \frac{12}{5} \quad \frac{12}{5} \\ \frac{12}{5} \quad \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{15} + 12x^{14} - 9x^{13} + 3x^{12} +$ $9x^{11} - 9x^{10} - 6x^9 - 9x^8 + 9x^7 +$ $9x^6 - 9x^4 - 6x^3 + 9x^2 - 9x + 12$ | $x^{15} - 105x^{13} - 490x^{12} + 17640x^{11} -$ $51450x^{10} - 156800x^9 - 185220x^8 +$ $13212360x^7 - 22706600x^6 -$ $54973296x^5 + 578544960x^4 +$ $462336560x^3 - 1936166400x^2 -$ $1310946000x + 1721036800$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 12x^{14} + 9x^{13} + 9x^{12} +$ $9x^{11} + 9x^{10} + 12x^9 - 9x^8 +$ $9x^7 - 12x^6 - 9x^3 - 9x^2 + 9x + 3$ | $x^{15} - 15x^{13} - 10x^{12} + 90x^{11} + 120x^{10} -$ $245x^9 - 675x^8 + 45x^7 + 1465x^6 +$ $648x^5 - 1635x^4 - 2290x^3 - 1395x^2 -$ $195x - 41$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} + 3x^{14} + 9x^{12} + 9x^{11} -$ $3x^9 - 9x^6 - 9x^5 + 9x^4 + 9x^3 -$ $9x^2 - 12$ | $x^{15} - 60x^{13} - 10x^{12} + 2070x^{11} +$ $4251x^{10} - 23870x^9 - 80460x^8 +$ $5400x^7 + 72550x^6 - 13581x^5 -$ $8520x^4 - 1720x^3 + 3240x^2 - 600x + 49$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} + 6x^{14} + 9x^{13} + 12x^{12} +$ $9x^{10} + 9x^8 - 9x^7 - 9x^5 + 9x^4 +$ $9x^2 + 9x - 3$ | $x^{15} - 105x^{13} - 1645x^{12} - 11970x^{11} -$ $9879x^{10} + 60235x^9 + 1401750x^8 -$ $4955265x^7 - 11838680x^6 -$ $47065824x^5 + 431123700x^4 +$ $463536080x^3 - 4520543265x^2 +$ $6619194435x - 4051929377$ | $\left[\begin{array}{c} 2 \\ 2 \\ 5 \end{array} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 6x^{14} + 6x^{12} + 9x^{11} -$ $6x^9 + 9x^7 - 9x^4 + 9x^2 + 9x + 12$ | $x^{15} - 105x^{13} - 140x^{12} + 4725x^{11} +$ $14937x^{10} - 117320x^9 - 686700x^8 +$ $1744785x^7 + 17513510x^6 -$ $15443073x^5 - 259522725x^4 +$ $71235080x^3 + 2095266285x^2 -$ $107345490x - 7122591160$ | $\left[\begin{array}{c} 2 \\ 2 \\ 5 \end{array} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{15} + 3x^{14} + 9x^{13} + 6x^{12} -$ $9x^{11} - 12x^9 - 9x^8 - 12x^6 -$ $9x^5 + 9x + 3$ | $x^{15} - 315x^{13} - 105x^{12} + 30240x^{11} +$ $85041x^{10} - 1854825x^9 - 5455800x^8 +$ $57304485x^7 + 245595420x^6 -$ $1418039946x^5 - 3715486740x^4 +$ $14601124440x^3 + 51180238935x^2 -$ $201079070325x + 166773568851$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 3x^{14} + 9x^{13} + 6x^{12} +$ $9x^{11} - 9x^{10} + 12x^9 - 3x^6 +$ $9x^5 - 3x^3 - 9x^2 + 3$ | $x^{15} - 60x^{13} - 20x^{12} + 1440x^{11} +$ $960x^{10} - 17420x^9 - 17280x^8 +$ $108720x^7 + 138560x^6 - 309312x^5 -$ $422400x^4 + 273680x^3 + 46080x^2 -$ $381120x + 384224$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{15} - 12x^{14} + 9x^{13} - 9x^{12} -$ $9x^{10} - 9x^9 - 9x^8 + 9x^7 -$ $12x^6 + 9x^5 + 9x^4 - 9x - 6$ | $x^{15} - 180x^{13} - 1350x^{12} + 1440x^{11} +$ $43011x^{10} - 173040x^9 - 1259460x^8 +$ $1627470x^7 + 5503680x^6 -$ $58944591x^5 - 246315870x^4 -$ $382276980x^3 - 292956210x^2 -$ $117729990x - 31849461$ | $\left[\begin{array}{c} 2 \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 6x^{14} - 12x^{12} - 9x^9 +$ $9x^8 - 9x^7 - 9x^6 + 9x^5 + 9x^2 + 3$ | $x^{15} + 165x^{13} - 745x^{12} + 1440x^{11} -$ $21453x^{10} - 57155x^9 + 1402290x^8 -$ $4873005x^7 + 5511940x^6 -$ $16016490x^5 + 110611110x^4 -$ $273030370x^3 + 204563295x^2 +$ $124554675x - 178291907$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} - 6x^{14} - 12x^{12} + 9x^{11} - 9x^{10} - 9x^9 + 9x^8 - 3x^6 + 9x^5 - 9x^4 + 12x^3 - 9x^2 - 9x - 6$ | $x^{15} - 195x^{13} - 325x^{12} + 15840x^{11} + 17931x^{10} - 624155x^9 - 339930x^8 + 14038695x^7 - 5117000x^6 - 199706850x^5 + 645469050x^4 - 1008287830x^3 + 830859795x^2 - 345950745x - 6645803$ | $\left[\begin{array}{c} \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \\ \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 12x^{14} + 9x^{13} - 9x^{11} - 9x^{10} - 9x^9 + 9x^7 + 9x^4 + 9x^3 - 9x^2 + 9x - 3$ | $x^{15} - 105x^{13} - 280x^{12} + 4410x^{11} + 23520x^{10} - 63455x^9 - 740880x^8 - 864360x^7 + 9398200x^6 + 34487964x^5 - 13541640x^4 - 254145850x^3 - 429586920x^2 - 333030705x - 98404985$ | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \\ \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{15} - 3x^{14} - 9x^{13} - 12x^{12} +$ $9x^{11} - 9x^{10} - 9x^9 - 9x^8 -$ $9x^7 - 12x^6 - 9x^5 - 9x^3 - 6$ | $x^{15} - 135x^{13} - 270x^{12} + 6885x^{11} +$ $26577x^{10} - 88110x^9 - 346680x^8 +$ $1233810x^7 + 4149450x^6 -$ $1378215x^5 - 3943080x^4 + 739845x^3 +$ $208710x^2 + 905175x - 375885$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 3x^{14} + 9x^{13} - 9x^{12} -$ $9x^{11} + 9x^{10} - 6x^9 - 9x^8 +$ $12x^6 + 9x^5 + 9x^4 - 3x^3 + 9x + 6$ | $x^{15} - 315x^{13} - 945x^{12} + 26460x^{11} +$ $119070x^{10} - 974610x^9 - 5186160x^8 +$ $14014980x^7 + 93165660x^6 -$ $1555848x^5 - 360438120x^4 -$ $472804920x^3 - 4900921200x^2 -$ $17788528800x - 18047491056$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} + 6x^{14} - 9x^{13} - 9x^{12} +$ $9x^{10} - 9x^6 + 9x^5 + 3x^3 - 9x^2 -$ $9x + 6$ | $x^{15} - 105x^{13} - 70x^{12} + 4410x^{11} +$ $5880x^{10} - 78155x^9 - 185220x^8 +$ $61740x^7 + 3121300x^6 + 15039864x^5 -$ $35798910x^4 - 124131700x^3 +$ $232945020x^2 - 204457155x +$ 63950635 | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 12x^{14} + 9x^{13} + 6x^{12} -$ $9x^{10} + 3x^9 - 9x^7 + 9x^6 - 9x^5 -$ $9x^4 + 6x^3 + 9x + 12$ | $x^{15} - 30x^{12} + 90x^{11} - 954x^{10} +$ $3765x^9 - 3960x^8 - 2655x^7 + 1980x^6 +$ $15174x^5 - 27810x^4 + 21465x^3 -$ $8775x^2 + 1890x - 171$ | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{15} + 12x^{14} + 9x^{13} + 9x^{12} -$ $9x^{11} - 9x^{10} + 9x^9 + 9x^8 + 6x^6 -$ $9x^5 + 9x^4 + 12x^3 - 9x^2 - 9x + 3$ | $x^{15} - 105x^{13} - 140x^{12} + 4410x^{11} +$ $11760x^{10} - 61250x^9 - 370440x^8 -$ $1003275x^7 + 2990960x^6 +$ $37405179x^5 + 64971060x^4 -$ $241252480x^3 - 968083200x^2 -$ $1032622080x + 1376829440$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} + 6x^{14} + 9x^{13} - 9x^{11} -$ $9x^8 - 9x^7 - 12x^6 - 9x^5 + 9x^4 +$ $9x^3 + 9x^2 - 9x + 6$ | $x^{15} - 15x^{13} - 20x^{12} + 360x^{11} - 390x^{10} -$ $2180x^9 + 2700x^8 + 5940x^7 + 9080x^6 -$ $77976x^5 + 147480x^4 - 225280x^3 +$ $337680x^2 - 304080x + 102368$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} - 3x^{14} - 9x^{13} - 3x^{12} +$ $9x^{10} - 6x^9 + 9x^7 + 9x^6 - 9x^5 -$ $9x^4 - 3x^3 - 9x^2 - 3$ | $x^{15} - 105x^{13} - 35x^{12} + 30870x^{11} -$ $1470x^{10} - 927080x^9 - 1111320x^8 -$ $7594020x^7 - 25944520x^6 -$ $80904096x^5 - 106604400x^4 -$ $72702280x^3 - 60505200x^2 +$ $8067360x - 268912$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 6x^{14} - 3x^{12} + 9x^{11} +$ $3x^9 - 9x^8 + 9x^7 + 6x^6 - 9x^5 -$ $9x^4 - 12x^3 - 9x^2 + 9x + 12$ | $x^{15} + 90x^{13} - 840x^{12} + 4500x^{11} -$ $52407x^{10} - 66930x^9 - 481140x^8 -$ $5613930x^7 + 2584080x^6 - 262305x^5 +$ $8695890x^4 - 16067340x^3 -$ $11265210x^2 - 15527700x + 2876535$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} - 3x^{14} - 9x^{12} - 9x^{10} -$ $3x^9 + 9x^7 + 3x^6 + 9x^4 + 9x^3 -$ $9x^2 + 9x + 12$ | $x^{15} + 165x^{13} - 140x^{12} + 4410x^{11} -$ $5880x^{10} - 209720x^9 + 687960x^8 +$ $1517040x^7 - 12361720x^6 +$ $16225272x^5 + 55524840x^4 -$ $236642560x^3 + 354387600x^2 -$ $242597040x + 63463232$ | $\left[\begin{array}{c} 2 \\ 5 \end{array} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 3x^{14} - 9x^{12} - 9x^{10} +$ $3x^9 - 9x^8 + 9x^6 - 9x^5 + 9x^4 +$ $9x^3 + 9x - 6$ | $x^{15} + 165x^{13} - 700x^{12} + 4005x^{11} -$ $27879x^{10} + 49615x^9 + 208395x^8 -$ $2725695x^7 + 9924205x^6 - 193356x^5 -$ $97689795x^4 + 315891650x^3 -$ $126469215x^2 - 1502190330x +$ 2450544940 | $\left[\begin{array}{c} 2 \\ 5 \end{array} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|-------------------|
| $x^{15} - 3x^{14} + 3x^{12} + 9x^{11} +$ $12x^9 + 9x^8 + 9x^7 - 9x^6 + 3x^3 -$ $9x^2 + 9x + 6$ | $x^{15} - 105x^{13} - 35x^{12} + 4410x^{11} +$ $2940x^{10} - 95060x^9 - 92610x^8 +$ $1126755x^7 + 1303400x^6 -$ $7325451x^5 - 7094955x^4 +$ $30192575x^3 + 3025260x^2 -$ $157565625x - 166658212$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 6x^{14} - 9x^{13} + 12x^{12} -$ $9x^{11} + 9x^{10} + 3x^9 - 9x^7 -$ $12x^6 - 12x^3 - 3$ | $x^{15} - 105x^{13} - 245x^{12} + 3150x^{11} +$ $23703x^{10} + 29785x^9 - 760095x^8 -$ $3510360x^7 + 7665035x^6 +$ $72975537x^5 + 65206680x^4 -$ $580209070x^3 - 1919959650x^2 +$ $1313294430x + 11308156103$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{15} + 12x^{14} + 9x^{13} - 9x^{12} -$ $9x^{10} + 6x^9 - 9x^7 + 9x^6 - 3x^3 +$ $9x + 6$ | $x^{15} - 180x^{13} - 1200x^{12} + 2430x^{11} +$ $57951x^{10} - 208980x^9 - 1554840x^8 +$ $1008090x^7 + 13097610x^6 -$ $23312151x^5 - 242266680x^4 -$ $642915360x^3 - 879604110x^2 -$ $616144320x - 172802151$ | $\left[\begin{array}{c} 2 \\ 5 \end{array} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 6x^{14} + 9x^{13} - 3x^{12} +$ $9x^{11} + 9x^{10} - 3x^9 - 9x^8 -$ $9x^4 - 3x^3 - 9x^2 - 9x + 3$ | $x^{15} - 15x^{12} + 45x^{11} - 351x^{10} +$ $930x^9 + 4635x^8 - 31950x^7 + 66735x^6 -$ $11691x^5 - 226395x^4 + 522000x^3 -$ $579690x^2 + 343035x - 88254$ | $\left[\begin{array}{c} 2 \\ 5 \end{array} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 12x^{14} - 6x^{12} + 9x^{11} -$ $9x^{10} - 6x^9 - 9x^8 - 9x^7 + 3x^6 -$ $9x^5 - 9x^4 + 12x^3 - 9x - 3$ | $x^{15} - 15x^{13} - 20x^{12} - 180x^{11} -$ $210x^{10} - 1100x^9 - 1620x^8 - 3960x^7 -$ $4480x^6 - 6048x^5 - 8400x^4 - 11680x^3 -$ $12240x^2 - 6000x - 1312$ | $\left[\begin{array}{c} 2 \\ 5 \end{array} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} + 6x^{14} + 9x^{13} - 12x^{12} -$ $9x^{10} - 9x^9 - 9x^8 + 9x^7 - 3x^6 +$ $9x^4 - 6x^3 - 9x^2 + 9x + 12$ | $x^{15} - 60x^{13} - 40x^{12} + 1440x^{11} +$ $1920x^{10} - 16880x^9 - 34560x^8 +$ $89280x^7 + 275200x^6 - 76032x^5 -$ $798720x^4 - 628480x^3 - 184320x^2 -$ $752640x - 736256$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 6x^{14} - 9x^{13} + 9x^{11} -$ $9x^{10} - 3x^9 + 12x^6 - 9x^5 +$ $9x^4 + 9x^3 - 6$ | $x^{15} - 105x^{13} - 385x^{12} + 16380x^{11} +$ $160869x^{10} + 495775x^9 - 2402820x^8 -$ $16413075x^7 - 36046220x^6 +$ $136290636x^5 + 410428830x^4 -$ $324716140x^3 + 954804375x^2 +$ $1915024755x - 4004347313$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} + 12x^{14} + 12x^{12} - 9x^{11} - 9x^{10} + 12x^9 + 9x^8 + 9x^7 + 6x^6 - 9x^4 - 9x + 6$ | $x^{15} - 360x^{10} + 120x^9 - 1080x^8 - 1440x^7 + 15120x^6 + 2592x^5 + 6480x^4 + 74880x^3 - 77760x^2 - 293760x - 160992$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} + 3x^{14} + 9x^{11} + 9x^{10} + 9x^9 - 9x^8 + 9x^7 + 6x^6 + 9x^5 - 9x^2 + 9x - 6$ | $x^{15} - 45x^{13} - 75x^{12} + 540x^{11} + 1440x^{10} - 2400x^9 - 11340x^8 - 2340x^7 + 37800x^6 + 53136x^5 - 14040x^4 - 105480x^3 - 123120x^2 - 64800x - 13104$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{15} + 12x^{14} - 12x^{12} - 9x^{11} +$ $3x^9 - 9x^8 + 9x^7 + 9x^6 - 9x^5 -$ $9x^4 - 3x^3 - 9x^2 + 12$ | $x^{15} - 105x^{13} - 1015x^{12} + 21420x^{11} -$ $36339x^{10} - 1084895x^9 + 3078180x^8 +$ $58463685x^7 - 361912040x^6 +$ $32023116x^5 + 4815727140x^4 -$ $15631061950x^3 + 21458933055x^2 -$ $12780524715x + 2065596751$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 3x^{14} + 9x^{13} - 9x^{12} -$ $9x^{11} + 9x^{10} + 12x^9 - 9x^8 +$ $9x^7 - 6x^6 - 9x^5 + 9x^3 + 9x + 12$ | $x^{15} - 15x^{13} - 160x^{12} - 225x^{11} +$ $2379x^{10} + 4825x^9 + 24165x^8 -$ $22275x^7 + 11845x^6 + 41850x^5 -$ $245445x^4 - 199060x^3 + 102825x^2 -$ $149190x - 223736$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} - 3x^{14} + 9x^{11} + 6x^9 + 9x^8 - 3x^6 + 9x^5 - 6x^3 - 9x^2 - 9x + 3$ | $x^{15} - 60x^{13} - 10x^{12} + 6300x^{11} + 10920x^{10} - 206360x^9 - 529200x^8 + 1781640x^7 + 8028160x^6 - 26227152x^5 - 118129200x^4 - 164777200x^3 - 110638080x^2 - 36879360x - 4456256$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 3x^{14} + 9x^{12} + 9x^{11} - 9x^{10} + 6x^9 + 9x^8 - 9x^7 - 3x^6 - 9x^4 - 6x^3 + 9x^2 + 9x + 3$ | $x^{15} - 15x^{13} - 95x^{12} + 720x^{11} + 4929x^{10} + 16135x^9 + 72270x^8 + 279045x^7 + 734540x^6 + 1592316x^5 + 3067170x^4 + 4467170x^3 + 4145625x^2 + 2119845x + 449789$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|-------------------|
| $x^{15} + 12x^{14} - 12x^{12} - 9x^{11} - 9x^{10} + 12x^9 - 9x^8 - 9x^7 - 12x^6 + 9x^3 + 9x + 6$ | $x^{15} - 15x^{13} - 320x^{12} + 1305x^{11} + 29247x^{10} - 74615x^9 - 1808685x^8 + 7751385x^7 + 55656455x^6 - 600478380x^5 + 2396574555x^4 - 5185882360x^3 + 6272850735x^2 - 3789896100x + 758770640$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 12x^{14} + 9x^{13} + 12x^{12} - 9x^{11} - 3x^9 - 9x^8 - 9x^7 + 12x^6 + 9x^5 + 12x^3 - 9x^2 - 9x - 12$ | $x^{15} - 15x^{13} - 35x^{12} + 90x^{11} + 420x^{10} - 350x^9 + 2700x^8 + 24120x^7 - 5260x^6 - 282312x^5 - 643440x^4 - 357160x^3 + 337680x^2 + 235200x - 114352$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} + 6x^{14} - 9x^{13} - 9x^{12} + 9x^{11} + 9x^{10} + 12x^9 - 9x^8 + 9x^7 + 9x^6 + 6x^3 - 9x^2 + 9x - 12$ | $x^{15} - 15x^{13} - 25x^{12} + 360x^{11} + 210x^{10} - 2570x^9 - 540x^8 + 5220x^7 - 1820x^6 - 17496x^5 - 80160x^4 - 162040x^3 - 141120x^2 - 92400x - 48272$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{15} + 6x^{14} + 3x^{12} + 9x^{11} +$ $9x^{10} - 3x^9 - 9x^8 + 9x^7 + 3x^6 -$ $9x^5 + 9x^4 + 9x^3 + 9x^2 + 9x + 12$ | $x^{15} - 150x^{13} - 730x^{12} + 4770x^{11} +$ $108849x^{10} + 226450x^9 - 4203180x^8 -$ $20645370x^7 + 28903210x^6 +$ $448077969x^5 + 911630460x^4 -$ $2590128340x^3 - 14939762850x^2 -$ $28201428150x - 19973836175$ | $\left[\begin{array}{c} 2 \frac{12}{5} \\ 2 \frac{12}{5} \\ 2 \frac{12}{5} \\ 2 \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 6x^{14} + 9x^{12} - 9x^{11} +$ $9x^{10} - 9x^9 - 9x^8 - 9x^7 - 3x^6 +$ $9x^4 - 9x^3 + 9x^2 - 9x + 12$ | $x^{15} - 15x^{13} - 10x^{12} + 90x^{11} + 120x^{10} -$ $230x^9 - 540x^8 + 580x^6 - 27x^5 -$ $195x^4 - 145x^3 - 450x^2 - 330x - 74$ | $\left[\begin{array}{c} 2 \frac{12}{5} \\ 2 \frac{12}{5} \\ 2 \frac{12}{5} \\ 2 \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{15} + 3x^{14} - 9x^{13} - 3x^{12} +$ $9x^{10} + 6x^9 - 9x^8 + 9x^7 - 6x^6 -$ $9x^5 - 6$ | $x^{15} - 195x^{13} - 635x^{12} + 15390x^{11} +$ $67821x^{10} - 593195x^9 - 3277890x^8 +$ $12702735x^7 + 74733110x^6 -$ $158682060x^5 - 829600050x^4 +$ $1047086000x^3 + 4351209975x^2 -$ $2665457925x - 8856329725$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 6x^{14} + 9x^{13} - 3x^{12} -$ $9x^{11} + 9x^{10} + 9x^8 + 9x^7 + 6x^6 -$ $12x^3 + 9x^2 - 12$ | $x^{15} - 45x^{13} - 570x^{12} + 1620x^{11} +$ $14283x^{10} + 64935x^9 - 88155x^8 -$ $1163655x^7 - 4877910x^6 -$ $9084150x^5 - 9835965x^4 -$ $10378845x^3 + 9616590x^2 -$ $2706075x + 1103715$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} - 6x^{14} - 9x^{13} - 9x^{11} +$ $6x^9 - 9x^7 - 9x^5 - 9x^4 + 3x^3 +$ $9x^2 - 6$ | $x^{15} - 15x^{13} - 5x^{12} + 90x^{11} - 75x^{10} -$ $200x^9 + 135x^8 + 3725x^6 - 999x^5 -$ $10245x^4 + 3155x^3 + 1260x^2 - 20580x -$ 13384 | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 12x^{14} + 9x^{13} - 12x^{12} -$ $9x^{11} - 9x^{10} - 9x^9 - 9x^8 - 9x^7 -$ $3x^6 + 9x^5 + 9x^4 - 3x^3 + 9x^2 +$ $9x + 3$ | $x^{15} - 150x^{13} - 280x^{12} + 15390x^{11} -$ $2607x^{10} - 979820x^9 + 3698640x^8 +$ $24275160x^7 - 249618230x^6 +$ $867397833x^5 - 1146912270x^4 -$ $1137899860x^3 + 6141104640x^2 -$ 8263912920x + 4069566991 | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{15} + 3x^{14} + 9x^{13} + 9x^{11} -$ $6x^9 + 9x^5 + 9x^4 - 6x^3 + 9x^2 -$ $9x + 3$ | $x^{15} - 60x^{13} - 40x^{12} - 315x^{11} +$ $1470x^{10} - 13580x^9 - 19845x^8 +$ $174195x^7 - 578690x^6 - 120393x^5 +$ $3313380x^4 - 10339735x^3 +$ $12209085x^2 - 7599165x - 4024076$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 12x^{14} - 9x^{13} - 12x^{12} +$ $9x^{11} + 9x^7 + 9x^6 - 9x^5 - 9x^4 -$ $12x^3 + 9x^2 + 12$ | $x^{15} - 15x^{13} - 5x^{12} + 90x^{11} + 195x^{10} -$ $170x^9 - 1485x^8 - 1620x^7 - 1975x^6 -$ $3429x^5 - 3315x^4 - 13525x^3 - 6300x^2 -$ $10500x - 7000$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{15} + 6x^{14} - 9x^{13} - 12x^{12} - 9x^{11} + 9x^{10} - 12x^9 - 9x^8 - 9x^7 + 9x^5 - 9x^4 - 12x^3 - 9x^2 - 12$ | $x^{15} - 105x^{13} - 35x^{12} - 6300x^{11} + 10473x^{10} - 334565x^9 + 2561580x^8 - 16346925x^7 + 108906350x^6 - 372403908x^5 + 1844694600x^4 - 3775708510x^3 + 13382925255x^2 - 14354340315x + 32519059943$ | $\left[\begin{matrix} 2 & \frac{12}{5} \\ & \frac{12}{5} \end{matrix} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 6x^{14} - 9x^{11} - 9x^{10} + 12x^9 - 9x^7 + 9x^6 - 9x^5 - 6x^3 - 9x^2 + 9x - 6$ | $x^{15} - 15x^{13} - 25x^{12} - 180x^{11} - 150x^{10} - 950x^9 - 3060x^7 - 20x^6 - 4968x^5 + 4080x^4 - 14200x^3 - 5040x^2 + 10560x - 3536$ | $\left[\begin{matrix} 2 & \frac{12}{5} \\ & \frac{12}{5} \end{matrix} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} - 12x^{14} - 12x^{12} + 9x^{11} +$ $9x^{10} + 12x^9 - 9x^8 + 12x^6 -$ $9x^5 - 9x^4 - 9x^3 + 9x - 6$ | $x^{15} - 45x^{13} - 405x^{12} + 1080x^{11} +$ $12483x^{10} + 62595x^9 - 20925x^8 -$ $1518705x^7 - 7346790x^6 -$ $15409440x^5 - 22062780x^4 -$ $17825895x^3 + 7150950x^2 - 805005x +$ 29331 | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 12x^{14} + 12x^{12} - 9x^{11} -$ $12x^6 - 9x^4 - 9x^3 + 9x^2 - 12$ | $x^{15} - 15x^{13} - 5x^{12} + 360x^{11} - 30x^{10} -$ $2750x^9 + 3780x^8 + 6840x^7 - 30400x^6 -$ $11016x^5 + 89880x^4 - 118480x^3 +$ $50400x^2 - 26880x + 7280$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 6x^{14} - 9x^{13} - 12x^{12} -$ $9x^{11} - 9x^{10} + 12x^9 + 9x^7 +$ $9x^5 - 3x^3 + 9x^2 - 9x - 6$ | $x^{15} + 30x^{13} - 25x^{12} + 360x^{11} - 330x^{10} +$ $2590x^9 - 2160x^8 + 8820x^7 - 3860x^6 +$ $1728x^5 + 10920x^4 - 27160x^3 -$ $7200x^2 - 4560x - 464$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} + 12x^{14} + 9x^{13} + 9x^{12} +$ $9x^{10} - 3x^9 + 9x^7 - 9x^6 - 9x^5 -$ $9x^4 - 3x^3 - 9x + 3$ | $x^{15} - 105x^{13} - 1225x^{12} - 14490x^{11} -$ $123297x^{10} - 773045x^9 - 4560570x^8 -$ $23304645x^7 - 80820530x^6 -$ $339064308x^5 - 855582000x^4 -$ $1929207700x^3 - 9060950115x^2 -$ $7533439305x - 72317115473$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 3x^{14} + 9x^{12} - 9x^{11} -$ $9x^9 + 9x^8 + 9x^7 + 12x^6 + 9x^4 +$ $12x^3 + 9x + 3$ | $x^{15} - 15x^{13} - 155x^{12} + 90x^{11} +$ $2481x^{10} + 3295x^9 - 6480x^8 -$ $29385x^7 - 82480x^6 - 123174x^5 -$ $177600x^4 - 145420x^3 - 57105x^2 -$ $10365x - 667$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} + 3x^{14} - 9x^{13} + 6x^{12} - 9x^{11} + 9x^{10} - 12x^9 + 9x^7 - 12x^6 + 9x^5 + 9x^4 - 3x^3 - 9x^2 - 9x - 3$ | $x^{15} - 15x^{13} - 5x^{12} + 90x^{11} + 60x^{10} - 260x^9 - 270x^8 + 315x^7 + 530x^6 + 27x^5 - 345x^4 - 265x^3 - 90x^2 - 15x + 2$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 6x^{14} + 6x^{12} - 9x^{11} + 9x^{10} - 6x^9 + 9x^7 + 12x^6 + 9x^5 + 9x^4 + 12x^3 - 9x + 12$ | $x^{15} - 15x^{13} - 20x^{12} + 495x^{11} - 975x^{10} - 2135x^9 + 7695x^8 + 270x^7 - 21565x^6 + 17496x^5 + 16035x^4 - 29395x^3 + 16380x^2 - 5460x + 1064$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 12x^{14} + 9x^{13} - 9x^{12} - 9x^{11} - 9x^{10} - 3x^9 - 9x^8 + 9x^7 - 9x^5 - 9x^4 - 3x^3 - 9x^2 + 9x - 12$ | $x^{15} + 30x^{13} - 50x^{12} - 315x^{11} + 105x^{10} - 12530x^9 + 26460x^8 + 105840x^7 + 58310x^6 - 1231713x^5 + 3092145x^4 - 9933280x^3 + 19232010x^2 - 16458855x + 6545126$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| Continued on next page | | | | |

Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} + 3x^{14} - 9x^{12} + 9x^{10} - 9x^9 + 9x^7 - 9x^6 + 9x^5 - 9x + 3$ | $x^{15} - 15x^{13} - 20x^{12} + 90x^{11} + 195x^{10} + 265x^9 + 135x^8 - 1035x^7 - 2950x^6 - 4266x^5 - 3135x^4 - 1510x^3 - 1575x^2 - 1680x - 595$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 3x^{14} + 12x^{12} - 9x^{10} - 12x^9 + 9x^8 - 9x^6 - 9x^5 - 9x^4 - 9x^3 - 9x + 6$ | $x^{15} - 15x^{13} - 125x^{12} + 1080x^{11} - 2001x^{10} - 6815x^9 + 49050x^8 - 144495x^7 + 266600x^6 - 331596x^5 + 275460x^4 - 140800x^3 + 32895x^2 + 3045x - 2161$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} - 3x^{14} + 9x^{13} - 6x^{12} -$ $9x^{11} - 6x^9 + 9x^8 - 9x^7 -$ $12x^6 + 3x^3 + 9x^2 + 9x + 6$ | $x^{15} - 105x^{13} - 490x^{12} - 10395x^{11} +$ $23511x^{10} - 87395x^9 + 217665x^8 -$ $5554395x^7 - 54582815x^6 -$ $129862944x^5 - 298981095x^4 -$ $821886310x^3 + 1132067475x^2 +$ $8479399530x + 9404183776$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 12x^{14} + 9x^{13} + 6x^{12} +$ $9x^{11} - 9x^9 - 9x^8 - 12x^6 -$ $9x^5 - 9x^4 + 3x^3 - 9x^2 - 9x - 12$ | $x^{15} - 105x^{13} - 805x^{12} + 15750x^{11} +$ $40503x^{10} - 520415x^9 + 2774520x^8 +$ $16810605x^7 - 96331130x^6 +$ $11530692x^5 + 149770740x^4 +$ $160710620x^3 + 103476555x^2 +$ $15459465x + 12950797$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} + 6x^{14} + 9x^{13} + 12x^{12} + 9x^{11} + 9x^{10} + 9x^8 + 9x^7 - 12x^6 + 9x^5 + 9x^4 - 12x^3 + 9x^2 + 9x + 12$ | $x^{15} + 30x^{13} - 40x^{12} + 360x^{11} - 780x^{10} + 2800x^9 - 4320x^8 + 12600x^7 - 13520x^6 - 15552x^5 + 12720x^4 - 400x^3 + 31680x^2 - 26880x + 1216$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} + 12x^{14} - 6x^{12} - 9x^{10} + 12x^9 - 9x^8 - 9x^7 - 3x^6 + 9x^5 + 9x^4 - 9x^3 + 9x^2 + 9x - 12$ | $x^{15} - 15x^{13} - 20x^{12} + 90x^{11} + 240x^{10} - 110x^9 - 945x^8 - 945x^7 + 725x^6 + 270x^5 - 975x^4 - 1525x^3 - 2250x^2 - 2400x - 850$ | $\left[\begin{array}{c} 2 \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 12x^{14} + 9x^{13} + 6x^{12} + 9x^{10} + 6x^9 + 9x^7 - 9x^6 - 9x^5 + 12x^3 - 9x + 3$ | $x^{15} - 60x^{13} - 80x^{12} + 1440x^{11} + 3840x^{10} - 14960x^9 - 69120x^8 + 20160x^7 + 527360x^6 + 753408x^5 - 1044480x^4 - 3992320x^3 - 3686400x^2 - 199680x + 982016$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} + 6x^{14} - 9x^{13} + 12x^{12} +$ $9x^{11} + 3x^9 + 9x^8 - 12x^6 -$ $9x^5 - 9x^4 + 6x^3 - 9x - 3$ | $x^{15} - 15x^{13} - 25x^{12} - 180x^{11} - 510x^{10} -$ $1430x^9 - 3780x^8 - 7380x^7 - 13280x^6 -$ $19008x^5 - 21120x^4 - 18880x^3 -$ $11520x^2 - 3840x - 1808$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 12x^{14} + 9x^{13} + 12x^{12} -$ $9x^{11} + 9x^{10} + 3x^9 + 9x^8 + 9x^7 -$ $6x^6 - 9x^5 - 9x^4 - 12x^3 + 9x^2 +$ 12 | $x^{15} - 150x^{13} - 395x^{12} -$ $315x^{11} + 105x^{10} + 25900x^9 -$ $33075x^8 - 132300x^7 + 443450x^6 -$ $2704212x^5 - 241815x^4 + 2985815x^3 -$ $31981320x^2 + 35078610x - 48629854$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 3x^{14} - 9x^{13} - 12x^9 +$ $9x^8 + 9x^7 + 3x^6 + 9x^4 + 3x^3 -$ $9x^2 - 9x - 12$ | $x^{15} - 15x^{13} - 25x^{12} + 360x^{11} - 600x^{10} -$ $200x^9 + 6840x^7 - 11960x^6 + 432x^5 +$ $17400x^4 + 440x^3 - 5040x^2 - 2400x +$ 592 | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} - 6x^{14} - 9x^{13} + 12x^{12} -$ $9x^{10} - 6x^9 + 9x^8 - 12x^6 -$ $9x^4 + 3x^3 - 3$ | $x^{15} - 180x^{13} - 1320x^{12} + 1890x^{11} +$ $44991x^{10} - 195180x^9 - 752670x^8 +$ $3401910x^7 - 4003290x^6 -$ $35940591x^5 + 58670190x^4 -$ $13096440x^3 - 296345250x^2 +$ $403755300x - 384436575$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 6x^{14} + 3x^{12} - 9x^{11} +$ $9x^9 - 9x^8 - 6x^6 - 3x^3 - 9x + 6$ | $x^{15} - 195x^{13} - 260x^{12} + 10935x^{11} +$ $39651x^{10} - 279425x^9 - 2708775x^8 -$ $8699535x^7 - 5159305x^6 +$ $39665484x^5 + 88633275x^4 +$ $28835720x^3 + 63091125x^2 +$ $440934960x + 460603184$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{15} + 12x^{14} - 9x^{13} + 12x^{12} - 9x^{10} - 9x^8 - 9x^7 + 6x^6 + 3x^3 - 9x^2 - 9x - 12$ | $x^{15} - 45x^{13} - 285x^{12} + 1350x^{11} + 10854x^{10} + 29580x^9 - 85275x^8 - 1396125x^7 + 636390x^6 + 11530134x^5 - 6739200x^4 - 34507575x^3 + 14388165x^2 + 69625170x - 57020805$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 12x^{14} - 9x^{12} - 9x^{11} + 9x^{10} - 3x^9 - 9x^8 - 3x^6 + 6x^3 + 9x^2 - 9x + 3$ | $x^{15} + 30x^{13} - 85x^{12} - 315x^{11} - 1680x^{10} - 10535x^9 + 19845x^8 + 167580x^7 - 86240x^6 - 676053x^5 + 658560x^4 - 317275x^3 - 1728720x^2 + 3853605x - 1964018$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} - 6x^{14} + 6x^{12} - 9x^{11} -$ $6x^9 + 9x^8 + 9x^7 - 3x^6 - 9x^5 +$ $6x^3 + 6$ | $x^{15} - 150x^{13} - 995x^{12} + 4185x^{11} +$ $78693x^{10} + 440470x^9 + 1678905x^8 -$ $499500x^7 - 124220095x^6 -$ $1349613945x^5 - 7662909585x^4 -$ $26202891850x^3 - 54332453970x^2 -$ $63105175185x - 31543806904$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 6x^{14} + 9x^{13} - 3x^{12} +$ $9x^{11} + 9x^{10} + 9x^8 + 9x^7 - 9x^6 +$ $9x^5 + 9x^4 - 3x^3 - 9x^2 + 9x + 12$ | $x^{15} - 105x^{13} - 70x^{12} + 4410x^{11} +$ $5880x^{10} - 88445x^9 - 185220x^8 +$ $710010x^7 + 2473030x^6 + 1426194x^5 -$ $8571570x^4 - 36471190x^3 -$ $52942050x^2 - 44118375x - 17227175$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} - 12x^{14} + 9x^{13} - 6x^{12} + 9x^{10} - 12x^9 - 9x^8 + 9x^7 - 3x^6 + 9x^5 + 9x^3 - 9x^2 + 9x - 3$ | $x^{15} - 15x^{13} - 25x^{12} + 630x^{11} - 1050x^{10} - 1820x^9 + 6480x^8 - 9180x^7 + 5680x^6 - 3888x^5 + 1920x^4 - 3640x^3 - 720x^2 - 960x + 112$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} + 6x^{14} - 6x^{12} + 9x^{11} - 9x^9 + 6x^6 - 6x^3 - 9x^2 + 6$ | $x^{15} - 60x^{13} - 170x^{12} + 6300x^{11} - 17220x^{10} - 173600x^9 + 1217160x^8 - 1746360x^7 - 2277520x^6 - 21040992x^5 + 120598800x^4 + 112476560x^3 - 1196274240x^2 + 232800960x + 3217109504$ | $\left[\begin{array}{c} 2 \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} - 12x^{14} + 9x^{13} + 3x^{12} +$ $9x^{11} - 9x^{10} + 9x^9 + 9x^8 + 9x^7 +$ $3x^6 + 9x^2 + 3$ | $x^{15} - 60x^{13} - 490x^{12} + 8550x^{11} -$ $8853x^{10} - 364460x^9 + 2521170x^8 -$ $8439480x^7 + 32095090x^6 -$ $203448159x^5 + 987402360x^4 -$ $2899590100x^3 + 5018739480x^2 -$ $4743787380x + 1881010987$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 3x^{14} + 12x^{12} - 9x^{11} -$ $9x^{10} - 6x^9 + 9x^7 - 6x^6 + 9x^5 +$ $6x^3 + 9x^2 + 12$ | $x^{15} - 15x^{13} - 10x^{12} + 90x^{11} + 120x^{10} -$ $230x^9 - 540x^8 + 45x^7 + 1000x^6 +$ $108x^5 - 2760x^4 - 4240x^3 - 2880x^2 -$ $960x - 128$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{15} + 6x^{14} + 3x^{12} - 9x^{11} + 9x^{10} - 6x^9 + 9x^7 + 3x^6 - 9x^5 + 3x^3 + 9x^2 - 3$ | $x^{15} + 165x^{13} - 170x^{12} + 4410x^{11} - 3990x^{10} - 82040x^9 - 1234800x^7 - 1324960x^6 + 21411432x^5 + 16628640x^4 - 138599440x^3 - 283510080x^2 - 273714000x - 201607168$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 6x^{14} - 3x^{12} - 9x^{11} + 9x^9 - 9x^8 + 9x^7 + 9x^4 - 12x^3 + 9x + 12$ | $x^{15} - 15x^{13} - 5x^{12} - 135x^{11} + 69x^{10} + 40x^9 + 4500x^8 + 11475x^7 + 7745x^6 - 8487x^5 - 7995x^4 + 4610x^3 + 2655x^2 - 2265x + 431$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|-------------------|
| $x^{15} + 3x^{14} - 6x^{12} + 9x^{11} -$ $9x^{10} + 12x^9 + 9x^7 - 3x^6 +$ $9x^4 - 6x^3 + 9x^2 - 9x - 12$ | $x^{15} - 60x^{13} - 470x^{12} + 8370x^{11} -$ $36129x^{10} - 75050x^9 + 705600x^8 -$ $872730x^7 - 6275950x^6 + 8801955x^5 +$ $19469670x^4 - 72946840x^3 -$ $182797650x^2 - 143983950x -$ 42952297 | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 3x^{14} - 9x^{13} + 9x^{12} -$ $9x^{11} + 9x^{10} + 9x^9 - 9x^8 - 9x^7 +$ $12x^6 - 9x^4 - 3x^3 + 9x^2 - 9x +$ 12 | $x^{15} - 105x^{13} - 875x^{12} + 14490x^{11} +$ $126429x^{10} + 166915x^9 - 2351160x^8 -$ $6464115x^7 + 66649100x^6 +$ $505236906x^5 + 1265483310x^4 +$ $964191200x^3 + 159310935x^2 -$ $70832895x - 18809239$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| Continued on next page | | | | |

Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{15} + 6x^{14} - 9x^{13} + 3x^{12} -$ $9x^{10} - 12x^9 + 9x^8 + 6x^6 +$ $9x^5 - 9x^4 + 9x^2 - 9x + 6$ | $x^{15} - 105x^{13} - 175x^{12} + 4410x^{11} +$ $12801x^{10} - 77105x^9 - 307755x^8 +$ $56700x^7 + 927325x^6 + 11891781x^5 +$ $68716200x^4 - 13856500x^3 -$ $776156220x^2 - 1376425680x -$ 413676689 | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 6x^{14} + 6x^{12} + 9x^{11} -$ $9x^{10} - 3x^9 + 9x^5 + 9x^4 + 9x^3 +$ $9x + 3$ | $x^{15} - 45x^{13} - 15x^{12} + 540x^{11} -$ $3420x^9 + 1080x^8 + 12240x^7 - 3240x^6 -$ $24624x^5 + 22320x^3 - 15120x - 5904$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{15} - 12x^{14} - 6x^{12} - 9x^{11} - 9x^{10} - 6x^9 + 9x^7 + 9x^6 - 9x^5 + 6x^3 - 9x^2 - 9x + 3$ | $x^{15} + 75x^{13} - 50x^{12} + 4410x^{11} + 10500x^{10} + 132160x^9 + 238140x^8 + 2875320x^7 + 15480080x^6 + 39933432x^5 - 18563160x^4 - 201162640x^3 - 252393120x^2 - 121586640x - 206667808$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 6x^{14} + 9x^{13} + 12x^{12} - 9x^{11} - 9x^{10} + 9x^9 + 9x^7 - 9x^6 - 9x^5 - 9x^4 + 9x^2 - 9x - 3$ | $x^{15} - 105x^{13} - 140x^{12} + 4410x^{11} + 11760x^{10} - 86975x^9 - 370440x^8 + 617400x^7 + 5213600x^6 + 3371004x^5 - 28379820x^4 - 58368310x^3 + 12101040x^2 + 129834075x + 98808353$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} - 12x^{14} - 9x^{12} - 9x^{11} -$ $9x^{10} + 9x^9 - 9x^8 - 9x^7 + 9x^5 +$ $9x^4 - 9x^2 - 9x - 12$ | $x^{15} + 30x^{13} - 190x^{12} - 1080x^{11} +$ $4134x^{10} - 17780x^9 + 108765x^8 -$ $231345x^7 + 700525x^6 - 1272816x^5 +$ $1658415x^4 - 2084440x^3 + 892620x^2 -$ $1589280x + 419440$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 3x^{14} + 9x^{13} + 3x^{12} -$ $9x^{11} - 9x^{10} + 6x^9 + 9x^8 +$ $9x^4 + 6x^3 + 9x^2 - 6$ | $x^{15} - 60x^{13} - 590x^{12} + 8280x^{11} -$ $8373x^{10} - 235640x^9 + 1705410x^8 -$ $8381700x^7 + 28996040x^6 -$ $21596499x^5 - 197272380x^4 +$ $382032740x^3 + 503422920x^2 -$ $920498010x - 943111183$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|-------------------|
| $x^{15} + 6x^{14} + 9x^{12} + 9x^{10} +$ $3x^9 + 9x^8 + 9x^7 + 6x^6 - 9x^5 -$ $9x^4 + 12x^3 + 9x^2 - 12$ | $x^{15} - 105x^{13} - 175x^{12} +$ $4410x^{11} + 14700x^{10} - 74480x^9 -$ $463050x^8 - 169785x^7 + 5508580x^6 +$ $19901889x^5 + 6878865x^4 -$ $136196725x^3 - 429586920x^2 -$ $665809305x - 234289580$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 12x^{14} - 6x^{12} - 9x^{11} -$ $9x^{10} + 12x^9 + 9x^8 + 9x^7 +$ $9x^6 - 9x^5 - 12x^3 + 9x^2 + 9x - 6$ | $x^{15} - 15x^{13} - 5x^{12} + 360x^{11} - 1290x^{10} -$ $950x^9 + 11340x^8 - 8460x^7 - 17860x^6 -$ $34776x^5 + 141360x^4 + 25640x^3 -$ $191520x^2 - 82320x + 24752$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|-------------------|
| $x^{15} - 12x^{14} - 12x^{12} - 9x^{11} - 9x^{10} + 6x^9 + 9x^8 + 9x^6 + 9x^5 - 9x^4 - 9x^3 - 9x^2 - 9x + 12$ | $x^{15} - 150x^{13} - 625x^{12} + 4455x^{11} + 83649x^{10} + 224770x^9 - 2431305x^8 - 14431050x^7 + 1145095x^6 + 163619739x^5 + 44431365x^4 - 2559470860x^3 - 8779292100x^2 - 12301874655x - 6643156610$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 12x^{14} + 9x^{13} + 3x^{12} + 9x^{11} + 9x^{10} - 12x^9 - 9x^7 + 6x^6 - 9x^5 + 9x^4 + 12x^3 + 9x^2 + 9x - 3$ | $x^{15} - 15x^{13} - 5x^{12} + 90x^{11} + 60x^{10} - 260x^9 - 270x^8 + 315x^7 + 650x^6 + 27x^5 - 1065x^4 - 265x^3 + 990x^2 - 15x - 313$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} - 12x^{14} + 9x^{13} + 6x^{12} + 9x^{11} - 9x^{10} + 12x^9 + 9x^8 + 9x^7 + 12x^6 + 9x^5 + 3x^3 - 9x^2 - 9x - 6$ | $x^{15} - 195x^{13} - 770x^{12} + 8325x^{11} + 43161x^{10} - 279995x^9 - 3290445x^8 - 14038605x^7 - 31388545x^6 - 37889946x^5 - 47241075x^4 - 86445610x^3 - 64934145x^2 + 8772420x - 4168276$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 6x^{14} - 9x^{13} - 9x^{11} + 9x^{10} + 6x^9 - 9x^7 + 9x^6 - 9x^5 + 9x^4 - 12x^3 - 9x^2 + 9x - 3$ | $x^{15} - 315x^{13} - 210x^{12} + 26460x^{11} + 26460x^{10} - 1105440x^9 - 2222640x^8 + 20868120x^7 + 76557600x^6 - 56010528x^5 - 860902560x^4 - 2577521520x^3 - 3920736960x^2 - 3376190160x - 1273029408$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |
| Continued on next page | | | | |

Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} - 3x^{14} + 9x^{13} - 6x^{12} + 9x^{10} + 12x^9 + 9x^8 + 9x^7 + 9x^6 + 9x^3 + 6$ | $x^{15} - 15x^{13} - 130x^{12} + 765x^{11} - 3057x^{10} + 12235x^9 - 32625x^8 + 70065x^7 - 134525x^6 + 188892x^5 - 204405x^4 + 184160x^3 - 66915x^2 - 45060x + 20068$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 6x^{14} + 9x^{13} - 12x^{12} + 9x^{11} + 12x^9 - 9x^7 + 9x^6 - 9x^5 - 9x^4 - 3x^3 + 3$ | $x^{15} - 195x^{13} - 35x^{12} + 19440x^{11} - 47397x^{10} - 588095x^9 + 593280x^8 + 27143235x^7 - 126286750x^6 + 86135634x^5 + 646287180x^4 - 1647391450x^3 + 1359312435x^2 - 399142815x + 219072113$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{15} + 6x^{14} + 9x^{13} - 12x^{12} - 9x^9 + 9x^8 + 9x^7 + 12x^6 - 9x^4 + 3x^3 + 9x^2 + 9x + 3$ | $x^{15} + 90x^{13} - 900x^{12} + 6300x^{11} - 48087x^{10} + 54690x^9 + 245430x^8 - 6228450x^7 + 36851580x^6 - 140931765x^5 + 448180830x^4 - 917137620x^3 + 1662478290x^2 - 1721590740x + 1439481141$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} + 6x^{14} + 3x^{12} + 9x^{10} + 12x^9 + 9x^6 + 9x^5 + 9x^4 + 6x^3 + 6$ | $x^{15} - 15x^{13} - 10x^{12} + 90x^{11} - 195x^{10} + 505x^9 + 405x^8 - 1305x^7 + 2890x^6 - 5616x^5 + 2415x^4 - 6280x^3 + 1575x^2 - 2310x + 763$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| Continued on next page | | | | |

Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} - 3x^{14} - 6x^{12} - 9x^{10} +$ $6x^9 + 9x^8 - 9x^7 - 6x^6 + 9x^4 -$ $6x^3 - 9x^2 + 9x + 3$ | $x^{15} - 150x^{13} - 530x^{12} + 15120x^{11} +$ $38913x^{10} - 886700x^9 - 383850x^8 +$ $27745020x^7 - 55720600x^6 -$ $202292127x^5 + 550231350x^4 +$ $802144700x^3 - 2416255200x^2 -$ $1392200970x + 4310950961$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} + 6x^{14} + 9x^{13} - 9x^{12} -$ $9x^{11} - 9x^{10} + 6x^9 + 9x^8 - 9x^7 -$ $3x^6 + 9x^5 + 9x^4 - 3x^3 + 9x^2 +$ $9x + 3$ | $x^{15} - 150x^{13} - 10x^{12} + 6300x^{11} +$ $3360x^{10} - 53900x^9 - 158760x^8 +$ $2222640x^7 - 703640x^6 -$ $147138768x^5 + 62151600x^4 +$ $20278160x^3 - 6914880x^2 -$ $2304960x + 1997632$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} - 3x^{14} + 9x^{13} - 12x^{12} -$ $9x^{11} + 6x^9 - 6x^6 + 9x^4 + 6x^3 +$ $9x^2 - 6$ | $x^{15} + 30x^{13} - 10x^{12} + 360x^{11} - 60x^{10} +$ $2260x^9 - 1080x^8 + 8280x^7 - 7400x^6 +$ $3888x^5 + 14880x^4 - 34960x^3 +$ $31680x^2 - 18240x + 5056$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 3x^{14} + 6x^{12} - 9x^{10} +$ $12x^9 + 9x^7 - 12x^6 + 3x^3 +$ $9x^2 + 9x - 6$ | $x^{15} - 105x^{13} - 805x^{12} - 10080x^{11} +$ $36111x^{10} - 89075x^9 + 1632960x^8 -$ $11269125x^7 - 11357360x^6 -$ $108162594x^5 + 372943200x^4 +$ $149559620x^3 - 432701325x^2 -$ $1320993555x + 1705586149$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 12x^{14} - 9x^{12} - 9x^{11} -$ $9x^9 + 9x^8 - 9x^7 + 3x^6 + 9x^4 -$ $3x^3 - 9x^2 - 9x - 12$ | $x^{15} - 15x^{13} - 10x^{12} - 45x^{11} - 240x^{10} -$ $875x^9 - 2970x^8 + 585x^7 + 22900x^6 +$ $36558x^5 - 10950x^4 - 84700x^3 -$ $94680x^2 - 46320x - 8864$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} + 6x^{14} + 9x^{13} - 6x^{12} - 9x^{10} - 9x^9 - 9x^8 - 6x^6 + 9x^5 + 9x^4 + 12x^3 + 9x - 12$ | $x^{15} - 15x^{13} - 20x^{12} + 360x^{11} - 570x^{10} - 2240x^9 + 9180x^8 - 5400x^7 - 31960x^6 + 64584x^5 - 2640x^4 - 185200x^3 + 246960x^2 - 203280x - 1120$ | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 6x^{14} - 3x^{12} - 3x^9 + 9x^8 - 6x^6 + 9x^4 - 3x^3 - 9x^2 - 6$ | $x^{15} - 105x^{13} - 1295x^{12} - 26460x^{11} - 180399x^{10} - 1383935x^9 - 7832160x^8 - 53036235x^7 - 377512870x^6 - 1757817720x^5 - 5030599350x^4 - 9018716770x^3 - 10032490755x^2 - 6420476895x - 1833192913$ | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

Continued on next page

Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} - 6x^{14} + 9x^{13} + 3x^{12} +$ $9x^9 + 9x^8 - 9x^6 + 9x^5 - 9x^4 +$ $12x^3 - 9x^2 - 9x - 6$ | $x^{15} - 195x^{13} - 145x^{12} + 16020x^{11} -$ $11139x^{10} - 667535x^9 + 1439550x^8 +$ $15729255x^7 - 65487530x^6 -$ $157098870x^5 + 1716862260x^4 -$ $5153463880x^3 + 7592020065x^2 -$ $5392462065x + 1326885583$ | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \\ \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 12x^{14} - 9x^{13} - 9x^{12} -$ $9x^{11} + 6x^9 + 9x^8 + 6x^6 - 9x^5 -$ $6x^3 + 9x + 3$ | $x^{15} - 105x^{13} - 1400x^{12} - 12915x^{11} -$ $98517x^{10} - 728105x^9 - 2560005x^8 -$ $9247455x^7 - 39476185x^6 -$ $72172368x^5 - 173079795x^4 -$ $460519570x^3 - 324908955x^2 +$ $200425890x - 52417912$ | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \\ \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{15} - 3x^{14} - 9x^{13} + 3x^{12} -$ $9x^{11} - 3x^9 + 9x^8 - 9x^7 - 3x^6 -$ $9x^2 + 6$ | $x^{15} - 105x^{13} - 665x^{12} + 3465x^{11} +$ $71898x^{10} - 48965x^9 - 1617525x^8 -$ $6665400x^7 - 5820325x^6 +$ $68089572x^5 + 322728315x^4 +$ $673893185x^3 + 766208835x^2 +$ $464169720x + 118543088$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 12x^{14} + 3x^{12} - 9x^{11} +$ $12x^9 + 9x^8 + 9x^7 - 9x^6 - 9x^5 +$ $9x^4 - 12x^3 + 9x^2 - 3$ | $x^{15} - 105x^{13} - 140x^{12} - 7245x^{11} -$ $69501x^{10} - 190085x^9 - 1519875x^8 -$ $6697845x^7 - 12192985x^6 +$ $74822166x^5 - 339881115x^4 +$ $1285200980x^3 - 2372938785x^2 +$ $2006601870x - 633208024$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} + 12x^{14} - 9x^{13} - 6x^{12} - 9x^{10} - 3x^9 - 9x^7 - 3x^6 - 9x^4 + 6x^3 + 12$ | $x^{15} - 105x^{13} - 70x^{12} + 17640x^{11} + 80850x^{10} - 262640x^9 - 555660x^8 + 20127240x^7 + 136911880x^6 + 380664144x^5 + 308864640x^4 - 1072766800x^3 - 2807441280x^2 - 923712720x + 1921107328$ | $\left[\begin{array}{c} \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \\ \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 3x^{14} - 9x^{13} - 6x^{12} - 9x^{11} + 6x^9 + 9x^8 - 9x^7 - 9x^6 + 3x^3 - 9x - 3$ | $x^{15} - 105x^{13} - 455x^{12} - 8820x^{11} - 58800x^{10} - 477260x^9 - 3889620x^8 - 19756800x^7 - 97542340x^6 - 355770576x^5 - 925153320x^4 - 2941513120x^3 - 7321129200x^2 - 16400942880x - 32435896528$ | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \\ \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} + 3x^{14} + 9x^{13} + 3x^{12} -$ $9x^{11} - 9x^{10} + 9x^8 + 9x^7 -$ $12x^6 - 9x^5 + 3x^3 + 9x^2 - 9x + 3$ | $x^{15} - 330x^{13} - 440x^{12} + 34290x^{11} +$ $22533x^{10} - 1842890x^9 + 959310x^8 +$ $61238430x^7 - 156110710x^6 -$ $1026789525x^5 + 7218656160x^4 -$ $19417524160x^3 + 27180632610x^2 -$ $19016927160x + 4689156617$ | $\left[\begin{array}{c} \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \\ \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 12x^{14} - 9x^{13} + 6x^{12} +$ $9x^{11} + 9x^{10} + 9x^9 - 9x^8 + 9x^7 +$ $9x^6 + 9x^4 - 6x^3 - 9x^2 + 9x + 3$ | $x^{15} - 60x^{13} - 590x^{12} + 7020x^{11} +$ $10527x^{10} - 271760x^9 + 1240470x^8 -$ $8951220x^7 + 59871500x^6 -$ $209084499x^5 + 428669790x^4 -$ $587349100x^3 + 519372000x^2 -$ $254904270x + 53472335$ | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \\ \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|-------------------|
| $x^{15} - 6x^{14} - 9x^{13} + 9x^{12} -$ $12x^9 - 9x^7 - 12x^6 + 9x^4 +$ $6x^3 - 9x^2 + 9x - 6$ | $x^{15} - 15x^{13} - 35x^{12} - 450x^{11} -$ $480x^{10} - 2630x^9 - 8100x^8 - 12960x^7 -$ $30040x^6 - 62856x^5 - 98760x^4 -$ $162880x^3 - 146160x^2 - 127680x -$ 110320 | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 12x^{14} - 9x^{13} - 9x^{12} +$ $9x^{10} - 6x^9 + 9x^7 - 3x^6 - 9x^4 +$ 3 | $x^{15} + 75x^{13} - 920x^{12} + 5625x^{11} -$ $50727x^{10} + 399685x^9 - 2538405x^8 +$ $12730995x^7 - 46770175x^6 +$ $132488910x^5 - 279256935x^4 +$ $393899150x^3 - 407858085x^2 +$ 207224400x - 27143740 | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| Continued on next page | | | | |

Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} + 12x^{14} + 9x^{13} - 6x^{12} +$ $9x^{10} + 3x^9 + 9x^8 + 9x^7 + 3x^6 -$ $9x^5 - 9x^4 + 6x^3 - 9x^2 - 3$ | $x^{15} - 150x^{13} - 835x^{12} - 2115x^{11} +$ $16446x^{10} + 99055x^9 + 139140x^8 -$ $810540x^7 - 4940480x^6 -$ $13757940x^5 - 25794105x^4 -$ $36212215x^3 - 37394505x^2 -$ $24720270x - 7416617$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 3x^{14} + 9x^{13} + 6x^{12} -$ $9x^{10} - 9x^9 + 9x^8 + 6x^6 - 9x^5 -$ $9x^4 + 3x^3 - 6$ | $x^{15} - 60x^{13} - 40x^{12} + 1440x^{11} +$ $1920x^{10} - 16880x^9 - 34560x^8 +$ $89280x^7 + 277120x^6 - 76032x^5 -$ $844800x^4 - 689920x^3 + 92160x^2 -$ $15360x + 1024$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{15} + 6x^{14} - 9x^{13} + 3x^{12} - 9x^{11} + 9x^{10} - 3x^9 + 9x^8 - 9x^7 - 9x^5 - 9x^4 - 3$ | $x^{15} - 15x^{13} - 25x^{12} + 360x^{11} - 420x^{10} - 2120x^9 + 6480x^8 - 1980x^7 - 15800x^6 - 5616x^5 + 178320x^4 - 531400x^3 + 826560x^2 - 697200x + 247408$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 195x^{13} - 635x^{12} + 9720x^{11} + 60891x^{10} - 196295x^9 - 3812130x^8 - 20735775x^7 - 59038780x^6 - 88451676x^5 - 76453320x^4 - 181897210x^3 - 560593215x^2 - 704913675x - 264383341$ | $x^{15} - 195x^{13} - 635x^{12} + 9720x^{11} + 60891x^{10} - 196295x^9 - 3812130x^8 - 20735775x^7 - 59038780x^6 - 88451676x^5 - 76453320x^4 - 181897210x^3 - 560593215x^2 - 704913675x - 264383341$ | $\left[\begin{array}{c} 2 \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| 12 | | | | |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{15} + 6x^{14} - 9x^{13} - 9x^{12} -$ $9x^{11} + 6x^9 + 9x^7 - 6x^6 - 9x^4 +$ $9x^3 + 9x^2 + 9x + 12$ | $x^{15} + 30x^{13} - 50x^{12} + 360x^{11} -$ $1020x^{10} + 3040x^9 - 7560x^8 +$ $16920x^7 - 30160x^6 + 21168x^5 +$ $20400x^4 - 52240x^3 + 46080x^2 -$ $15360x - 3136$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 3x^{14} - 12x^{12} - 9x^{11} +$ $9x^{10} - 9x^8 + 3x^6 - 9x^5 - 9x^4 +$ $6x^3 + 9x - 3$ | $x^{15} - 105x^{13} - 175x^{12} + 5040x^{11} +$ $17247x^{10} - 142520x^9 - 721665x^8 +$ $2623635x^7 + 16771090x^6 -$ $32686803x^5 - 233696400x^4 +$ $257183045x^3 + 1873033785x^2 -$ $941683155x - 6678928577$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} + 6x^{14} + 9x^{13} - 12x^{12} - 9x^{11} - 9x^{10} - 6x^9 + 9x^8 + 9x^7 + 6x^6 - 12x^3 - 9x^2 + 9x - 12$ | $x^{15} - 150x^{13} - 820x^{12} + 3870x^{11} + 56433x^{10} + 348910x^9 + 2117700x^8 + 4411980x^7 - 95933270x^6 - 1126992735x^5 - 6198426600x^4 - 20474433100x^3 - 41715350100x^2 - 48602928300x - 24845157275$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 3x^{14} + 9x^{13} - 3x^{12} + 9x^{11} + 9x^{10} + 9x^9 - 9x^8 - 9x^7 - 6x^6 + 9x^5 + 6x^3 - 9x + 6$ | $x^{15} - 15x^{13} - 130x^{12} + 855x^{11} - 456x^{10} - 5615x^9 + 13365x^8 - 10170x^7 - 365x^6 + 7128x^5 - 3255x^4 - 1855x^3 + 900x^2 + 615x + 85$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{15} - 12x^{14} + 3x^{12} - 9x^{11} +$ $9x^{10} + 6x^9 - 9x^8 + 12x^6 -$ $9x^5 + 9x^4 - 12x^3 + 6$ | $x^{15} - 105x^{13} - 455x^{12} - 8820x^{11} -$ $19110x^{10} - 346430x^9 - 185220x^8 -$ $5618340x^7 - 9892120x^6 -$ $44600976x^5 - 90181560x^4 -$ $527067520x^3 - 568748880x^2 -$ $1093127280x - 7878852688$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 12x^{14} + 3x^{12} - 9x^{11} -$ $9x^{10} - 9x^9 + 6x^6 - 9x^4 - 6x^3 +$ $9x^2 - 9x + 6$ | $x^{15} - 105x^{13} - 350x^{12} + 4410x^{11} +$ $29400x^{10} - 50225x^9 - 926100x^8 -$ $1697850x^7 + 10852520x^6 +$ $51991254x^5 + 20672610x^4 -$ $344903650x^3 - 931780080x^2 -$ $1000100535x - 405452068$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} + 6x^{14} + 9x^{13} - 12x^{12} +$ $9x^{11} + 6x^9 + 9x^8 - 9x^6 + 9x^4 +$ $12x^3 + 9x^2 + 12$ | $x^{15} - 150x^{13} - 280x^{12} + 9135x^{11} +$ $36750x^{10} - 210455x^9 - 1521450x^8 -$ $575505x^7 + 18391660x^6 +$ $60826248x^5 + 72678270x^4 -$ $4814005x^3 - 108045000x^2 -$ $90037500x - 21714644$ | $\left[\begin{array}{c} 2 \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 3x^{14} - 9x^{13} - 9x^{12} -$ $9x^{11} - 9x^9 - 9x^8 + 9x^7 + 9x^5 +$ $6x^3 - 9x + 3$ | $x^{15} - 60x^{13} - 500x^{12} + 8550x^{11} -$ $38109x^{10} - 73490x^9 + 951030x^8 -$ $1939050x^7 - 5427070x^6 +$ $31108815x^5 - 28230060x^4 -$ $215838520x^3 + 56836350x^2 +$ $142522770x - 101902057$ | $\left[\begin{array}{c} 2 \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} - 6x^{14} - 9x^{12} + 9x^{10} +$ $9x^9 + 9x^8 - 9x^7 + 9x^5 + 9x^4 -$ $9x^3 - 9x^2 - 9x - 3$ | $x^{15} + 75x^{13} - 40x^{12} - 450x^{11} -$ $16224x^{10} - 180140x^9 - 1086885x^8 -$ $5531670x^7 - 21253385x^6 -$ $59692275x^5 - 134285955x^4 -$ $199613590x^3 - 116990550x^2 -$ $7607265x - 54153017$ | $\left[\begin{array}{c} 2 \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 3x^{14} + 9x^{13} + 9x^{12} -$ $9x^{11} - 9x^{10} - 12x^9 - 9x^8 -$ $9x^7 + 3x^6 + 9x^4 + 9x^3 - 9x^2 -$ $9x - 6$ | $x^{15} - 15x^{13} - 10x^{12} + 90x^{11} + 165x^{10} +$ $250x^9 + 1215x^8 + 3600x^7 + 5725x^6 +$ $4239x^5 - 1455x^4 - 5905x^3 - 5040x^2 -$ $1680x - 35$ | $\left[\begin{array}{c} 2 \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} + 12x^{14} + 9x^{13} - 3x^{12} +$ $9x^{11} + 9x^{10} + 3x^9 + 9x^8 + 9x^7 -$ $3x^6 - 9x^4 - 12x^3 + 9x + 6$ | $x^{15} - 60x^{13} - 470x^{12} + 7110x^{11} -$ $12189x^{10} - 162830x^9 + 458010x^8 +$ $569970x^7 - 15464290x^6 -$ $3044565x^5 + 137951250x^4 +$ $91053500x^3 - 450465750x^2 -$ $845236950x - 558818725$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 6x^{14} - 9x^{13} + 3x^{12} +$ $9x^{11} + 3x^9 - 9x^8 - 9x^7 + 9x^6 +$ 6 | $x^{15} - 60x^{13} - 70x^{12} + 1440x^{11} +$ $3360x^{10} - 15260x^9 - 60480x^8 +$ $30960x^7 + 453880x^6 + 623808x^5 -$ $732480x^4 - 3262000x^3 - 4314240x^2 -$ $2742720x - 721664$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} - 3x^{14} - 12x^{12} + 9x^{11} -$ $9x^9 - 9x^7 - 9x^5 - 9x^4 + 9x^3 -$ $9x^2 + 3$ | $x^{15} - 135x^{13} - 165x^{12} + 7560x^{11} +$ $18549x^{10} - 180825x^9 - 540360x^8 +$ $1903950x^7 + 3326445x^6 -$ $22807926x^5 + 10254060x^4 +$ $333409545x^3 + 486410535x^2 -$ $71964855x - 92410920$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} + 12x^{14} + 9x^{13} - 12x^{12} +$ $9x^{11} + 9x^8 + 12x^6 - 9x^4 -$ $6x^3 - 9x^2 - 3$ | $x^{15} + 30x^{13} - 70x^{12} - 315x^{11} -$ $3570x^{10} - 11270x^9 - 13230x^8 +$ $280035x^7 + 1217650x^6 + 1083537x^5 -$ $3261930x^4 - 34094200x^3 -$ $50997240x^2 - 19592160x - 3764768$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |

Continued on next page

Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{15} - 12x^{14} - 9x^9 - 9x^8 - 9x^7 +$ $12x^6 + 9x^5 - 9x^4 - 12x^3 - 9x +$ 12 | $x^{15} + 30x^{13} - 170x^{12} - 315x^{11} -$ $840x^{10} - 6440x^9 + 79380x^8 -$ $22050x^7 - 994210x^6 + 2009637x^5 +$ $3616935x^4 - 15140020x^3 +$ $6590745x^2 + 25246515x - 30305422$ | $\left[\frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 6x^{14} + 3x^{12} + 9x^{11} +$ $9x^{10} + 3x^9 - 9x^8 + 9x^7 - 3x^6 +$ $9x^5 - 9x^4 - 9x^2 - 9x - 3$ | $x^{15} + 30x^{13} - 190x^{12} + 8460x^{11} -$ $87387x^{10} + 597040x^9 - 2121210x^8 +$ $2992590x^7 + 230620x^6 -$ $24388839x^5 + 38221860x^4 +$ $52421300x^3 - 79844310x^2 -$ $36738150x + 49610773$ | $\left[\frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{15} - 6x^{14} + 9x^{13} + 3x^{12} -$ $9x^{11} + 9x^{10} + 9x^9 + 9x^5 +$ $12x^3 + 9x + 12$ | $x^{15} + 30x^{13} - 140x^{12} - 990x^{11} +$ $3129x^{10} - 15215x^9 + 43695x^8 +$ $106155x^7 + 66995x^6 + 631269x^5 -$ $682500x^4 - 6656830x^3 -$ $10281825x^2 - 6542160x - 1692571$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 6x^{14} - 9x^{13} + 3x^{12} +$ $9x^6 - 9x^5 - 12x^3 + 9x^2 + 9x -$ 12 | $x^{15} - 105x^{13} - 665x^{12} - 7560x^{11} +$ $41973x^{10} - 289835x^9 + 4561200x^8 -$ $15990345x^7 + 43307810x^6 -$ $397841418x^5 + 1344298200x^4 -$ $1624815220x^3 + 8243844525x^2 -$ $35175595875x + 41535723725$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|-------------------|
| $x^{15} - 6x^{14} - 9x^{13} - 3x^{12} -$ $9x^{11} - 9x^{10} - 9x^9 - 9x^8 +$ $9x^7 - 9x^4 + 12x^3 + 9x - 3$ | $x^{15} - 150x^{13} - 350x^{12} + 6300x^{11} +$ $43260x^{10} - 3920x^9 - 1534680x^8 -$ $2487240x^7 + 12869360x^6 -$ $25634448x^5 - 20415360x^4 -$ $792714160x^3 - 3291482880x^2 -$ $4158147840x - 1682313472$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 3x^{14} + 9x^{13} + 9x^{12} -$ $9x^{11} + 12x^9 + 9x^6 + 9x^5 -$ $9x^3 - 12$ | $x^{15} - 105x^{13} - 70x^{12} - 8820x^{11} -$ $16170x^{10} - 362600x^9 - 185220x^8 -$ $9631440x^7 - 6942320x^6 -$ $106834896x^5 + 87588480x^4 -$ $2326088800x^3 + 1875661200x^2 +$ $1085059920x - 902468672$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} - 225x^{13} - 555x^{12} + 20790x^{11} +$ $103320x^{10} - 824670x^9 - 7144200x^8 +$ $2169720x^7 + 185202360x^6 +$ $668347848x^5 + 425635560x^4 -$ $2132993520x^3 - 3547333440x^2 +$ $1384704720x + 4326294672$ | $x^{15} - 225x^{13} - 555x^{12} + 20790x^{11} +$ $103320x^{10} - 824670x^9 - 7144200x^8 +$ $2169720x^7 + 185202360x^6 +$ $668347848x^5 + 425635560x^4 -$ $2132993520x^3 - 3547333440x^2 +$ $1384704720x + 4326294672$ | $\left[\begin{array}{c} 2 \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 3x^{14} - 9x^{13} + 9x^{12} -$ $9x^{11} - 9x^{10} + 9x^8 + 9x^7 + 6x^6 -$ $9x^4 - 6x^3 + 9x^2 - 9x - 6$ | $x^{15} - 15x^{13} - 5x^{12} + 90x^{11} + 15x^{10} -$ $245x^9 + 405x^7 + 20x^6 - 972x^5 +$ $780x^4 - 145x^3 - 360x^2 + 120x - 46$ | $\left[\begin{array}{c} 2 \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 6x^{14} - 9x^{13} - 6x^{12} +$ $9x^{11} + 9x^{10} + 12x^9 - 9x^7 +$ $12x^6 + 6x^3 + 9x^2 - 12$ | $x^{15} - 15x^{13} - 10x^{12} + 90x^{11} + 201x^{10} -$ $365x^9 - 3825x^8 - 14085x^7 - 32270x^6 -$ $46530x^5 - 41415x^4 - 22195x^3 -$ $6750x^2 - 1005x - 47$ | $\left[\begin{array}{c} 2 \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} + 12x^{14} - 9x^{13} - 6x^{12} - 9x^{11} - 3x^9 + 9x^8 - 12x^6 + 9x^5 - 9x^4 - 9x^2 + 6$ | $x^{15} - 15x^{13} - 140x^{12} - 495x^{11} - 2127x^{10} - 5975x^9 - 6525x^8 - 945x^7 + 2375x^6 + 1890x^5 + 1005x^4 - 970x^3 - 945x^2 - 60x - 4$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 12x^{14} - 9x^{13} - 12x^{12} + 9x^{11} + 9x^9 - 9x^8 + 9x^7 + 9x^6 + 9x^5 + 9x^4 + 6x^3 - 9x^2 + 9x - 3$ | $x^{15} + 30x^{13} - 200x^{12} - 1035x^{11} + 6414x^{10} - 1430x^9 + 2835x^8 - 235845x^7 + 587390x^6 + 129519x^5 + 308670x^4 - 7716460x^3 + 9915885x^2 + 7731660x - 13824751$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} - 3x^{14} + 9x^{11} + 9x^{10} +$ $9x^9 + 9x^8 - 9x^5 + 12x^3 - 9x^2 -$ 12 | $x^{15} - 195x^{13} - 230x^{12} + 18315x^{11} +$ $93777x^{10} - 177695x^9 - 495675x^8 +$ $19359675x^7 + 121679075x^6 +$ $239998824x^5 - 93826605x^4 -$ $1010495200x^3 - 1670936535x^2 -$ $2144864400x - 1682050048$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} + 3x^{14} - 9x^{13} - 3x^{12} -$ $9x^{11} + 3x^9 - 9x^8 + 9x^7 - 6x^6 -$ $9x^5 - 3x^3 - 9x^2 - 9x + 3$ | $x^{15} - 45x^{13} - 30x^{12} + 540x^{11} + 810x^{10} -$ $2940x^9 - 8100x^8 + 3060x^7 + 33840x^6 +$ $36936x^5 - 29160x^4 - 110160x^3 -$ $116640x^2 - 58320x - 11520$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{15} - 6x^{14} - 9x^{13} + 12x^{12} - 9x^{11} - 9x^{10} - 9x^9 - 9x^8 - 9x^7 - 3x^6 - 9x^5 + 9x^3 + 9x^2 - 9x + 3$ | $x^{15} - 105x^{13} - 35x^{12} + 4725x^{11} + 393x^{10} - 117845x^9 + 142065x^8 + 1775970x^7 - 7537600x^6 - 17057763x^5 + 162390165x^4 + 114926420x^3 - 1648874115x^2 - 480389595x + 6413272823$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} + 6x^{14} - 9x^{12} + 9x^{10} - 9x^9 - 9x^8 - 9x^7 - 9x^6 + 6x^3 + 9x^2 + 6$ | $x^{15} - 105x^{13} - 1295x^{12} + 20790x^{11} + 115107x^{10} - 1592465x^9 - 3343410x^8 + 55156185x^7 + 138380060x^6 - 555947478x^5 - 2530158330x^4 - 4000487470x^3 - 4054390515x^2 - 3386909715x - 3911411965$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{15} + 6x^{14} - 12x^{12} + 9x^{10} -$ $9x^8 + 9x^7 - 12x^6 + 9x^4 + 3x^3 +$ $9x - 3$ | $x^{15} - 15x^{13} - 20x^{12} - 450x^{11} - 480x^{10} -$ $2780x^9 - 3240x^8 - 4680x^7 - 14320x^6 -$ $38016x^5 - 47640x^4 - 30640x^3 -$ $10080x^2 - 1680x - 448$ | $\left[\begin{array}{c} \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \\ \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 3x^{14} - 6x^{12} - 9x^9 - 9x^8 -$ $9x^4 + 9x^3 + 9x^2 + 9x + 12$ | $x^{15} - 60x^{13} - 85x^{12} + 1440x^{11} +$ $4080x^{10} - 14600x^9 - 73440x^8 +$ $7200x^7 + 549280x^6 + 908928x^5 -$ $844800x^4 - 4392640x^3 - 5506560x^2 -$ $2860800x - 448256$ | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \\ \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} - 12x^{14} - 9x^{13} + 3x^{12} +$ $9x^{10} + 3x^9 - 9x^8 - 9x^7 + 9x^6 -$ $9x^5 - 9x^4 - 6x^3 + 3$ | $x^{15} - 135x^{13} - 405x^{12} + 6615x^{11} +$ $34965x^{10} - 82530x^9 - 992250x^8 -$ $1479555x^7 + 8705340x^6 +$ $36923607x^5 + 27736695x^4 -$ $117444915x^3 - 311169600x^2 -$ $291721500x - 97197282$ | $\left[\begin{array}{c} 2 \frac{12}{5} \\ 2 \frac{12}{5} \\ 2 \frac{12}{5} \\ 2 \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 6x^{14} + 9x^{13} + 3x^{12} +$ $9x^{10} - 12x^9 + 9x^7 + 12x^6 -$ $9x^5 + 9x^4 + 3x^3 + 9x^2 + 12$ | $x^{15} - 105x^{13} - 35x^{12} + 4095x^{11} +$ $6117x^{10} - 59570x^9 - 375795x^8 -$ $408870x^7 + 11026295x^6 +$ $24385842x^5 - 168964635x^4 -$ $282208045x^3 + 1323384300x^2 +$ $994197225x - 3947191975$ | $\left[\begin{array}{c} 2 \frac{12}{5} \\ 2 \frac{12}{5} \\ 2 \frac{12}{5} \\ 2 \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} - 3x^{14} - 9x^{13} + 6x^{12} +$ $9x^9 + 9x^8 - 9x^7 - 9x^6 - 9x^5 -$ $9x^4 + 6x^3 + 9x^2 - 9x + 6$ | $x^{15} - 105x^{13} - 140x^{12} + 4410x^{11} +$ $11760x^{10} - 86975x^9 - 370440x^8 +$ $617400x^7 + 4791710x^6 + 3371004x^5 -$ $10660440x^4 - 14069860x^3 -$ $173952450x^2 - 800433375x -$ 947225713 | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 3x^{14} + 9x^{11} + 9x^{10} +$ $6x^9 + 9x^8 - 12x^6 + 9x^5 - 9x^4 -$ $3x^3 - 9x - 12$ | $x^{15} - 105x^{13} - 245x^{12} + 2520x^{11} +$ $25647x^{10} + 90160x^9 - 872235x^8 -$ $4919355x^7 + 8051120x^6 +$ $51374727x^5 + 88322010x^4 +$ $133589225x^3 - 322117425x^2 -$ $639625875x + 653647625$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} - 3x^{14} - 12x^{12} - 9x^{11} +$ $9x^{10} + 3x^9 - 9x^8 - 12x^6 -$ $9x^4 + 9x^3 - 9x^2 - 12$ | $x^{15} - 15x^{13} - 5x^{12} + 90x^{11} + 105x^{10} +$ $205x^9 + 1080x^8 + 2835x^7 + 3035x^6 +$ $594x^5 - 1245x^4 - 1135x^3 - 630x^2 -$ $105x + 182$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 12x^{14} + 6x^{12} - 9x^{10} +$ $12x^9 - 9x^8 + 9x^7 + 3x^6 - 9x^5 +$ $9x^4 - 3x^3 + 9x^2 - 12$ | $x^{15} - 15x^{13} - 10x^{12} + 90x^{11} - 15x^{10} +$ $265x^9 - 405x^8 - 405x^7 - 320x^6 -$ $1296x^5 + 1335x^4 - 880x^3 - 315x^2 +$ $1470x - 623$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 6x^{14} + 9x^{13} - 12x^{12} -$ $9x^{11} + 9x^{10} + 3x^9 + 9x^8 +$ $12x^6 + 9x^5 - 9x^4 + 3x^3 - 9x^2 +$ $9x - 12$ | $x^{15} + 30x^{13} - 5x^{12} + 360x^{11} +$ $150x^{10} + 2200x^9 + 1080x^8 + 7200x^7 -$ $700x^6 + 7128x^5 - 6240x^4 - 18160x^3 -$ $25200x^2 - 34800x - 13456$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} + 12x^{14} - 9x^{13} - 6x^{12} +$ $9x^{11} + 3x^9 - 9x^8 - 12x^6 -$ $12x^3 - 9x^2 + 6$ | $x^{15} - 60x^{13} - 620x^{12} + 9270x^{11} -$ $17553x^{10} - 301700x^9 + 3022200x^8 -$ $16191360x^7 + 65319170x^6 -$ $237220659x^5 + 736679670x^4 -$ $1598660920x^3 + 2227366800x^2 -$ $1934365020x + 767892977$ | $\left[\begin{array}{c} 2 \\ 2 \\ 5 \end{array} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 6x^{14} + 9x^{13} - 12x^{12} -$ $9x^{11} + 9x^{10} + 3x^9 - 9x^8 + 9x^7 -$ $3x^6 + 9x^5 + 9x^4 + 3x^3 + 9x^2 + 6$ | $x^{15} - 105x^{13} - 665x^{12} + 22050x^{11} -$ $93459x^{10} - 1102115x^9 + 9575370x^8 +$ $33839505x^7 - 627709390x^6 +$ $1684306476x^5 + 8696914170x^4 -$ $70706655670x^3 + 200986541595x^2 -$ $271958115345x + 146938503293$ | $\left[\begin{array}{c} 2 \\ 2 \\ 5 \end{array} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{15} + 6x^{14} - 6x^{12} - 9x^{11} -$ $9x^{10} - 12x^9 - 9x^7 - 6x^6 -$ $9x^5 - 3x^3 + 9x^2 + 9x + 6$ | $x^{15} - 105x^{13} - 140x^{12} + 3465x^{11} -$ $26364x^{10} - 349685x^9 - 291690x^8 +$ $4627350x^7 + 784910x^6 -$ $41519556x^5 + 77265510x^4 +$ $27234935x^3 - 276935715x^2 +$ $368909310x - 167820904$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 6x^{14} + 9x^{13} - 9x^{12} +$ $9x^{11} + 6x^9 - 9x^8 + 9x^7 +$ $12x^6 + 12x^3 - 12$ | $x^{15} - 15x^{13} - 185x^{12} - 90x^{11} +$ $3039x^{10} + 7765x^9 - 3330x^8 -$ $85905x^7 + 49730x^6 + 141120x^5 -$ $367860x^4 + 545960x^3 - 479745x^2 +$ $253245x - 148693$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{15} - 12x^{14} + 9x^{11} - 9x^{10} +$ $3x^9 + 9x^8 - 9x^7 + 9x^6 + 9x^5 -$ $9x^3 - 9x^2 + 9x - 3$ | $x^{15} + 30x^{13} - 130x^{12} - 1035x^{11} +$ $4314x^{10} - 14450x^9 + 32445x^8 +$ $21195x^7 + 109150x^6 + 167949x^5 -$ $434940x^4 - 1833730x^3 - 2508975x^2 -$ $1531230x - 356303$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 12x^{14} + 9x^{13} - 9x^{12} +$ $9x^{11} - 6x^9 + 9x^8 + 9x^7 + 6x^6 +$ $9x^5 + 3x^3 + 9x^2 - 6$ | $x^{15} + 30x^{13} - 250x^{12} - 495x^{11} +$ $4584x^{10} - 22790x^9 + 171855x^8 -$ $624375x^7 + 1168420x^6 - 2475441x^5 +$ $7490820x^4 - 14598310x^3 +$ $14863725x^2 - 7377180x + 1394515$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|-------------------|
| $x^{15} - 6x^{14} - 12x^{12} - 9x^{10} - 3x^9 + 9x^8 - 9x^7 + 6x^6 - 9x^4 + 3x^3 + 9x^2 - 9x + 6$ | $x^{15} - 60x^{13} - 310x^{12} + 6570x^{11} + 6771x^{10} - 276710x^9 - 250560x^8 + 4165830x^7 - 7604030x^6 - 150394725x^5 - 528497250x^4 - 932977960x^3 - 1033753950x^2 - 809513250x - 354842387$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 12x^{14} + 9x^{13} - 12x^{12} + 9x^{11} - 9x^{10} + 12x^9 + 9x^8 - 12x^6 - 9x^5 + 3x^3 + 9x^2 - 9x + 3$ | $x^{15} - 105x^{13} - 350x^{12} + 4410x^{11} + 29400x^{10} - 42875x^9 - 926100x^8 - 2160900x^7 + 9761780x^6 + 61715304x^5 + 66483690x^4 - 366152500x^3 - 1412796420x^2 - 1983310035x - 1041210457$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} + 6x^{14} - 9x^{13} - 12x^{12} +$ $9x^{10} - 6x^9 - 3x^6 + 9x^4 - 6x^3 -$ $9x^2 + 12$ | $x^{15} - 60x^{13} - 490x^{12} - 2160x^{11} -$ $807x^{10} + 25405x^9 + 12060x^8 -$ $332325x^7 - 786050x^6 - 509850x^5 +$ $406875x^4 + 1394000x^3 - 658125x^2 +$ $491250x - 582500$ | $\left[\frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} + 6x^{14} - 9x^{13} - 6x^{12} +$ $9x^{10} - 9x^9 + 9x^7 + 12x^6 -$ $9x^4 + 9x^3 - 9x - 12$ | $x^{15} - 15x^{13} - 20x^{12} + 495x^{11} + 330x^{10} -$ $2975x^9 - 2700x^8 + 6390x^7 + 9590x^6 -$ $864x^5 - 9390x^4 - 7285x^3 - 2520x^2 -$ $420x + 56$ | $\left[\frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} - 3x^{14} - 3x^{12} + 9x^{11} +$ $9x^{10} - 6x^9 - 9x^7 + 12x^6 -$ $9x^4 + 3x^3 + 9x^2 - 9x + 12$ | $x^{15} - 60x^{13} - 380x^{12} + 8460x^{11} -$ $42789x^{10} - 95270x^9 + 1454220x^8 -$ $3895650x^7 - 9256660x^6 +$ $69918795x^5 - 88198230x^4 -$ $268995760x^3 + 774740430x^2 -$ $695757300x + 183346943$ | $\left[\begin{array}{c} 2 \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 3x^{14} + 9x^{13} - 12x^{12} -$ $9x^{11} + 9x^{10} - 12x^9 - 9x^8 +$ $9x^7 - 9x^4 - 6x^3 - 9x^2 + 9x - 12$ | $x^{15} - 105x^{13} - 1120x^{12} - 9765x^{11} -$ $25017x^{10} - 407435x^9 + 1146915x^8 -$ $11173365x^7 + 43994545x^6 -$ $179533818x^5 + 555940875x^4 -$ $1290653140x^3 + 2798808075x^2 -$ $2944182570x + 270009928$ | $\left[\begin{array}{c} 2 \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{15} + 6x^{14} - 9x^{13} - 3x^{12} +$ $9x^{11} + 9x^{10} + 12x^9 + 9x^8 +$ $9x^7 - 3x^6 + 9x^5 + 9x^4 - 12x^3 -$ 12 | $x^{15} - 105x^{13} - 95x^{12} + 4410x^{11} +$ $7980x^{10} - 95690x^9 - 251370x^8 +$ $1166445x^7 + 3944990x^6 -$ $8158941x^5 - 36359715x^4 +$ $47983985x^3 + 187782210x^2 -$ 408662205x + 221036060 | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 3x^{14} + 3x^{12} + 9x^{11} -$ $9x^{10} - 6x^9 - 3x^6 + 9x^5 + 9x^4 +$ $9x^2 + 9x - 3$ | $x^{15} - 105x^{13} - 140x^{12} + 5355x^{11} +$ $9861x^{10} - 145460x^9 - 368550x^8 +$ $2159955x^7 + 7296170x^6 -$ $13646529x^5 - 77339325x^4 +$ $8217440x^3 + 195935355x^2 -$ 169053990x + 39276224 | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} - 6x^{14} + 9x^{13} - 12x^{12} -$ $9x^{10} + 6x^9 + 9x^8 + 9x^7 - 9x^5 +$ $9x^4 + 12x^3 + 9x^2 + 9x + 12$ | $x^{15} - 105x^{13} - 245x^{12} + 17640x^{11} -$ $102900x^{10} - 71540x^9 + 370440x^8 +$ $22596840x^7 - 150453520x^6 +$ $302871744x^5 + 56759640x^4 -$ $788968600x^3 + 2698531920x^2 -$ $4372509120x - 452041072$ | $\left[\begin{array}{c} 2 \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 12x^{14} + 9x^{11} - 9x^{10} -$ $9x^9 + 9x^7 - 9x^5 - 9x^4 + 12x^3 +$ $9x + 3$ | $x^{15} - 315x^{13} - 735x^{12} + 26460x^{11} +$ $35280x^{10} - 1255380x^9 + 555660x^8 +$ $34944840x^7 - 81311580x^6 -$ $460531008x^5 + 2160035640x^4 +$ $126196560x^3 - 17534406960x^2 +$ $39207369600x - 28260768816$ | $\left[\begin{array}{c} 2 \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} + 3x^{14} + 9x^{10} - 3x^9 + 9x^5 +$ $9x^4 + 3x^3 - 9x + 6$ | $x^{15} - 60x^{13} - 25x^{12} - 315x^{11} + 840x^{10} -$ $13055x^9 - 6615x^8 + 136710x^7 -$ $46550x^6 - 583443x^5 + 967260x^4 -$ $646555x^3 + 216090x^2 - 36015x -$ 19208 | $\left[\frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 12x^{14} + 9x^{13} - 12x^{12} +$ $9x^{10} - 9x^8 + 9x^7 + 9x^6 - 9x^5 -$ $6x^3 - 9x^2 - 9x - 6$ | $x^{15} - 60x^{13} - 40x^{12} + 1980x^{11} +$ $5673x^{10} - 21110x^9 - 153270x^8 -$ $378360x^7 - 510260x^6 - 424305x^5 -$ $244590x^4 - 119620x^3 - 49140x^2 -$ $10410x - 89$ | $\left[\frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 3x^{14} - 6x^{12} + 9x^{11} -$ $9x^{10} + 12x^9 + 9x^8 - 9x^7 +$ $6x^6 + 9x^5 - 9x^4 + 9x^3 - 9x^2 -$ $9x - 12$ | $x^{15} - 15x^{13} - 125x^{12} + 720x^{11} -$ $759x^{10} + 295x^9 - 12600x^8 + 61155x^7 -$ $141100x^6 + 194274x^5 - 159600x^4 +$ $61190x^3 + 8505x^2 - 16665x + 3191$ | $\left[2 \quad \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} + 6x^{14} - 12x^{12} - 9x^{11} - 9x^9 + 9x^8 + 3x^6 - 9x^5 + 12x^3 + 9x^2 - 9x + 6$ | $x^{15} - 105x^{13} - 70x^{12} + 17640x^{11} - 95550x^{10} - 153860x^9 + 1296540x^8 + 11421900x^7 - 30238880x^6 - 246861216x^5 + 480872280x^4 + 2227359680x^3 - 1609438320x^2 - 6175564080x - 408746240$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 3x^{14} - 9x^{13} + 9x^{12} - 9x^{10} + 12x^9 - 9x^8 - 9x^7 - 12x^6 + 9x^3 + 9x^2 - 9x + 3$ | $x^{15} + 90x^{13} - 615x^{12} + 1665x^{11} - 14679x^{10} - 102600x^9 - 1151865x^8 - 9096390x^7 - 35089155x^6 - 94953411x^5 - 154224675x^4 - 145644300x^3 - 86198580x^2 - 34807455x - 10734210$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} + 6x^{14} - 9x^{13} + 6x^{12} - 9x^{11} - 12x^9 + 9x^8 - 9x^7 - 9x^4 - 3x^3 + 9x^2 + 12$ | $x^{15} - 15x^{13} - 5x^{12} + 90x^{11} + 105x^{10} - 230x^9 - 540x^8 + 90x^7 + 950x^6 - 27x^5 - 2415x^4 - 3085x^3 - 1305x^2 - 105x + 41$ | $\left[\frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 3x^{14} + 9x^{13} + 3x^{12} - 9x^{10} - 3x^9 - 9x^8 + 9x^7 - 9x^6 - 9x^5 + 9x^4 - 12x^3 - 9x^2 - 12$ | $x^{15} - 105x^{13} - 385x^{12} + 4410x^{11} + 32340x^{10} - 42140x^9 - 1018710x^8 - 2207205x^7 + 12392590x^6 + 62687709x^5 + 3637515x^4 - 522853765x^3 - 824383350x^2 + 1164472995x + 3800550103$ | $\left[2 \quad \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 6x^{14} + 9x^{13} - 6x^{12} + 9x^{11} - 12x^9 - 9x^8 + 9x^7 + 12x^6 + 9x^5 - 3x^3 + 9x^2 - 6$ | $x^{15} - 15x^{13} - 140x^{12} + 45x^{11} + 2751x^{10} + 2245x^9 - 9765x^8 - 12015x^7 - 70765x^6 - 198954x^5 + 87675x^4 + 829310x^3 + 1061775x^2 + 561180x + 110636$ | $\left[2 \quad \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} + 6x^{14} - 9x^{13} - 12x^{12} - 9x^{11} + 9x^{10} - 12x^9 - 6x^6 + 9x^5 + 9x^4 + 3x^3 + 9x - 3$ | $x^{15} - 270x^{13} - 570x^{12} + 25560x^{11} + 79911x^{10} - 961230x^9 - 2477430x^8 + 19724130x^7 + 24998220x^6 - 206456499x^5 - 94782420x^4 + 1227671100x^3 - 426474450x^2 - 3062065680x + 3010220019$ | $\left[\begin{matrix} 2 & \frac{12}{5} & \frac{12}{5} & \frac{12}{5} & \frac{12}{5} \end{matrix} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 12x^{14} + 9x^{13} - 9x^{12} - 9x^{11} + 3x^9 - 9x^8 + 9x^7 + 12x^6 + 9x^5 - 9x^4 - 3x^3 - 9x^2 + 9x + 3$ | $x^{15} - 60x^{13} - 730x^{12} + 8280x^{11} + 5907x^{10} - 258320x^9 + 1132740x^8 - 5329980x^7 + 21327400x^6 - 18238599x^5 - 85833780x^4 + 199413380x^3 - 241219440x^2 - 309437070x - 152634503$ | $\left[\begin{matrix} 2 & \frac{12}{5} & \frac{12}{5} & \frac{12}{5} & \frac{12}{5} \end{matrix} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{15} - 3x^{14} - 9x^{13} + 6x^{12} - 9x^{11} + 9x^{10} + 9x^7 + 6x^6 + 9x^5 - 9x^4 - 3x^3 - 9x^2 + 9x + 6$ | $x^{15} + 75x^{13} - 1045x^{12} + 5490x^{11} - 42567x^{10} + 429025x^9 - 1994130x^8 + 6110235x^7 - 37875620x^6 + 198476820x^5 - 402937350x^4 + 100405610x^3 + 156579435x^2 + 69470895x + 9286039$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 3x^{14} + 3x^{12} + 9x^{11} + 12x^9 + 9x^8 + 6x^6 - 9x^3 - 9x^2 - 9x - 3$ | $x^{15} - 105x^{13} - 110x^{12} + 4410x^{11} + 9240x^{10} - 88025x^9 - 291060x^8 + 683550x^7 + 4008200x^6 + 1981854x^5 - 18594030x^4 - 42830410x^3 - 29388240x^2 + 7743225x + 12898172$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|-------------------|
| $x^{15} + 12x^{14} - 9x^{13} + 6x^{12} -$ $9x^{11} + 3x^9 - 9x^8 + 6x^6 - 9x^5 -$ $9x^4 - 6x^3 - 9x^2 + 9x - 3$ | $x^{15} + 30x^{13} - 640x^{12} + 10620x^{11} -$ $119247x^{10} + 926440x^9 - 5754330x^8 +$ $28249470x^7 - 110435540x^6 +$ $343898181x^5 - 763622250x^4 +$ $973886300x^3 + 488577510x^2 -$ $5766290970x + 8571321955$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]^4_5$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} + 6x^{14} + 12x^{12} + 9x^{11} -$ $12x^9 - 12x^6 + 9x^5 - 9x^4 -$ $9x^2 + 9x - 3$ | $x^{15} + 75x^{13} - 655x^{12} + 5130x^{11} -$ $33477x^{10} + 260095x^9 - 1331280x^8 +$ $5332995x^7 - 16329560x^6 +$ $28491840x^5 - 39215940x^4 +$ $36858470x^3 - 21670335x^2 +$ $9119865x + 1841929$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]^{12}_5$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{15} + 3x^{14} - 6x^{12} + 9x^{11} + 12x^9 + 9x^8 + 9x^7 - 6x^6 + 9x^5 - 9x^4 - 12x^3 - 9x^2 + 3$ | $x^{15} + 165x^{13} - 1355x^{12} + 7200x^{11} - 88329x^{10} + 415195x^9 + 574830x^8 - 11078955x^7 + 29045840x^6 + 46709784x^5 - 349190130x^4 + 356240390x^3 + 879770475x^2 - 2117102685x + 1230065039$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 12x^{14} + 3x^{12} + 9x^{10} - 12x^9 - 9x^8 - 9x^7 + 9x^5 - 9x^4 - 9x^2 - 9x + 3$ | $x^{15} - 105x^{13} - 1120x^{12} + 32445x^{11} + 15951x^{10} - 3177335x^9 + 13364505x^8 + 71811495x^7 - 712759565x^6 + 2154279546x^5 - 2770731915x^4 + 1175650910x^3 + 128176335x^2 - 79447200x - 23768156$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} + 6x^{14} + 9x^{13} - 3x^{12} +$ $9x^{10} + 9x^9 - 9x^8 - 6x^6 + 9x^5 +$ $9x^4 - 12x^3 + 9x^2 - 9x - 3$ | $x^{15} - 105x^{13} - 385x^{12} + 4410x^{11} +$ $32340x^{10} - 61250x^9 - 1018710x^8 -$ $1003275x^7 + 15140020x^6 +$ $37405179x^5 - 111754545x^4 -$ $241252480x^3 + 387233280x^2 -$ $1032622080x + 1101463552$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 12x^{14} + 9x^{13} - 12x^{12} +$ $9x^{10} + 3x^9 - 12x^6 - 9x^4 -$ $9x^3 + 9x + 12$ | $x^{15} - 150x^{13} - 490x^{12} + 4050x^{11} +$ $22593x^{10} + 152290x^9 + 1537110x^8 +$ $4937940x^7 - 33865490x^6 -$ $404372835x^5 - 1966605900x^4 -$ $6655784680x^3 - 18404016660x^2 -$ $34346735700x - 28253989715$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{15} + 3x^{14} + 9x^{13} + 9x^{11} -$ $9x^{10} - 12x^9 - 9x^7 + 12x^6 +$ $9x^5 - 9x^4 - 9x^3 - 9x + 12$ | $x^{15} - 105x^{13} - 1085x^{12} - 15750x^{11} -$ $100389x^{10} - 393785x^9 - 4982040x^8 -$ $41766165x^7 - 314634460x^6 -$ $2511932634x^5 - 11416230840x^4 -$ $38642721670x^3 - 226395908235x^2 -$ $946197201705x - 1408221874471$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 12x^{14} + 9x^{13} + 12x^{12} +$ $9x^{10} - 6x^9 - 9x^8 - 9x^5 + 6x^3 -$ $9x^2 + 9x + 6$ | $x^{15} - 195x^{13} - 440x^{12} + 15165x^{11} +$ $29661x^{10} - 577505x^9 - 1115865x^8 +$ $15352335x^7 + 6541625x^6 -$ $220722660x^5 + 303173385x^4 +$ $780202190x^3 - 2488900545x^2 +$ $2420519970x - 817319824$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} + 12x^{14} - 9x^{13} - 3x^{12} -$ $9x^{11} + 9x^{10} - 3x^9 + 9x^8 - 9x^7 -$ $12x^6 + 9x^4 - 3x^3 - 9x^2 - 9x -$ 12 | $x^{15} - 60x^{13} - 260x^{12} + 6300x^{11} -$ $24780x^{10} - 119840x^9 + 687960x^8 +$ $2663640x^7 - 11726680x^6 -$ $49935312x^5 + 167027280x^4 +$ $397797680x^3 - 926593920x^2 -$ $1530493440x - 1553696704$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]^4$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} + 6x^{14} - 9x^{13} + 3x^{12} +$ $9x^{11} + 9x^{10} + 12x^9 - 9x^8 -$ $9x^7 + 3x^6 - 9x^5 - 9x^4 - 6x^3 +$ $9x^2 + 9x + 3$ | $x^{15} + 30x^{13} - 175x^{12} - 315x^{11} -$ $1995x^{10} - 980x^9 + 39690x^8 +$ $158760x^7 - 186935x^6 - 1278018x^5 +$ $1106175x^4 - 4669945x^3 +$ $20312460x^2 - 17755395x - 55698398$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]^4$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|-------------------|
| $x^{15} + 6x^{14} + 9x^{13} + 12x^{12} -$ $9x^{11} - 9x^{10} + 9x^7 - 3x^6 -$ $9x^5 - 9x^4 - 12x^3 + 9x + 6$ | $x^{15} - 105x^{13} - 35x^{12} + 4410x^{11} +$ $2940x^{10} - 95795x^9 - 92610x^8 +$ $1173060x^7 + 1329125x^6 -$ $8297856x^5 - 8175405x^4 +$ $34262270x^3 + 14369985x^2 -$ $100085685x + 65227967$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 6x^{14} - 9x^{13} + 3x^{12} -$ $9x^{10} - 12x^9 + 9x^7 - 9x^6 -$ $9x^5 + 9x^4 + 9x^3 - 9x^2 + 9x - 3$ | $x^{15} - 15x^{13} - 5x^{12} + 90x^{11} + 60x^{10} -$ $260x^9 - 270x^8 + 315x^7 + 470x^6 +$ $27x^5 + 15x^4 - 115x^3 - 630x^2 - 465x +$ 194 | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 3x^{14} - 9x^{13} + 12x^{12} -$ $9x^9 - 9x^8 + 9x^7 + 3x^6 + 9x^5 +$ $9x^4 - 9x^3 - 9x^2 - 6$ | $x^{15} - 15x^{13} - 10x^{12} - 180x^{11} - 60x^{10} -$ $1040x^9 + 540x^8 - 3240x^7 + 4120x^6 -$ $6048x^5 + 5880x^4 - 4000x^3 + 1440x^2 -$ $240x - 416$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} - 12x^{14} - 9x^{13} - 12x^{12} +$ $9x^{10} + 9x^9 + 9x^7 + 3x^6 + 9x^5 -$ $9x^4 + 9x^2 - 3$ | $x^{15} - 105x^{13} - 350x^{12} - 8820x^{11} -$ $45570x^{10} - 418460x^9 - 2037420x^8 -$ $11668860x^7 - 45042760x^6 -$ $169068816x^5 - 634728360x^4 -$ $1648430560x^3 - 2855845440x^2 -$ $3101899920x - 3247381312$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 6x^{14} - 9x^{13} + 6x^{12} -$ $9x^{10} - 3x^9 - 9x^8 - 9x^7 - 9x^5 +$ $9x^4 + 9x^3 - 9x^2 - 12$ | $x^{15} - 105x^{13} - 770x^{12} - 8820x^{11} -$ $1470x^{10} - 177380x^9 - 2407860x^8 -$ $26733420x^7 - 146090560x^6 -$ $363549816x^5 + 1045587480x^4 +$ $7945389200x^3 + 25678406880x^2 -$ $22753988880x - 332047159360$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} + 3x^{14} - 3x^{12} - 9x^{11} -$ $9x^{10} - 3x^9 + 9x^7 - 9x^5 + 9x^4 -$ $12x^3 + 9x - 3$ | $x^{15} + 30x^{13} - 10x^{12} + 360x^{11} -$ $60x^{10} + 2680x^9 - 1080x^8 + 8640x^7 +$ $760x^6 + 8208x^5 - 24720x^4 - 35680x^3 +$ $5760x^2 + 480x - 3296$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 6x^{14} + 9x^{13} + 6x^{12} +$ $9x^{10} - 9x^9 + 9x^8 - 9x^5 - 9x^4 -$ $6x^3 - 12$ | $x^{15} - 15x^{13} - 65x^{12} - 180x^{11} -$ $120x^{10} - 80x^9 + 540x^8 + 540x^7 -$ $1360x^6 + 4752x^5 - 9480x^4 + 23480x^3 -$ $40320x^2 + 41520x - 25552$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} + 3x^{14} + 9x^{13} - 3x^{12} +$ $9x^{11} + 9x^{10} - 6x^9 - 9x^8 -$ $9x^7 + 3x^6 + 12x^3 - 9x^2 - 6$ | $x^{15} - 105x^{13} - 130x^{12} + 4410x^{11} +$ $10920x^{10} - 88235x^9 - 343980x^8 +$ $696780x^7 + 4902940x^6 + 1704024x^5 -$ $28945770x^4 - 47965120x^3 +$ $38464020x^2 + 156413145x +$ 108897355 | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} - 6x^{14} + 9x^{13} - 3x^{12} -$ $9x^{11} - 9x^{10} - 12x^6 + 9x^4 +$ $3x^3 - 9x + 3$ | $x^{15} - 105x^{13} - 245x^{12} - 8820x^{11} -$ $10290x^{10} + 767830x^9 + 2037420x^8 +$ $34944840x^7 + 292942580x^6 +$ $338137632x^5 - 2400615840x^4 -$ $9383011960x^3 - 4598395200x^2 +$ $27150700080x + 33072680144$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} + 6x^{14} - 9x^{13} + 9x^{11} -$ $9x^{10} + 12x^9 + 9x^8 - 3x^6 +$ $9x^5 + 9x^3 - 9x - 12$ | $x^{15} - 105x^{13} - 700x^{12} + 17640x^{11} -$ $2940x^{10} - 1244600x^9 + 5186160x^8 +$ $34450920x^7 - 297326120x^6 +$ $7260624x^5 + 5212378920x^4 -$ $8558124400x^3 - 37150192800x^2 +$ $11419348080x - 75525548672$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{15} + 12x^{14} - 9x^{12} - 9x^{10} - 6x^9 - 9x^8 - 9x^6 + 3x^3 + 9x^2 + 12$ | $x^{15} - 105x^{13} - 595x^{12} + 17640x^{11} + 5880x^{10} - 1356320x^9 + 3704400x^8 + 48404160x^7 - 324368240x^6 + 116169984x^5 + 5156195520x^4 - 17800437760x^3 - 3097866240x^2 + 120558627840x - 170249262848$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 3x^{14} - 9x^{13} + 9x^{11} + 9x^{10} - 9x^9 - 9x^8 - 9x^7 - 6x^6 - 9x^5 + 9x^3 - 9x^2 + 6$ | $x^{15} - 105x^{13} - 980x^{12} - 8820x^{11} - 14700x^{10} - 156800x^9 + 185220x^8 - 2222640x^7 - 13678840x^6 + 2074464x^5 - 344303400x^4 + 310209200x^3 - 4380576480x^2 - 3924770640x - 43551911872$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} + 12x^{14} + 9x^{13} + 9x^{10} - 12x^9 - 9x^8 - 3x^6 + 9x^2 + 9x + 6$ | $x^{15} + 75x^{13} - 200x^{12} - 315x^{11} - 4620x^{10} - 71435x^9 - 145530x^8 - 1488375x^7 - 2495080x^6 - 7519932x^5 - 10845660x^4 - 16518880x^3 - 55319040x^2 - 40336800x - 35189056$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 12x^{14} - 9x^{13} + 9x^{12} + 9x^{11} + 9x^{10} - 6x^9 - 9x^7 + 6x^6 + 9x^5 - 9x^4 - 9x^2 + 9x - 6$ | $x^{15} - 15x^{13} - 55x^{12} + 360x^{11} - 150x^{10} - 1670x^9 + 7560x^8 - 15300x^7 + 5920x^6 + 37584x^5 - 20760x^4 - 48880x^3 - 95760x^2 + 13440x + 188272$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 12x^{14} + 12x^{12} + 9x^{11} - 12x^9 - 9x^8 - 6x^6 + 9x^5 - 9x^4 - 9x^2 - 6$ | $x^{15} - 15x^{13} - 25x^{12} + 360x^{11} + 1200x^{10} - 1820x^9 - 8640x^8 + 180x^7 + 21880x^6 - 16416x^5 - 97440x^4 - 74920x^3 + 10080x^2 - 1680x + 112$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{15} + 6x^{14} + 9x^{11} - 9x^{10} +$ $9x^9 - 9x^8 - 9x^7 - 6x^6 + 9x^5 -$ $9x^4 - 6x^3 - 9x^2 - 9x - 12$ | $x^{15} - 105x^{13} - 35x^{12} - 8820x^{11} +$ $38220x^{10} - 392000x^9 + 1852200x^8 -$ $11607120x^7 + 38512040x^6 -$ $163882656x^5 + 372251040x^4 -$ $1020040840x^3 + 1500528960x^2 -$ $2242726080x + 1574479760$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 12x^{14} - 9x^{13} - 3x^{12} +$ $9x^{11} - 9x^{10} + 9x^9 - 9x^7 +$ $12x^6 + 9x^5 - 9x^4 + 9x^3 - 9x -$ 12 | $x^{15} + 75x^{13} - 835x^{12} + 4410x^{11} -$ $46410x^{10} + 342160x^9 - 1772820x^8 +$ $10751580x^7 - 52265360x^6 +$ $196629552x^5 - 408801120x^4 +$ $276581480x^3 + 1481513040x^2 -$ $1926370320x - 2349868304$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{15} - 12x^{14} + 9x^{13} - 6x^{12} +$ $9x^{11} + 9x^{10} + 6x^9 + 9x^8 + 9x^7 -$ $12x^6 + 9x^5 + 9x^4 - 3x^3 - 9x^2 -$ $9x - 3$ | $x^{15} - 105x^{13} - 280x^{12} + 4410x^{11} +$ $23520x^{10} - 51695x^9 - 740880x^8 -$ $1605240x^7 + 7587160x^6 +$ $50046444x^5 + 62522040x^4 -$ $293330170x^3 - 1228255560x^2 -$ $1797256545x - 970587443$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 3x^{14} + 6x^{12} + 9x^{11} -$ $9x^{10} + 3x^9 + 9x^8 + 9x^7 - 6x^6 -$ $9x^5 - 9x^4 + 9x^2 + 9x - 12$ | $x^{15} + 75x^{13} - 560x^{12} + 4410x^{11} -$ $41790x^{10} + 231280x^9 - 1666980x^8 +$ $9216900x^7 - 38868760x^6 +$ $15032452x^5 - 238851480x^4 -$ $347856880x^3 + 1894677120x^2 -$ $2386209840x + 904082144$ | $\left[\begin{array}{c} 2 \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{15} + 12x^{14} + 9x^{13} + 12x^{12} -$ $9x^{11} - 9x^{10} - 9x^9 - 9x^8 - 9x^7 -$ $12x^6 + 9x^5 + 9x^4 - 9x^3 + 9x - 6$ | $x^{15} - 105x^{13} - 175x^{12} - 8820x^{11} -$ $33810x^{10} - 402290x^9 - 1666980x^8 -$ $9940140x^7 - 29456840x^6 -$ $122393376x^5 - 285815040x^4 -$ $739123840x^3 - 1282710240x^2 -$ $1589269920x - 1718078768$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 6x^{14} - 12x^{12} + 9x^{10} +$ $3x^9 + 9x^8 + 6x^6 + 9x^4 + 9x^3 -$ $9x^2 + 9x + 12$ | $x^{15} - 15x^{13} - 40x^{12} - 180x^{11} + 30x^{10} -$ $620x^9 + 540x^8 - 2880x^7 + 1840x^6 -$ $1728x^5 + 4080x^4 - 4960x^3 - 18000x^2 -$ $240x - 5216$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 3x^{14} + 9x^{13} + 12x^{12} -$ $9x^{11} + 9x^{10} + 9x^9 + 9x^8 - 6x^6 +$ $9x^5 - 9x^4 + 12x^3 - 9x^2 - 9x +$ 12 | $x^{15} - 15x^{13} - 20x^{12} - 180x^{11} -$ $210x^{10} + 2140x^9 + 5400x^8 + 20160x^7 +$ $64520x^6 + 50976x^5 - 87600x^4 -$ $159040x^3 - 55440x^2 + 34320x + 22304$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| Continued on next page | | | | |

Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{15} + 6x^{14} - 3x^{12} + 9x^{11} -$ $9x^{10} - 6x^9 - 9x^8 + 9x^7 + 9x^6 -$ $9x^5 + 9x^4 - 3x^3 - 9x + 6$ | $x^{15} - 15x^{13} - 5x^{12} + 360x^{11} + 780x^{10} -$ $2240x^9 - 9720x^8 - 5220x^7 + 33080x^6 +$ $52704x^5 - 107040x^4 - 457720x^3 -$ $645120x^2 - 430080x - 114352$ | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \\ \frac{12}{5} \quad \frac{12}{5} \\ \frac{12}{5} \quad \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 12x^{14} + 9x^{13} + 6x^9 +$ $9x^8 - 9x^7 + 9x^6 - 9x^5 + 9x^4 -$ $12x^3 + 9x^2 - 9x + 6$ | $x^{15} - 15x^{13} - 350x^{12} + 2520x^{11} +$ $2940x^{10} - 174440x^9 + 740880x^8 +$ $6315120x^7 - 49776160x^6 -$ $16003008x^5 + 1150175040x^4 -$ $4648336000x^3 + 8906365440x^2 -$ $9690051840x + 5326608896$ | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \\ \frac{12}{5} \quad \frac{12}{5} \\ \frac{12}{5} \quad \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} - 3x^{14} + 9x^{13} - 12x^{12} +$ $9x^{11} + 12x^9 - 9x^7 + 9x^6 +$ $9x^4 + 3x^3 + 9x^2 + 6$ | $x^{15} - 105x^{13} - 1085x^{12} + 17640x^{11} +$ $60270x^{10} - 1046150x^9 - 2593080x^8 +$ $38031840x^7 - 49158760x^6 -$ $70531776x^5 + 2934214080x^4 -$ $9903068560x^3 - 31099672800x^2 -$ $75006279600x - 178537399600$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 6x^{14} + 6x^{12} + 9x^{10} +$ $9x^9 + 9x^7 + 3x^6 + 9x^5 + 9x^4 -$ $6x^3 - 6$ | $x^{15} - 105x^{13} - 10x^{12} + 4410x^{11} +$ $840x^{10} - 97685x^9 - 26460x^8 +$ $1292130x^7 + 335650x^6 -$ $10798326x^5 - 483630x^4 +$ $54451250x^3 - 15342390x^2 -$ $156485175x + 150213763$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{15} - 6x^{14} - 9x^{13} - 12x^{12} -$ $9x^{11} + 6x^9 - 9x^8 + 9x^7 - 6x^6 -$ $9x^5 + 9x^4 - 9x^3 + 9x + 12$ | $x^{15} + 30x^{13} - 110x^{12} + 6300x^{11} -$ $13440x^{10} + 276220x^9 - 793800x^8 +$ $2945880x^7 - 1895320x^6 -$ $25486272x^5 + 103558560x^4 -$ $277720240x^3 + 442552320x^2 -$ $361878720x + 120165248$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} + 6x^{14} - 9x^{13} + 3x^{12} +$ $9x^{11} + 9x^{10} - 12x^9 - 12x^6 +$ $9x^4 - 3x^3 - 9x^2 - 12$ | $x^{15} - 60x^{13} - 100x^{12} + 6300x^{11} -$ $7980x^{10} - 207200x^9 + 899640x^8 +$ $441000x^7 - 8300600x^6 + 3408048x^5 -$ $2058000x^4 - 48706000x^3 +$ $200531520x^2 - 707622720x +$ 995435392 | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{15} - 3x^{14} + 3x^{12} - 9x^{11} +$ $9x^{10} + 12x^9 + 9x^6 + 9x^5 -$ $9x^4 - 12x^3 + 9x^2 + 6$ | $x^{15} - 60x^{13} - 35x^{12} - 315x^{11} -$ $3990x^{10} - 17150x^9 - 79380x^8 -$ $77175x^7 + 428750x^6 - 259308x^5 -$ $2896635x^4 + 2028845x^3 +$ $7239015x^2 - 8247435x - 13731319$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 6x^{14} - 9x^{13} - 9x^{12} -$ $9x^{11} - 6x^9 - 9x^8 - 12x^6 -$ $9x^3 + 9x^2 - 9x - 12$ | $x^{15} - 105x^{13} - 385x^{12} + 17640x^{11} -$ $95550x^{10} - 31850x^9 + 185220x^8 +$ $20003760x^7 - 121387700x^6 +$ $139507704x^5 + 581138040x^4 -$ $446682040x^3 + 242020800x^2 -$ $3428628000x + 732785200$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} + 12x^{14} + 9x^{13} + 3x^{12} +$ $9x^{10} - 9x^9 + 9x^8 + 9x^7 - 9x^6 +$ $9x^5 - 9x^4 + 6x^3 + 9x^2 + 9x - 6$ | $x^{15} - 15x^{13} - 85x^{12} - 450x^{11} - 690x^{10} -$ $1520x^9 - 4860x^8 - 5400x^7 - 34280x^6 -$ $49896x^5 - 48840x^4 - 82840x^3 -$ $50400x^2 - 173040x - 209552$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 3x^{14} + 9x^{13} + 12x^{12} -$ $9x^9 - 9x^8 + 9x^7 - 12x^6 - 9x^4 -$ $9x^3 - 9x + 12$ | $x^{15} - 60x^{13} - 115x^{12} + 1575x^{11} +$ $3990x^{10} - 49910x^9 - 145530x^8 +$ $829080x^7 + 2948575x^6 - 2824605x^5 -$ $18033225x^4 - 25321975x^3 -$ $30252600x^2 - 16566900x - 5162150$ | $\left[\begin{array}{c} 2 \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{15} + 12x^{14} - 9x^{13} - 6x^{12} +$ $9x^{11} + 9x^{10} - 9x^9 + 9x^6 - 9x^5 -$ $9x^4 - 9x^2 - 6$ | $x^{15} - 60x^{13} - 70x^{12} + 6300x^{11} -$ $9240x^{10} - 200900x^9 + 317520x^8 +$ $2099160x^7 + 3471160x^6 -$ $56603232x^5 + 83143200x^4 -$ $44754640x^3 + 138297600x^2 -$ $251240640x + 101110912$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} + 12x^{14} - 9x^{13} - 12x^{12} +$ $9x^{11} - 9x^{10} + 3x^9 - 9x^8 - 3x^6 +$ $9x^5 - 9x^4 + 6x^3 + 9x + 3$ | $x^{15} - 15x^{13} - 10x^{12} + 90x^{11} + 255x^{10} -$ $170x^9 - 945x^8 - 270x^7 + 1645x^6 -$ $2619x^5 - 18060x^4 - 19735x^3 +$ $2520x^2 + 4620x + 2296$ | $\left[\begin{array}{c} 2 \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} + 12x^{14} - 9x^{13} + 6x^{12} +$ $9x^{11} - 9x^{10} - 3x^9 - 6x^6 -$ $9x^5 + 9x^4 - 6x^3 + 9x^2 + 12$ | $x^{15} - 105x^{13} - 455x^{12} + 17640x^{11} -$ $14700x^{10} - 271460x^9 - 370440x^8 +$ $11730600x^7 + 33943280x^6 -$ $8297856x^5 + 144924360x^4 +$ $333546920x^3 - 1004386320x^2 -$ $984217920x + 1524462128$ | $\left[\begin{array}{c} 2 \\ 5 \end{array} \frac{12}{5} \right]^4 \left[\begin{array}{c} 12 \\ 5 \end{array} \right]^5$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 6x^{14} - 9x^{13} + 6x^{12} -$ $9x^{11} - 9x^9 - 9x^8 - 12x^6 +$ $9x^5 - 9x^4 + 12x^3 + 9x^2 - 9x - 3$ | $x^{15} - 15x^{13} - 10x^{12} + 90x^{11} + 120x^{10} -$ $185x^9 - 540x^8 - 360x^7 + 760x^6 +$ $2052x^5 + 1110x^4 - 1780x^3 - 2880x^2 -$ $1545x - 299$ | $\left[\begin{array}{c} 2 \\ 5 \end{array} \frac{12}{5} \right]^4 \left[\begin{array}{c} 12 \\ 5 \end{array} \right]^5$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} + 6x^{14} - 3x^{12} - 9x^{11} +$ $9x^{10} + 12x^9 - 9x^6 + 9x^5 +$ $9x^4 + 9x^2 - 3$ | $x^{15} - 105x^{13} - 385x^{12} -$ $8820x^{11} - 33810x^{10} - 375830x^9 -$ $740880x^8 - 7347060x^7 + 322420x^6 -$ $62752536x^5 - 9219840x^4 -$ $2401000x^3 - 955982160x^2 +$ $976150560x - 2003663312$ | $\left[\begin{matrix} \frac{12}{5} & \frac{12}{5} & \frac{12}{5} \\ \frac{12}{5} & \frac{12}{5} & \frac{12}{5} \end{matrix} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} + 12x^{14} + 9x^{13} + 3x^{12} -$ $9x^{11} + 9x^{10} + 9x^9 + 9x^8 + 9x^7 +$ $12x^6 + 9x^4 - 3x^3 + 9x^2 + 12$ | $x^{15} - 105x^{13} - 245x^{12} - 8820x^{11} -$ $41160x^{10} + 760480x^9 + 6853140x^8 +$ $42662340x^7 + 153636560x^6 +$ $218855952x^5 - 2370363240x^4 -$ $24210819640x^3 - 87187993200x^2 -$ $134845922400x - 74941202896$ | $\left[\begin{matrix} 2 & \frac{12}{5} & \frac{12}{5} \\ \frac{12}{5} & \frac{12}{5} & \frac{12}{5} \end{matrix} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{15} + 12x^{14} + 9x^{13} - 9x^{12} +$ $9x^{11} - 9x^{10} - 9x^9 - 9x^8 + 3x^6 +$ $9x^4 - 9x^3 - 9x^2 + 9x - 6$ | $x^{15} - 15x^{13} - 20x^{12} + 360x^{11} - 390x^{10} -$ $1760x^9 + 4860x^8 - 9000x^7 + 35960x^6 -$ $15336x^5 - 262560x^4 + 299120x^3 +$ $1214640x^2 - 3025680x + 1924832$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 3x^{14} - 9x^{13} + 9x^{12} -$ $9x^{11} - 12x^9 - 9x^8 + 9x^7 +$ $12x^6 - 9x^5 - 9x^4 + 9x^2 + 9x + 6$ | $x^{15} - 105x^{13} - 665x^{12} - 8820x^{11} -$ $80850x^{10} - 528710x^9 - 3519180x^8 -$ $16855020x^7 - 72784600x^6 -$ $241675056x^5 - 716842560x^4 -$ $1118866000x^3 - 2855845440x^2 +$ $1363383840x - 282626512$ | $\left[\begin{array}{c} 2 \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} + 3x^{14} - 9x^{13} - 9x^{12} -$ $9x^8 - 3x^6 + 9x^4 - 6x^3 - 9x^2 -$ $9x + 3$ | $x^{15} + 75x^{13} - 250x^{12} + 4410x^{11} -$ $15540x^{10} + 129220x^9 - 529200x^8 +$ $3783780x^7 - 5096000x^6 +$ $14373072x^5 - 37373280x^4 -$ $56032480x^3 + 133111440x^2 -$ $4033680x - 58161824$ | $\left[\begin{array}{c} \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \\ \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} + 12x^{14} - 9x^{11} - 3x^9 +$ $9x^8 + 9x^7 - 12x^6 - 9x^4 + 3x^3 -$ $9x + 12$ | $x^{15} - 15x^{13} - 5x^{12} + 90x^{11} + 60x^{10} +$ $145x^9 + 135x^8 + 1665x^7 + 2165x^6 -$ $621x^5 - 2595x^4 - 1870x^3 - 630x^2 -$ $105x - 7$ | $\left[\begin{array}{c} \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \\ \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{15} + 6x^{14} - 9x^{13} - 6x^{12} - 9x^{10} - 9x^7 + 3x^6 + 9x^5 - 9x^4 + 3x^3 - 12$ | $x^{15} - 105x^{13} - 595x^{12} - 8820x^{11} - 60270x^{10} - 440510x^9 - 2407860x^8 - 12039300x^7 - 56210840x^6 - 169068816x^5 - 672183960x^4 - 1603483840x^3 - 1391619600x^2 - 125044080x - 1639018640$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 6x^{14} + 9x^{13} + 3x^{12} + 9x^{11} + 9x^{10} - 9x^9 - 9x^8 - 9x^7 + 6x^6 - 9x^3 + 9x + 6$ | $x^{15} - 105x^{13} - 70x^{12} + 4410x^{11} + 5880x^{10} - 91385x^9 - 185220x^8 + 895230x^7 + 2647960x^6 - 2463426x^5 - 15918630x^4 - 13853770x^3 + 24202080x^2 + 52689945x + 27899620$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |
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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{15} + 12x^{14} - 9x^{13} + 3x^{12} -$ $9x^{10} - 9x^7 + 6x^6 - 9x^5 + 9x^4 -$ $3x^3 + 9x^2 + 3$ | $x^{15} - 15x^{13} - 25x^{12} + 90x^{11} + 435x^{10} +$ $610x^9 + 135x^8 - 945x^7 - 3170x^6 -$ $3051x^5 - 1410x^4 - 2845x^3 + 5355x^2 -$ $2625x + 532$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 3x^{14} + 9x^{13} + 12x^{12} -$ $9x^{11} - 9x^{10} - 9x^8 + 9x^7 -$ $9x^6 + 6x^3 - 9x - 12$ | $x^{15} - 15x^{13} - 10x^{12} + 90x^{11} + 210x^{10} +$ $295x^9 + 540x^8 + 90x^7 - 2330x^6 -$ $4401x^5 - 5190x^4 - 6520x^3 - 5040x^2 -$ $1680x + 448$ | $\left[\begin{array}{c} 2 \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 12x^{14} + 9x^{13} + 6x^{12} -$ $9x^{11} + 9x^{10} + 12x^9 - 9x^8 +$ $9x^7 - 6x^6 + 9x^5 + 9x^4 - 9x + 3$ | $x^{15} + 165x^{13} - 470x^{12} + 4410x^{11} -$ $39270x^{10} - 125300x^9 + 1031940x^8 +$ $1155420x^7 - 10068520x^6 -$ $6742008x^5 + 52561320x^4 +$ $4802000x^3 - 60505200x^2 -$ $83554800x - 42103936$ | $\left[\begin{array}{c} 2 \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} + 6x^{14} - 3x^{12} + 9x^{11} +$ $9x^{10} - 9x^9 + 9x^8 - 9x^7 - 9x^5 +$ $3x^3 + 9x - 12$ | $x^{15} - 15x^{13} - 10x^{12} + 90x^{11} -$ $15x^{10} - 320x^9 + 675x^8 + 1620x^7 -$ $785x^6 - 6669x^5 - 21030x^4 - 40975x^3 -$ $42840x^2 - 25620x - 8960$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 12x^{14} + 9x^{13} - 6x^{12} +$ $9x^{11} + 9x^{10} - 6x^9 - 9x^8 +$ $12x^6 + 9x^5 + 9x + 12$ | $x^{15} - 105x^{13} - 280x^{12} + 4410x^{11} +$ $23520x^{10} - 91385x^9 - 740880x^8 +$ $895230x^7 + 15520750x^6 -$ $2463426x^5 - 270688740x^4 +$ $134528030x^3 + 2270457630x^2 -$ $3063327855x - 10295043815$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} - 12x^{14} - 9x^{13} - 3x^{12} +$ $9x^{11} - 9x^{10} + 6x^9 - 9x^8 + 3x^6 +$ $9x^5 + 9x^4 + 9x^3 - 3$ | $x^{15} - 105x^{13} - 665x^{12} - 8820x^{11} +$ $24990x^{10} - 214130x^9 + 4074840x^8 -$ $7408800x^7 + 87821720x^6 -$ $207965016x^5 - 108333120x^4 -$ $4568238640x^3 + 7599453120x^2 -$ $87603462240x - 156640971088$ | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \\ \frac{12}{5} \quad \frac{12}{5} \\ \frac{12}{5} \quad \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 3x^{14} - 3x^9 - 3x^6 + 3x^3 - 3$ | $x^{15} - 105x^{13} - 1085x^{12} - 8820x^{11} -$ $19110x^{10} - 102410x^9 + 370440x^8 -$ $61740x^7 - 4150300x^6 + 40970664x^5 -$ $269104080x^4 + 1673304920x^3 -$ $11024047440x^2 + 30914123520x -$ 45740586640 | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \\ \frac{12}{5} \quad \frac{12}{5} \\ \frac{12}{5} \quad \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| Continued on next page | | | | |

Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} - 12x^{14} - 9x^{13} + 9x^{11} -$ $9x^{10} + 6x^9 + 9x^8 + 9x^7 +$ $12x^6 - 9x^4 + 9x^3 + 9x - 12$ | $x^{15} - 15x^{13} - 5x^{12} + 90x^{11} + 60x^{10} -$ $275x^9 - 270x^8 + 450x^7 + 545x^6 -$ $378x^5 - 435x^4 + 410x^3 + 45x^2 - 825x -$ 481 | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 12x^{14} - 3x^{12} - 9x^{11} -$ $6x^9 - 9x^7 + 3x^6 - 9x^5 - 9x^4 -$ $9x^2 + 6$ | $x^{15} - 105x^{13} - 35x^{12} - 8820x^{11} -$ $19110x^{10} - 375830x^9 - 1666980x^8 -$ $10434060x^7 - 50475880x^6 -$ $179441136x^5 - 550885440x^4 -$ $1199539600x^3 - 1984570560x^2 -$ 2412140640x - 1129699312 | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{15} + 6x^{14} - 6x^{12} + 9x^{11} -$ $9x^{10} - 9x^9 - 9x^8 + 12x^6 +$ $9x^5 + 9x^4 + 6x^3 - 9x - 3$ | $x^{15} - 105x^{13} - 595x^{12} - 8820x^{11} -$ $77910x^{10} - 528710x^9 - 3704400x^8 -$ $18707220x^7 - 85084580x^6 -$ $311688216x^5 - 901239360x^4 -$ $1920127720x^3 - 3351988080x^2 -$ $669590880x - 2147262320$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 6x^{14} + 9x^{13} + 12x^{12} +$ $9x^{11} - 9x^{10} + 9x^9 + 9x^8 + 9x^7 -$ $9x^6 + 9x^4 - 9x^3 + 9x^2 - 9x + 3$ | $x^{15} - 15x^{13} - 5x^{12} + 90x^{11} + 60x^{10} -$ $230x^9 + 540x^8 + 1080x^7 - 5305x^6 -$ $15984x^5 - 13170x^4 - 6145x^3 -$ $17640x^2 - 18060x - 2296$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{15} + 12x^{14} + 6x^{12} - 9x^{11} + 9x^{10} - 3x^9 + 9x^7 + 3x^6 - 9x^5 - 3x^3 + 9x + 3$ | $x^{15} - 105x^{13} - 140x^{12} + 4410x^{11} + 11760x^{10} - 81095x^9 - 370440x^8 + 246960x^7 + 4524170x^6 + 11150244x^5 + 576240x^4 - 84659260x^3 - 291937590x^2 - 461604255x + 101026877$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 12x^{14} - 9x^{13} - 6x^{12} - 9x^{11} - 9x^{10} - 9x^9 - 9x^7 - 3x^6 - 9x^4 + 12x^3 - 9x^2 + 9x - 12$ | $x^{15} - 105x^{13} - 65x^{12} + 4410x^{11} + 5460x^{10} - 90020x^9 - 171990x^8 + 809235x^7 + 2391200x^6 - 657531x^5 - 11941545x^4 - 23027305x^3 - 7347060x^2 - 20132385x - 3582292$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{15} + 12x^{14} + 9x^{13} - 9x^{12} -$ $9x^{11} - 9x^{10} + 12x^9 + 9x^8 +$ $9x^7 + 12x^6 + 9x^5 + 9x^3 - 9x^2 -$ $9x - 6$ | $x^{15} - 15x^{13} - 35x^{12} - 180x^{11} - 300x^{10} -$ $1040x^9 - 1080x^8 - 2160x^7 - 3880x^6 -$ $1728x^5 - 4080x^4 - 3880x^3 - 1440x^2 -$ $240x - 4624$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 3x^{14} + 12x^{12} + 3x^9 +$ $9x^8 - 9x^7 - 9x^6 + 9x^4 + 12x^3 +$ $9x^2 - 9x + 6$ | $x^{15} - 15x^{13} - 20x^{12} + 90x^{11} + 240x^{10} -$ $125x^9 - 1080x^8 - 900x^7 + 1700x^6 +$ $3672x^5 + 1140x^4 - 3250x^3 - 4140x^2 -$ $1995x - 361$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 3x^{14} - 9x^{11} - 9x^{10} +$ $6x^9 + 9x^8 - 9x^6 + 9x^5 + 9x^4 +$ $12x^3 + 3$ | $x^{15} + 30x^{13} - 125x^{12} - 315x^{11} -$ $525x^{10} - 5390x^9 + 13230x^8 +$ $50715x^7 - 4900x^6 - 120393x^5 +$ $962115x^4 - 713440x^3 - 6050520x^2 -$ $10084200x - 6492304$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} + 3x^{14} - 3x^{12} + 9x^{11} -$ $9x^{10} + 9x^9 + 9x^8 + 9x^5 - 6x^3 -$ $9x^2 - 9x + 12$ | $x^{15} - 15x^{13} - 25x^{12} + 360x^{11} +$ $120x^{10} - 4160x^9 + 2160x^8 + 23040x^7 -$ $33680x^6 - 27648x^5 + 85440x^4 -$ $67840x^3 - 11520x^2 + 53760x - 22784$ | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 12x^{14} - 9x^{13} + 9x^{12} -$ $9x^{11} + 12x^9 - 9x^8 - 6x^6 +$ $9x^3 + 9x^2 - 9x + 12$ | $x^{15} - 105x^{13} - 70x^{12} + 4410x^{11} +$ $5880x^{10} - 89915x^9 - 185220x^8 +$ $802620x^7 + 2545060x^6 - 518616x^5 -$ $11596830x^4 - 24586240x^3 -$ $21176820x^2 - 7815255x - 689087$ | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} + 3x^{14} - 9x^{13} - 6x^{12} +$ $9x^{10} + 9x^9 - 9x^8 - 6x^6 + 9x^5 +$ $9x^4 + 6x^3 + 9x + 12$ | $x^{15} + 75x^{13} - 140x^{12} + 4410x^{11} -$ $11550x^{10} + 110740x^9 - 423360x^8 +$ $2751840x^7 - 5981920x^6 +$ $5482512x^5 + 19592160x^4 -$ $67804240x^3 + 69148800x^2 -$ $35150640x + 6991712$ | $\left[\begin{array}{c} 2 \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 12x^{14} - 9x^{12} - 9x^{11} +$ $9x^{10} + 12x^9 - 9x^8 + 9x^7 +$ $9x^5 + 9x^4 - 9x^3 - 6$ | $x^{15} - 105x^{13} - 70x^{12} + 4410x^{11} +$ $5880x^{10} - 69335x^9 - 185220x^8 -$ $493920x^7 - 99470x^6 + 26708724x^5 +$ $99473430x^4 - 134215900x^3 -$ $1187414550x^2 - 1708011375x +$ 539924875 | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |

Continued on next page

Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} + 3x^{14} + 9x^{13} - 6x^{12} - 6x^9 - 9x^8 + 9x^7 + 6x^6 - 9x^5 - 9x^4 + 12x^3 - 9x^2 + 9x - 6$ | $x^{15} - 15x^{13} - 55x^{12} + 90x^{11} + 840x^{10} + 70x^9 - 3240x^8 + 9360x^7 - 200x^6 - 139752x^5 + 44040x^4 + 58160x^3 - 292320x^2 - 374640x - 26768$ | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 3x^{14} + 9x^{13} + 12x^{12} - 9x^{11} + 9x^{10} - 9x^9 - 9x^8 + 9x^7 - 12x^6 - 3x^3 - 9x + 12$ | $x^{15} + 165x^{13} - 85x^{12} + 4410x^{11} - 6090x^{10} - 200480x^9 - 79380x^8 + 2072700x^7 + 3435880x^6 - 6371568x^5 - 27124440x^4 - 38457160x^3 - 38031840x^2 - 36879360x - 18401264$ | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{15} - 6x^{14} - 9x^{13} - 12x^{12} -$ $9x^{11} - 9x^{10} + 9x^9 + 9x^8 - 9x^6 +$ $9x^5 - 9x^4 - 9x + 12$ | $x^{15} - 15x^{13} - 55x^{12} - 450x^{11} -$ $1500x^{10} - 3470x^9 - 8100x^8 -$ $12780x^7 - 30740x^6 - 60696x^5 -$ $110760x^4 - 140680x^3 - 141120x^2 -$ $77280x - 24080$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 3x^{14} + 9x^{13} + 12x^{12} +$ $9x^{11} - 9x^{10} - 3x^9 - 9x^8 - 9x^6 -$ $9x^5 + 9x^4 + 12x^3 + 9x^2 - 9x + 6$ | $x^{15} - 105x^{13} - 805x^{12} - 8820x^{11} -$ $64680x^{10} - 418460x^9 - 2222640x^8 -$ $8643600x^7 - 50324960x^6 -$ $91276416x^5 - 363607440x^4 -$ $916317640x^3 + 1331114400x^2 +$ $2416174320x - 3389635760$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{15} - 3x^{14} + 9x^{13} + 3x^{12} +$ $9x^9 - 9x^8 - 9x^7 - 6x^6 - 9x^4 +$ $3x^3 - 12$ | $x^{15} + 30x^{13} - 370x^{12} + 6300x^{11} -$ $45780x^{10} + 353080x^9 - 1746360x^8 +$ $6544440x^7 - 10881920x^6 -$ $14373072x^5 + 224898240x^4 -$ $745956400x^3 + 1382976000x^2 -$ $1800173760x + 1014797056$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 12x^{14} + 9x^{13} + 3x^{12} +$ $9x^{10} + 6x^9 + 9x^8 + 9x^7 + 9x^5 +$ $9x^4 + 12x^3 - 9x^2 + 9x + 6$ | $x^{15} - 15x^{13} - 55x^{12} + 360x^{11} - 240x^{10} -$ $1100x^9 + 3780x^8 - 3420x^7 - 8780x^6 -$ $12096x^5 + 78240x^4 - 65440x^3 -$ $95760x^2 - 42000x - 6608$ | $\left[\begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array} \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|-------------------|
| $x^{15} + 12x^{14} - 9x^{13} - 6x^{12} -$ $9x^{11} + 9x^{10} + 12x^9 - 9x^7 +$ $9x^6 - 9x^5 + 9x^4 + 3x^3 - 6$ | $x^{15} - 105x^{13} - 560x^{12} - 8820x^{11} -$ $58800x^{10} - 433160x^9 - 2037420x^8 -$ $9754920x^7 - 29155000x^6 -$ $86090256x^5 - 278612040x^4 +$ $27851600x^3 - 1984570560x^2 +$ $1302878640x - 1808164288$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 12x^{14} - 9x^{13} + 6x^{12} +$ $9x^{11} + 9x^{10} - 9x^9 - 9x^8 - 9x^6 +$ $9x^5 + 9x^4 - 9x^2 + 9x - 12$ | $x^{15} - 15x^{13} - 25x^{12} + 360x^{11} +$ $120x^{10} - 2540x^9 - 7560x^8 + 13500x^7 +$ $84520x^6 - 74736x^5 - 133440x^4 -$ $460360x^3 + 1159200x^2 - 772800x +$ 164752 | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{15} - 12x^{14} + 9x^{13} + 12x^{12} -$ $9x^{11} - 9x^{10} + 12x^9 - 9x^7 +$ $9x^6 - 9x^5 - 9x^4 + 6x^3 + 9x^2 -$ $9x - 3$ | $x^{15} - 105x^{13} - 35x^{12} + 4410x^{11} +$ $2940x^{10} - 41405x^9 - 92610x^8 -$ $2253510x^7 + 1236515x^6 +$ $63660114x^5 - 4285785x^4 -$ $274458310x^3 - 26471025x^2 -$ $4194775095x - 7565486173$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 6x^{14} + 9x^{12} + 9x^{11} +$ $9x^{10} + 9x^9 + 9x^7 + 12x^6 -$ $9x^5 + 9x^4 + 6x^3 + 9x^2 - 9x - 12$ | $x^{15} - 15x^{13} - 10x^{12} + 360x^{11} +$ $1200x^{10} - 1520x^9 - 11880x^8 -$ $11700x^7 + 15400x^6 + 3024x^5 -$ $69360x^4 - 10960x^3 + 100800x^2 -$ $1680x - 45920$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} - 3x^{14} + 9x^{11} + 9x^{10} +$ $9x^9 + 9x^7 - 12x^6 + 9x^5 + 9x^4 +$ $9x + 6$ | $x^{15} - 105x^{13} - 35x^{12} + 4410x^{11} +$ $2940x^{10} - 98000x^9 - 92610x^8 +$ $1311975x^7 + 1570940x^6 -$ $11215071x^5 - 18331635x^4 +$ $76147715x^3 + 121010400x^2 -$ $550849425x - 993562612$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 12x^{14} + 9x^{13} - 3x^{12} -$ $9x^{11} + 9x^{10} - 9x^9 - 9x^7 -$ $9x^5 - 9x^4 + 9x^2 - 9x - 12$ | $x^{15} - 105x^{13} - 175x^{12} + 4410x^{11} +$ $14700x^{10} - 98000x^9 - 463050x^8 +$ $1311975x^7 + 7998760x^6 -$ $11215071x^5 - 97708695x^4 +$ $183976625x^3 + 668582460x^2 -$ $2815256535x + 2621959228$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|-------------------|
| $x^{15} + 6x^{14} + 9x^{13} + 9x^{12} +$ $9x^{11} + 9x^{10} - 9x^9 + 9x^8 + 9x^7 +$ $3x^6 + 9x^5 + 9x^4 + 12x^3 - 9x^2 +$ 12 | $x^{15} - 60x^{13} - 185x^{12} + 1575x^{11} +$ $7035x^{10} - 37520x^9 - 33075x^8 +$ $542430x^7 - 218050x^6 - 5371380x^5 +$ $2752575x^4 + 9766925x^3 +$ $27011250x^2 - 154864500x -$ 173472250 | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 3x^{14} - 9x^{13} + 6x^9 - 9x^8 +$ $9x^7 - 6x^6 + 9x^5 + 9x^4 + 12x^3 -$ 3 | $x^{15} - 105x^{13} - 55x^{12} + 4410x^{11} +$ $4620x^{10} - 91595x^9 - 145530x^8 +$ $908460x^7 + 1935745x^6 - 2741256x^5 -$ $6426105x^4 - 3440290x^3 -$ $44838675x^2 - 125152125x - 96820325$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|-------------------|
| $x^{15} + 12x^{14} + 12x^{12} - 9x^{11} +$ $9x^9 + 9x^7 - 6x^6 - 9x^5 + 9x^4 +$ $6x^3 + 9x^2 + 12$ | $x^{15} - 105x^{13} - 385x^{12} - 8820x^{11} -$ $51450x^{10} + 720790x^9 + 8705340x^8 +$ $59146920x^7 + 323922340x^6 +$ $794519712x^5 - 3414798240x^4 -$ $35993775160x^3 - 126383261760x^2 -$ $194056311120x - 92411339888$ | $\left[\begin{array}{c} 2 \frac{12}{5} \\ 5 \end{array} \right]^4 \left[\begin{array}{c} 12 \\ 5 \end{array} \right]^5$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 12x^{14} - 9x^{13} + 9x^{12} +$ $9x^{11} - 9x^{10} - 3x^9 + 9x^8 + 3x^6 +$ $9x^4 - 12x^3 - 9x^2 + 12$ | $x^{15} - 105x^{13} - 245x^{12} +$ $4410x^{11} + 20580x^{10} - 65660x^9 -$ $648270x^8 - 725445x^7 + 8619590x^6 +$ $31570749x^5 - 28487865x^4 -$ $202464325x^3 - 201179790x^2 -$ $989512125x + 1563538403$ | $\left[\begin{array}{c} 2 \frac{12}{5} \\ 5 \end{array} \right]^4 \left[\begin{array}{c} 12 \\ 5 \end{array} \right]^5$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} + 12x^{14} - 9x^{13} + 12x^{12} - 9x^{11} + 9x^{10} + 9x^9 + 3x^6 - 9x^3 + 9x^2 - 9x + 3$ | $x^{15} - 15x^{13} - 20x^{12} + 90x^{11} + 420x^{10} - 920x^9 - 5940x^8 + 25920x^7 + 8360x^6 - 207792x^5 + 539160x^4 - 913120x^3 + 972720x^2 - 677040x + 292544$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 12x^{14} - 9x^{13} + 3x^{12} - 9x^{11} + 9x^{10} + 9x^9 - 9x^7 - 3x^6 - 9x^5 + 9x^4 - 12x^3 + 9x^2 + 9x + 12$ | $x^{15} - 150x^{13} - 460x^{12} + 6300x^{11} + 49980x^{10} + 27580x^9 - 1428840x^8 - 4286520x^7 + 4359040x^6 - 47119968x^5 - 346073280x^4 - 1146360880x^3 - 4176587520x^2 - 7048567680x - 9978479168$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} - 12x^{14} - 9x^{13} + 3x^{12} - 9x^{11} - 9x^{10} - 9x^9 - 9x^8 - 9x^7 - 9x^6 - 9x^5 - 9x^4 - 3x^3 + 9x^2 + 9x - 3$ | $x^{15} + 165x^{13} - 85x^{12} + 4410x^{11} + 2100x^{10} - 144830x^9 + 79380x^8 + 352800x^7 - 2258900x^6 + 8075592x^5 - 4280640x^4 - 75336520x^3 + 91622160x^2 - 16134720x - 35688464$ | $\left[\begin{matrix} \frac{12}{5} & \frac{12}{5} & \frac{12}{5} \\ \frac{12}{5} & \frac{12}{5} & \frac{12}{5} \end{matrix} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 6x^{14} - 6x^{12} + 12x^9 - 9x^8 - 9x^7 - 3x^6 + 9x^4 + 9x^3 - 9x^2 + 3$ | $x^{15} + 75x^{13} - 275x^{12} + 4410x^{11} + 1680x^{10} + 199150x^9 - 238140x^8 + 1305360x^7 + 2294180x^6 + 51417072x^5 - 78821400x^4 + 422123240x^3 + 89893440x^2 - 2057753040x - 1566719728$ | $\left[\begin{matrix} 2 & \frac{12}{5} & \frac{12}{5} & \frac{12}{5} \\ \frac{12}{5} & \frac{12}{5} & \frac{12}{5} & \frac{12}{5} \end{matrix} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} + 6x^{14} - 9x^{13} - 9x^{12} - 9x^{11} + 3x^9 - 9x^8 - 6x^6 + 9x^4 - 9x^3 + 9x^2 + 6$ | $x^{15} + 75x^{13} - 65x^{12} + 4410x^{11} + 14910x^{10} + 153580x^9 + 661500x^8 + 3589740x^7 + 25987640x^6 + 108464832x^5 + 53178720x^4 - 270352600x^3 - 527259600x^2 - 550309200x + 14482832$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 3x^{14} + 3x^{12} - 9x^{11} + 9x^{10} - 9x^9 + 12x^6 + 9x^5 + 12x^3 - 9x^2 + 9x + 12$ | $x^{15} - 15x^{13} - 10x^{12} + 90x^{11} + 120x^{10} - 215x^9 - 540x^8 - 90x^7 + 910x^6 + 1242x^5 + 210x^4 - 1150x^3 - 1530x^2 - 1005x - 227$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} + 3x^{14} - 9x^{13} + 9x^{10} -$ $3x^9 - 9x^8 - 9x^7 - 9x^6 + 9x^5 +$ $3x^3 - 9x + 12$ | $x^{15} - 105x^{13} - 70x^{12} + 4410x^{11} +$ $5880x^{10} - 73745x^9 - 185220x^8 -$ $216090x^7 + 1330840x^6 +$ $20874294x^5 + 39400410x^4 -$ $142067170x^3 - 556647840x^2 -$ $685473495x - 300441932$ | $\left[\begin{array}{c} 2 \\ 2 \\ 5 \end{array} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 6x^{14} - 9x^{13} - 9x^{11} -$ $9x^{10} - 12x^9 - 9x^8 - 3x^6 -$ $9x^5 + 9x^4 + 9x^2 - 9x + 6$ | $x^{15} - 15x^{13} - 485x^{12} + 2520x^{11} +$ $18060x^{10} - 139580x^9 - 52920x^8 +$ $4357080x^7 + 550760x^6 -$ $100463328x^5 + 381512040x^4 -$ $97480600x^3 - 3229248960x^2 -$ $80097360x + 12840202256$ | $\left[\begin{array}{c} 2 \\ 2 \\ 5 \end{array} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{15} + 6x^{14} - 9x^{13} + 9x^{12} +$ $9x^{11} + 9x^{10} - 9x^7 - 6x^6 -$ $9x^5 + 9x^4 - 9x^2 - 9x - 3$ | $x^{15} - 15x^{13} - 35x^{12} + 90x^{11} + 960x^{10} -$ $650x^9 - 4320x^8 + 12960x^7 + 11960x^6 -$ $68472x^5 + 4560x^4 + 76640x^3 -$ $297360x^2 - 16800x + 712208$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} + 6x^{14} - 6x^{12} + 9x^{11} +$ $9x^{10} - 6x^9 + 9x^8 + 9x^5 + 6x^3 -$ $9x^2 + 9x - 3$ | $x^{15} - 105x^{13} - 805x^{12} - 8820x^{11} -$ $51450x^{10} - 340550x^9 - 926100x^8 -$ $3766140x^7 - 15174320x^6 +$ $95425344x^5 - 57624000x^4 +$ $1028780480x^3 + 4598395200x^2 -$ $8051225280x - 28454923280$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} + 3x^{14} + 12x^{12} - 9x^{11} -$ $9x^{10} - 9x^9 + 9x^8 + 9x^7 + 3x^6 +$ $9x^5 + 9x^3 + 12$ | $x^{15} - 105x^{13} - 560x^{12} + 17640x^{11} -$ $23520x^{10} - 1285760x^9 + 5927040x^8 +$ $44946720x^7 - 418405120x^6 +$ $406594944x^5 + 6702823680x^4 -$ $27121696000x^3 + 19361664000x^2 +$ $79705516800x - 150005567488$ | $\left[\begin{array}{c} 2 \\ \frac{12}{5} \end{array} \right]_5$ $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 12x^{14} + 6x^{12} - 6x^9 +$ $9x^7 - 9x^6 + 9x^5 + 9x^4 - 9x^2 -$ $9x - 3$ | $x^{15} - 15x^{13} - 10x^{12} + 90x^{11} + 120x^{10} -$ $260x^9 - 540x^8 + 315x^7 + 1180x^6 +$ $27x^5 - 1410x^4 - 265x^3 + 900x^2 - 15x -$ 314 | $\left[\begin{array}{c} 2 \\ \frac{12}{5} \end{array} \right]_5$ $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{15} + 12x^{14} + 9x^{13} + 6x^{12} + 9x^{11} + 9x^{10} - 9x^9 - 9x^8 - 9x^7 - 6x^6 + 9x^5 - 9x^3 + 9x + 12$ | $x^{15} - 60x^{13} - 250x^{12} - 315x^{11} + 1785x^{10} - 3815x^9 - 92610x^8 - 112455x^7 + 641410x^6 + 1592892x^5 + 195510x^4 - 914095x^3 - 6914880x^2 - 7058940x - 24228491$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 6x^{14} + 9x^{13} + 3x^{12} + 9x^{11} - 9x^{10} + 9x^9 + 9x^8 + 9x^7 - 9x^6 - 9x^5 - 12x^3 - 9x^2 + 9x + 3$ | $x^{15} - 105x^{13} - 70x^{12} - 8820x^{11} + 10290x^{10} + 789880x^9 - 1481760x^8 + 27536040x^7 + 140533960x^6 - 66382848x^5 - 389538240x^4 - 7838400640x^3 + 10588410000x^2 + 9943021200x + 1853341504$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|-------------------|
| $x^{15} - 12x^{14} + 9x^{13} - 12x^{12} -$ $9x^{11} + 3x^9 + 6x^6 + 9x^5 + 9x^4 -$ $3x^3 - 9x^2 - 12$ | $x^{15} - 15x^{13} - 35x^{12} - 450x^{11} -$ $1020x^{10} - 3050x^9 - 4860x^8 - 6840x^7 -$ $10600x^6 - 28296x^5 - 44040x^4 -$ $30640x^3 - 25200x^2 + 3360x - 112$ | $\left[\begin{array}{c} 2 \\ \frac{12}{5} \end{array} \right]_5$ $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 6x^{14} + 9x^{13} + 6x^{12} -$ $9x^{11} + 9x^{10} - 6x^9 + 6x^6 -$ $9x^5 - 9x^4 + 3x^3 - 9x^2 - 12$ | $x^{15} - 15x^{13} - 25x^{12} + 90x^{11} + 30x^{10} +$ $160x^9 - 8100x^8 + 33660x^7 + 21400x^6 -$ $136512x^5 + 274080x^4 - 280120x^3 -$ $1517040x^2 - 1281840x - 1194032$ | $\left[\begin{array}{c} 2 \\ \frac{12}{5} \end{array} \right]_5$ $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 6x^{14} - 12x^{12} + 9x^{11} +$ $9x^{10} - 6x^9 + 9x^8 - 9x^7 - 6x^6 +$ $9x^5 + 9x^4 - 3x^3 - 9x - 6$ | $x^{15} - 15x^{13} - 10x^{12} + 90x^{11} + 120x^{10} -$ $215x^9 - 540x^8 - 90x^7 + 1060x^6 +$ $1242x^5 - 690x^4 - 1450x^3 - 180x^2 -$ $105x - 2$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5$ $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} + 12x^{14} + 6x^{12} + 3x^9 + 9x^8 + 9x^7 - 9x^6 + 9x^5 + 9x^4 - 3x^3 - 9x^2 + 12$ | $x^{15} - 15x^{13} - 25x^{12} + 90x^{11} + 570x^{10} - 920x^9 - 1080x^8 + 19800x^7 - 20840x^6 - 146232x^5 + 189840x^4 + 45320x^3 - 201600x^2 + 23520x + 75376$ | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 12x^{14} - 6x^{12} + 9x^{11} + 9x^{10} + 3x^9 + 9x^8 + 9x^7 - 3x^6 + 9x^5 - 9x^4 + 9x^3 - 9x^2 - 9x + 6$ | $x^{15} - 105x^{13} - 1190x^{12} - 8820x^{11} - 10290x^{10} - 21560x^9 + 555660x^8 + 246960x^7 - 6722800x^6 + 79866864x^5 - 315779520x^4 + 2657234720x^3 - 11241866160x^2 + 26739264720x - 50173600960$ | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{15} - 3x^{14} - 9x^{13} + 9x^{12} +$ $9x^{10} - 9x^9 + 9x^8 + 9x^7 - 3x^6 -$ $12x^3 - 9x^2 - 12$ | $x^{15} - 105x^{13} - 280x^{12} - 8820x^{11} -$ $47040x^{10} - 433160x^9 - 2778300x^8 -$ $14694120x^7 - 73004120x^6 -$ $272792016x^5 - 826040040x^4 -$ $1970548720x^3 - 3243078720x^2 -$ $4118387280x - 3587286080$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 6x^{14} - 6x^{12} + 9x^{11} -$ $9x^{10} - 9x^9 + 9x^8 + 9x^7 -$ $12x^6 - 9x^5 + 9x^4 - 9x^3 + 9x^2 -$ $9x + 12$ | $x^{15} - 105x^{13} - 385x^{12} - 8820x^{11} +$ $10290x^{10} - 314090x^9 + 370440x^8 -$ $9446220x^7 + 13493620x^6 -$ $83497176x^5 + 134263920x^4 -$ $1901688040x^3 - 4005444240x^2 -$ $3162405120x - 2003663312$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{15} - 12x^{14} - 9x^{13} - 3x^{12} -$ $9x^{11} - 9x^{10} + 3x^9 - 9x^8 - 9x^7 +$ $3x^6 - 9x^5 - 9x^3 + 9x^2 - 9x - 12$ | $x^{15} - 105x^{13} - 20x^{12} + 4410x^{11} +$ $1680x^{10} - 92015x^9 - 52920x^8 +$ $934920x^7 + 756560x^6 - 3296916x^5 -$ $4548180x^4 - 6012790x^3 +$ $6914880x^2 + 10552395x + 4232963$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} + 6x^{14} - 9x^{13} + 3x^{12} +$ $9x^{11} + 9x^{10} - 12x^9 - 9x^8 +$ $9x^7 - 6x^6 + 9x^5 + 6x^3 - 12$ | $x^{15} - 105x^{13} - 175x^{12} - 8820x^{11} +$ $5880x^{10} - 359660x^9 + 740880x^8 -$ $7655760x^7 + 9768640x^6 -$ $91276416x^5 + 144636240x^4 -$ $897877960x^3 + 895476960x^2 -$ $2617858320x - 1438948112$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{15} + 6x^{14} - 9x^{13} - 9x^{12} - 12x^9 - 9x^7 - 12x^6 - 9x^4 + 3x^3 - 9x^2 + 9x + 6$ | $x^{15} - 105x^{13} - 665x^{12} + 17640x^{11} - 5880x^{10} - 1285760x^9 + 5186160x^8 + 42477120x^7 - 409596880x^6 + 614041344x^5 + 5962931520x^4 - 27121696000x^3 + 4840416000x^2 + 183290419200x - 306822138112$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} + 3x^{14} - 9x^{13} + 3x^{12} - 9x^{11} + 9x^{10} - 3x^9 - 9x^8 + 9x^7 - 6x^6 - 9x^5 + 3x^3 - 9x^2 - 9x + 3$ | $x^{15} - 105x^{13} - 280x^{12} + 17640x^{11} + 23520x^{10} - 1473920x^9 + 60752160x^7 - 80783360x^6 - 921062016x^5 + 1539713280x^4 - 1158626560x^3 - 774466560x^2 + 5356727040x - 5404055552$ | $\left[\begin{array}{c} 2 \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{15} + 3x^{14} + 9x^{13} - 9x^{12} +$ $9x^{11} - 9x^{10} + 9x^9 + 9x^8 + 9x^7 -$ $12x^6 - 9x^5 + 3x^3 + 9x^2 + 3$ | $x^{15} - 105x^{13} - 595x^{12} - 8820x^{11} -$ $16170x^{10} - 308210x^9 - 1111320x^8 -$ $9199260x^7 - 58536380x^6 -$ $347991336x^5 - 1216730760x^4 -$ $4110992200x^3 - 15332017680x^2 -$ $45249822240x - 75142349072$ | $\left[\begin{array}{c} 2 \\ 5 \end{array} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 6x^{14} + 12x^{12} + 9x^{10} +$ $12x^9 - 9x^7 + 3x^6 - 9x^5 + 9x^4 -$ $12x^3 - 9x^2 - 9x - 12$ | $x^{15} - 105x^{13} - 35x^{12} + 17640x^{11} -$ $54390x^{10} - 1425410x^9 + 7408800x^8 +$ $49577220x^7 - 438758740x^6 +$ $136914624x^5 + 7355415480x^4 -$ $24134755960x^3 + 19579482720x^2 +$ $24512673360x - 36214647952$ | $\left[\begin{array}{c} 2 \\ 5 \end{array} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} + 6x^{14} + 9x^{13} + 9x^{12} +$ $9x^{11} + 9x^{10} - 12x^9 - 9x^8 +$ $9x^7 - 9x^6 + 3x^3 + 9x - 3$ | $x^{15} - 15x^{13} - 10x^{12} + 90x^{11} + 390x^{10} -$ $980x^9 - 3240x^8 + 23940x^7 + 33280x^6 -$ $155952x^5 - 215160x^4 - 120880x^3 -$ $20160x^2 + 8400x + 8512$ | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 12x^{14} + 12x^{12} - 3x^9 -$ $9x^8 + 9x^7 - 3x^6 - 9x^4 - 12x^3 -$ $9x^2 - 3$ | $x^{15} - 105x^{13} - 280x^{12} + 17640x^{11} -$ $29400x^{10} - 292040x^9 - 1481760x^8 +$ $20744640x^7 - 91937720x^6 +$ $271754784x^5 - 181227480x^4 -$ $1262926000x^3 + 3618210960x^2 -$ $3610143600x + 856215808$ | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} + 6x^{14} + 6x^{12} + 9x^{10} +$ $3x^9 + 9x^8 - 9x^7 + 6x^6 - 9x^5 -$ $3x^3 - 9x^2 + 6$ | $x^{15} + 75x^{13} - 35x^{12} + 4410x^{11} -$ $11550x^{10} + 90160x^9 - 449820x^8 +$ $1711080x^7 - 8719060x^6 +$ $26227152x^5 - 13870920x^4 +$ $76832000x^3 + 79521120x^2 -$ $477702960x - 398796496$ | $\left[\begin{array}{c} 2 \\ 5 \end{array} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 6x^{14} + 9x^{13} + 6x^{12} +$ $9x^{11} + 9x^{10} - 6x^9 + 9x^7 -$ $9x^6 - 9x^5 + 3x^3 + 9x - 3$ | $x^{15} - 15x^{13} - 20x^{12} + 360x^{11} + 150x^{10} -$ $980x^9 - 540x^8 + 5400x^7 + 11720x^6 +$ $6912x^5 - 1200x^4 - 2320x^3 - 1440x^2 -$ $240x + 416$ | $\left[\begin{array}{c} 2 \\ 5 \end{array} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{15} - 3x^{14} - 9x^{13} - 6x^{12} -$ $9x^{10} + 6x^9 - 12x^6 - 9x^5 -$ $9x^4 - 3x^3 + 9x^2 + 9x + 6$ | $x^{15} + 75x^{13} - 380x^{12} + 4410x^{11} -$ $38010x^{10} + 232960x^9 - 1137780x^8 +$ $7294140x^7 - 42679000x^6 +$ $101426472x^5 + 85900920x^4 -$ $96122320x^3 + 172872000x^2 -$ $1100042160x - 220738336$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 12x^{14} - 9x^{13} + 12x^{12} +$ $9x^{11} + 12x^9 - 9x^8 - 9x^7 +$ $9x^6 - 9x^4 + 6x^3 + 6$ | $x^{15} - 15x^{13} - 5x^{12} + 360x^{11} -$ $750x^{10} - 470x^9 + 540x^8 + 9360x^7 -$ $23980x^6 + 23112x^5 - 6600x^4 -$ $8200x^3 + 11520x^2 - 3840x - 784$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 3x^{14} + 9x^{13} - 9x^{12} +$ $9x^{11} - 9x^{10} - 12x^9 - 9x^8 +$ $9x^7 + 6x^6 + 9x^4 - 6x^3 - 9x^2 -$ $9x + 3$ | $x^{15} - 15x^{13} - 5x^{12} - 450x^{11} + 1770x^{10} -$ $3980x^9 + 14580x^8 - 34560x^7 +$ $19160x^6 + 8424x^5 + 75840x^4 -$ $2920x^3 - 312480x^2 + 38640x + 273392$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} - 12x^{14} + 12x^{12} + 9x^{10} -$ $3x^9 + 9x^8 + 9x^7 - 6x^6 - 9x^2 +$ $9x - 3$ | $x^{15} - 105x^{13} - 280x^{12} + 17640x^{11} +$ $76440x^{10} - 1385720x^9 - 7038360x^8 +$ $56430360x^7 + 159220600x^6 -$ $1024785216x^5 - 647981880x^4 +$ $11190772880x^3 - 1064891520x^2 -$ $101410748880x - 149680721792$ | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 3x^{14} - 6x^{12} - 9x^{10} +$ $3x^9 + 9x^8 + 3x^6 + 9x^5 - 3x^3 +$ $9x^2 + 3$ | $x^{15} - 15x^{13} - 35x^{12} + 90x^{11} + 240x^{10} +$ $385x^9 + 540x^8 - 450x^7 - 445x^6 -$ $3321x^5 + 1185x^4 - 1810x^3 + 5040x^2 -$ $1680x + 560$ | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \\ \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{15} + 3x^{14} - 9x^{13} + 3x^{12} -$ $9x^{11} - 12x^9 + 9x^8 + 9x^7 -$ $3x^6 - 9x^4 + 6x^3 + 3$ | $x^{15} - 105x^{13} - 1085x^{12} - 8820x^{11} -$ $23520x^{10} - 142100x^9 - 370440x^8 -$ $1481760x^7 - 28002520x^6 -$ $29042496x^5 - 621762960x^4 +$ $374459960x^3 - 3509301600x^2 +$ $8127865200x - 5653874800$ | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]^4$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} + 12x^{14} - 9x^{13} - 9x^{12} +$ $9x^{11} - 3x^9 - 12x^6 - 9x^4 +$ $9x^2 - 9x + 12$ | $x^{15} - 105x^{13} - 175x^{12} + 4410x^{11} +$ $14700x^{10} - 84770x^9 - 463050x^8 +$ $478485x^7 + 6784540x^6 + 6288219x^5 -$ $46711455x^4 - 69532960x^3 +$ $133111440x^2 - 64538880x -$ 382930688 | $\left[\begin{array}{c} \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \\ \frac{12}{5} \end{array} \right]^{12}$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} - 3x^{14} - 9x^{13} - 9x^{12} +$ $3x^9 - 9x^8 - 9x^7 + 12x^6 + 9x^4 +$ $6x^3 - 9x^2 - 9x - 3$ | $x^{15} - 105x^{13} - 490x^{12} - 8820x^{11} -$ $51450x^{10} + 684040x^9 + 8890560x^8 +$ $71494920x^7 + 506446360x^6 +$ $1468720512x^5 - 4738997760x^4 -$ $41541525760x^3 - 94763244240x^2 -$ $66632359920x + 22621953088$ | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \\ \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 3x^{14} + 9x^{12} + 9x^{11} +$ $9x^{10} + 12x^9 + 9x^5 + 3x^3 -$ $9x^2 - 9x + 3$ | $x^{15} - 105x^{13} - 560x^{12} - 8820x^{11} -$ $85260x^{10} - 574280x^9 - 5186160x^8 -$ $32104800x^7 - 180911920x^6 -$ $1048122936x^5 - 4436183640x^4 -$ $15876948640x^3 - 54805610160x^2 -$ $123337833360x - 113286171712$ | $\left[\begin{array}{c} 2 \quad \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \\ \frac{12}{5} \quad \frac{12}{5} \quad \frac{12}{5} \end{array} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{15} - 6x^{14} + 9x^{13} - 9x^{12} +$ $9x^{10} + 6x^9 - 9x^8 - 9x^6 + 9x^4 +$ $6x^3 + 3$ | $x^{15} - 105x^{13} - 245x^{12} + 17640x^{11} -$ $107310x^{10} - 90650x^9 + 2407860x^8 +$ $10248840x^7 - 205422700x^6 +$ $1057458024x^5 - 2074752120x^4 -$ $1544995480x^3 + 11084552640x^2 -$ $7591385760x - 6994670032$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} - 6x^{14} - 3x^{12} + 9x^{11} -$ $9x^{10} + 9x^9 - 9x^8 - 9x^7 +$ $12x^6 + 9x - 6$ | $x^{15} - 105x^{13} - 35x^{12} + 17640x^{11} +$ $77910x^{10} - 293510x^9 - 3889620x^8 +$ $3272220x^7 + 107578520x^6 +$ $388443384x^5 + 401639280x^4 -$ $767935840x^3 - 2202389280x^2 -$ $488075280x + 2921728880$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} + 6x^{14} - 9x^{13} - 3x^{12} +$ $9x^{11} + 9x^{10} - 6x^9 - 9x^7 - 9x^6 +$ $9x^5 + 9x^4 + 6x^3 + 9x^2 + 9x - 12$ | $x^{15} - 105x^{13} - 455x^{12} - 8820x^{11} -$ $63210x^{10} - 478730x^9 - 2037420x^8 -$ $5124420x^7 + 11469920x^6 -$ $8297856x^5 + 805295400x^4 +$ $708391040x^3 + 13807286640x^2 +$ $31458670320x - 304686707920$ | $\left[\frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} - 12x^{14} + 3x^{12} - 9x^{11} -$ $9x^8 + 9x^7 - 9x^6 - 9x^4 + 6x^3 + 6$ | $x^{15} - 15x^{13} - 50x^{12} - 450x^{11} -$ $1830x^{10} - 3560x^9 - 4860x^8 -$ $14580x^7 - 25960x^6 + 44064x^5 +$ $110040x^4 + 70400x^3 - 206640x^2 +$ $179760x - 626752$ | $\left[2 \frac{12}{5} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} + 6x^{14} - 9x^{13} + 3x^{12} -$ $9x^{10} + 3x^9 + 9x^8 + 9x^7 + 6x^6 -$ $9x^5 - 12x^3 - 9x^2 - 9x + 6$ | $x^{15} + 75x^{13} - 625x^{12} + 4410x^{11} -$ $26880x^{10} + 258790x^9 - 1005480x^8 +$ $5715360x^7 - 15097880x^6 +$ $81052272x^5 - 84048720x^4 +$ $276787280x^3 + 833243040x^2 -$ $2835677040x + 1567411216$ | $\left[\begin{matrix} \frac{12}{5} & \frac{12}{5} & \frac{12}{5} \\ & \frac{12}{5} & \frac{12}{5} \\ & & \frac{12}{5} \end{matrix} \right]_5^{12}$ | T: 15,26 | $\frac{964}{405}$ |
| $x^{15} + 12x^{14} - 6x^{12} - 9x^{10} -$ $3x^9 - 9x^7 - 9x^6 + 9x^4 + 12x^3 -$ $9x^2 - 9x - 6$ | $x^{15} - 15x^{13} - 50x^{12} - 450x^{11} - 210x^{10} -$ $2000x^9 + 3240x^8 - 540x^7 - 6160x^6 -$ $46656x^5 - 51960x^4 + 32960x^3 +$ $65520x^2 - 1680x - 35392$ | $\left[\begin{matrix} 2 & \frac{12}{5} & \frac{12}{5} & \frac{12}{5} \\ & \frac{12}{5} & \frac{12}{5} & \frac{12}{5} \\ & & \frac{12}{5} & \frac{12}{5} \\ & & & \frac{12}{5} \end{matrix} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|---------------------|
| $x^{15} + 6x^{14} - 9x^{13} + 12x^{12} - 9x^{11} + 9x^{10} + 6x^9 - 9x^8 + 9x^7 - 9x^6 - 9x^4 - 12x^3 - 9x^2 - 9x - 12$ | $x^{15} - 105x^{13} - 35x^{12} + 17640x^{11} + 29400x^{10} - 1473920x^9 - 2222640x^8 + 62233920x^7 + 83499920x^6 - 1045529856x^5 - 1767904320x^4 - 1158626560x^3 - 968083200x^2 - 1032622080x - 365720320$ | $\left[\begin{array}{c} 2 \\ 5 \end{array} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 6x^{14} - 3x^{12} - 6x^9 + 9x^8 + 9x^7 - 3x^6 + 9x^5 - 6x^3 - 9x - 3$ | $x^{15} - 15x^{13} - 55x^{12} - 450x^{11} - 60x^{10} - 1310x^9 + 9720x^8 - 10260x^7 - 14240x^6 - 66096x^5 + 104160x^4 + 72560x^3 - 126000x^2 - 218400x - 165200$ | $\left[\begin{array}{c} 2 \\ 5 \end{array} \frac{12}{5} \frac{12}{5} \frac{12}{5} \right]_5^4$ | T: 15,36 | $\frac{968}{405}$ |
| $x^{15} + 9x^{14} - 9x^{13} + 12x^{12} - 9x^{11} - 9x^{10} + 12x^9 - 9x^8 - 12x^6 - 6x^3 + 9x^2 - 12$ | $x^{15} - 105x^{12} + 11760x^9 + 4862025x^3 - 18907875$ | $\left[\begin{array}{c} 23 \\ 10 \end{array} \frac{23}{10} \frac{23}{10} \frac{5}{2} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |
| Continued on next page | | | | |

Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|---------------------|
| $x^{15} + 9x^{14} + 9x^{13} + 12x^{12} +$ $9x^{11} + 9x^{10} - 6x^9 - 9x^8 + 6x^6 +$ $9x^5 - 9x^4 - 9x^2 + 6$ | $x^{15} - 12x^{12} + 66x^9 - 180x^6 + 225x^3 - 96$ | $\left[\begin{array}{ccc} 17 & 17 & 17 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5419}{2430}$ |
| $x^{15} - 9x^{14} - 6x^{12} + 9x^{11} -$ $9x^{10} + 9x^8 - 3x^6 - 9x^5 + 9x^4 -$ $3x^3 - 3$ | $x^{15} - 120x^{12} + 7140x^9 - 88200x^6 -$ $8643600x^3 - 216090000$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 6x^{12} + 9x^{11} -$ $9x^9 + 9x^4 - 6x^3 - 9x + 12$ | $x^{15} - 120x^6 - 120x^3 - 600$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{13} + 3x^{12} + 9x^{11} -$ $3x^9 + 9x^8 - 9x^7 - 3x^6 + 9x^5 +$ $9x^4 - 3x^3 + 9x^2 - 12$ | $x^{15} - 45x^{12} + 390x^9 - 1350x^6 +$ $2025x^3 - 1125$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 12x^{12} + 9x^{10} +$ $9x^8 + 9x^7 + 12x^6 + 9x^4 + 6x^3 -$ $9x - 12$ | $x^{15} - 105x^{12} + 4410x^9 - 2315250x^6 +$ $426237525x^3 - 16544390625$ | $\left[\begin{array}{ccc} 11 & 11 & 11 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{4939}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|---------------------|
| $x^{15} - 6x^{14} + 6x^{13} - 63170x^{12} + 52809x^{11} + 485058x^{10} + 652624636x^9 + 2309794470x^8 + 58510863x^7 - 2408512043458x^6 - 12681843093678x^5 - 38055812916966x^4 + 2670456416352569x^3 + 5805995878284690x^2 + 11727278009198340x - 2181500097342087010$ | $x^{15} - 6x^{14} + 6x^{13} - 63170x^{12} + 52809x^{11} + 485058x^{10} + 652624636x^9 + 2309794470x^8 + 58510863x^7 - 2408512043458x^6 - 12681843093678x^5 - 38055812916966x^4 + 2670456416352569x^3 + 5805995878284690x^2 + 11727278009198340x - 2181500097342087010$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_5 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_2 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{13} - 9x^{10} + 9x^9 + 9x^7 - 9x^5 - 9x^4 + 9x^2 + 9x - 3$ | $x^{15} - 231x^{12} + 14994x^9 + 685314x^6 + 5639949x^3 - 28588707$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_5 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_2 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|---------------------|
| $x^{15} + 9x^{14} - 9x^{13} + 12x^{12} - 9x^{11} + 9x^{10} - 6x^9 - 9x^8 - 12x^6 + 9x^5 + 9x^4 - 9x^3 - 9x + 3$ | $x^{15} - 210x^{12} + 17640x^9 - 926100x^6 + 77792400x^3 - 4764784500$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right] \begin{array}{c} 4 \\ 5 \\ 2 \end{array} \Big]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 9x^{13} - 6x^{12} - 9x^{10} - 12x^9 + 9x^8 - 12x^6 - 9x^5 + 9x^4 - 3x^3 - 9x + 6$ | $x^{15} - 93x^{12} + 3780x^9 - 58800x^6 + 385875x^3 - 900375$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right] \begin{array}{c} 4 \\ 5 \\ 2 \end{array} \Big]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} + 9x^{14} + 9x^{13} - 12x^{12} - 9x^{11} + 9x^{10} + 9x^9 + 9x^8 + 9x^7 - 9x^4 + 6x^3 + 6$ | $x^{15} - 30x^{12} + 600x^9 - 4500x^6 + 15000x^3 - 37500$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right] \begin{array}{c} 4 \\ 5 \\ 2 \end{array} \Big]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 3x^{12} + 9x^{11} - 9x^{10} - 9x^9 - 9x^8 - 9x^7 - 6x^6 - 9x^5 + 9x^4 - 12x^3 + 9x^2 - 9x + 6$ | $x^{15} - 30x^{12} - 22500x^6 + 56250x^3 - 1968750$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right] \begin{array}{c} 4 \\ 5 \\ 2 \end{array} \Big]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|---------------------|
| $x^{15} - 9x^{14} - 9x^{13} + 6x^{12} + 9x^{10} + 6x^9 - 9x^8 - 9x^7 - 9x^6 + 9x^5 + 9x^4 - 9x^3 + 9x^2 - 3$ | $x^{15} + 7056x^9 - 172872x^6 + 8254638x^3 - 77446656$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} + 9x^{14} + 9x^{13} + 12x^{12} - 3x^9 - 6x^6 - 9x^5 + 9x^4 - 9x^3 - 9x^2 + 9x - 12$ | $x^{15} - 24x^{12} + 264x^9 - 744x^6 + 744x^3 - 168$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{13} - 6x^{12} - 9x^{11} + 9x^{10} + 12x^9 - 9x^7 + 9x^6 - 9x^4 - 3x^3 + 9x^2 + 9x - 12$ | $x^{15} - 15x^{12} - 270x^6 - 1545x^3 - 2625$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|---------------------|
| $x^{15} - 3x^{14} + 15x^{13} - 49363x^{12} + 24x^{11} - 592104x^{10} + 16242861484x^9 + 4873806252x^8 - 87672841056x^7 - 307251226871768x^6 - 7009569694826472x^5 - 11975089306723248x^4 + 23448143208050978294x^3 + 97197911313104438934x^2 + 109210175755557593658x - 21181781644059716312786$ | $x^{15} - 3x^{14} + 15x^{13} - 49363x^{12} + 24x^{11} - 592104x^{10} + 16242861484x^9 + 4873806252x^8 - 87672841056x^7 - 307251226871768x^6 - 7009569694826472x^5 - 11975089306723248x^4 + 23448143208050978294x^3 + 97197911313104438934x^2 + 109210175755557593658x - 21181781644059716312786$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_5 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_2 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_2 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_2 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_2$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{14} - 9x^{13} + 9x^{11} - 6x^9 + 9x^8 + 9x^7 - 3x^6 - 9x^5 + 9x^3 + 9x^2 + 9x - 12$ | $x^{15} + 17640x^9 - 812910x^6 - 3169320x^3 - 88236750$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_5 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_2 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_2 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_2 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_2$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|---------------------|
| $x^{15} - 9x^{10} + 9x^9 + 9x^8 - 9x^6 - 12x^3 + 3$ | $x^{15} - 150x^{12} + 22260x^9 - 167580x^6 + 1049580x^3 - 10804500$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 9x^{13} + 9x^{12} + 3x^9 - 9x^7 - 6x^6 + 9x^5 - 9x - 6$ | $x^{15} - 276360x^{12} + 41369710200x^9 - 3627757621719000x^6 + 161714578986380148750x^3 - 2740375380675502728900000$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{14} - 6x^{12} + 9x^9 + 9x^8 - 3x^6 + 9x^5 + 9x^4 + 3x^3 + 9x + 12$ | $x^{15} - 90x^{12} + 6300x^9 - 176400x^6 + 1975680x^3 - 7203000$ | $\left[\begin{array}{ccc} 11 & 11 & 11 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{4939}{2430}$ |
| $x^{15} + 12x^{12} + 9x^{11} - 9x^{10} + 12x^9 - 9x^8 - 9x^7 + 6x^6 - 9x^5 + 12x^3 + 6$ | $x^{15} - 210x^{12} + 88200x^9 - 7779240x^6 + 229487580x^3 - 4764784500$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} - 9x^{13} + 9x^{10} - 9x^9 + 9x^8 - 9x^7 + 9x^5 + 3x^3 - 9x^2 - 9x + 12$ | $x^{15} - 15x^{12} + 270x^9 + 405x^3 + 2025$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|---------------------|
| $x^{15} + 9x^{14} - 9x^{13} + 12x^{12} +$ $9x^{11} + 9x^{10} + 12x^9 - 9x^8 +$ $9x^7 + 6x^6 - 9x^5 + 9x^4 + 9x^3 +$ $9x - 3$ | $x^{15} - 30x^{12} + 570x^9 - 4830x^6 +$ $10230x^3 - 7350$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{13} - 9x^{12} + 9x^{11} -$ $9x^{10} - 3x^9 - 9x^8 - 9x^7 + 9x^5 +$ $9x^4 + 3x^3 - 9x^2 + 12$ | $x^{15} - 15x^{12} + 90x^9 - 270x^6 + 405x^3 -$ 6075 | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 9x^{13} - 9x^{11} +$ $9x^{10} - 3x^9 + 9x^8 - 9x^6 + 9x^5 -$ 3 | $x^{15} - 11760x^9 - 3395700x^6 +$ $218250900x^3 + 22059187500$ | $\left[\begin{array}{ccc} 11 & 11 & 11 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{4939}{2430}$ |
| $x^{15} - 9x^{14} - 9x^{13} - 12x^{12} -$ $9x^{11} - 9x^{10} - 9x^8 + 9x^7 -$ $12x^6 - 9x^5 + 3x^3 + 9x^2 + 9x - 3$ | $x^{15} - 45x^{12} + 540x^9 + 1800x^6 - 225x^3 -$ 2625 | $\left[\begin{array}{ccc} 11 & 11 & 11 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{4939}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|---------------------|
| $x^{15} - 9x^{14} + 9x^{12} - 9x^{11} - 9x^{10} + 12x^9 - 9x^8 - 9x^7 + 9x^6 - 9x^5 - 6x^3 + 9x^2 - 9x - 6$ | $x^{15} - 105x^{12} + 3675x^9 - 46305x^6 + 108045x^3 - 151263$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{14} - 9x^{13} + 6x^{12} + 9x^{11} + 9x^{10} + 6x^9 + 9x^8 - 9x^7 + 3x^6 + 9x^5 + 9x^3 + 9x - 3$ | $x^{15} - 30x^{12} + 1680x^9 - 5880x^6 - 905520x^3 - 14406000$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 9x^{13} - 12x^{12} + 9x^{11} - 9x^9 - 9x^8 - 9x^7 - 6x^6 + 9x^5 - 6x^3 - 9x^2 + 9x - 12$ | $x^{15} - 21x^{12} - 882x^9 + 18522x^6 + 108045x^3 + 151263$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} + 12x^{12} + 9x^{10} - 9x^9 + 9x^8 - 9x^7 + 9x^6 - 9x^5 - 9x^4 - 6x^3 - 9x^2 + 3$ | $x^{15} - 150x^{12} + 2940x^9 + 308700x^6 - 4013100x^3 + 54022500$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|---------------------|
| $x^{15} - 9x^{14} + 9x^{13} - 12x^{12} + 9x^{11} + 9x^8 + 9x^7 + 9x^6 - 9x^5 - 9x^4 + 12x^3 - 9x^2 + 9x - 3$ | $x^{15} - 315x^{12} + 26460x^9 + 617400x^6 - 540225x^3 - 44118375$ | $\left[\begin{array}{ccc} \frac{11}{10} & \frac{11}{10} & \frac{11}{10} \\ \frac{11}{10} & \frac{11}{10} & \frac{5}{2} \\ \frac{11}{10} & \frac{11}{10} & \frac{5}{2} \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{4939}{2430}$ |
| $x^{15} + 9x^{13} - 3x^{12} - 9x^{11} + 9x^{10} + 3x^9 + 9x^8 - 9x^7 - 12x^6 - 9x^4 - 3x^3 - 9x^2 + 9x + 3$ | $x^{15} - 105x^{12} + 4410x^9 - 92610x^6 + 972405x^3 - 9529569$ | $\left[\begin{array}{ccc} \frac{23}{10} & \frac{23}{10} & \frac{23}{10} \\ \frac{23}{10} & \frac{23}{10} & \frac{5}{2} \\ \frac{23}{10} & \frac{23}{10} & \frac{5}{2} \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 9x^{13} - 3x^{12} - 9x^{10} + 6x^9 + 9x^8 - 12x^6 - 9x^5 + 9x^3 + 9x + 6$ | $x^{15} - 30660x^{12} + 833857500x^9 + 7448299194000x^6 + 20099532026962500x^3 - 11975250296773050000$ | $\left[\begin{array}{ccc} \frac{23}{10} & \frac{23}{10} & \frac{23}{10} \\ \frac{23}{10} & \frac{23}{10} & \frac{5}{2} \\ \frac{23}{10} & \frac{23}{10} & \frac{5}{2} \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{14} - 9x^{13} + 6x^{12} + 9x^{11} - 9x^{10} + 12x^9 + 9x^8 + 6x^6 - 3x^3 - 9x^2 - 9x - 3$ | $x^{15} - 315x^{12} + 61740x^9 - 4630500x^6 + 247963275x^3 - 1191196125$ | $\left[\begin{array}{ccc} \frac{21}{10} & \frac{21}{10} & \frac{21}{10} \\ \frac{21}{10} & \frac{21}{10} & \frac{5}{2} \\ \frac{21}{10} & \frac{21}{10} & \frac{5}{2} \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1913}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|---------------------|
| $x^{15} - 9x^{14} - 9x^{13} - 6x^{12} +$ $9x^{11} + 9x^{10} + 6x^9 + 9x^8 -$ $12x^6 - 9x^5 + 9x^4 - 9x - 3$ | $x^{15} - 75x^{12} + 1050x^9 - 24990x^6 +$ $149205x^3 - 900375$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{13} + 6x^{12} +$ $9x^8 - 6x^6 - 9x^5 + 9x^4 - 12x^3 -$ 12 | $x^{15} - 3x^{14} + 15x^{13} + 39467x^{12} +$ $24x^{11} - 710544x^{10} - 94100696x^9 +$ $10413541152x^8 - 58134674916x^7 -$ $32736112289108x^6 +$ $273475184359128x^5 -$ $949876960145448x^4 -$ $440466083457100516x^3 +$ $2257005443778007404x^2 +$ $4043621888378723508x -$ 1744023862436189257916 | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|---------------------|
| $x^{15} - 9x^{14} + 9x^{13} - 12x^{12} +$ $3x^9 + 9x^8 - 9x^7 - 3x^6 - 9x^4 +$ $9x^3 + 6$ | $x^{15} - 9x^{12} - 108x^9 - 696x^6 + 243x^3 - 21$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} + 9x^{14} - 9x^{13} - 9x^{12} -$ $9x^{10} + 6x^9 + 9x^8 - 9x^7 - 6x^6 -$ $9x^5 - 9x^4 - 3x^3 + 9x + 6$ | $x^{15} - 60x^{12} + 1050x^9 - 9000x^6 +$ $45000x^3 - 112500$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|---------------------|
| $x^{15} - 6x^{14} + 6x^{13} + 36790x^{12} -$ $441111x^{11} + 1684578x^{10} +$ $187578376x^9 - 6185964690x^8 +$ $43441471323x^7 - 3931806040858x^6 +$ $18376235406582x^5 +$ $7057177965714x^4 -$ $16707457586445271x^3 +$ $111736913005675290x^2 -$ $270692554350602460x -$ 59080637064007122010 | $x^{15} - 6x^{14} + 6x^{13} + 36790x^{12} -$ $441111x^{11} + 1684578x^{10} +$ $187578376x^9 - 6185964690x^8 +$ $43441471323x^7 - 3931806040858x^6 +$ $18376235406582x^5 +$ $7057177965714x^4 -$ $16707457586445271x^3 +$ $111736913005675290x^2 -$ $270692554350602460x -$ 59080637064007122010 | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} - 9x^{13} + 6x^{12} +$ $9x^{10} + 9x^9 - 9x^7 - 6x^6 - 9x^5 -$ $9x^4 - 9x^2 + 9x - 12$ | $x^{15} - 630x^{12} + 213150x^9 -$ $41674500x^6 + 2755147500x^3 -$ 66177562500 | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|---------------------|
| $x^{15} - 12x^{12} + 9x^{11} - 9x^{10} +$ $12x^9 + 9x^8 - 9x^7 - 6x^6 + 9x^5 -$ $9x^4 - 6$ | $x^{15} - 150x^{12} + 7560x^9 - 176400x^6 +$ $1975680x^3 - 8643600$ | $\begin{bmatrix} 21 & 21 & 21 & 21 \\ 10 & 10 & 10 & 10 \end{bmatrix}^4$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} + 9x^{14} - 9x^{12} - 9x^{11} -$ $9x^{10} + 9x^8 + 9x^7 + 12x^6 +$ $9x^5 - 9x^4 - 9x^3 + 9x^2 - 9x + 3$ | $x^{15} - 30x^{12} + 390x^9 - 2250x^6 +$ $6150x^3 - 5250$ | $\begin{bmatrix} 23 & 23 & 23 & 23 \\ 10 & 10 & 10 & 10 \end{bmatrix}^4$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{13} + 9x^{12} - 9x^{11} +$ $6x^9 + 9x^8 - 9x^7 - 12x^6 - 9x^5 +$ $9x^4 - 3x^3 + 9x - 3$ | $x^{15} - 6x^{14} + 42x^{13} - 578x^{12} -$ $30x^{11} - 6630x^{10} + 700x^9 +$ $929520x^8 - 1285920x^7 + 1458440x^6 +$ $39686460x^5 - 560284080x^4 -$ $513790720x^3 + 7930835760x^2 +$ $1053360960x - 38084543440$ | $\begin{bmatrix} 23 & 23 & 23 & 23 \\ 10 & 10 & 10 & 10 \end{bmatrix}^4$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|---------------------|
| $x^{15} + 9x^{11} + 9x^{10} + 3x^9 + 9x^8 + 9x^7 - 12x^6 + 9x^5 - 9x^4 - 12x^3 + 9x^2 - 9x - 3$ | $x^{15} - 6x^{14} + 42x^{13} + 157x^{12} - 3810x^{11} + 16680x^{10} - 4130x^9 - 642960x^8 + 4040100x^7 - 4178170x^6 - 82878150x^5 + 551285400x^4 + 450606875x^3 - 9847806450x^2 + 1079523600x + 58889215925$ | $\left[\begin{array}{c} \frac{17}{10} \quad \frac{17}{10} \quad \frac{17}{10} \\ \frac{17}{10} \quad \frac{17}{10} \quad \frac{17}{10} \end{array} \right]^4 \left[\begin{array}{c} \frac{5}{2} \\ \frac{5}{2} \end{array} \right]_{10}$ | T: 15,44 | $\frac{5419}{2430}$ |
| $x^{15} - 9x^{14} - 9x^{13} + 3x^{12} + 9x^{11} + 9x^{10} - 9x^7 - 3x^6 + 9x^4 + 12x^3 - 9x + 12$ | $x^{15} - 105x^{12} - 4410x^9 + 360150x^6 + 19268025x^3 + 44118375$ | $\left[\begin{array}{c} \frac{23}{10} \quad \frac{23}{10} \quad \frac{23}{10} \\ \frac{23}{10} \quad \frac{23}{10} \quad \frac{23}{10} \end{array} \right]^4 \left[\begin{array}{c} \frac{5}{2} \\ \frac{5}{2} \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 9x^{13} - 12x^{12} + 9x^{10} - 9x^9 + 9x^8 + 3x^6 - 9x^5 - 9x^3 - 9x^2 + 9x + 12$ | $x^{15} - 255x^{12} + 24150x^9 - 1065750x^6 + 18650625x^3 - 112546875$ | $\left[\begin{array}{c} \frac{23}{10} \quad \frac{23}{10} \quad \frac{23}{10} \\ \frac{23}{10} \quad \frac{23}{10} \quad \frac{23}{10} \end{array} \right]^4 \left[\begin{array}{c} \frac{5}{2} \\ \frac{5}{2} \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|---------------------|
| $x^{15} + 9x^{14} - 9x^{11} + 9x^9 - 9x^8 -$ $9x^7 - 12x^6 + 9x^5 - 3x^3 - 9x^2 -$ $9x - 3$ | $x^{15} - 105x^{12} + 2205x^9 + 77175x^6 +$ $540225x^3 + 151263$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} + 9x^{14} + 9x^{12} + 9x^9 - 9x^8 +$ $3x^6 + 9x^5 - 9x^4 - 6x^3 + 9x^2 -$ $9x - 6$ | $x^{15} - 315x^{12} + 19110x^9 - 463050x^6 +$ $4862025x^3 - 18907875$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 12x^{12} + 9x^{10} + 3x^9 -$ $9x^8 + 9x^7 + 12x^6 + 9x^5 + 9x^4 +$ $6x^3 + 9x + 6$ | $x^{15} - 30x^{12} + 240x^9 - 3600x^3 - 18000$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{14} - 9x^{13} + 6x^{12} -$ $9x^{11} - 9x^{10} + 6x^9 + 9x^7 -$ $6x^6 - 9x^3 + 9x^2 + 9x + 3$ | $x^{15} - 735x^{12} + 130830x^9 +$ $1512630x^6 + 21861105x^3 - 44118375$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|---------------------|
| $x^{15} - 9x^{14} - 12x^{12} + 9x^{10} +$ $9x^9 + 9x^7 + 12x^6 - 9x^4 - 9x^2 +$ $9x - 6$ | $x^{15} - 90x^{12} + 8400x^9 - 661500x^6 +$ $23152500x^3 - 270112500$ | $\begin{bmatrix} 23 & 23 & 23 & 23 \\ 10 & 10 & 10 & 10 \end{bmatrix}^4 \begin{bmatrix} 5 \\ 2 \end{bmatrix}_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{14} - 9x^{13} - 12x^{12} +$ $9x^9 - 9x^8 + 6x^6 - 9x^5 + 9x^4 -$ $9x^3 + 9x - 12$ | $x^{15} - 15x^{12} + 30x^9 + 270x^6 - 495x^3 +$ 225 | $\begin{bmatrix} 23 & 23 & 23 & 23 \\ 10 & 10 & 10 & 10 \end{bmatrix}^4 \begin{bmatrix} 5 \\ 2 \end{bmatrix}_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 12x^{12} + 9x^9 + 9x^6 - 9x^5 +$ $12x^3 - 6$ | $x^{15} - 11760x^9 - 308700x^6 +$ $57335880x^3 + 176473500$ | $\begin{bmatrix} 23 & 23 & 23 & 23 \\ 10 & 10 & 10 & 10 \end{bmatrix}^4 \begin{bmatrix} 5 \\ 2 \end{bmatrix}_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{14} + 9x^{13} + 9x^{10} -$ $12x^9 - 9x^8 + 6x^6 + 9x^5 + 9x^4 -$ $9x^3 + 9x - 6$ | $x^{15} - 30x^{12} + 300x^9 - 1020x^6 +$ $1680x^3 - 1500$ | $\begin{bmatrix} 23 & 23 & 23 & 23 \\ 10 & 10 & 10 & 10 \end{bmatrix}^4 \begin{bmatrix} 5 \\ 2 \end{bmatrix}_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{11} + 9x^{10} - 9x^7 + 6x^6 +$ $9x^5 + 9x^4 + 9x^3 + 9x^2 + 3$ | $x^{15} - 126x^{12} + 2058x^9 - 16464x^6 -$ $259308x^3 - 1411788$ | $\begin{bmatrix} 21 & 21 & 21 & 21 \\ 10 & 10 & 10 & 10 \end{bmatrix}^4 \begin{bmatrix} 5 \\ 2 \end{bmatrix}_{10}$ | T: 15,44 | $\frac{1913}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|---------------------|
| $x^{15} + 9x^{13} - 9x^{12} - 9x^{11} -$ $9x^{10} - 9x^9 - 9x^8 - 9x^7 + 6x^6 +$ $9x^4 + 3x^3 - 9x^2 + 3$ | $x^{15} + 60x^9 - 720x^6 + 1200x^3 - 768$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{13} - 9x^{11} - 9x^{10} -$ $6x^9 - 9x^8 + 9x^7 - 3x^6 - 9x^5 -$ $12x^3 - 9x^2 + 9x + 12$ | $x^{15} - 15x^{12} + 90x^9 - 270x^6 + 405x^3 +$ 10125 | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{11} - 9x^{10} + 12x^9 +$ $9x^8 + 9x^7 - 9x^6 - 9x^5 - 9x^4 +$ $3x^3 - 9x^2 - 3$ | $x^{15} + 2940x^9 - 205800x^6 -$ 1440600x ³ - 352947000 | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 9x^{13} + 9x^{12} -$ $9x^{11} - 9x^9 + 9x^8 + 9x^7 + 9x^6 -$ $9x^5 - 9x^4 + 9x^3 - 9x^2 + 9x - 3$ | $x^{15} - 300x^{12} + 25200x^9 - 1296540x^6 +$ 32228280x ³ - 291721500 | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|---------------------|
| $x^{15} - 9x^{14} - 9x^{13} - 3x^{12} +$ $9x^{11} - 12x^9 + 9x^8 - 9x^7 -$ $3x^6 - 9x^5 + 9x^4 - 9x^3 - 9x^2 - 3$ | $x^{15} - 96$ | $\left[\begin{matrix} 5 \\ 2 \end{matrix} \right]_{10}^4$ | T: 15,4 | $\frac{59}{30}$ |
| $x^{15} - 9x^{14} + 9x^{13} + 9x^{12} -$ $9x^{10} + 12x^9 - 9x^7 - 3x^3 +$ $9x^2 - 9x - 12$ | $x^{15} - 60x^9 - 300x^6 + 5400x^3 - 15000$ | $\left[\begin{matrix} 21 & 21 & 21 \\ 10 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} + 9x^{14} + 12x^{12} + 9x^{10} -$ $3x^9 + 9x^8 + 9x^4 + 12x^3 - 9x + 6$ | $x^{15} + 300x^9 - 3000x^6 - 1920x^3 + 58800$ | $\left[\begin{matrix} 23 & 23 & 23 \\ 10 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{13} + 9x^{12} - 9x^{11} +$ $9x^9 + 9x^8 - 9x^7 + 12x^6 - 9x^3 +$ $9x^2 + 3$ | $x^{15} - 120x^{12} + 2520x^9 + 92610x^6 -$ $1111320x^3 - 29172150$ | $\left[\begin{matrix} 17 & 17 & 17 \\ 10 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,44 | $\frac{5419}{2430}$ |
| $x^{15} - 6x^{12} + 9x^{11} + 9x^{10} +$ $12x^9 + 9x^8 + 12x^6 + 9x^4 -$ $9x^3 + 9x^2 - 9x - 6$ | $x^{15} - 30x^{12} + 120x^9 - 1260x^6 +$ $1380x^3 - 1500$ | $\left[\begin{matrix} 23 & 23 & 23 \\ 10 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|---------------------|
| $x^{15} + 6x^{12} + 9x^{11} + 9x^{10} - 9x^9 - 9x^7 - 6x^6 + 9x^4 + 9x^3 + 9x^2 - 9x + 12$ | $x^{15} - 420x^{12} + 76440x^9 - 6174000x^6 + 236258400x^3 - 2823576000$ | $\left[\begin{array}{cc} 23 & 23 \\ 10 & 10 \end{array} \right] \left[\begin{array}{cc} 23 & 23 \\ 10 & 10 \end{array} \right] \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{13} - 12x^{12} + 9x^{11} - 9x^{10} - 12x^9 + 9x^7 + 9x^6 + 9x^5 + 12x^3 - 9x^2 + 9x - 6$ | $x^{15} - 9x^{12} + 36x^9 - 36x^6 + 18x^3 - 18$ | $\left[\begin{array}{cc} 21 & 21 \\ 10 & 10 \end{array} \right] \left[\begin{array}{cc} 21 & 21 \\ 10 & 10 \end{array} \right] \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} + 9x^{13} + 9x^{12} - 9x^{10} - 6x^9 + 9x^8 + 6x^6 - 9x^5 - 9x^4 + 6x^3 - 9x + 3$ | $x^{15} - 120x^{12} + 4680x^9 - 59040x^6 + 290880x^3 - 168000$ | $\left[\begin{array}{cc} 17 & 17 \\ 10 & 10 \end{array} \right] \left[\begin{array}{cc} 17 & 17 \\ 10 & 10 \end{array} \right] \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5419}{2430}$ |
| $x^{15} - 3x^{12} - 9x^{11} - 9x^{10} + 3x^9 - 9x^8 + 6x^6 + 9x^5 + 9x^4 - 3x^3 - 9x^2 - 9x + 3$ | $x^{15} - 105x^{12} + 5880x^9 - 144060x^6 + 2052855x^3 - 44118375$ | $\left[\begin{array}{cc} 21 & 21 \\ 10 & 10 \end{array} \right] \left[\begin{array}{cc} 21 & 21 \\ 10 & 10 \end{array} \right] \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1913}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|---------------------|
| $x^{15} - 6x^{14} + 42x^{13} + 52x^{12} - 2550x^{11} + 17310x^{10} - 73640x^9 - 395370x^8 + 3010050x^7 - 9155800x^6 - 2950050x^5 + 591306150x^4 - 872374750x^3 - 9280119750x^2 + 7335096000x + 49507577750$ | $x^{15} - 6x^{14} + 42x^{13} + 52x^{12} - 2550x^{11} + 17310x^{10} - 73640x^9 - 395370x^8 + 3010050x^7 - 9155800x^6 - 2950050x^5 + 591306150x^4 - 872374750x^3 - 9280119750x^2 + 7335096000x + 49507577750$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} + 6x^{12} - 9x^{11} - 9x^{10} + 9x^9 + 9x^8 - 9x^7 + 9x^6 + 9x^5 + 9x^4 + 3x^3 - 9x - 6$ | $x^{15} - 45x^{12} + 660x^9 - 3870x^6 + 405x^3 - 225$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{14} - 9x^{13} + 6x^{12} + 9x^{10} + 9x^9 + 9x^8 + 9x^7 - 6x^6 - 9x^5 + 9x^4 - 12x^3 + 9x + 3$ | $x^{15} - 105x^{12} - 840x^9 - 2250x^6 - 2475x^3 - 1125$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 9x^{12} + 9x^{10} + 6x^9 + 3x^6 + 9x^4 - 9x^3 + 9x + 6$ | $x^{15} - 105x^{12} - 11760x^9 + 2778300x^6 + 37275525x^3 + 132355125$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|---------------------|
| $x^{15} - 9x^{14} + 9x^{13} - 9x^{12} - 9x^{11} - 3x^9 + 9x^8 - 3x^6 + 9x^5 - 9x^2 - 9x - 3$ | $x^{15} - 30x^{12} + 240x^9 + 68400x^3 - 252000$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 9x^{13} + 6x^{12} - 9x^{10} + 12x^9 - 9x^8 - 9x^6 - 9x^5 - 9x^4 - 9x + 6$ | $x^{15} + 60x^9 - 180x^6 + 480x^3 - 600$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{14} - 9x^{13} + 6x^{12} + 9x^{11} + 9x^{10} + 6x^9 + 9x^8 - 9x^7 + 3x^6 + 9x^5 - 6x^3 + 9x - 6$ | $x^{15} - 420x^{12} + 61740x^9 - 4321800x^6 + 380318400x^3 - 2117682000$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} + 9x^{14} - 9x^{12} - 9x^{11} - 9x^{10} - 12x^9 + 9x^8 + 9x^7 + 9x^6 + 9x^5 + 9x^4 - 9x^3 - 9x^2 - 3$ | $x^{15} - 30x^{12} + 360x^9 - 1710x^6 + 12330x^3 - 3150$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|---------------------|
| $x^{15} + 9x^{13} + 9x^{11} - 9x^{10} +$ $6x^9 - 9x^8 + 9x^7 - 3x^6 - 9x^5 -$ $9x^4 - 3x^3 - 3$ | $x^{15} - 15x^{12} + 180x^9 - 2160x^6 +$ $8505x^3 - 10125$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{14} - 6x^{12} - 9x^{11} +$ $9x^{10} - 9x^8 - 9x^7 + 6x^6 + 9x^5 -$ $12x^3 + 9x + 12$ | $x^{15} - 6x^{14} + 6x^{13} - 65x^{12} - 714x^{11} +$ $516x^{10} + 12742x^9 + 72738x^8 +$ $153000x^7 + 254438x^6 - 195150x^5 -$ $381336x^4 - 1484179x^3 + 3683460x^2 +$ $6127476x + 15835583$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 12x^{12} - 9x^{11} -$ $9x^{10} + 9x^7 - 12x^6 - 9x^5 -$ $9x^3 + 9x^2 - 6$ | $x^{15} - 15x^{12} + 90x^9 - 750x^6 - 2475x^3 -$ 1875 | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} + 9x^{13} - 12x^{12} + 9x^{10} -$ $6x^9 - 9x^8 - 9x^4 + 6x^3 + 9x^2 - 3$ | $x^{15} - 210x^{12} - 17640x^9 + 2881200x^6 +$ $308288400x^3 + 1411788000$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|----------|---------------------|
| $x^{15} - 3x^{14} + 15x^{13} - 631693x^{12} + 592224x^{11} - 13620504x^{10} + 132794434384x^9 + 132714685152x^8 + 5315807202444x^7 + 943872370097212x^6 - 117520400455176072x^5 - 1032245687830540728x^4 - 829270736460752826076x^3 + 28106059235133751884564x^2 + 11087862617062578313068x - 180611603873736106332972836$ | | $\left[\begin{matrix} 23 & 23 & 23 & 23 \\ 10 & 10 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 9x^{13} + 3x^{12} - 9x^{11} - 9x^{10} + 12x^9 + 9x^8 + 3x^6 + 12x^3 - 9x^2 - 3$ | | | | |
| $x^{15} + 9x^{14} + 9x^{13} - 6x^{12} - 9x^{11} + 9x^{10} + 9x^8 - 9x^7 + 9x^6 + 9x^5 + 3x^3 - 12$ | | $\left[\begin{matrix} 23 & 23 & 23 & 23 \\ 10 & 10 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|---------------------|
| $x^{15} + 9x^{14} - 12x^{12} - 9x^{11} + 9x^{10} + 9x^8 - 9x^7 - 9x^6 - 9x^4 - 6x^3 + 9x^2 + 9x + 3$ | $x^{15} - 151263$ | $\left[\begin{array}{c} 5 \\ 2 \end{array} \right]_{10}^4$ | T: 15,4 | $\frac{59}{30}$ |
| $x^{15} - 9x^{12} - 9x^{11} - 9x^{10} + 9x^9 + 12x^6 - 9x^5 + 6x^3 + 9x^2 + 9x + 6$ | $x^{15} - 23940x^{12} + 123965100x^9 - 280219338000x^6 + 301586062522500x^3 - 126666146259450000$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{13} + 3x^{12} + 6x^9 + 9x^7 + 6x^3 + 9x^2 - 9x - 12$ | $x^{15} - 180x^9 + 6480x^3 - 16200$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} - 3x^9 + 3x^6 + 3x^3 - 3$ | $x^{15} - 210x^{12} + 47040x^9 - 5556600x^6 + 207446400x^3 + 1058841000$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 9x^{13} - 12x^{12} - 9x^{11} - 9x^{10} + 12x^9 + 9x^8 + 3x^6 - 9x^4 + 12x^3 - 9x^2 + 3$ | $x^{15} - 51x^{12} + 798x^9 - 9114x^6 + 13377x^3 - 7203$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|---------------------|
| $x^{15} - 9x^{14} + 9x^{13} + 6x^{12} +$ $9x^{11} - 9x^{10} + 3x^9 - 9x^8 -$ $9x^7 + 9x^6 + 9x^5 - 9x^4 - 9x^3 +$ $9x^2 - 9x - 12$ | $x^{15} - 15x^{12} + 150x^9 + 90x^6 - 495x^3 +$ 1125 | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right] \begin{array}{c} 4 \\ 5 \\ 2 \end{array} \Big]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{13} - 12x^{12} + 9x^{11} -$ $9x^{10} - 3x^9 - 9x^7 + 9x^6 + 9x^5 -$ $9x^4 - 3x^3 + 9x^2 - 9x - 12$ | $x^{15} - 210x^{12} + 8820x^9 + 740880x^6 -$ $57912120x^3 + 1058841000$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right] \begin{array}{c} 4 \\ 5 \\ 2 \end{array} \Big]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} + 9x^{14} + 9x^{13} - 9x^{12} -$ $9x^{11} + 9x^{10} - 9x^9 + 9x^8 - 9x^7 +$ $12x^6 + 9x^5 + 9x^4 - 3x^3 - 12$ | $x^{15} - 210x^{12} + 19110x^9 + 524790x^6 -$ $16855020x^3 + 264710250$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right] \begin{array}{c} 4 \\ 5 \\ 2 \end{array} \Big]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} - 9x^{13} - 3x^{12} +$ $9x^{11} + 6x^9 - 6x^6 - 6x^3 - 9x^2 +$ $9x + 6$ | $x^{15} - 210x^{12} + 17640x^9 - 740880x^6 +$ $15558480x^3 - 57177414$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right] \begin{array}{c} 4 \\ 5 \\ 2 \end{array} \Big]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|---------------------|
| $x^{15} + 9x^{14} - 9x^{13} - 3x^{12} - 9x^{11} - 9x^{10} - 12x^9 + 9x^8 - 9x^7 + 12x^6 + 9x^5 + 9x^4 + 9x^3 + 9x^2 - 9x - 3$ | $x^{15} - 75x^{12} + 1170x^9 - 7830x^6 + 24705x^3 - 30375$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{13} - 6x^{12} - 9x^{11} + 6x^9 + 6x^6 + 9x^5 + 9x^4 - 3x^3 + 9x^2 + 9x - 3$ | $x^{15} - 30x^{12} + 480x^9 - 6720x^6 + 47280x^3 - 117600$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{14} - 9x^{13} + 6x^{12} + 9x^{11} - 9x^{10} + 9x^7 - 12x^6 - 9x^5 + 6x^3 - 9x^2 - 9x + 6$ | $x^{15} - 60x^{12} + 1710x^9 + 21600x^6 + 67230x^3 + 85050$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} + 9x^{13} + 6x^{12} + 9x^{11} + 9x^9 + 9x^7 + 3x^6 + 9x^5 - 9x^3 + 9x^2 - 9x - 6$ | $x^{15} - 735x^{12} - 41160x^9 - 771750x^6 - 5942475x^3 - 18907875$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|---------------------|
| $x^{15} + 9x^{14} + 9x^{13} - 3x^{12} -$ $9x^{11} - 9x^{10} + 6x^9 + 9x^8 + 9x^7 +$ $9x^6 - 9x^5 + 9x^4 + 3x^3 - 9x^2 -$ $9x + 3$ | $x^{15} - 6x^{14} + 6x^{13} + 250x^{12} -$ $714x^{11} + 15006x^{10} + 25972x^9 +$ $830628x^8 + 699210x^7 + 13951898x^6 +$ $48094350x^5 + 51387654x^4 +$ $131405186x^3 + 209702910x^2 +$ $68670096x + 319469438$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]^4$ $\left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{14} + 9x^{13} - 9x^{12} +$ $9x^{10} - 6x^9 + 9x^8 - 9x^7 + 6x^6 -$ $9x^5 + 9x^4 - 6x^3 - 9x^2 - 12$ | $x^{15} - 105x^{12} - 92610x^6 - 3709545x^3 -$ 44118375 | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]^4$ $\left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 9x^{13} - 12x^{12} -$ $9x^{11} + 3x^9 - 9x^7 + 3x^6 - 9x^5 -$ $9x^4 + 3x^3 - 9x^2 + 9x - 12$ | $x^{15} - 15x^{12} + 90x^9 - 360x^6 + 855x^3 -$ 1125 | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]^4$ $\left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|---------------------|
| $x^{15} + 9x^{14} - 3x^{12} + 9x^{10} - 3x^9 + 9x^8 + 6x^6 + 9x^4 + 9x^2 + 9x - 6$ | $x^{15} - 30x^{12} + 210x^9 + 300x^6 + 2400x^3 - 1500$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| | $x^{15} - 3x^{14} + 15x^{13} - 552733x^{12} + 1658184x^{11} - 1658064x^{10} + 165499291324x^9 - 381904094628x^8 - 190877430096x^7 - 29021717286929168x^6 + 18485921506067088x^5 + 155662597696727472x^4 + 2588077921357364462624x^3 + 866296636712737342944x^2 + 11438152210315866762912x + 87678519000960640584716576$ | | | |
| $x^{15} + 9x^{13} + 6x^{12} - 9x^{11} + 9x^{10} + 6x^9 + 3x^6 + 9x^5 - 9x^4 + 3x^3 + 12$ | | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|---------------------|
| $x^{15} + 9x^{14} + 9x^{13} + 9x^{12} +$ $3x^9 + 9x^7 + 9x^6 - 9x^5 + 9x^4 +$ $3x^3 - 9x^2 - 6$ | $x^{15} - 30x^{12} - 240x^9 - 600x^6 - 600x^3 -$ 1500 | $\left[\begin{array}{ccc} \frac{23}{10} & \frac{23}{10} & \frac{23}{10} \\ & \frac{23}{10} & \frac{5}{2} \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 9x^{13} + 6x^{12} +$ $9x^{11} - 9x^{10} - 9x^9 - 9x^7 +$ $12x^6 + 9x^4 - 3x^3 - 9x + 12$ | $x^{15} - 12x^{12} + 36x^9 - 36x^3 - 144$ | $\left[\begin{array}{ccc} \frac{21}{10} & \frac{21}{10} & \frac{21}{10} \\ & \frac{21}{10} & \frac{5}{2} \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1913}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|---------------------|
| $x^{15} - 3x^{14} + 15x^{13} - 24163x^{12} -$ $214176x^{11} + 453696x^{10} +$ $437167384x^9 + 593315352x^8 +$ $1699053444x^7 + 354924256732x^6 -$ $3490973148072x^5 -$ $11247996312048x^4 +$ $1917017392555394x^3 +$ $7197032648670234x^2 +$ $10313301498661158x +$ 140105510998241314 | $x^{15} - 3x^{14} + 15x^{13} - 24163x^{12} -$ $214176x^{11} + 453696x^{10} +$ $437167384x^9 + 593315352x^8 +$ $1699053444x^7 + 354924256732x^6 -$ $3490973148072x^5 -$ $11247996312048x^4 +$ $1917017392555394x^3 +$ $7197032648670234x^2 +$ $10313301498661158x +$ 140105510998241314 | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} - 9x^{13} - 3x^{12} +$ $9x^{10} - 6x^9 - 9x^8 - 6x^6 + 9x^5 -$ $6x^3 - 9x^2 + 12$ | $x^{15} - 15x^{12} + 90x^9 - 150x^6 - 195x^3 - 75$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|---------------------|
| $x^{15} + 9x^{14} - 9x^{13} - 9x^{12} +$ $9x^{11} - 9x^{10} - 9x^8 + 9x^7 +$ $9x^4 + 6x^3 + 9x + 6$ | $x^{15} - 30x^{12} - 660x^9 - 2700x^6 +$ $5400x^3 - 2250$ | $\begin{bmatrix} 23 & 23 & 23 & 23 \\ 10 & 10 & 10 & 10 \end{bmatrix}^4 \Big]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} - 9x^{13} - 9x^{11} +$ $6x^9 + 9x^8 - 9x^7 - 3x^6 + 12x^3 -$ $9x^2 - 12$ | $x^{15} - 30x^{12} + 240x^9 - 540x^6 + 4680x^3 +$ 6300 | $\begin{bmatrix} 23 & 23 & 23 & 23 \\ 10 & 10 & 10 & 10 \end{bmatrix}^4 \Big]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{13} - 9x^{11} - 9x^9 + 9x^8 -$ $9x^7 + 3x^6 + 9x^4 + 12x^3 - 9x^2 +$ $9x - 6$ | $x^{15} - 126x^{12} + 1764x^9 + 123480x^6 -$ $5445468x^3 - 151263000$ | $\begin{bmatrix} 17 & 17 & 17 & 17 \\ 10 & 10 & 10 & 10 \end{bmatrix}^4 \Big]_{10}$ | T: 15,44 | $\frac{5419}{2430}$ |
| $x^{15} + 9x^{14} - 9x^{13} + 6x^{12} +$ $9x^8 - 3x^6 - 12x^3 - 9x^2 + 9x - 6$ | $x^{15} - 45x^{12} + 690x^9 - 3690x^6 +$ $1755x^3 - 225$ | $\begin{bmatrix} 23 & 23 & 23 & 23 \\ 10 & 10 & 10 & 10 \end{bmatrix}^4 \Big]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{13} + 12x^{12} - 3x^9 -$ $9x^7 + 9x^5 - 9x^4 - 3x^3 - 6$ | $x^{15} - 195x^{12} - 2310x^9 - 48510x^6 -$ $210945x^3 - 900375$ | $\begin{bmatrix} 23 & 23 & 23 & 23 \\ 10 & 10 & 10 & 10 \end{bmatrix}^4 \Big]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|---------------------|
| $x^{15} + 9x^{14} - 3x^{12} + 9x^{11} +$ $6x^9 - 9x^8 - 9x^7 + 3x^6 - 9x^5 +$ $6x^3 - 9x^2 + 9x + 3$ | $x^{15} - 15x^{12} + 45x^9 + 105x^6 - 105x^3 -$ 192 | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 6x^{12} + 9x^{10} - 12x^9 +$ $9x^8 - 9x^7 + 12x^6 - 9x^5 + 9x^4 +$ $12x^3 - 9x - 6$ | $x^{15} - 105x^{12} - 11760x^9 - 308700x^6 -$ 108045x ³ - 18907875 | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 3x^{12} - 9x^{10} - 12x^9 -$ $9x^8 - 9x^7 - 9x^4 + 6x^3 - 9x^2 -$ $9x + 6$ | $x^{15} - 60x^{12} + 270x^9 - 990x^6 + 2430x^3 -$ 3150 | $\left[\begin{array}{ccc} 17 & 17 & 17 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5419}{2430}$ |
| $x^{15} - 9x^{14} - 9x^{11} - 9x^{10} +$ $12x^9 + 9x^8 + 6x^6 + 9x^5 - 9x^4 +$ $9x^3 + 9x^2 - 3$ | $x^{15} - 9x^{12} + 24x^9 - 24x^6 + 9x^3 - 3$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|---------------------|
| $x^{15} - 9x^{13} - 9x^{11} - 9x^{10} -$ $12x^9 - 9x^7 + 9x^6 + 9x^5 + 6x^3 -$ $9x^2 + 3$ | $x^{15} - 45x^{12} + 690x^9 - 1500x^6 +$ $1275x^3 - 375$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{14} - 9x^{13} - 6x^{12} +$ $9x^{10} + 9x^7 + 9x^6 - 9x^5 - 3x^3 -$ 12 | $x^{15} - 15x^{12} - 240x^9 - 900x^6 - 45x^3 -$ 1125 | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{13} - 12x^{12} + 9x^{10} +$ $12x^9 - 9x^8 - 9x^7 - 12x^6 -$ $9x^5 + 9x^4 - 6x^3 - 9x + 12$ | $x^{15} - 168x^{12} + 12936x^9 - 255192x^6 +$ $1786344x^3 - 2823576$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{13} + 9x^{12} - 9x^{10} +$ $3x^9 + 9x^8 - 9x^7 + 9x^5 + 9x^4 +$ $9x^3 + 9x^2 - 9x + 6$ | $x^{15} - 105x^{12} - 4410x^9 - 514500x^6 -$ $4141725x^3 - 44118375$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|---------------------|
| $x^{15} - 12x^{12} - 9x^{10} + 3x^9 - 9x^8 - 9x^7 - 6x^6 + 9x^3 - 9x^2 - 9x + 3$ | $x^{15} - 30x^{12} + 540x^9 + 150x^6 - 2850x^3 - 3750$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right] \begin{array}{c} 4 \\ 5 \\ 2 \end{array} \Big]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{14} + 6x^9 - 9x^8 + 9x^4 - 3x^3 - 9x - 6$ | $x^{15} - 172872x^3 - 9680832$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right] \begin{array}{c} 4 \\ 5 \\ 2 \end{array} \Big]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} - 9x^{14} - 12x^{12} - 9x^{11} + 6x^9 - 9x^8 + 9x^7 + 3x^6 + 9x^4 - 3x^3 - 9x^2 - 9x - 6$ | $x^{15} + 1764x^9 - 197568x^6 + 2463426x^3 - 9680832$ | $\left[\begin{array}{ccc} 17 & 17 & 17 \\ 10 & 10 & 10 \end{array} \right] \begin{array}{c} 4 \\ 5 \\ 2 \end{array} \Big]_{10}$ | T: 15,44 | $\frac{5419}{2430}$ |
| $x^{15} + 9x^{13} - 3x^{12} - 9x^{11} + 9x^{10} - 12x^9 - 9x^8 + 9x^4 + 3x^3 - 9x^2 + 9x + 12$ | $x^{15} - 42x^{12} + 7056x^9 - 362208x^6 + 3803184x^3 - 11294304$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right] \begin{array}{c} 4 \\ 5 \\ 2 \end{array} \Big]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} - 9x^{13} + 3x^{12} - 6x^9 + 9x^8 - 6x^6 + 9x^5 - 9x^4 + 6$ | $x^{15} - 15x^{12} + 90x^9 - 210x^6 + 405x^3 - 375$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right] \begin{array}{c} 4 \\ 5 \\ 2 \end{array} \Big]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|---------------------|
| $x^{15} - 6x^{14} + 6x^{13} + 6340x^{12} -$ $27831x^{11} - 133602x^{10} +$ $19330156x^9 + 111115260x^8 -$ $240478317x^7 - 19457898778x^6 +$ $4447928202x^5 + 194721131964x^4 +$ $5806170990359x^3 -$ $27437050897350x^2 +$ $55572078436260x -$ 203797381728940 | $x^{15} - 6x^{14} + 6x^{13} + 6340x^{12} -$ $27831x^{11} - 133602x^{10} +$ $19330156x^9 + 111115260x^8 -$ $240478317x^7 - 19457898778x^6 +$ $4447928202x^5 + 194721131964x^4 +$ $5806170990359x^3 -$ $27437050897350x^2 +$ $55572078436260x -$ 203797381728940 | $\left[\begin{array}{c} \frac{23}{10} \quad \frac{23}{10} \quad \frac{23}{10} \\ \frac{11}{10} \quad \frac{11}{10} \quad \frac{11}{10} \end{array} \right]^4 \left[\begin{array}{c} \frac{5}{2} \\ \frac{5}{2} \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 9x^{13} - 12x^{12} -$ $9x^{11} + 9x^{10} - 9x^9 + 9x^7 + 3x^6 +$ $9x^4 - 6x^3 - 9x^2 + 12$ | $x^{15} - 6x^{14} + 6x^{13} + 250x^{12} - 1344x^{11} -$ $6414x^{10} + 41302x^9 + 271188x^8 +$ $668970x^7 + 1927718x^6 + 5841510x^5 +$ $6292254x^4 + 10718606x^3 +$ $68409030x^2 + 26797776x - 199653922$ | $\left[\begin{array}{c} \frac{11}{10} \quad \frac{11}{10} \quad \frac{11}{10} \\ \frac{11}{10} \quad \frac{11}{10} \quad \frac{11}{10} \end{array} \right]^4 \left[\begin{array}{c} \frac{5}{2} \\ \frac{5}{2} \end{array} \right]_{10}$ | T: 15,44 | $\frac{4939}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|---------------------|
| $x^{15} - 9x^{14} + 9x^{13} + 9x^{12} - 9x^{11} + 9x^{10} - 9x^9 + 9x^8 + 9x^7 - 9x^6 + 9x^5 - 9x^4 + 9x^2 + 12$ | $x^{15} - 126x^{12} + 7056x^9 - 98784x^6 + 691488x^3 - 9680832$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} - 9x^{14} - 9x^{13} + 9x^{10} + 3x^9 + 9x^8 + 9x^7 - 9x^6 + 9x^5 - 9x^3 - 9x^2 + 9x - 3$ | $x^{15} - 15x^{12} + 90x^9 - 1350x^6 + 2025x^3 - 10125$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} - 9x^{13} + 6x^{12} + 9x^{11} + 9x^{10} + 6x^9 - 3x^6 + 9x^5 - 9x^4 - 6x^3 - 9x + 12$ | $x^{15} - 210x^{12} + 19110x^9 - 926100x^6 + 23769900x^3 - 264710250$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{13} + 12x^{12} + 9x^{11} + 9x^{10} - 6x^9 - 9x^8 + 9x^7 + 6x^6 + 9x^5 - 9x^4 + 9x^3 - 9x - 6$ | $x^{15} - 15x^{12} + 90x^9 - 300x^6 + 525x^3 - 375$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|---------------------|
| $x^{15} - 9x^{14} - 9x^{13} - 9x^{12} -$ $9x^{10} + 12x^9 - 9x^8 - 3x^6 +$ $9x^5 + 12x^3 + 9x^2 - 9x - 6$ | $x^{15} - 3x^{14} + 15x^{13} - 118x^{12} -$ $1857x^{11} - 525x^{10} + 39811x^9 +$ $169020x^8 + 873981x^7 + 1358479x^6 -$ $49691343x^5 - 218164458x^4 +$ $755334440x^3 + 3526566612x^2 -$ $2764292772x - 16309248908$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ $\left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|---------------------|
| $x^{15} - 6x^{14} + 6x^{13} + 89290x^{12} - 1159311x^{11} + 4076058x^{10} + 17648114896x^9 - 307394983710x^8 + 2020418554383x^7 - 899453748759898x^6 + 5414739965221542x^5 - 20172605413513866x^4 - 26081058100169322721x^3 + 125105984117072427270x^2 - 110612526160023808500x - 169897030550413348108450$ | $x^{15} - 6x^{14} + 6x^{13} + 89290x^{12} - 1159311x^{11} + 4076058x^{10} + 17648114896x^9 - 307394983710x^8 + 2020418554383x^7 - 899453748759898x^6 + 5414739965221542x^5 - 20172605413513866x^4 - 26081058100169322721x^3 + 125105984117072427270x^2 - 110612526160023808500x - 169897030550413348108450$ | $\left[\begin{matrix} 23 & 23 & 23 & 23 \\ 10 & 10 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{13} - 9x^{10} - 3x^9 - 9x^7 + 9x^6 + 9x^5 + 9x^4 - 9x - 6$ | $x^{15} - 30x^{12} - 120x^9 - 90x^6 - 720x^3 - 2250$ | $\left[\begin{matrix} 23 & 23 & 23 & 23 \\ 10 & 10 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|---------------------|
| $x^{15} + 9x^{14} - 9x^{13} - 6x^{12} + 9x^{11} + 3x^9 - 9x^5 - 9x^4 + 6x^3 - 9x^2 + 9x - 12$ | $x^{15} + 240x^9 - 5400x^6 + 23400x^3 - 31500$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 9x^{13} + 9x^{12} + 3x^9 + 9x^7 + 9x^6 - 9x^5 - 9x^4 + 3x^3 + 12$ | $x^{15} - 45x^{12} + 60x^9 + 525x^3 - 1875$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{13} - 12x^{12} + 9x^{11} - 9x^{10} - 12x^9 + 9x^8 + 9x^7 - 9x^4 + 9x^3 - 9x^2 + 12$ | $x^{15} - 69x^{12} + 2016x^9 - 31164x^6 + 256221x^3 - 900375$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} + 9x^{14} + 9x^{10} - 12x^9 + 9x^8 + 9x^7 - 12x^6 + 9x^5 - 9x^4 - 9x^3 - 9x^2 - 9x - 3$ | $x^{15} - 126x^{12} + 6468x^9 - 160524x^6 + 1901592x^3 - 8470728$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|---------------------|
| $x^{15} - 9x^{14} + 9x^{13} - 9x^{10} - 9x^9 - 9x^8 + 9x^7 + 3x^6 + 9x^5 + 9x^4 - 6x^3 + 6$ | $x^{15} - 60x^9 - 480x^6 - 240x^3 - 96$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{14} + 9x^{13} - 9x^{11} + 9x^{10} + 12x^9 - 9x^8 - 9x^7 - 3x^6 + 9x^2 + 9x + 3$ | $x^{15} - 420x^{12} + 76440x^9 - 7408800x^6 + 380318400x^3 - 8470728000$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 3x^{12} - 9x^{11} + 9x^{10} + 3x^9 - 9x^8 - 6x^6 + 9x^4 + 9x^3 + 9x^2 + 9x - 12$ | $x^{15} - 120x^{12} + 90x^9 - 900x^6 + 2400x^3 - 1500$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 9x^{11} - 9x^{10} + 12x^9 - 9x^8 - 9x^7 - 9x^6 + 9x^5 + 9x^4 + 9x^3 - 3$ | $x^{15} - 168x^{12} + 14700x^9 - 617400x^6 + 10804500x^3 - 176473500$ | $\left[\begin{array}{ccc} 17 & 17 & 17 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5419}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|---------------------|
| $x^{15} + 9x^{14} - 9x^{13} + 12x^{12} - 9x^{11} - 9x^{10} - 3x^9 + 9x^8 - 9x^7 - 6x^6 + 9x^5 - 3x^3 - 9x^2 + 3$ | $x^{15} - 15x^{12} + 90x^9 - 510x^6 - 75x^3 - 3$ | $\begin{bmatrix} \frac{23}{10} & \frac{23}{10} & \frac{23}{10} & \frac{23}{10} \\ \frac{17}{10} & \frac{17}{10} & \frac{17}{10} & \frac{17}{10} \end{bmatrix}_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} - 6x^{12} + 9x^{10} + 3x^9 - 9x^7 + 12x^6 + 9x^5 + 9x^4 + 12x^3 + 9x^2 - 9x - 6$ | $x^{15} - 105x^{12} + 3750x^9 - 48750x^6 + 121875x^3 - 328125$ | $\begin{bmatrix} \frac{23}{10} & \frac{23}{10} & \frac{23}{10} & \frac{23}{10} \\ \frac{17}{10} & \frac{17}{10} & \frac{17}{10} & \frac{17}{10} \end{bmatrix}_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{12} + 9x^9 - 9x^8 + 9x^7 + 9x^6 + 9x^5 - 9x^4 - 9x^3 - 3$ | $x^{15} - 3x^{14} + 15x^{13} - 223x^{12} + 2553x^{11} - 7455x^{10} + 42541x^9 - 294345x^8 + 1015731x^7 - 4942361x^6 + 12870177x^5 - 20501013x^4 + 15818495x^3 + 76937667x^2 - 168647097x - 195383063$ | $\begin{bmatrix} \frac{17}{10} & \frac{17}{10} & \frac{17}{10} & \frac{17}{10} \\ \frac{17}{10} & \frac{17}{10} & \frac{17}{10} & \frac{17}{10} \end{bmatrix}_{10}^4$ | T: 15,44 | $\frac{5419}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|---------------------|
| $x^{15} - 9x^{14} - 9x^{11} - 9x^{10} +$ $9x^9 - 9x^8 + 9x^6 - 9x^5 + 9x^4 +$ $12x^3 + 9x^2 + 9x + 6$ | $x^{15} + 2940x^9 - 411600x^6 +$ $12965400x^3 - 176473500$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} - 9x^{13} - 6x^{12} - 9x^{11} +$ $9x^{10} + 9x^8 - 9x^6 - 9x^5 - 9x^4 -$ $6x^3 + 9x - 6$ | $x^{15} - 270x^{12} + 34650x^9 - 2425500x^6 +$ $54022500x^3 - 675281250$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} + 9x^{14} + 9x^{13} - 6x^{12} +$ $9x^{10} - 9x^9 + 9x^8 - 9x^7 - 9x^6 +$ $9x^5 - 9x^4 - 6x^3 + 9x^2 - 9x + 6$ | $x^{15} - 150x^{12} + 10080x^9 - 370440x^6 +$ $7223580x^3 - 58344300$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{14} - 9x^{12} + 9x^{11} -$ $9x^9 - 9x^6 - 9x^4 + 12x^3 - 9x^2 -$ $9x + 12$ | $x^{15} - 3x^{12} + 12x^9 - 18x^6 - 3x^3 + 21$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|---------------------|
| $x^{15} - 9x^{13} + 6x^{12} - 9x^{11} + 12x^9 - 9x^8 + 9x^7 + 12x^6 - 9x^4 + 6x^3 - 9x^2 - 6$ | $x^{15} - 60x^9 - 720x^6 + 2430x^3 - 2250$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{14} - 9x^{13} + 9x^{10} + 6x^9 + 9x^8 + 9x^7 - 12x^6 - 9x^5 - 12x^3 - 9x^2 - 9x + 6$ | $x^{15} - 420x^{12} - 63210x^9 + 31693200x^6 - 116688600x^3 + 176473500$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} + 9x^{14} + 9x^{12} + 9x^{11} + 9x^{10} + 3x^9 + 9x^8 - 9x^7 - 3x^6 - 9x^5 - 9x - 3$ | $x^{15} - 30x^{12} + 300x^9 - 1020x^6 + 480x^3 - 3000$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{13} - 6x^{12} + 6x^9 + 9x^7 - 3x^6 + 9x^5 + 6x^3 - 9x^2 - 9x + 3$ | $x^{15} - 105x^{12} + 4410x^9 + 154350x^6 - 5942475x^3 - 132355125$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} - 3x^{12} - 3x^9 + 9x^7 - 6x^6 + 9x^4 + 6x^3 - 9x^2 - 9x + 6$ | $x^{15} - 180x^{12} - 7560x^9 - 105840x^6 - 493920x^3 - 1080450$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|---------------------|
| $x^{15} + 9x^{14} - 3x^{12} + 9x^{11} - 9x^{10} - 9x^9 + 9x^8 + 9x^7 - 3x^6 - 9x^5 - 6x^3 + 9x^2 - 9x - 12$ | $x^{15} - 420x^{12} + 70560x^9 - 5927040x^6 + 248935680x^3 - 4084101000$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{14} + 12x^{12} - 9x^{11} + 9x^{10} - 6x^9 - 9x^8 - 6x^6 + 9x^5 + 9x^3 + 9x + 3$ | $x^{15} - 75x^{12} + 2310x^9 + 117600x^6 + 1023855x^3 + 900375$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|----------|---------------------|
| x^{15} | $-$ | | | |
| $6x^{14} + 6x^{13}$ | $-$ | | | |
| $210380x^{12} + 2061249x^{11}$ | $-$ | | | |
| $8333682x^{10} + 11121069616x^9$ | $-$ | | | |
| $148381646220x^8 + 964297019943x^7$ | $-$ | | | |
| $8138066113138x^6$ | $-$ | | | |
| $x^{15} + 9x^{14} + 3x^{12} + 9x^{11} +$ $9x^{10} - 12x^9 - 9x^8 - 9x^7 +$ $9x^5 - 9x^4 - 12x^3 - 3$ | $+$ | $\left[\begin{array}{c} \frac{23}{10} \quad \frac{23}{10} \\ \frac{23}{10} \quad \frac{23}{10} \end{array} \right]^4$ $\left[\begin{array}{c} \frac{5}{2} \\ 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $209332151122818x^5$ | $+$ | | | |
| $1654338315143964x^4$ | $+$ | | | |
| $59047948448030519x^3$ | $+$ | | | |
| $120795110230792890x^2$ | $-$ | | | |
| $417633367800897660x$ | $-$ | | | |
| 217342492011147361060 | | | | |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|---------------------|
| $x^{15} + 9x^{14} - 3x^{12} - 9x^{11} - 9x^{10} + 12x^9 - 9x^8 + 9x^7 + 9x^6 - 9x^5 - 9x^4 + 9x^3 - 9x^2 - 9x - 6$ | $x^{15} - 210x^{12} + 38220x^9 - 2263800x^6 + 48692280x^3 - 352947000$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right] \begin{array}{c} 4 \\ 5 \\ 2 \end{array} \Big]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 6x^{12} - 9x^{11} + 12x^9 - 9x^8 - 9x^7 - 6x^6 + 9x^5 - 9x^4 - 9x^3 - 9x^2 - 9x + 6$ | $x^{15} - 21x^{12} - 588x^9 + 24696x^6 - 280917x^3 + 1058841$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right] \begin{array}{c} 4 \\ 5 \\ 2 \end{array} \Big]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 9x^{13} - 9x^{12} - 9x^{10} - 3x^9 + 9x^8 - 6x^6 - 9x^5 - 9x^4 + 6x^3 - 9x^2 - 6$ | $x^{15} - 105x^{12} - 8820x^9 + 1852200x^6 - 57371895x^3 + 510512625$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right] \begin{array}{c} 4 \\ 5 \\ 2 \end{array} \Big]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{13} - 9x^{12} + 9x^{11} + 9x^{10} - 9x^9 - 9x^8 - 6x^6 - 9x^4 - 12x^3 - 9x^2 - 3$ | $x^{15} - 105x^{12} + 10290x^9 - 504210x^6 + 12353145x^3 - 121060821$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right] \begin{array}{c} 4 \\ 5 \\ 2 \end{array} \Big]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|---------------------|
| $x^{15} - 9x^{14} + 9x^{13} + 12x^{12} - 9x^{11} + 9x^{10} - 6x^9 + 9x^8 - 9x^7 - 6x^6 + 9x^4 + 9x^3 + 3$ | $x^{15} - 15x^{12} - 90x^9 + 1800x^6 - 2475x^3 + 1125$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} + 9x^{14} + 9x^{13} - 9x^{12} + 9x^{10} + 9x^8 + 6x^6 + 9x^5 + 9x^4 - 9x^2 - 9x + 6$ | $x^{15} + 330x^9 - 1440x^6 + 1980x^3 - 900$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 9x^{11} + 9x^{10} - 9x^8 + 9x^7 - 9x^6 + 9x^5 - 9x^4 + 6x^3 + 9x^2 + 9x + 12$ | $x^{15} - 90x^{12} + 3090x^9 - 47100x^6 + 235650x^3 + 656250$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} - 9x^{13} - 12x^9 + 9x^7 - 3x^6 + 9x^3 + 9x^2 - 6$ | $x^{15} - 84x^{12} + 3528x^9 - 55566x^6 - 691488x^3 - 2117682$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} - 9x^{14} - 9x^{13} + 6x^{12} - 9x^{11} - 9x^9 - 9x^8 - 9x^6 + 9x^5 + 3x^3 + 12$ | $x^{15} - 3675x^9 - 154350x^6 - 2701125x^3 - 18907875$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|---------------------|
| $x^{15} - 9x^{14} - 9x^{13} - 9x^{12} +$ $9x^{11} - 12x^9 - 9x^7 + 6x^6 -$ $9x^5 - 3x^3 + 9x^2 - 12$ | $x^{15} - 45x^{12} + 690x^9 - 2490x^6 - 435x^3 -$ 21 | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{14} - 3x^{12} - 9x^{10} -$ $12x^9 - 9x^7 + 9x^6 + 9x^5 - 9x^4 +$ $9x^3 - 9x - 6$ | $x^{15} - 525x^{12} + 57330x^9 - 2685690x^6 +$ $59316705x^3 - 510512625$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{13} + 12x^{12} - 9x^{11} +$ $12x^9 - 9x^8 + 3x^6 - 9x^5 +$ $12x^3 - 9x + 12$ | $x^{15} - 315x^{11} - 27x^{10} + 4620x^9 +$ $2835x^8 - 66150x^7 - 218610x^6 +$ $211923x^5 + 2212245x^4 + 3282615x^3 +$ $410130x^2 - 1037610x + 362655$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{14} - 9x^{13} - 9x^{11} -$ $9x^{10} + 6x^9 - 9x^8 + 9x^7 +$ $12x^6 - 9x^5 + 12x^3 - 9x^2 +$ $9x - 3$ | $x^{15} - 405x^{12} + 45990x^9 - 992250x^6 +$ $4862025x^3 + 24310125$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|---------------------|
| $x^{15} + 12x^{12} + 9x^{11} + 9x^{10} +$ $9x^8 - 9x^7 - 3x^6 + 9x^5 + 6x^3 -$ $9x^2 - 3$ | $x^{15} - 420x^{12} + 58800x^9 - 3642660x^6 +$ $101994480x^3 - 1058841000$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{13} - 9x^{12} - 9x^{11} -$ $9x^{10} + 6x^9 + 9x^8 - 9x^7 +$ $12x^6 + 9x^5 - 9x^4 + 3x^3 - 9x^2 +$ $9x + 3$ | $x^{15} - 420x^{12} + 92610x^9 -$ $15126300x^6 + 1482377400x^3 -$ 60530410500 | $\left[\begin{array}{ccc} 17 & 17 & 17 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5419}{2430}$ |
| $x^{15} - 9x^{14} - 9x^{13} + 6x^{12} +$ $9x^{11} - 9x^{10} + 3x^9 - 9x^8 + 9x^7 -$ $12x^6 + 9x^5 - 6x^3 + 9x + 6$ | $x^{15} - 240x^{12} + 15750x^9 - 449820x^6 +$ $7223580x^3 - 145860750$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} - 12x^{12} - 9x^{10} + 12x^9 -$ $9x^8 - 9x^7 + 6x^6 + 9x^5 - 9x^4 +$ $3x^3 - 9x^2 + 6$ | $x^{15} - 420x^{12} + 51450x^9 - 1790460x^6 +$ $63098280x^3 + 264710250$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|---------------------|
| $x^{15} + 6x^{12} - 9x^{11} - 9x^{10} +$ $3x^9 - 9x^8 - 9x^7 - 9x^6 - 9x^5 +$ $3x^3 + 9x - 6$ | $x^{15} - 30x^{12} + 360x^9 - 2100x^6 +$ $5400x^3 - 3000$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} + 9x^{13} - 9x^{12} + 9x^{10} +$ $6x^9 - 6x^6 - 9x^5 - 9x^4 + 9x^3 -$ $9x + 12$ | $x^{15} - 30x^{12} + 180x^9 + 840x^6 - 1680x^3 -$ 6144 | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 9x^{13} - 9x^{11} +$ $12x^9 - 9x^7 + 12x^6 + 9x^4 +$ $9x^3 + 9x^2 + 9x + 12$ | $x^{15} - 180x^{12} + 11760x^9 - 352800x^6 +$ $5762400x^3 - 57624000$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{13} + 12x^{12} + 6x^9 +$ $9x^8 + 9x^7 + 3x^6 + 9x^5 - 9x^4 -$ $9x^3 - 12$ | $x^{15} - 3x^{12} + 36x^9 - 132x^6 + 99x^3 - 21$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|---------------------|
| $x^{15} - 12x^{12} + 9x^{10} - 3x^9 +$ $9x^8 - 9x^7 + 6x^6 - 9x^5 - 9x^4 +$ $3x^3 - 9x^2 + 9x - 3$ | $x^{15} - 6x^{14} + 42x^{13} + 52x^{12} -$ $1920x^{11} + 7230x^{10} - 4760x^9 -$ $154080x^8 + 941760x^7 - 1199320x^6 -$ $12097020x^5 + 66029160x^4 +$ $42787400x^3 - 682672920x^2 +$ $24999360x + 2261030360$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_4$ $\left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} - 9x^{14} - 9x^{13} + 6x^{12} -$ $9x^{10} + 9x^9 + 9x^8 + 9x^6 - 9x^5 +$ $9x^4 + 6x^3 - 9x^2 + 9x + 12$ | $x^{15} - 3x^{12} - 378x^9 + 5292x^6 -$ $27783x^3 + 194481$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4$ $\left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 9x^{13} - 12x^{12} +$ $9x^{11} + 9x^{10} - 12x^9 - 9x^8 -$ $9x^7 - 6x^3 - 9x^2 + 6$ | $x^{15} + 60x^9 - 600x^6 - 600x^3 - 21000$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4$ $\left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|---------------------|
| $x^{15} - 9x^{14} - 9x^{13} - 12x^{12} +$ $9x^{11} + 9x^{10} + 12x^9 + 9x^8 -$ $9x^7 - 6x^6 - 9x^5 - 9x^4 + 9x^3 +$ $9x - 6$ | $x^{15} - 2940x^9 + 1728720x^3 - 16941456$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} - 9x^{13} + 3x^{12} -$ $9x^{11} + 9x^{10} + 9x^9 - 9x^8 + 3x^6 -$ $9x^5 - 9x^4 + 3x^3 + 9x + 6$ | $x^{15} - 6x^{14} + 6x^{13} + 355x^{12} - 2604x^{11} +$ $4296x^{10} + 22612x^9 - 154062x^8 +$ $391140x^7 + 2896658x^6 + 3633990x^5 +$ $13848474x^4 + 39103781x^3 +$ $34806090x^2 + 65928966x + 106756763$ | $\left[\begin{array}{ccc} 17 & 17 & 17 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5419}{2430}$ |
| $x^{15} - 9x^{12} - 9x^{11} + 9x^9 - 9x^8 -$ $12x^6 - 9x^5 - 9x^4 - 9x^3 + 9x^2 -$ $9x - 3$ | $x^{15} - 336x^{12} + 44688x^9 - 2733024x^6 +$ $62694912x^3 + 90354432$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|---------------------|
| $x^{15} + 9x^{13} - 9x^{12} + 9x^{11} -$ $3x^9 - 9x^8 + 9x^6 + 9x^5 + 9x^4 -$ $12x^3 - 6$ | $x^{15} - 30x^{12} + 300x^9 - 1800x^6 +$ $6000x^3 - 12000$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{13} - 9x^{12} - 9x^{11} +$ $9x^{10} - 9x^9 + 9x^8 + 9x^7 + 6x^6 -$ $9x^5 - 9x^4 - 9x^3 - 9x + 3$ | $x^{15} - 3x^{14} + 15x^{13} - 31513x^{12} -$ $25176x^{11} - 327504x^{10} +$ $471388984x^9 + 38222352x^8 +$ $10327243644x^7 + 2349233457532x^6 -$ $7362519758472x^5 -$ $64140653719848x^4 +$ $3770882437414844x^3 +$ $11556853456762284x^2 +$ $16314997564926708x +$ 556600586117337364 | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|---------------------|
| $x^{15} - 9x^{14} + 9x^{13} + 9x^{12} -$ $9x^{11} - 9x^{10} - 6x^9 - 9x^8 -$ $9x^7 - 12x^6 + 3x^3 - 9x^2 - 3$ | $x^{15} - 6x^{14} + 6x^{13} + 250x^{12} + 7476x^{11} -$ $10194x^{10} + 174862x^9 + 1622538x^8 +$ $10101960x^7 - 98420572x^6 -$ $327174600x^5 - 432030876x^4 +$ $20573696x^3 + 493814640x^2 +$ $352115916x - 490942612$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]^4$ $\left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 9x^{13} + 9x^{12} +$ $9x^{11} + 9x^{10} + 3x^9 - 9x^8 + 9x^7 -$ $12x^6 - 3x^3 + 9x^2 - 9x + 6$ | $x^{15} - 3$ | $\left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]^4_{10}$ | T: 15,4 | $\frac{59}{30}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|---------------------|
| | $x^{15} - 6x^{14} + 6x^{13} - 526010x^{12} +$ $5153289x^{11} - 20834142x^{10} +$ $69453579796x^9 - 927411884010x^8 +$ $6027127330383x^7 -$ $91266969182098x^6 -$ $3364821100007958x^5 +$ $26017257919848834x^4 +$ $2421712537255070729x^3 +$ $4556674786789795170x^2 -$ $16213372391115698700x -$ 21228213257286609581650 | $\left[\begin{matrix} 23 & 23 & 23 & 23 \\ 10 & 10 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 9x^{13} + 3x^{12} +$ $9x^{10} + 12x^9 + 9x^7 + 3x^6 -$ $9x^5 + 9x^4 - 12x^3 + 9x^2 + 6$ | | | | |
| $x^{15} - 9x^{14} - 9x^{13} + 12x^{12} +$ $9x^{10} + 9x^9 + 9x^7 + 6x^6 - 9x^5 +$ $9x^4 - 9x^3 - 9x^2 + 9x - 6$ | $x^{15} - 15x^{12} + 120x^9 - 450x^6 + 555x^3 +$ 375 | $\left[\begin{matrix} 23 & 23 & 23 & 23 \\ 10 & 10 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|---------------------|
| $x^{15} - 9x^{14} - 9x^{13} + 3x^{12} +$ $9x^{10} + 9x^9 - 3x^6 - 9x^4 - 6x^3 -$ 3 | $x^{15} - 15x^{12} - 90x^9 - 1500x^6 - 1725x^3 -$ 2625 | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{13} - 9x^{11} - 9x^{10} -$ $6x^9 + 9x^8 - 6x^6 - 9x^5 + 12x^3 +$ $9x^2 + 3$ | $x^{15} - 48300x^{12} - 2159062500x^9 +$ $76715808750000x^6 -$ $274596423773437500x^3 +$ 84921690016173281250000 | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 12x^{12} + 9x^{10} +$ $12x^9 + 9x^8 - 9x^6 + 9x^4 -$ $12x^3 + 9x^2 - 9x + 12$ | $x^{15} - 3x^{12} + 12x^9 - 36x^6 + 36x^3 - 12$ | $\left[\begin{array}{ccc} 17 & 17 & 17 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5419}{2430}$ |
| $x^{15} + 9x^{13} - 12x^{12} + 9x^{11} -$ $9x^{10} - 12x^9 + 9x^8 - 9x^7 +$ $6x^6 - 9x^5 + 9x^4 + 6x^3 - 9x^2 +$ $9x - 6$ | $x^{15} - 105x^{12} + 2940x^9 + 15435x^6 -$ 151263 | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|---------------------|
| $x^{15} - 9x^{14} - 9x^{12} - 9x^{11} + 9x^{10} + 9x^9 + 9x^8 - 3x^6 + 9x^5 + 9x^4 - 3x^3 - 9x - 12$ | $x^{15} - 1470x^{12} + 811440x^9 - 204112440x^6 + 22565630430x^3 - 893397093750$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} + 9x^{14} + 9x^{13} - 12x^{12} - 9x^{11} + 12x^9 - 9x^7 - 12x^6 + 9x^4 - 9x^3 + 9x + 6$ | $x^{15} - 6x^{14} + 6x^{13} + 17680x^{12} - 194151x^{11} - 211722x^{10} + 460795516x^9 + 1315520280x^8 + 4191007203x^7 - 3302595496378x^6 - 36981638480118x^5 - 82607603944416x^4 - 481698286418281x^3 - 58958695746203550x^2 - 23716015605959340x - 70151080504012802440$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|---------------------|
| $x^{15} - 9x^{14} + 9x^{13} + 9x^{12} - 9x^{11} - 9x^{10} + 9x^9 + 9x^8 - 9x^7 - 9x^6 - 9x^5 - 9x^4 + 3x^3 + 9x^2 + 9x - 6$ | $x^{15} - 345x^{12} + 25410x^9 + 992250x^6 + 1003275x^3 + 900375$ | $\left[\begin{array}{ccc} 17 & 17 & 17 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5419}{2430}$ |
| $x^{15} - 9x^{13} - 6x^{12} + 9x^{11} - 9x^{10} - 6x^6 - 9x^5 + 9x^4 - 9x^3 - 9x + 12$ | $x^{15} - 27x^{12} + 7350x^6 - 128625x^3 + 900375$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} - 9x^{13} + 9x^{10} + 9x^8 + 12x^6 + 9x^4 - 9x^3 + 9x + 3$ | $x^{15} - 15x^{12} - 30x^6 + 105x^3 - 75$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{13} + 6x^{12} - 9x^9 + 9x^8 + 9x^7 + 12x^6 + 9x^4 - 3x^3 - 9x^2 + 12$ | $x^{15} - 525x^{12} + 70560x^9 + 370440x^6 - 144888345x^3 - 3573588375$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|---------------------|
| $x^{15} + 9x^{14} - 9x^{12} - 9x^{11} +$ $9x^{10} + 12x^9 + 9x^7 - 3x^6 -$ $9x^5 - 9x^4 + 12x^3 + 9x^2 - 6$ | $x^{15} - 630x^{12} + 157290x^9 -$ $19911150x^6 + 1271689650x^3 -$ 33088781250 | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{14} + 9x^{13} + 3x^{12} +$ $9x^{11} - 9x^{10} + 3x^9 - 9x^8 + 9x^7 -$ $3x^6 - 9x^5 + 9x^3 - 9x^2 + 9x + 6$ | $x^{15} - 21x^{12} + 588x^9 - 6174x^6 -$ $7203x^3 + 352947$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 9x^{13} + 6x^{12} +$ $9x^{11} + 9x^{10} + 6x^9 - 9x^8 - 9x^7 -$ $9x^6 - 9x^5 - 6x^3 + 9x - 6$ | $x^{15} - 15x^6 + 45x^3 - 24$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} - 9x^{14} - 6x^{12} + 9x^{10} +$ $6x^9 + 9x^8 + 9x^6 - 9x^5 - 9x^4 -$ $6x^3 + 9x^2 - 9x + 3$ | $x^{15} - 30x^{12} + 120x^9 + 2160x^6 -$ $7920x^3 + 7200$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|---------------------|
| $x^{15} + 9x^{13} - 6x^{12} + 9x^{11} +$ $9x^{10} - 3x^9 - 9x^8 - 9x^7 + 9x^5 +$ $9x^4 - 12x^3 + 3$ | $x^{15} - 105x^{12} + 17640x^9 + 1852200x^6 +$ $53482275x^3 + 510512625$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 9x^{13} + 9x^{12} -$ $9x^{11} + 9x^{10} + 12x^9 - 9x^8 +$ $3x^6 - 9x^5 - 9x^4 + 9x^3 - 9x^2 -$ $9x - 12$ | $x^{15} - 420x^{12} + 70560x^9 - 6482700x^6 +$ $272273400x^3 - 4084101000$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{14} + 3x^{12} - 9x^{11} +$ $12x^9 - 9x^7 + 12x^6 - 9x^5 +$ $9x^4 + 9x^2 + 6$ | $x^{15} - 30x^{12} + 360x^9 - 1800x^6 +$ $5400x^3 - 9000$ | $\left[\begin{array}{ccc} 17 & 17 & 17 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5419}{2430}$ |
| $x^{15} - 9x^{14} - 9x^{13} + 6x^{12} -$ $9x^{11} - 9x^8 + 9x^7 - 6x^6 - 9x^4 -$ $9x^2 - 9x - 3$ | $x^{15} - 15x^{12} + 180x^9 - 1080x^6 +$ $4455x^3 - 2025$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|---------------------|
| $x^{15} + 9x^{14} - 9x^{13} + 6x^{12} + 9x^{10} - 6x^9 - 9x^7 - 6x^6 + 9x^5 - 9x^4 + 9x + 6$ | $x^{15} - 315x^{12} + 33810x^9 - 854070x^6 - 1044435x^3 - 352947$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{ccc} 5 & & \\ & 2 & \\ & & 10 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{14} - 9x^{13} + 12x^{12} - 9x^{10} - 3x^9 + 9x^6 + 6x^3 - 9x^2 - 3$ | $x^{15} - 3x^{14} + 15x^{13} + 197387x^{12} + 24x^{11} - 3553104x^{10} - 2418841016x^9 + 260539870752x^8 - 1453831161156x^7 - 410885114902068x^6 + 34207715671101528x^5 - 118807698196971048x^4 - 275218631861314035556x^3 + 1411837271728557893484x^2 - 2525383983419629384308x - 5438003716343730230451836$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{ccc} 5 & & \\ & 2 & \\ & & 10 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|---------------------|
| $x^{15} - 9x^{14} - 9x^{13} + 6x^{12} -$ $9x^{11} + 12x^9 + 9x^8 - 9x^7 +$ $3x^6 + 9x^5 - 9x^4 - 9x^3 + 9x^2 + 6$ | $x^{15} - 9x^{12} + 54x^9 - 54x^6 - 81x^3 + 567$ | $\left[\begin{array}{ccc} 17 & 17 & 17 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5419}{2430}$ |
| $x^{15} + 9x^{14} - 9x^{12} - 9x^{11} +$ $9x^7 + 3x^6 - 9x^5 - 9x^4 - 12x^3 +$ $9x^2 - 3$ | $x^{15} - 3x^{14} + 15x^{13} - 853x^{12} + 2553x^{11} -$ $22575x^{10} + 271231x^9 + 509535x^8 -$ $2474469x^7 - 14372201x^6 -$ $124521483x^5 - 264133983x^4 +$ $3858765995x^3 + 9973887387x^2 -$ $25500069507x - 90384004523$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|---------------------|
| $x^{15} - 3x^{14} + 15x^{13} - 25213x^{12} +$ $63024x^{11} - 239304x^{10} +$ $193970584x^9 - 32791248x^8 -$ $2604148956x^7 - 513908218268x^6 -$ $1494035436072x^5 -$ $10077789733248x^4 +$ $1530629861473394x^3 +$ $12566557937540634x^2 -$ $38702634786733242x -$ 8667892459343507186 | $x^{15} - 3x^{14} + 15x^{13} - 25213x^{12} +$ $63024x^{11} - 239304x^{10} +$ $193970584x^9 - 32791248x^8 -$ $2604148956x^7 - 513908218268x^6 -$ $1494035436072x^5 -$ $10077789733248x^4 +$ $1530629861473394x^3 +$ $12566557937540634x^2 -$ $38702634786733242x -$ 8667892459343507186 | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{14} - 9x^{13} + 9x^{12} +$ $9x^9 - 9x^7 - 12x^6 + 9x^3 + 9x^2 -$ $9x - 12$ | $x^{15} - 30x^{12} + 360x^9 - 2160x^6 +$ $6480x^3 - 8100$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|---------------------|
| $x^{15} + 9x^{13} - 9x^{11} + 9x^{10} - 9x^8 - 9x^6 - 9x^5 - 9x^4 - 9x^3 + 9x^2 + 9x + 12$ | $x^{15} - 30x^{12} + 360x^9 - 4080x^6 - 1200x^3 - 96$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{13} + 9x^{12} + 9x^{10} + 6x^9 + 9x^8 + 9x^7 + 12x^6 - 9x^5 + 9x^4 + 9x^3 - 9x^2 + 3$ | $x^{15} - 315x^{12} + 48510x^9 - 1800750x^6 + 4862025x^3 - 44118375$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} + 9x^{14} + 3x^{12} + 9x^{11} - 9x^{10} + 3x^9 + 9x^8 - 9x^7 + 9x^6 + 9x^4 + 3x^3 + 9x + 6$ | $x^{15} - 15x^{12} + 150x^9 - 390x^6 + 405x^3 - 75$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} - 9x^{14} - 9x^{13} + 12x^{12} + 9x^{11} - 9x^9 - 9x^7 - 9x^6 - 9x^4 + 3x^3 + 9x^2 + 9x - 3$ | $x^{15} - 60x^{12} + 1260x^9 - 12600x^6 + 158400x^3 - 126000$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|---------------------|
| $x^{15} - 9x^{14} - 9x^{13} + 3x^{12} + 9x^{11} + 9x^{10} + 3x^9 + 9x^7 + 9x^6 + 9x^5 + 9x^4 + 3x^3 - 9x^2 - 12$ | $x^{15} - 600x^{12} + 119490x^9 - 8026200x^6 - 926100x^3 - 54022500$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} - 6x^{12} - 9x^{11} + 9x^8 - 9x^7 - 9x^6 + 9x^5 + 9x^3 + 9x^2 + 3$ | $x^{15} - 30x^{12} + 240x^9 - 120x^6 + 1440x^3 - 96$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} + 9x^{13} - 12x^{12} + 9x^{10} + 3x^9 - 9x^6 - 9x^3 - 9x^2 - 6$ | $x^{15} - 120x^6 + 720x^3 - 768$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} - 9x^{14} - 9x^{13} - 12x^{12} + 9x^{11} + 9x^{10} - 9x^9 + 9x^8 - 9x^7 - 9x^5 - 9x^4 - 12x^3 + 3$ | $x^{15} + 120x^9 - 2160x^6 + 10080x^3 - 14400$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 6x^{12} - 9x^{10} + 9x^8 - 9x^7 + 6x^6 - 9x^5 + 9x^4 - 12x^3 - 9x - 3$ | $x^{15} - 735x^{12} + 224910x^9 - 25622100x^6 - 97780725x^3 - 132355125$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_{10}^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|---------------------|
| $x^{15} + 9x^{14} - 6x^{12} + 9x^{11} +$ $9x^{10} + 9x^9 + 9x^8 + 3x^6 - 9x^5 +$ $9x^2 - 9x - 12$ | $x^{15} - 9660x^{12} - 86362500x^9 +$ $613726470000x^6 -$ $439354278037500x^3 +$ 27174940805175450000 | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]^4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 9x^{13} + 3x^{12} +$ $12x^9 - 9x^8 - 9x^7 + 3x^6 - 9x^5 -$ $9x^4 + 12x^3 - 9x^2 - 9x - 12$ | $x^{15} + 210x^9 - 450x^6 + 900x^3 - 2250$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]^4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{14} - 9x^{13} + 9x^{10} -$ $3x^9 - 9x^8 - 3x^6 + 3x^3 - 9x - 12$ | $x^{15} - 210x^{12} + 11760x^9 - 463050x^6 +$ $7275030x^3 - 88236750$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]^4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{13} + 3x^{12} - 9x^{11} +$ $9x^{10} - 6x^9 + 9x^8 + 9x^7 + 9x^6 -$ $9x^5 + 9x^3 - 3$ | $x^{15} - 3x^{12} - 42x^9 + 882x^6 - 3087x^3 +$ 7203 | $\left[\begin{array}{ccc} 17 & 17 & 17 \\ 10 & 10 & 10 \end{array} \right]^4 \left[\begin{array}{cc} 5 & 5 \\ 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5419}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|---------------------|
| $x^{15} - 9x^{14} - 9x^{13} - 12x^{12} - 9x^{10} + 12x^9 - 9x^8 - 6x^6 - 12x^3 + 9x^2 - 9x - 12$ | $x^{15} - 24x^{12} + 108x^9 - 96x^6 - 126x^3 - 96$ | $\begin{bmatrix} 21 & 21 & 21 & 21 \\ 10 & 10 & 10 & 10 \end{bmatrix}^4$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} + 9x^{14} + 9x^{13} + 9x^{12} - 9x^{11} + 9x^{10} - 12x^9 - 9x^8 - 9x^7 + 9x^5 - 9x^4 - 9x^3 + 9x^2 + 3$ | $x^{15} - 45x^6 + 45x^3 + 72$ | $\begin{bmatrix} 21 & 21 & 21 & 21 \\ 10 & 10 & 10 & 10 \end{bmatrix}^4$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} - 9x^{14} + 9x^{12} - 9x^{11} + 9x^8 + 9x^4 - 9x^3 - 9x^2 + 6$ | $x^{15} - 15435x^6 + 108045x^3 + 1210104$ | $\begin{bmatrix} 21 & 21 & 21 & 21 \\ 10 & 10 & 10 & 10 \end{bmatrix}^4$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} + 9x^{13} + 9x^{12} + 9x^{11} - 9x^8 + 12x^6 + 9x^5 + 9x^4 - 12x^3 + 9x^2 + 9x + 12$ | $x^{15} - 60x^{12} + 840x^9 + 20580x^6 - 699720x^3 + 7203000$ | $\begin{bmatrix} 23 & 23 & 23 & 23 \\ 10 & 10 & 10 & 10 \end{bmatrix}^4$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{14} - 9x^{13} + 12x^{12} + 9x^{11} + 9x^{10} - 9x^9 + 9x^7 - 3x^6 + 9x^5 + 9x^4 + 6x^3 - 12$ | $x^{15} + 180x^9 - 240x^6 + 240x^3 - 96$ | $\begin{bmatrix} 23 & 23 & 23 & 23 \\ 10 & 10 & 10 & 10 \end{bmatrix}^4$ | T: 15,44 | $\frac{5899}{2430}$ |

Continued on next page

Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS | |
|---|---|---|---|---------------------|---------------------|
| $x^{15} - 6x^{12} - 9x^{10} + 12x^9 - 9x^8 - 3x^6 - 9x^5 - 9x^4 + 12x^3 - 9x - 6$ | $x^{15} - 3x^{14} + 15x^{13} + 36527x^{12} +$ $126024x^{11} + 161376x^{10} +$ $1235156044x^9 + 1368284652x^8 +$ $23860665504x^7 - 8837038753568x^6 +$ $87772684316208x^5 +$ $110206631566032x^4 +$ $37466414789969504x^3 -$ $239415034352810016x^2 +$ $365097976445472288x -$ 95289787637250195296 | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_5 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_2 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_2 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_2 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_2$ | T: 15,44 | $\frac{5899}{2430}$ | |
| | $x^{15} - 9x^{14} + 6x^{12} - 9x^9 - 9x^7 + 3x^6 + 9x^4 + 3x^3 - 9x^2 - 9x + 12$ | $x^{15} - 55860x^{12} + 674921100x^9 -$ $3559823442000x^6 +$ $8939606618722500x^3 -$ 8760814486348050000 | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_5 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_2 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_2 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_2 \left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_2$ | T: 15,44 | $\frac{5899}{2430}$ |
| | | Continued on next page | | | |

Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|---------------------|
| $x^{15} - 9x^{14} - 9x^{13} - 6x^{12} -$ $9x^{10} + 9x^8 - 12x^6 + 9x^3 +$ $9x^2 + 9x + 6$ | $x^{15} - 6x^{14} + 6x^{13} + 880x^{12} - 7014x^{11} +$ $17526x^{10} + 257602x^9 - 2825262x^8 +$ $10642500x^7 + 9916748x^6 -$ $386501700x^5 + 2048478204x^4 -$ $5606593444x^3 + 5697397920x^2 +$ $13482752316x + 5112923348$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|---------------------|
| $x^{15} - 9x^{14} - 9x^{13} - 9x^{12} - 9x^{11} - 3x^9 - 9x^7 + 3x^6 - 9x^5 + 9x^4 + 9x^3 + 9x^2 + 9x + 3$ | $x^{15} - 6x^{14} + 6x^{13} - 1052060x^{12} + 10306689x^{11} - 41668242x^{10} + 277743514096x^9 - 3709682997660x^8 + 24108870591783x^7 - 634426134155698x^6 - 27169251877881858x^5 + 208586650552450284x^4 + 39363764936798089079x^3 - 72041558683535042970x^2 - 258877374711564647100x + 679338271928342961697300$ | $\left[\begin{matrix} 23 & 23 & 23 & 23 \\ 10 & 10 & 10 & 10 \end{matrix} \right]_{10}^4$ | T: 15,44 | $\frac{5899}{2430}$ |

Continued on next page

Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|---------------------|
| $x^{15} - 9x^{14} - 3x^{12} + 9x^{11} - 3x^9 + 9x^8 - 3x^6 - 9x^5 - 9x^4 + 6x^3 - 9x - 6$ | $x^{15} - 15x^{12} + 60x^9 - 225x^3 + 375$ | $\left[\begin{array}{ccc} 17 & 17 & 17 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5419}{2430}$ |
| $x^{15} - 9x^{14} - 9x^{13} - 6x^{12} + 9x^{10} - 9x^9 + 9x^8 - 9x^7 + 3x^6 + 9x^5 + 9x^4 - 12x^3 - 9x^2 - 9x - 6$ | $x^{15} - 42x^{12} - 1764x^9 + 49392x^6 + 2074464x^3 + 16941456$ | $\left[\begin{array}{ccc} 17 & 17 & 17 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5419}{2430}$ |
| $x^{15} + 9x^{12} + 9x^{10} + 3x^9 + 9x^8 - 6x^6 - 9x^4 + 12x^3 - 9x - 6$ | $x^{15} - 60x^{12} + 1890x^9 - 66150x^6 + 4445280x^3 + 48620250$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} - 9x^{14} + 9x^{12} - 9x^{11} + 9x^{10} + 9x^9 + 9x^7 + 12x^6 - 9x^5 + 9x^4 + 3x^3 - 9x^2 - 9x + 3$ | $x^{15} - 15x^{12} - 90x^9 + 1050x^6 + 8025x^3 + 2625$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} + 6x^{12} - 9x^{11} - 9x^9 - 9x^6 + 9x^5 + 9x^3 - 9x^2 + 3$ | $x^{15} - 6x^9 - 12x^6 - 9x^3 - 12$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]_4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|---------------------|
| $x^{15} + 9x^{14} + 9x^{13} - 3x^{12} -$ $9x^{11} - 9x^{10} + 9x^9 + 9x^7 + 9x^6 -$ $9x^5 + 9x^3 + 9x^2 - 9x + 12$ | $x^{15} - 119700x^{12} + 3099127500x^9 -$ $35027417250000x^6 +$ $188491289076562500x^3 -$ 395831707060781250000 | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |
| $x^{15} + 9x^{14} - 3x^{12} - 9x^{11} +$ $9x^{10} - 9x^9 + 9x^6 + 9x^5 + 9x^4 +$ $9x^3 - 9x^2 - 6$ | $x^{15} - 9x^{12} + 72x^9 - 216x^6 + 243x^3 - 81$ | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} + 9x^{14} + 9x^{13} - 9x^{12} +$ $9x^{11} - 9x^{10} - 3x^9 - 9x^7 +$ $3x^6 + 9x^5 - 9x^4 + 9x^3 + 12$ | $x^{15} - 15x^{12} + 120x^9 - 420x^6 + 855x^3 -$ 2625 | $\left[\begin{array}{ccc} 21 & 21 & 21 \\ 10 & 10 & 10 \end{array} \right]^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{1913}{810}$ |
| $x^{15} + 9x^{13} - 6x^{12} + 9x^{11} -$ $9x^{10} + 6x^9 - 9x^8 - 9x^7 + 9x^5 +$ $9x^4 + 6x^3 + 9x + 3$ | $x^{15} - 19110x^9 - 1543500x^6 -$ $35654850x^3 - 264710250$ | $\left[\begin{array}{ccc} 23 & 23 & 23 \\ 10 & 10 & 10 \end{array} \right]^4 \left[\begin{array}{ccc} 5 & 5 & 5 \\ 2 & 2 & 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |

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Table 3.5 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|---------------------|
| $x^{15} + 9x^{13} - 12x^{12} - 9x^{11} +$ $9x^{10} + 6x^9 - 9x^8 + 9x^6 + 9x^5 +$ $9x^3 + 9x^2 - 9x + 3$ | $x^{15} - 60x^{12} + 1440x^9 - 18900x^6 +$ $144180x^3 - 396900$ | $\left[\begin{array}{c} 23 \\ 10 \end{array} \right]_{10}$ $\left[\begin{array}{c} 23 \\ 10 \end{array} \right]_{10}$ $\left[\begin{array}{c} 23 \\ 10 \end{array} \right]_{10}$ $\left[\begin{array}{c} 23 \\ 10 \end{array} \right]_{10}$ $\left[\begin{array}{c} 5 \\ 2 \end{array} \right]_{10}$ | T: 15,44 | $\frac{5899}{2430}$ |

Table 3.6: Degree 15 extensions of \mathbb{Q}_5

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-------------------|
| $x^{15} + x^2 + 2$ | $x^{15} - x^{14} - 22x^{13} + 17x^{12} + 166x^{11} - 102x^{10} - 533x^9 + 270x^8 + 729x^7 - 352x^6 - 393x^5 + 173x^4 + 80x^3 - 27x^2 - 6x + 1$ | $\left[\begin{matrix} 15 \\ 1 \end{matrix} \right]$ | T: 1,1 | 0 |
| $x^{15} - 625x^3 + 6250$ | $x^{15} - 2x^{14} - 3x^{13} - 6x^{12} + 46x^{11} - 96x^{10} + 66x^9 - 271x^8 + 802x^7 - 1192x^6 + 2483x^5 - 2152x^4 + 5024x^3 - 605x^2 - 3875x - 131$ | $\left[\begin{matrix} 10 \\ 3 \end{matrix} \right]$ | I: 3,1 | $\frac{2}{3}$ |
| $x^{15} + 15x^{14} + 15x^{13} + 10x^{12} + 10x^{11} + 2x^{10} + 20x^9 + 15x^8 + 15x^7 + 7x^5 + 15x^4 + 15x^3 + 5x + 17$ | $x^{15} - 40x^{13} - 60x^{12} + 440x^{11} - 4x^{10} - 7950x^9 - 3220x^8 + 78085x^7 + 81080x^6 - 296262x^5 - 341300x^4 + 440735x^3 + 517480x^2 + 115920x - 257984$ | $\left[\begin{matrix} 5 & 5 & 5 \\ 4 & 4 & 4 \end{matrix} \right]_4^3$ | I: 500,48 | $\frac{623}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|------------|-------------------|
| $x^{15} + 5x^{14} + 20x^{13} + 5x^{11} + 17x^{10} + 15x^9 + 5x^8 + 20x^7 + 10x^6 + 12x^5 + 15x^4 + 20x^3 + 15x^2 + 22$ | $x^{15} - 15x^{13} + 90x^{11} - 48x^{10} - 275x^9 + 480x^8 + 450x^7 - 1680x^6 - 55x^5 + 2400x^4 - 1475x^3 - 1200x^2 + 1600x - 512$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 5 \\ 4 \\ 4 \end{array} \right]_4$ | I: 500, 48 | $\frac{623}{500}$ |
| $x^{15} + 10x^{14} + 20x^{13} + 2x^{10} + 20x^9 + 20x^8 + 15x^7 + 2x^5 + 10x^4 + 15x^3 + 10x + 7$ | $x^{15} + 10x^{13} + 5x^{11} - 18x^{10} - 100x^9 + 90x^8 - 125x^7 - 70x^6 - 131x^5 - 850x^4 + 1185x^3 + 650x^2 - 1160x + 344$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 5 \\ 4 \\ 4 \end{array} \right]_4$ | I: 500, 48 | $\frac{623}{500}$ |
| $x^{15} + 5x^{14} + 5x^{13} + 10x^{12} + 10x^{11} + 22x^{10} + 10x^9 + 20x^7 + 12x^5 + 20x^4 + 5x^3 + 10x^2 + 10x + 12$ | $x^{15} + 5x^{13} - 25x^{11} - 2x^{10} - 100x^9 - 30x^8 + 25x^7 - 210x^6 + 242x^5 - 250x^4 + 65x^3 + 250x^2 - 160x + 8$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 5 \\ 4 \\ 4 \end{array} \right]_4$ | I: 500, 48 | $\frac{623}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|------------|-------------------|
| $x^{15} + 5x^{14} + 15x^{12} + 10x^{11} +$ $2x^{10} + 10x^9 + 20x^8 + 20x^7 +$ $5x^6 + 22x^5 + 10x^4 + 10x^2 + 2$ | $x^{15} - 95x^{13} + 3365x^{11} - 232x^{10} -$ $57850x^9 + 4940x^8 + 511225x^7 +$ $20020x^6 - 2248116x^5 - 819650x^4 +$ $4334005x^3 + 3295500x^2 - 1422980x -$ 1380392 | $\begin{bmatrix} \frac{5}{4} & \frac{5}{4} & \frac{5}{4} \\ \frac{5}{4} & \frac{5}{4} & \frac{5}{4} \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{623}{500}$ |
| $x^{15} + 20x^{14} + 5x^{13} + 10x^{12} +$ $15x^{11} + 2x^{10} + 10x^9 + 5x^8 +$ $10x^7 + 15x^6 + 17x^5 + 5x^4 +$ $10x^3 + 15x^2 + 15x + 17$ | $x^{15} + 20x^{13} - 100x^{12} - 350x^{11} -$ $2084x^{10} - 2750x^9 + 15420x^8 +$ $98365x^7 + 254520x^6 + 346826x^5 +$ $62100x^4 - 627935x^3 - 1206320x^2 -$ 1051440x - 443456 | $\begin{bmatrix} \frac{5}{4} & \frac{5}{4} & \frac{5}{4} \\ \frac{5}{4} & \frac{5}{4} & \frac{5}{4} \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{623}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} + 20x^{14} + 5x^{13} + 15x^{12} +$ $7x^{10} + 10x^9 + 20x^8 + 20x^7 +$ $5x^6 + 7x^5 + 10x^4 + 5x^3 + 20x +$ 22 | $x^{15} - 50x^{13} - 160x^{12} + 675x^{11} +$ $4128x^{10} + 3050x^9 - 20620x^8 -$ $28360x^7 + 13180x^6 - 62236x^5 -$ $395800x^4 + 619425x^3 - 1202580x^2 +$ $795360x - 513472$ | $\begin{bmatrix} \frac{5}{4} & \frac{5}{4} & \frac{5}{4} \\ \frac{5}{4} & \frac{5}{4} & \frac{5}{4} \end{bmatrix}_4^3$ | I: 500,48 | $\frac{623}{500}$ |
| $x^{15} + 15x^{14} + 5x^{13} + 20x^{11} +$ $7x^{10} + 20x^9 + 5x^8 + 5x^6 +$ $17x^5 + 15x^4 + 10x^3 + 15x^2 +$ $5x + 17$ | $x^{15} - 195x^{13} + 15210x^{11} - 3068x^{10} -$ $604175x^9 + 398840x^8 + 12852450x^7 -$ $18147220x^6 - 136141499x^5 +$ $337019800x^4 + 402281685x^3 -$ $2190628700x^2 + 2613902720x -$ 1021798336 | $\begin{bmatrix} \frac{5}{4} & \frac{5}{4} & \frac{5}{4} \\ \frac{5}{4} & \frac{5}{4} & \frac{5}{4} \end{bmatrix}_4^3$ | I: 500,48 | $\frac{623}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|------------|-------------------|
| $x^{15} + 20x^{14} + 5x^{13} + 15x^{12} + 20x^{11} + 17x^{10} + 15x^9 + 10x^6 + 7x^5 + 15x^4 + 5x^3 + 5x + 12$ | $x^{15} + 20x^{13} - 140x^{12} + 130x^{11} - 1276x^{10} + 6850x^9 - 10620x^8 + 33405x^7 - 105800x^6 + 53258x^5 + 459100x^4 - 974975x^3 + 162560x^2 + 1030160x - 627136$ | $\begin{bmatrix} 5 & 5 \\ 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{623}{500}$ |
| $x^{15} + 5x^{14} + 15x^{13} + 5x^{12} + 20x^{11} + 12x^{10} + 20x^9 + 10x^7 + 5x^6 + 22x^5 + 5x^4 + 10x^3 + 5x + 22$ | $x^{15} - 40x^{13} + 605x^{11} - 92x^{10} - 4450x^9 + 1870x^8 + 16825x^7 - 12460x^6 - 29575x^5 + 32500x^4 + 14105x^3 - 26650x^2 + 5980x + 1352$ | $\begin{bmatrix} 5 & 5 \\ 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{623}{500}$ |
| $x^{15} + 10x^{14} + 20x^{13} + 15x^{12} + 10x^{11} + 22x^{10} + 10x^9 + 20x^8 + 5x^7 + 5x^6 + 17x^5 + 5x^4 + 20x^3 + 10x^2 + 7$ | $x^{15} + 20x^{13} - 20x^{12} + 120x^{11} + 220x^{10} - 150x^9 - 2980x^8 + 6595x^7 - 13520x^6 - 17266x^5 + 125300x^4 - 260735x^3 + 802280x^2 - 766320x + 208832$ | $\begin{bmatrix} 5 & 5 \\ 4 & 4 \end{bmatrix}_4^3$ | I: 100, 11 | $\frac{123}{100}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|------------|-------------------|
| $x^{15} + 10x^{14} + 20x^{13} + 5x^{12} +$ $15x^{11} + 7x^{10} + 20x^9 + 10x^8 +$ $20x^7 + 5x^6 + 7x^5 + 5x^4 +$ $20x^3 + 10x^2 + 5x + 22$ | $x^{15} + 10x^{13} + 5x^{11} - 18x^{10} - 100x^9 -$ $190x^8 - 125x^7 - 630x^6 + 205x^5 -$ $850x^4 + 625x^3 - 750x^2 + 1080x - 104$ | $\begin{bmatrix} 5 & 5 & 5 \\ 4 & 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{623}{500}$ |
| $x^{15} + 20x^{12} + 7x^{10} + 5x^9 +$ $15x^8 + 20x^7 + 20x^6 + 7x^5 +$ $10x^4 + 20x^3 + 20x^2 + 20x + 22$ | $x^{15} - 20x^{12} - 370x^{11} - 1420x^{10} +$ $2350x^9 + 13660x^8 + 43415x^7 +$ $4160x^6 - 277226x^5 - 780100x^4 +$ $112735x^3 + 283200x^2 + 70480x + 5312$ | $\begin{bmatrix} 5 & 5 & 5 \\ 4 & 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{623}{500}$ |
| $x^{15} + 5x^{14} + 15x^{13} + 20x^{12} +$ $20x^{11} + 2x^{10} + 15x^9 + 5x^7 +$ $20x^6 + 12x^5 + 20x^2 + 7$ | $x^{15} - 95x^{13} + 3365x^{11} - 372x^{10} -$ $57850x^9 + 13130x^8 + 511225x^7 -$ $157430x^6 - 2237924x^5 + 836550x^4 +$ $4192045x^3 - 2087150x^2 - 2724280x +$ 1704872 | $\begin{bmatrix} 5 & 5 & 5 \\ 4 & 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{623}{500}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|-------------------|
| $x^{15} + 10x^{14} + 20x^{12} + 20x^{11} +$ $7x^{10} + 5x^9 + 15x^8 + 10x^7 +$ $10x^6 + 7x^5 + 10x^4 + 20x^3 +$ $15x^2 + 5x + 17$ | $x^{15} + 5x^{13} - 25x^{11} - 2x^{10} - 100x^9 +$ $180x^8 + 25x^7 + 560x^6 + 102x^5 +$ $450x^4 - 495x^3 - 100x^2 - 300x + 232$ | $\begin{bmatrix} 5 & 5 \\ 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{623}{500}$ |
| $x^{15} + 15x^{14} + 15x^{13} + 10x^{12} +$ $10x^{11} + 7x^{10} + 15x^8 + 20x^7 +$ $15x^6 + 17x^5 + 20x^4 + 20x^3 +$ $5x^2 + 5x + 7$ | $x^{15} - 195x^{13} + 15210x^{11} - 1508x^{10} -$ $604175x^9 + 196040x^8 + 12852450x^7 -$ $8919820x^6 - 139410635x^5 +$ $165653800x^4 + 614775525x^3 -$ $1076749700x^2 - 148517200x +$ 689119808 | $\begin{bmatrix} 5 & 5 \\ 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{623}{500}$ |
| $x^{15} + 5x^{14} + 20x^{13} + 15x^{11} +$ $2x^{10} + 5x^9 + 5x^6 + 2x^5 +$ $15x^2 + 5x + 17$ | $x^{15} + 10x^{13} + 5x^{11} - 4x^{10} - 100x^9 +$ $20x^8 - 125x^7 + 140x^6 + 121x^5 +$ $200x^4 + 65x^3 - 50x^2 - 40x + 8$ | $\begin{bmatrix} 5 & 5 \\ 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{623}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-------------------|
| $x^{15} + 20x^{13} + 10x^{12} + 15x^{11} +$ $17x^{10} + 10x^9 + 15x^8 + 20x^7 +$ $20x^6 + 7x^5 + 20x^4 + 20x^3 +$ $10x^2 + 10x + 2$ | $x^{15} + 5x^{13} - 25x^{11} - 54x^{10} - 100x^9 +$ $170x^8 + 25x^7 - 210x^6 + 130x^5 -$ $1150x^4 + 3145x^3 + 450x^2 - 3800x +$ 2792 | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3$ | I: 20,3 | $\frac{23}{20}$ |
| $x^{15} + 5x^{14} + 20x^{12} + 12x^{10} +$ $5x^9 + 10x^8 + 15x^7 + 12x^5 +$ $20x + 22$ | $x^{15} + 10x^{13} - 80x^{12} - 35x^{11} + 136x^{10} +$ $1650x^9 + 700x^8 - 19790x^7 + 48380x^6 -$ $24652x^5 - 226000x^4 + 489505x^3 -$ $655820x^2 + 958560x + 49216$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3$ | I: 500,48 | $\frac{623}{500}$ |
| $x^{15} + 20x^{13} + 20x^{12} + 17x^{10} +$ $20x^9 + 20x^8 + 10x^7 + 5x^6 +$ $7x^5 + 5x^4 + 15x^3 + 20x^2 +$ $20x + 12$ | $x^{15} - 95x^{13} + 3365x^{11} - 764x^{10} -$ $57850x^9 + 34970x^8 + 511225x^7 -$ $557830x^6 - 2114164x^5 + 3675750x^4 +$ $2109965x^3 - 8238750x^2 + 5887960x -$ 1247896 | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3$ | I: 500,48 | $\frac{623}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} + 10x^{14} + 5x^{13} + 20x^{12} +$ $22x^{10} + 15x^6 + 17x^5 + 5x^3 +$ $15x^2 + 2$ | $x^{15} - 10x^{13} - 120x^{12} + 455x^{11} +$ $336x^{10} + 150x^9 - 1220x^8 - 46430x^7 +$ $118980x^6 + 120168x^5 - 764000x^4 +$ $1115185x^3 + 992820x^2 - 4379360x +$ 440896 | $\begin{bmatrix} \frac{5}{4} & \frac{5}{4} & \frac{5}{4} \\ \frac{5}{4} & \frac{5}{4} & \frac{5}{4} \end{bmatrix}_4^3$ | I: 500,48 | $\frac{623}{500}$ |
| $x^{15} + 15x^{13} + 5x^{12} + 15x^{11} +$ $12x^{10} + 20x^9 + 15x^8 + 15x^6 +$ $22x^5 + 20x^4 + 10x^3 + 2$ | $x^{15} + 20x^{13} - 20x^{12} - 10x^{11} -$ $788x^{10} - 1650x^9 + 1740x^8 - 15875x^7 +$ $41320x^6 + 188522x^5 + 203300x^4 -$ $535425x^3 - 2105880x^2 - 388560x -$ 32192 | $\begin{bmatrix} \frac{5}{4} & \frac{5}{4} & \frac{5}{4} \\ \frac{5}{4} & \frac{5}{4} & \frac{5}{4} \end{bmatrix}_4^3$ | I: 500,48 | $\frac{623}{500}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-------------------|
| $x^{15} + 20x^{14} + 5x^{13} + 5x^{12} +$ $22x^{10} + 15x^9 + 5x^8 + 15x^7 +$ $10x^6 + 7x^5 + 15x^2 + 15x + 7$ | $x^{15} - 40x^{13} - 20x^{12} + 770x^{11} +$ $212x^{10} - 5450x^9 - 11100x^8 + 7815x^7 +$ $324480x^6 - 1064154x^5 + 1930300x^4 -$ $3333935x^3 + 3778480x^2 - 1562000x +$ 536768 | $\begin{bmatrix} 5 & & & & \\ & 5 & & & \\ & & 4 & & \\ & & & 4 & \\ & & & & 4 \end{bmatrix}^3$ | I: 100,11 | $\frac{123}{100}$ |
| $x^{15} + 10x^{14} + 20x^{12} + 15x^{11} +$ $7x^{10} + 10x^9 + 20x^8 + 5x^7 +$ $5x^6 + 2x^5 + 10x^4 + 5x^2 + 10x +$ 22 | $x^{15} + 30x^{13} - 415x^{11} - 2760x^{10} -$ $5950x^9 - 460x^8 + 55030x^7 +$ $227740x^6 + 592312x^5 + 1117400x^4 +$ $1629185x^3 + 1820580x^2 + 1428320x +$ 817216 | $\begin{bmatrix} 5 & & & & \\ & 5 & & & \\ & & 4 & & \\ & & & 4 & \\ & & & & 4 \end{bmatrix}^3$ | I: 100,11 | $\frac{123}{100}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} + 5x^{14} + 5x^{13} + 20x^{12} +$ $20x^{11} + 22x^{10} + 20x^8 + 5x^7 +$ $12x^5 + 15x^4 + 5x^2 + 20x + 12$ | $x^{15} - 20x^{13} - 20x^{12} - 200x^{11} -$ $964x^{10} + 950x^9 - 1860x^8 - 11565x^7 +$ $117480x^6 + 213330x^5 - 101500x^4 +$ $805665x^3 - 1173240x^2 - 7712720x -$ 8115904 | $\begin{bmatrix} 5 & 5 \\ 4 & 4 \end{bmatrix}_4^3$ | I: 500,48 | $\frac{623}{500}$ |
| $x^{15} + 10x^{14} + 10x^{12} + 15x^{11} +$ $22x^{10} + 5x^9 + 20x^8 + 5x^7 +$ $22x^5 + 5x^4 + 15x^3 + 5x + 17$ | $x^{15} + 10x^{13} - 160x^{12} + 275x^{11} +$ $424x^{10} + 1950x^9 - 24540x^8 +$ $88250x^7 - 177780x^6 + 282484x^5 -$ $651400x^4 + 1547215x^3 - 2167260x^2 +$ $1465280x - 348608$ | $\begin{bmatrix} 5 & 5 \\ 4 & 4 \end{bmatrix}_4^3$ | I: 500,48 | $\frac{623}{500}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|------------|-------------------|
| $x^{15} + 15x^{14} + 5x^{13} + 5x^{12} +$ $7x^{10} + 5x^8 + 5x^6 + 17x^5 +$ $10x^4 + 20x^3 + 20x^2 + 5x + 2$ | $x^{15} + 40x^{13} - 60x^{12} + 680x^{11} +$ $60x^{10} + 5550x^9 + 9020x^8 + 53525x^7 +$ $31840x^6 + 316614x^5 + 631900x^4 +$ $1236015x^3 + 1166480x^2 - 41040x -$ 235712 | $\begin{bmatrix} 5 & 5 \\ 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{623}{500}$ |
| $x^{15} + 15x^{14} + 15x^{13} + 10x^{11} +$ $7x^{10} + 5x^8 + 15x^7 + 15x^6 +$ $7x^5 + 15x^4 + 15x^2 + 2$ | $x^{15} + 5x^{13} - 25x^{11} - 2x^{10} - 100x^9 -$ $100x^8 + 25x^7 - 280x^6 + 214x^5 -$ $250x^4 + 65x^3 - 100x^2 - 20x + 8$ | $\begin{bmatrix} 5 & 5 \\ 4 & 4 \end{bmatrix}_4^3$ | I: 100, 11 | $\frac{123}{100}$ |
| $x^{15} + 20x^{14} + 15x^{13} + 12x^{10} +$ $15x^9 + 10x^8 + 5x^7 + 20x^6 +$ $2x^5 + 15x^2 + 10x + 22$ | $x^{15} + 5x^{13} - 25x^{11} - 30x^{10} - 100x^9 -$ $170x^8 + 25x^7 - 630x^6 + 466x^5 -$ $950x^4 + 625x^3 - 450x^2 + 400x - 104$ | $\begin{bmatrix} 5 & 5 \\ 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{623}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|------------|-------------------|
| $x^{15} + 10x^{14} + 15x^{13} + 5x^{12} + 10x^{11} + 22x^{10} + 5x^9 + 10x^8 + 10x^7 + 5x^6 + 12x^5 + 15x^4 + 10x^3 + 5x^2 + 15x + 7$ | $x^{15} - 195x^{13} + 15210x^{11} - 2782x^{10} - 604175x^9 + 361660x^8 + 12852450x^7 - 16455530x^6 - 136888479x^5 + 305602700x^4 + 450835385x^3 - 1986417550x^2 + 1982704620x - 537632264$ | $\begin{bmatrix} 5 & 5 \\ 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{623}{500}$ |
| $x^{15} + 10x^{14} + 5x^{13} + 15x^{12} + 15x^{11} + 2x^{10} + 15x^9 + 10x^7 + 20x^6 + 17x^5 + 15x^4 + 5x^3 + 12$ | $x^{15} - 15x^{13} + 90x^{11} - 8x^{10} - 275x^9 + 80x^8 + 450x^7 - 280x^6 - 391x^5 + 400x^4 + 205x^3 - 200x^2 - 80x + 64$ | $\begin{bmatrix} 5 & 5 \\ 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{623}{500}$ |
| $x^{15} + 15x^{14} + 5x^{13} + 20x^{12} + 5x^{11} + 12x^{10} + 20x^9 + 15x^8 + 15x^6 + 2x^5 + 10x^4 + 10x^3 + 10x + 12$ | $x^{15} + 20x^{13} - 140x^{12} + 130x^{11} - 1468x^{10} + 6850x^9 - 13180x^8 + 51325x^7 - 128840x^6 + 139274x^5 - 43300x^4 - 213375x^3 - 52800x^2 + 385040x + 296512$ | $\begin{bmatrix} 5 & 5 \\ 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{623}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{15} + 15x^{14} + 15x^{13} + 5x^{12} +$ $17x^{10} + 5x^9 + 10x^7 + 22x^5 +$ $5x^4 + 10x^3 + 5x + 7$ | $x^{15} - 30x^{13} - 20x^{12} + 515x^{11} +$ $1364x^{10} - 8900x^9 - 25080x^8 +$ $75595x^7 + 263400x^6 - 40182x^5 -$ $1432900x^4 - 2179855x^3 +$ $2432820x^2 + 8123440x + 6179776$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3$ | I: 500,48 | $\frac{623}{500}$ |
| $x^{15} - 195x^{13} + 15210x^{11} - 1612x^{10} -$ $604175x^9 + 209560x^8 + 12852450x^7 -$ $9534980x^6 - 138696779x^5 +$ $177078200x^4 + 568374885x^3 -$ $1151008300x^2 + 454691120x +$ 78599872 | $x^{15} + 15x^{12} + 15x^{11} + 12x^{10} +$ $20x^8 + 22x^5 + 10x^4 + 20x^3 +$ $15x + 17$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3$ | I: 100,11 | $\frac{123}{100}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|------------|-------------------|
| $x^{15} + 5x^{14} + 15x^{12} + 15x^{11} +$ $2x^{10} + 5x^9 + 20x^8 + 2x^5 +$ $5x^4 + 5x^3 + 20x^2 + 20x + 22$ | $x^{15} - 195x^{13} + 15210x^{11} - 1586x^{10} -$ $604175x^9 + 206180x^8 + 12852450x^7 -$ $9381190x^6 - 138705567x^5 +$ $174222100x^4 + 568946105x^3 -$ $1132443650x^2 + 447265260x +$ 79953224 | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3$ $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3$ | I: 500, 48 | $\frac{623}{500}$ |
| $x^{15} + 15x^{14} + 5x^{13} + 20x^{12} +$ $15x^{11} + 12x^{10} + 20x^9 + 15x^8 +$ $5x^7 + 20x^6 + 12x^5 + 15x^4 +$ $15x^2 + 20x + 2$ | $x^{15} - 20x^{13} - 60x^{12} - 10x^{11} +$ $2556x^{10} - 750x^9 - 15260x^8 -$ $11235x^7 + 21760x^6 + 69046x^5 -$ $233900x^4 + 575x^3 + 1239400x^2 -$ $129840x + 488384$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3$ | I: 100, 11 | $\frac{123}{100}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|------------|-------------------|
| $x^{15} + 5x^{14} + 10x^{13} + 15x^{12} + 20x^{11} + 12x^{10} + 15x^9 + 15x^8 + 5x^7 + 17x^5 + 15x^4 + 15x^3 + 15x + 2$ | $x^{15} + 10x^{13} - 80x^{12} - 35x^{11} + 392x^{10} + 1650x^9 - 580x^8 - 27470x^7 + 46780x^6 + 108724x^5 - 395600x^4 + 346145x^3 + 99380x^2 - 225440x + 43072$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 5 \\ 4 \\ 4 \end{array} \right]_4^3$ | I: 500, 48 | $\frac{623}{500}$ |
| $x^{15} + 10x^{14} + 5x^{13} + 10x^{12} + 15x^{11} + 17x^{10} + 20x^9 + 15x^8 + 10x^7 + 17x^5 + 20x^4 + 5x^3 + 20x + 17$ | $x^{15} - 5x^{14} - 30x^{13} + 105x^{12} + 500x^{11} - 976x^{10} - 3110x^9 + 690x^8 + 16045x^7 + 565x^6 - 4932x^5 - 65245x^4 + 18535x^3 + 23695x^2 + 7350x - 105209$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3$ | I: 20, 3 | $\frac{23}{20}$ |
| $x^{15} + 10x^{14} + 15x^{12} + 20x^{11} + 2x^{10} + 5x^9 + 10x^8 + 15x^7 + 15x^6 + 12x^5 + 20x^4 + 10x^3 + 10x^2 + 20x + 12$ | $x^{15} - 95x^{13} + 3365x^{11} - 192x^{10} - 57850x^9 + 4810x^8 + 511225x^7 - 11830x^6 - 2226068x^5 - 329550x^4 + 4009525x^3 + 1428050x^2 - 1142440x - 228488$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 5 \\ 4 \\ 4 \end{array} \right]_4^3$ | I: 100, 11 | $\frac{123}{100}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} + 10x^{14} + 5x^{13} + 20x^{12} + 20x^{11} + 17x^{10} + 10x^9 + 15x^8 + 12x^5 + 15x^3 + 10x^2 + 20x + 17$ | $x^{15} - 32x^{10} - 228x^5 + 8$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3$ | I: 20,3 | $\frac{23}{20}$ |
| $x^{15} + 10x^{14} + 10x^{13} + 15x^{12} + 10x^{11} + 7x^{10} + 20x^9 + 5x^8 + 15x^7 + 10x^6 + 12x^5 + 10x^4 + 15x^3 + 10x^2 + 5x + 17$ | $x^{15} + 5x^{13} - 25x^{11} - 30x^{10} - 100x^9 + 180x^8 + 25x^7 + 280x^6 + 102x^5 - 250x^4 + 65x^3 - 100x^2 - 300x - 104$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3$ | I: 100,11 | $\frac{123}{100}$ |
| $x^{15} + 15x^{14} + 15x^{13} + 20x^{12} + 5x^{11} + 2x^{10} + 20x^8 + 10x^7 + 10x^6 + 2x^5 + 15x^3 + 15x^2 + 15x + 17$ | $x^{15} - 40x^{13} - 100x^{12} + 550x^{11} + 2388x^{10} + 2450x^9 - 18660x^8 - 81055x^7 - 138720x^6 - 50146x^5 + 356900x^4 + 627905x^3 - 7080x^2 - 609680x - 283072$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3$ | I: 500,48 | $\frac{623}{500}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} + 20x^{14} + 15x^{13} + 15x^{12} +$ $5x^{11} + 12x^{10} + 10x^9 + 20x^8 +$ $5x^7 + 20x^6 + 22x^5 + 20x^4 +$ $15x^2 + 5x + 17$ | $x^{15} - 20x^{12} - 680x^{11} - 1460x^{10} +$ $4450x^9 + 21620x^8 + 51275x^7 +$ $97920x^6 + 142778x^5 + 204500x^4 +$ $260335x^3 + 248800x^2 + 243760x +$ 123712 | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 5 \\ 4 \\ 4 \end{array} \right]_4^5$ | I: 500,48 | $\frac{623}{500}$ |
| $x^{15} + 10x^{14} + 15x^{13} + 5x^{12} +$ $20x^{11} + 17x^{10} + 10x^9 + 5x^7 +$ $5x^6 + 2x^5 + 10x^4 + 10x^2 +$ $20x + 2$ | $x^{15} - 5x^{14} + 30x^{13} - 35x^{12} + 30x^{11} +$ $826x^{10} - 3050x^9 + 3340x^8 - 2835x^7 -$ $84875x^6 + 64148x^5 + 161235x^4 -$ $11775x^3 - 58555x^2 + 54250x - 679$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3$ | I: 20,3 | $\frac{23}{20}$ |
| $x^{15} + 15x^{14} + 90x^{13} + 50x^{12} +$ $60x^{11} + 110x^{10} + 45x^9 + 5x^8 +$ $85x^7 + 55x^6 + 98x^5 + 105x^4 +$ $25x^3 + 45x^2 + 120x + 123$ | $x^{15} + 40x^{13} - 20x^{12} + 400x^{11} - 900x^{10} -$ $7650x^9 - 6500x^8 - 203475x^7 +$ $3000x^6 - 1015050x^5 - 1377500x^4 +$ $4646375x^3 - 22679000x^2 +$ $32210000x - 77944000$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^6 \left[\begin{array}{c} 3 \\ 2 \\ 2 \end{array} \right]_2^6$ | I: 250,14 | $\frac{373}{250}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{15} - 2090x^{13} - 21010x^{12} +$ $1336115x^{11} + 25204223x^{10} -$ $170906450x^9 - 7532608765x^8 -$ $47741811425x^7 + 374001852400x^6 +$ $6905676127009x^5 +$ $39812771010375x^4 +$ $103882992730000x^3 +$ $97498831304930x^2 -$ $26091613124720x - 30612049222777$ | $x^{15} - 2090x^{13} - 21010x^{12} +$ $1336115x^{11} + 25204223x^{10} -$ $170906450x^9 - 7532608765x^8 -$ $47741811425x^7 + 374001852400x^6 +$ $6905676127009x^5 +$ $39812771010375x^4 +$ $103882992730000x^3 +$ $97498831304930x^2 -$ $26091613124720x - 30612049222777$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^3$ | I: 250,14 | $\frac{373}{250}$ |
| $x^{15} + 75x^{14} + 120x^{13} + 90x^{12} +$ $105x^{11} + 85x^{10} + 55x^9 +$ $20x^8 + 50x^7 + 5x^6 + 48x^5 +$ $5x^4 + 55x^2 + 40x + 83$ | $x^{15} + 10x^{13} - 25x^{12} + 5x^{11} - 53x^{10} +$ $225x^9 + 50x^8 - 345x^7 - 135x^6 +$ $1104x^5 - 1275x^4 + 145x^3 + 585x^2 -$ $460x + 139$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^3$ | I: 250,14 | $\frac{373}{250}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} + 105x^{14} + 65x^{13} + 50x^{11} +$ $95x^{10} + 50x^9 + 25x^8 + 110x^7 +$ $95x^6 + 93x^5 + 15x^4 + 70x^3 +$ $110x^2 + 100x + 73$ | $x^{15} - 190x^{13} - 295x^{12} + 11170x^{11} +$ $29483x^{10} - 198850x^9 - 614795x^8 +$ $922090x^7 + 4387410x^6 + 1717736x^5 -$ $7816650x^4 - 9556485x^3 -$ $2437450x^2 + 647185x - 21853$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^3$ | I: 50,4 | $\frac{73}{50}$ |
| $x^{15} + 40x^{14} + 20x^{13} + 40x^{12} +$ $120x^{11} + 105x^{10} + 5x^9 +$ $30x^8 + 65x^7 + 70x^6 + 78x^5 +$ $110x^4 + 90x^3 + 115x^2 + 100x +$ 43 | $x^{15} - 2090x^{13} - 3025x^{12} +$ $1406020x^{11} + 4523871x^{10} -$ $327301975x^9 - 1696314730x^8 +$ $13611768555x^7 + 37346755270x^6 -$ $271274742904x^5 + 179328491650x^4 +$ $751770096000x^3 -$ $1125753344650x^2 + 437648778655x -$ 11278788851 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^3$ | I: 250,14 | $\frac{373}{250}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|---------|-----------------|
| $x^{15} + 100x^{14} + 15x^{13} + 20x^{12} +$ $5x^{11} + 105x^{10} + 65x^9 + 45x^8 +$ $35x^7 + 35x^6 + 18x^5 + 60x^4 +$ $110x^3 + 105x^2 + 95x + 13$ | $x^{15} - 615x^{13} - 1230x^{12} + 142680x^{11} +$ $519839x^{10} - 15801400x^9 -$ $78738040x^8 + 868413005x^7 +$ $5416669490x^6 - 21713100456x^5 -$ $172685011550x^4 + 170114602855x^3 +$ $2260510932180x^2 + 245238148250x -$ 9370162894441 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^3$ | I: 50,4 | $\frac{73}{50}$ |
| $x^{15} + 60x^{14} + 10x^{13} + 75x^{12} +$ $30x^{11} + 110x^{10} + 45x^9 +$ $120x^8 + 95x^7 + 85x^6 + 33x^5 +$ $60x^4 + 25x^3 + 90x + 98$ | $x^{15} + 30x^{13} - 20x^{12} + 755x^{11} - 660x^{10} +$ $6500x^9 - 17000x^8 + 53835x^7 -$ $195240x^6 + 222582x^5 - 1319700x^4 +$ $1238945x^3 - 3908180x^2 - 626640x +$ 10816 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^6$ | I: 50,4 | $\frac{73}{50}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|------------|-------------------|
| $x^{15} + 50x^{14} + 85x^{13} + 105x^{12} +$ $15x^{11} + 60x^{10} + 50x^9 + 60x^8 +$ $120x^7 + 110x^6 + 53x^5 +$ $105x^4 + 55x^3 + 110x^2 + 85x +$ 28 | $x^{15} - 330x^{12} - 1760x^{11} - 6677x^{10} -$ $111925x^9 - 777425x^8 - 8220135x^7 -$ $22664510x^6 - 218099959x^5 -$ $675282850x^4 - 4828868000x^3 -$ $10480613440x^2 - 61688655600x -$ 84962693299 | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^3$ | I: 250, 14 | $\frac{373}{250}$ |
| $x^{15} + 75x^{14} + 40x^{13} + 45x^{12} +$ $105x^{11} + 85x^{10} + 50x^9 +$ $35x^8 + 110x^7 + 120x^6 +$ $123x^5 + 50x^4 + 40x^3 + 25x^2 +$ $10x + 28$ | $x^{15} + 40x^{13} + 480x^{11} - 384x^{10} -$ $400x^9 - 1280x^8 - 7600x^7 - 8320x^6 -$ $332352x^5 + 1356800x^4 + 9773120x^3 -$ $10073600x^2 + 1515520x + 425984$ | $\begin{bmatrix} 3 & 3 \\ 2 & 2 \end{bmatrix}_2^6$ | I: 50, 4 | $\frac{73}{50}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{15} + 15x^{14} + 75x^{13} + 85x^{12} +$ $85x^{11} + 30x^{10} + 90x^9 + 5x^8 +$ $10x^7 + 60x^6 + 73x^5 + 35x^4 +$ $40x^2 + 35x + 78$ | $x^{15} - 20x^{12} - 48x^{10} - 275x^9 - 795x^7 +$ $125x^6 - 513x^5 + 375x^4 + 270x^2 + 27$ | $\begin{bmatrix} 3 \\ 2 \\ 2 \end{bmatrix}_2^3$ | I: 10,1 | $\frac{13}{10}$ |
| $x^{15} + 70x^{14} + 55x^{13} + 20x^{12} +$ $115x^{11} + 80x^{10} + 50x^9 +$ $100x^8 + 120x^7 + 110x^6 +$ $38x^5 + 40x^4 + 65x^3 + 85x^2 +$ $50x + 83$ | $x^{15} - 15x^{12} + 25x^{11} - 6x^{10} - 100x^9 +$ $275x^8 - 420x^7 + 230x^6 + 504x^5 -$ $1425x^4 + 1500x^3 - 780x^2 + 205x - 43$ | $\begin{bmatrix} 3 \\ 2 \\ 2 \end{bmatrix}_2^3$ | I: 50,4 | $\frac{73}{50}$ |
| $x^{15} + 85x^{14} + 75x^{13} + 95x^{12} +$ $95x^{11} + 100x^{10} + 110x^9 +$ $80x^8 + 10x^7 + 110x^6 + 118x^5 +$ $55x^4 + 85x^3 + 85x^2 + 10x + 118$ | $x^{15} + 5x^{13} - 15x^{12} - 50x^{11} - 57x^{10} -$ $50x^9 + 215x^8 + 195x^7 + 50x^6 + 189x^5 -$ $175x^4 + 70x^3 - 70x^2 - 7$ | $\begin{bmatrix} 3 \\ 2 \\ 2 \end{bmatrix}_2^3$ | I: 250,14 | $\frac{373}{250}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{15} + 40x^{14} + 5x^{13} + 60x^{12} +$ $80x^{11} + 65x^{10} + 45x^9 + 5x^8 +$ $15x^7 + 115x^6 + 63x^5 + 5x^3 +$ $65x^2 + 40x + 118$ | $x^{15} - 30x^{13} - 120x^{12} - 35x^{11} + 288x^{10} +$ $18550x^9 + 57180x^8 - 67060x^7 -$ $692980x^6 - 2428364x^5 - 4064200x^4 +$ $7969745x^3 + 45312420x^2 +$ $72577920x + 43666496$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^6$ | I: 250,14 | $\frac{373}{250}$ |
| $x^{15} + 75x^{14} + 80x^{13} + 65x^{12} +$ $10x^{11} + 120x^{10} + 40x^9 +$ $60x^8 + 70x^7 + 115x^6 + 58x^5 +$ $75x^4 + 5x^3 + 30x^2 + 20x + 8$ | $x^{15} - 15x^{12} - 10x^{11} - 48x^{10} - 100x^9 -$ $75x^8 - 50x^6 + 217x^5 + 500x^4 + 450x^3 +$ $935x^2 + 170x - 1247$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^3$ | I: 250,14 | $\frac{373}{250}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|------------|-------------------|
| $x^{15} - 6765x^{13} - 20295x^{12} +$ $15985695x^{11} + 92470785x^{10} -$ $16653456875x^9 - 174457037700x^8 +$ $7619718765560x^7 +$ $133198798500130x^6 -$ $756748774210957x^5 -$ $33630980557555975x^4 -$ $305366336973334615x^3 -$ $1176964000936818270x^2 -$ $1774718404482666060x -$ 412520944443305643 | | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^3$ | I: 250, 14 | $\frac{373}{250}$ |
| $x^{15} + 70x^{14} + 110x^{13} + 20x^{12} +$ $50x^{11} + 40x^{10} + 80x^9 + 60x^8 +$ $80x^7 + 20x^6 + 93x^5 + 90x^4 +$ $90x^3 + 75x^2 + 105x + 88$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{15} + 65x^{13} + 80x^{12} + 45x^{11} +$ $20x^{10} + 120x^9 + 20x^8 +$ $120x^7 + 65x^6 + 3x^5 + 95x^4 +$ $45x^3 + 90x^2 + 25x + 78$ | $x^{15} + 80x^{13} - 20x^{12} + 2620x^{11} -$ $1684x^{10} + 46750x^9 - 81900x^8 +$ $521715x^7 - 1232160x^6 + 3258418x^5 -$ $8096300x^4 + 8289895x^3 -$ $14768480x^2 - 7802960x + 1973824$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^6 \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^6$ | I: 250,14 | $\frac{373}{250}$ |
| $x^{15} + 110x^{14} + 15x^{13} + 90x^{12} +$ $110x^{11} + 10x^{10} + 85x^9 +$ $50x^8 + 115x^7 + 95x^6 + 73x^5 +$ $5x^4 + 75x^3 + 75x^2 + 50x + 28$ | $x^{15} - 55x^{12} + 1815x^{11} - 22451x^{10} -$ $6050x^9 + 399300x^8 - 6424495x^7 -$ $28515465x^6 + 125638898x^5 -$ $2728550x^4 + 2604933375x^3 +$ $16662576040x^2 - 2373705400x -$ 122790139219 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^3 \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^3$ | I: 250,14 | $\frac{373}{250}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{15} + 85x^{14} + 100x^{13} + 55x^{12} + 20x^{11} + 75x^{10} + 120x^9 + 15x^8 + 50x^7 + 70x^6 + 33x^5 + 115x^4 + 60x^3 + 115x^2 + 65x + 48$ | $x^{15} - 30x^{13} - 80x^{12} + 655x^{11} + 8280x^{10} - 10750x^9 - 233660x^8 + 85900x^7 + 3249540x^6 + 1532424x^5 - 18258600x^4 - 21185855x^3 + 11927620x^2 - 326400x - 27196352$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^6 \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^6$ | I: 250,14 | $\frac{373}{250}$ |
| $x^{15} + 60x^{14} + 90x^{13} + 40x^{11} + 110x^{10} + 5x^9 + 45x^8 + 10x^7 + 90x^6 + 93x^5 + 25x^4 + 115x^3 + 15x^2 + 50x + 48$ | $x^{15} - 10x^{13} - 80x^{12} + 145x^{11} - 992x^{10} - 3250x^9 - 11220x^8 + 13040x^7 - 71180x^6 - 432504x^5 - 490000x^4 + 1384865x^3 + 587660x^2 + 5377920x - 3688768$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^6 \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^6$ | I: 250,14 | $\frac{373}{250}$ |
| $x^{15} + 60x^{13} + 15x^{12} + 80x^{11} + 20x^{10} + 65x^9 + 50x^8 + 100x^7 + 100x^6 + 103x^5 + 120x^4 + 20x^2 + 50x + 38$ | $x^{15} + 15x^{13} - 5x^{12} + 130x^{11} - 62x^{10} + 625x^9 - 370x^8 + 1835x^7 - 1065x^6 + 2630x^5 - 1600x^4 + 825x^3 - 380x^2 - 3355x + 727$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^3$ | I: 50,4 | $\frac{73}{50}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{15} + 30x^{14} + 75x^{13} + 20x^{12} +$ $85x^{11} + 5x^{10} + 120x^9 + 30x^8 +$ $115x^7 + 80x^6 + 83x^5 + 120x^4 +$ $50x^3 + 100x^2 + 30x + 78$ | $x^{15} + 20x^{13} - 20x^{12} - 280x^{11} -$ $2468x^{10} - 10850x^9 - 6980x^8 +$ $49245x^7 + 238120x^6 + 96654x^5 -$ $776300x^4 - 2253055x^3 - 2821320x^2 -$ $144080x - 3272128$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{3}{2} \end{array} \right]_2^6$ | I: 50,4 | $\frac{73}{50}$ |
| $x^{15} + 110x^{14} + 25x^{13} + 75x^{12} +$ $75x^{11} + 120x^{10} + 100x^9 +$ $95x^8 + 30x^7 + 65x^6 + 78x^5 +$ $40x^4 + 45x^3 + 15x^2 + 90x + 113$ | $x^{15} - 55x^{13} - 275x^{12} - 1375x^{11} -$ $2409x^{10} + 260150x^9 + 831270x^8 -$ $7132950x^7 - 16428775x^6 +$ $153803221x^5 + 900521325x^4 +$ $2262660070x^3 + 2594125655x^2 -$ $484943195x - 7120478651$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{3}{2} \end{array} \right]_2^3$ | I: 250,14 | $\frac{373}{250}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} + 25x^{14} + 35x^{13} + 115x^{12} +$ $65x^{11} + 85x^{10} + 70x^9 + 45x^8 +$ $105x^7 + 45x^6 + 18x^5 + 115x^4 +$ $50x^2 + 90x + 53$ | $x^{15} + 40x^{13} - 100x^{12} + 400x^{11} -$ $4932x^{10} - 4450x^9 - 79860x^8 -$ $137875x^7 - 502600x^6 - 1119498x^5 -$ $1207500x^4 - 2385625x^3 -$ $1425880x^2 - 1278000x - 1833152$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^6$ | I: 250,14 | $\frac{373}{250}$ |
| $x^{15} + 60x^{14} + 50x^{13} + 5x^{12} +$ $95x^{11} + 15x^9 + 50x^8 + 105x^7 +$ $5x^6 + 83x^5 + 110x^4 + 115x^3 +$ $85x^2 + 80x + 53$ | $x^{15} - 40x^{13} - 60x^{12} + 910x^{11} - 804x^{10} -$ $11150x^9 + 19100x^8 + 81945x^7 -$ $279280x^6 - 164562x^5 + 918900x^4 +$ $1065105x^3 - 7090400x^2 + 6213040x -$ 131776 | $\begin{bmatrix} 3 & 3 \\ 2 & 2 \end{bmatrix}_2^6$ | I: 50,4 | $\frac{73}{50}$ |
| $x^{15} + 65x^{14} + 105x^{13} + 15x^{12} +$ $55x^{10} + 20x^9 + 5x^8 + 5x^7 +$ $90x^6 + 28x^5 + 55x^4 + 50x^3 +$ $15x^2 + 95x + 88$ | $x^{15} - 15x^{13} - 10x^{12} + 125x^{11} + 57x^{10} -$ $650x^9 + 80x^8 + 1865x^7 - 1195x^6 -$ $2255x^5 + 2900x^4 + 75x^3 - 1675x^2 +$ $1635x - 559$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^3$ | I: 250,14 | $\frac{373}{250}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|------------|-------------------|
| $x^{15} - 2090x^{13} - 24255x^{12} +$ $1269950x^{11} + 28534847x^{10} -$ $59159925x^9 - 7179311150x^8 -$ $74621551235x^7 - 71706145170x^6 +$ $4304687957856x^5$ | $+ 39848122104175x^4$ $+ 175953793451645x^3$ $+ 435382952535300x^2$ $+ 580638091059180x$ $+ 326126656195208$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^3 \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^3$ | I: 250, 14 | $\frac{373}{250}$ |
| $25x^{11} + 25x^{10} + 55x^9 + 5x^8 +$ $45x^7 + 95x^6 + 3x^5 + 45x^4 +$ $95x^3 + 70x^2 + 30x + 98$ | | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} + 80x^{14} + 105x^{13} + 10x^{12} +$ $65x^{11} + 35x^{10} + 35x^9 + 90x^8 +$ $55x^7 + 90x^6 + 73x^5 + 80x^4 +$ $90x^3 + 90x^2 + 90x + 53$ | $x^{15} + 30x^{13} - 180x^{12} + 675x^{11} -$ $2916x^{10} + 8100x^9 - 1720x^8 + 955x^7 +$ $157480x^6 - 229354x^5 + 508700x^4 +$ $994785x^3 - 1654420x^2 + 1686000x +$ 3155776 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^6 \left[\begin{array}{c} 3 \\ 2 \\ 2 \end{array} \right]_2^6$ | I: 250,14 | $\frac{373}{250}$ |
| $x^{15} + 95x^{14} + 80x^{13} + 5x^{11} +$ $75x^{10} + 110x^9 + 20x^8 + 25x^7 +$ $65x^6 + 63x^5 + 55x^4 + 55x^3 +$ $30x^2 + 5x + 3$ | $x^{15} + 10x^{13} - 120x^{12} - 1505x^{11} -$ $4184x^{10} + 6650x^9 + 25580x^8 +$ $16100x^7 + 195740x^6 + 857440x^5 +$ $2044000x^4 + 3149265x^3 + 792340x^2 -$ $4307040x - 3696064$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^6 \left[\begin{array}{c} 3 \\ 2 \\ 2 \end{array} \right]_2^6$ | I: 250,14 | $\frac{373}{250}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} + 15x^{14} + 20x^{13} + 10x^{12} +$ $75x^{11} + 35x^{10} + 35x^9 + 25x^8 +$ $40x^7 + 83x^5 + 15x^4 + 120x^3 +$ $20x^2 + 75x + 83$ | $x^{15} - 30x^{13} - 80x^{12} + 85x^{11} + 4768x^{10} -$ $13350x^9 + 15940x^8 - 80080x^7 +$ $707540x^6 - 1932136x^5 - 575600x^4 -$ $4546345x^3 + 10190780x^2 -$ $10240480x + 2925376$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^6$ | I: 250,14 | $\frac{373}{250}$ |
| $x^{15} + 40x^{14} + 120x^{13} +$ $110x^{12} + 120x^{11} + 110x^{10} +$ $55x^9 + 45x^8 + 10x^7 + 50x^6 +$ $73x^5 + 90x^4 + 120x^3 + 70x^2 +$ $20x + 103$ | $x^{15} - 50x^{13} - 40x^{12} + 625x^{11} + 656x^{10} -$ $5850x^9 + 10380x^8 + 206240x^7 +$ $308300x^6 - 810164x^5 - 6422800x^4 -$ $8471545x^3 - 22468300x^2 -$ $4934240x - 3044672$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^6$ | I: 250,14 | $\frac{373}{250}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{15} + 15x^{14} + 105x^{13} + 80x^{12} +$ $90x^{11} + 25x^{10} + 95x^9 +$ $105x^8 + 70x^7 + 65x^6 + 78x^5 +$ $80x^4 + 40x^3 + 85x^2 + 5x + 93$ | $x^{15} - 20x^{13} - 180x^{12} - 750x^{11} +$ $3036x^{10} + 50x^9 - 68820x^8 +$ $525075x^7 - 1028320x^6 - 735530x^5 +$ $3079900x^4 + 640375x^3 - 4348760x^2 -$ $3535920x - 809024$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^6 \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^6$ | I: 250,14 | $\frac{373}{250}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|-----------|-------------------|
| $x^{15} - 2090x^{13} - 20075x^{12} +$ $1407560x^{11} + 23660901x^{10} -$ $285629575x^9 - 7652888210x^8 +$ $3740271535x^7 + 905697573110x^6 +$ $2319854664116x^5 -$ $51182230942150x^4 -$ $161541611178640x^3 +$ $1497412303630870x^2 +$ $3222714728658975x -$ 19505008172635117 | | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^3$ | I: 250,14 | $\frac{373}{250}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} + 30x^{14} + 70x^{13} + 75x^{12} +$ $75x^{11} + 100x^{10} + 100x^9 +$ $15x^8 + 85x^7 + 20x^6 + 53x^5 +$ $30x^4 + 10x^3 + 50x^2 + 85x + 103$ | $x^{15} - 40x^{13} - 20x^{12} + 550x^{11} +$ $1244x^{10} - 3550x^9 - 38300x^8 -$ $12775x^7 + 442840x^6 + 269534x^5 -$ $2287500x^4 - 866575x^3 + 5249120x^2 -$ $286000x - 4979008$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^6$ | I: 250,14 | $\frac{373}{250}$ |
| $x^{15} + 65x^{14} + 110x^{13} + 45x^{12} +$ $50x^{11} + 40x^{10} + 15x^9 + 45x^8 +$ $60x^7 + 5x^6 + 118x^5 + 105x^4 +$ $65x^3 + 70x^2 + 120x + 48$ | $x^{15} - 20x^{12} + 30x^{11} - 9x^{10} + 75x^9 -$ $225x^8 + 105x^7 + 190x^6 - 189x^5 +$ $400x^4 - 950x^3 + 880x^2 - 290x + 43$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^3$ | I: 250,14 | $\frac{373}{250}$ |
| $x^{15} + 15x^{14} + 10x^{13} + 10x^{12} +$ $70x^{11} + 85x^{10} + 40x^9 + 35x^8 +$ $40x^7 + 15x^6 + 103x^5 + 115x^4 +$ $105x^3 + 85x^2 + 40x + 93$ | $x^{15} - 30x^{13} - 120x^{12} + 245x^{11} +$ $2904x^{10} + 5950x^9 - 89220x^8 -$ $589730x^7 - 56060x^6 + 3275604x^5 -$ $1862200x^4 - 9042265x^3 +$ $3614660x^2 + 2568160x - 7262528$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^6$ | I: 250,14 | $\frac{373}{250}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-------------------|
| $x^{15} + 110x^{14} + 120x^{13} +$ $55x^{12} + 90x^{11} + 5x^{10} + 110x^9 +$ $55x^8 + 20x^7 + 10x^6 + 48x^5 +$ $95x^4 + 35x^3 + 60x + 108$ | $x^{15} + 10x^{13} - 200x^{12} + 285x^{11} -$ $288x^{10} + 11250x^9 - 30100x^8 -$ $89190x^7 - 209260x^6 - 120028x^5 -$ $731200x^4 + 15436945x^3 +$ $28807940x^2 + 21310240x + 91840448$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^6 \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^6$ | I: 250,14 | $\frac{373}{250}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|-----------|-------------------|
| $x^{15} - 6765x^{13} - 24805x^{12} +$ $16062365x^{11} + 111166539x^{10} -$ $16694137075x^9 - 189476167540x^8 +$ $7472481866685x^7 +$ $131441742352745x^6 -$ $799799703989605x^5 -$ $31171116702874500x^4 -$ $218341345996742375x^3 -$ $153695243067275910x^2 +$ $3450914841045726670x +$ 9300897536961053639 | | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^3 \left[\begin{array}{c} 3 \\ 2 \end{array} \right]_2^3$ | I: 250,14 | $\frac{373}{250}$ |
| $x^{15} + 5x^{14} + 80x^{13} + 40x^{12} +$ $85x^{11} + 55x^{10} + 110x^9 +$ $20x^8 + 110x^7 + 90x^6 + 88x^5 +$ $45x^4 + 30x^3 + 65x^2 + 25x + 53$ | | | | |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{15} + 15x^{14} + 105x^{13} + 35x^{12} +$ $55x^{11} + 70x^{10} + 5x^9 + 75x^8 +$ $35x^7 + 120x^6 + 98x^5 + 15x^4 +$ $45x^3 + 70x^2 + 120x + 38$ | $x^{15} - 30x^{13} - 100x^{12} + 145x^{11} +$ $1724x^{10} + 1700x^9 + 13320x^8 -$ $29145x^7 - 32760x^6 - 192190x^5 +$ $124300x^4 + 225575x^3 + 1649900x^2 +$ $3488400x + 1771328$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^6$ | I: 250,14 | $\frac{373}{250}$ |
| $x^{15} + 95x^{14} + 80x^{12} + 40x^{11} +$ $115x^{10} + 105x^9 + 15x^8 +$ $60x^7 + 100x^6 + 68x^5 + 65x^4 +$ $50x^3 + 100x^2 + 75x + 78$ | $x^{15} - 80x^{12} + 470x^{11} - 96x^{10} -$ $1600x^9 + 2000x^8 - 7720x^7 +$ $187360x^6 - 794752x^5 + 1289600x^4 +$ $1166200x^3 - 6718080x^2 +$ $10319360x - 9752576$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^6$ | I: 250,14 | $\frac{373}{250}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---------------------|-------------------------------------|--|-----------|-------------------|
| x^{15} | $- 6765x^{13} - 6765x^{12} +$ | | | |
| | $15606855x^{11} + 27179966x^{10} -$ | | | |
| | $14355025575x^9 - 38124466435x^8 +$ | | | |
| | $4795156200890x^7 +$ | | | |
| | $26949193437925x^6 -$ | | | |
| | $443903213159681x^5 -$ | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^3$ | I: 250,14 | $\frac{373}{250}$ |
| | $2330684245703275x^4 +$ | | | |
| | $17928124882860555x^3 +$ | | | |
| | $59203909199756310x^2 -$ | | | |
| | $285419451834333850x -$ | | | |
| | 217857881265284777 | | | |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|---------|-----------------|
| $x^{15} + 75x^{14} + 75x^{13} + 70x^{12} +$ $35x^{11} + 100x^{10} + 50x^9 +$ $90x^8 + 30x^7 + 90x^6 + 38x^5 +$ $10x^4 + 70x^3 + 30x^2 + 110x + 58$ | $x^{15} - 5x^{14} - 60x^{13} + 295x^{12} + 1245x^{11} -$ $5975x^{10} - 11780x^9 + 53695x^8 +$ $54070x^7 - 224460x^6 - 107064x^5 +$ $399590x^4 + 35285x^3 - 235565x^2 +$ $30830x + 10961$ | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2^6$ | I: 10,1 | $\frac{13}{10}$ |
| $x^{15} + 40x^{14} + 120x^{13} + 85x^{12} +$ $35x^{11} + 45x^{10} + 75x^8 + 50x^7 +$ $20x^6 + 43x^5 + 35x^4 + 90x^3 +$ $15x^2 + 115x + 103$ | $x^{15} - 25x^{13} + 280x^{11} - 64x^{10} -$ $1475x^9 + 460x^8 + 3850x^7 - 1000x^6 -$ $3912x^5 + 800x^4 + 1880x^3 - 400x^2 -$ $320x + 64$ | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}_2^3$ | I: 10,1 | $\frac{13}{10}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|------------|-------------------|
| $x^{15} - 6765x^{13} - 40590x^{12} +$ $17268790x^{11} + 186946265x^{10} -$ $21316424800x^9 - 317214029550x^8 +$ $13202686702645x^7 +$ $247612768168590x^6 -$ $3691632010076538x^5 -$ $89001750889052100x^4 +$ $274502056241977465x^3 +$ $12550978124294020620x^2 +$ $27615180190051783450x -$ 318426817054304789699 | | $\begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \end{bmatrix}_2^3$ | I: 250, 14 | $\frac{373}{250}$ |
| $x^{15} + 50x^{14} + 70x^{13} + 10x^{12} +$ $30x^{11} + 85x^{10} + 25x^9 + 95x^7 +$ $60x^6 + 63x^5 + 45x^4 + 115x^3 +$ $15x^2 + 90x + 43$ | | | | |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{15} + 100x^{14} + 45x^{13} + 40x^{12} + 25x^{11} + 5x^{10} + 35x^9 + 30x^8 + 50x^7 + 45x^6 + 23x^5 + 110x^4 + 5x^3 + 90x^2 + 45x + 118$ | $x^{15} - 5x^{14} - 30x^{13} + 105x^{12} + 380x^{11} - 536x^{10} - 1910x^9 + 890x^8 + 4045x^7 - 4555x^6 - 10452x^5 - 12045x^4 - 31265x^3 - 23705x^2 + 1830x - 449$ | $\left[\begin{matrix} 3 \\ 2 \end{matrix} \right]_2^6$ | I: 10,1 | $\frac{13}{10}$ |
| $x^{15} + 115x^{14} + 25x^{12} + 15x^{11} + 57x^{10} + 100x^9 + 60x^8 + 120x^7 + 30x^6 + 57x^5 + 55x^4 + 55x^3 + 20x^2 + 110x + 108$ | $x^{15} + 10x^{13} + 5x^{11} - 18x^{10} - 100x^9 - 470x^8 - 125x^7 - 1750x^6 - 299x^5 - 2250x^4 + 625x^3 - 1450x^2 + 2480x + 2248$ | $\left[\begin{matrix} 7 & 7 \\ 4 & 4 \end{matrix} \right]_4^3$ | I: 100,11 | $\frac{171}{100}$ |
| $x^{15} + 95x^{14} + 115x^{13} + 105x^{11} + 67x^{10} + 115x^9 + 25x^8 + 10x^7 + 100x^6 + 117x^5 + 95x^4 + 110x^3 + 10x^2 + 20x + 43$ | $x^{15} + 30x^{13} - 280x^{12} - 95x^{11} - 8264x^{10} - 5850x^9 - 23180x^8 + 344530x^7 - 1834980x^6 + 16087832x^5 - 47761200x^4 + 191104145x^3 + 114032180x^2 - 70658080x - 77742272$ | $\left[\begin{matrix} 7 & 7 & 7 \\ 4 & 4 & 4 \end{matrix} \right]_4^3$ | I: 500,48 | $\frac{871}{500}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|------------|-------------------|
| $x^{15} + 55x^{14} + 80x^{13} + 15x^{12} +$ $95x^{11} + 112x^{10} + 15x^9 +$ $45x^8 + 25x^7 + 70x^6 + 37x^5 +$ $110x^4 + 95x^3 + 40x^2 + 95x + 58$ | $x^{15} + 5x^{13} - 25x^{11} - 18x^{10} - 100x^9 +$ $10x^8 + 25x^7 - 70x^6 + 309x^5 - 325x^4 +$ $235x^3 - 200x^2 + 95x - 13$ | $\begin{bmatrix} 7 & 7 & 7 \\ 4 & 4 & 4 \end{bmatrix}^3$ | I: 500, 48 | $\frac{871}{500}$ |
| $x^{15} + 20x^{14} + 100x^{13} +$ $120x^{12} + 25x^{11} + 47x^{10} + 5x^9 +$ $95x^8 + 45x^7 + 90x^6 + 12x^5 +$ $95x^4 + 75x^3 + 25x^2 + 10x + 88$ | $x^{15} - 50x^{13} - 160x^{12} - 1305x^{11} +$ $1520x^{10} + 41750x^9 + 149460x^8 +$ $670770x^7 - 1714660x^6 - 2476896x^5 -$ $19614200x^4 + 39152865x^3 +$ $49413780x^2 + 77104320x - 530076352$ | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}^3$ | I: 100, 11 | $\frac{171}{100}$ |
| $x^{15} + 95x^{14} + 30x^{13} + 100x^{12} +$ $70x^{11} + 122x^{10} + 100x^9 +$ $90x^6 + 107x^5 + 85x^3 + 60x^2 +$ $115x + 38$ | $x^{15} + 15x^{13} + 90x^{11} - 2x^{10} + 275x^9 -$ $20x^8 + 450x^7 - 70x^6 + 318x^5 - 100x^4 -$ $160x^3 - 50x^2 - 285x + 71$ | $\begin{bmatrix} 7 & 7 & 7 \\ 4 & 4 & 4 \end{bmatrix}^3$ | I: 500, 48 | $\frac{871}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|-------------------|
| $x^{15} + 65x^{14} + 45x^{13} + 105x^{12} +$ $5x^{11} + 82x^{10} + 105x^9 + 50x^8 +$ $85x^7 + 95x^6 + 17x^5 + 85x^4 +$ $35x^3 + 30x^2 + 55x + 83$ | $x^{15} - 10x^{13} + 5x^{11} - 16x^{10} + 100x^9 -$ $10x^8 - 125x^7 - 126x^5 + 250x^4 - 25x^2 -$ $80x + 29$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \right]_4^3$ | I: 100, 11 | $\frac{171}{100}$ |
| $x^{15} + 40x^{14} + 10x^{13} + 15x^{12} +$ $60x^{11} + 82x^{10} + 105x^9 +$ $65x^8 + 115x^7 + 75x^6 + 27x^5 +$ $120x^4 + 105x^3 + 65x^2 + 60x +$ 103 | $x^{15} - 140x^{13} - 700x^{12} + 9100x^{11} +$ $53956x^{10} - 82950x^9 - 2729300x^8 -$ $5921545x^7 + 82631640x^6 +$ $181018838x^5 - 1677585700x^4 +$ $3911007135x^3 + 3731361760x^2 -$ $131967992240x + 393665297984$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \right]_4^3$ | I: 500, 48 | $\frac{871}{500}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|------------|-------------------|
| $x^{15} + 35x^{14} + 5x^{13} + 105x^{12} +$ $100x^{11} + 67x^{10} + 75x^9 +$ $70x^8 + 110x^7 + 100x^6 + 37x^5 +$ $10x^4 + 110x^3 + 100x^2 + 45x +$ 113 | $x^{15} + 70x^{13} - 560x^{12} - 3605x^{11} +$ $28616x^{10} - 206150x^9 + 2465820x^8 -$ $14896490x^7 + 33172300x^6 -$ $45531836x^5 - 277872000x^4 -$ $607261935x^3 - 110319020x^2 +$ $421526560x + 630110656$ | $\left[\begin{array}{ccc} 7 & 7 & 7 \\ 4 & 4 & 4 \end{array} \right]^3_4$ | I: 500, 48 | $\frac{871}{500}$ |
| $x^{15} + 95x^{14} + 55x^{13} + 90x^{12} +$ $15x^{11} + 22x^{10} + 50x^9 + 95x^8 +$ $45x^7 + 65x^6 + 102x^5 + 75x^4 +$ $60x^3 + 50x^2 + 80x + 53$ | $x^{15} - 50x^{13} - 160x^{12} + 165x^{11} +$ $11616x^{10} + 45250x^9 - 143860x^8 -$ $989260x^7 - 2874460x^6 + 5703528x^5 +$ $68990200x^4 + 27439375x^3 -$ $334524540x^2 - 356748480x -$ 102309696 | $\left[\begin{array}{ccc} 7 & 7 & 7 \\ 4 & 4 & 4 \end{array} \right]^3_4$ | I: 500, 48 | $\frac{871}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|------------|-------------------|
| $x^{15} + 115x^{14} + 25x^{13} + 5x^{12} + 30x^{11} + 57x^{10} + 120x^9 + 50x^8 + 90x^7 + 115x^6 + 12x^5 + 15x^4 + 65x^3 + 35x^2 + 115x + 108$ | $x^{15} - 30x^{13} - 120x^{12} + 385x^{11} - 8680x^{10} - 66850x^9 - 203900x^8 - 636290x^7 - 1883020x^6 - 5558536x^5 - 15938400x^4 - 25235535x^3 - 21863100x^2 - 29900160x - 30158528$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \right]_4^3$ | I: 500, 48 | $\frac{871}{500}$ |
| $x^{15} + 20x^{14} + 5x^{13} + 70x^{12} + 35x^{11} + 17x^{10} + 45x^9 + 15x^8 + 40x^7 + 60x^6 + 27x^5 + 115x^4 + 120x^3 + 80x^2 + 35x + 28$ | $x^{15} + 10x^{13} + 5x^{11} - 18x^{10} - 100x^9 + 230x^8 - 125x^7 + 2450x^6 - 859x^5 + 4750x^4 - 14775x^3 - 1450x^2 - 24120x + 17368$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \right]_4^3$ | I: 500, 48 | $\frac{871}{500}$ |
| $x^{15} + 65x^{14} + 75x^{13} + 120x^{12} + 25x^{11} + 37x^{10} + 70x^9 + 110x^8 + 70x^7 + 10x^6 + 17x^5 + 10x^4 + 75x^3 + 5x^2 + 40x + 13$ | $x^{15} - 5x^{14} + 30x^{13} + 85x^{12} - 120x^{11} + 2856x^{10} + 7450x^9 + 10590x^8 + 118145x^7 + 297545x^6 + 107288x^5 - 240165x^4 - 149625x^3 + 25915x^2 - 67010x - 34889$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \right]_4^3$ | I: 20, 3 | $\frac{31}{20}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|-------------------|
| $x^{15} + 25x^{14} + 100x^{13} + 45x^{12} + 100x^{11} + 77x^{10} + 10x^9 + 115x^8 + 40x^7 + 85x^6 + 77x^5 + 95x^4 + 100x^3 + 45x + 68$ | $x^{15} - 15x^{13} + 90x^{11} - 244x^{10} - 275x^9 + 2440x^8 + 450x^7 - 8540x^6 + 1737x^5 + 12200x^4 - 10435x^3 - 6100x^2 + 10560x + 6208$ | $\begin{bmatrix} 7 & 7 & 7 \\ 4 & 4 & 4 \end{bmatrix}^3_4$ | I: 500, 48 | $\frac{871}{500}$ |
| $x^{15} + 90x^{14} + 65x^{13} + 65x^{12} + 120x^{11} + 37x^{10} + 90x^8 + 77x^5 + 120x^4 + 85x^3 + 45x^2 + 30x + 83$ | $x^{15} + 10x^{13} + 5x^{11} - 43x^{10} - 100x^9 + 5x^8 - 125x^7 + 175x^6 + 291x^5 - 125x^4 + 25x^3 - 450x^2 + 505x - 167$ | $\begin{bmatrix} 7 & 7 & 7 \\ 4 & 4 & 4 \end{bmatrix}^3_4$ | I: 500, 48 | $\frac{871}{500}$ |
| $x^{15} + 75x^{14} + 40x^{13} + 55x^{12} + 45x^{11} + 17x^{10} + 95x^9 + 35x^8 + 45x^7 + 120x^6 + 37x^5 + 95x^4 + 60x^3 + 90x^2 + 110x + 103$ | $x^{15} + 140x^{13} - 420x^{12} + 8330x^{11} - 54404x^{10} + 342650x^9 - 2531620x^8 + 12375475x^7 - 63311080x^6 + 268539194x^5 - 920413900x^4 + 2404676225x^3 - 3695810160x^2 + 3854927440x + 1757502656$ | $\begin{bmatrix} 7 & 7 & 7 \\ 4 & 4 & 4 \end{bmatrix}^3_4$ | I: 500, 48 | $\frac{871}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|------------|-------------------|
| $x^{15} + 120x^{14} + 5x^{13} + 70x^{12} + 40x^{11} + 27x^{10} + 40x^9 + 30x^8 + 85x^7 + 10x^6 + 107x^5 + 60x^4 + 70x^3 + 100x + 63$ | $x^{15} + 70x^{13} - 200x^{12} + 2825x^{11} - 10912x^{10} + 86250x^9 - 255380x^8 + 1666180x^7 - 2885940x^6 + 15875456x^5 - 11810200x^4 + 44841745x^3 + 22471140x^2 - 94340160x - 52567488$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \right]_4^3$ | I: 500, 48 | $\frac{871}{500}$ |
| $x^{15} + 90x^{14} + 40x^{13} + 20x^{12} + 60x^{11} + 57x^{10} + 15x^9 + 35x^8 + 45x^7 + 10x^6 + 87x^5 + 80x^4 + 55x^2 + 105x + 108$ | $x^{15} + 140x^{13} - 280x^{12} - 2800x^{11} - 80864x^{10} - 798000x^9 - 3141600x^8 + 3345300x^7 + 214738720x^6 + 1758185296x^5 + 6090212800x^4 + 8986886440x^3 + 3610306560x^2 - 429381120x + 2689404928$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \right]_4^3$ | I: 500, 48 | $\frac{871}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|-------------------|
| $x^{15} + 105x^{14} + 70x^{13} + 80x^{12} +$ $60x^{11} + 57x^{10} + 105x^9 +$ $70x^8 + 55x^7 + 35x^6 + 32x^5 +$ $60x^4 + 85x^3 + 85x^2 + 30x + 98$ | $x^{15} - 10x^{13} + 5x^{11} - 9x^{10} + 100x^9 -$ $115x^8 - 125x^7 + 525x^6 - 231x^5 -$ $625x^4 + 525x^3 + 150x^2 - 255x + 71$ | $\begin{bmatrix} 7 & 7 & 7 \\ 4 & 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{871}{500}$ |
| $x^{15} + 70x^{14} + 90x^{13} + 40x^{12} +$ $50x^{11} + 72x^{10} + 70x^9 + 55x^8 +$ $65x^7 + 20x^6 + 67x^5 + 115x^4 +$ $90x^3 + 110x^2 + 25x + 28$ | $x^{15} - 5x^{14} - 15x^{13} + 10x^{12} +$ $300x^{11} + 1752x^{10} - 5245x^9 +$ $8425x^8 - 130895x^7 + 145515x^6 +$ $459069x^5 + 56465x^4 + 11814040x^3 -$ $34119525x^2 - 8788490x + 124486739$ | $\begin{bmatrix} 7 \\ 4 \end{bmatrix}_4^3$ | I: 20, 3 | $\frac{31}{20}$ |
| $x^{15} + 55x^{14} + 20x^{13} + 110x^{12} +$ $65x^{11} + 67x^{10} + 110x^9 +$ $80x^8 + 60x^7 + 120x^6 + 57x^5 +$ $5x^4 + 70x^3 + 60x^2 + 5x + 98$ | $x^{15} + 20x^{13} + 125x^{11} - 8x^{10} + 250x^9 -$ $410x^8 - 75x^7 + 2240x^6 - 12515x^5 +$ $18600x^4 - 23735x^3 + 12050x^2 -$ $134900x - 351112$ | $\begin{bmatrix} 7 & 7 & 7 \\ 4 & 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{871}{500}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|-------------------|
| $x^{15} + 80x^{14} + 30x^{13} + 55x^{12} +$ $60x^{11} + 57x^{10} + 10x^9 + 25x^8 +$ $85x^7 + 90x^6 + 52x^5 + 10x^4 +$ $40x^3 + 80x^2 + 70x + 38$ | $x^{15} + 10x^{13} + 5x^{11} - 8x^{10} - 100x^9 -$ $170x^8 - 125x^7 - 700x^6 + 81x^5 -$ $1000x^4 + 25x^3 - 450x^2 - 20x + 8$ | $\begin{bmatrix} 7 & 7 & 7 \\ 4 & 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{871}{500}$ |
| $x^{15} + 80x^{14} + 15x^{13} + 115x^{12} +$ $115x^{11} + 7x^{10} + 15x^9 + 45x^8 +$ $10x^7 + 50x^6 + 32x^5 + 65x^4 +$ $60x^3 + 105x^2 + 10x + 48$ | $x^{15} + 10x^{13} + 5x^{11} - 32x^{10} - 100x^9 +$ $20x^8 - 125x^7 + 121x^5 - 500x^4 +$ $625x^3 - 50x^2 - 320x + 232$ | $\begin{bmatrix} 7 & 7 & 7 \\ 4 & 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{871}{500}$ |
| $x^{15} + 80x^{14} + 5x^{13} + 75x^{12} +$ $10x^{11} + 27x^{10} + 115x^9 +$ $65x^8 + 55x^6 + 112x^5 + 35x^4 +$ $115x^3 + 15x^2 + 25x + 33$ | $x^{15} + 70x^{13} + 1575x^{11} - 8736x^{10} +$ $75950x^9 - 704620x^8 + 3150700x^7 -$ $18091780x^6 + 1019984x^5 -$ $181153000x^4 + 249236785x^3 +$ $2417190580x^2 + 2060822400x +$ 34539587264 | $\begin{bmatrix} 7 & 7 & 7 \\ 4 & 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{871}{500}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|------------|-------------------|
| $x^{15} + 20x^{14} + 65x^{12} + 12x^{10} +$ $100x^9 + 100x^8 + 105x^7 +$ $95x^6 + 27x^5 + 35x^4 + 55x^3 +$ $110x^2 + 25x + 23$ | $x^{15} + 5x^{13} - 25x^{11} - 7x^{10} - 100x^9 -$ $35x^8 + 25x^7 - 105x^6 + 264x^5 - 175x^4 +$ $160x^3 - 175x^2 + 70x - 7$ | $\begin{bmatrix} 7 & 7 & 7 \\ 4 & 4 & 4 \end{bmatrix}^3$ | I: 500, 48 | $\frac{871}{500}$ |
| $x^{15} + 105x^{14} + 10x^{13} + 15x^{12} +$ $110x^{11} + 117x^{10} + 35x^8 +$ $110x^7 + 30x^6 + 7x^5 + 90x^4 +$ $35x^3 + 75x^2 + 5x + 103$ | $x^{15} - 15x^{13} - 15x^{11} - 120x^{10} + 250x^9 -$ $1320x^8 + 625x^7 - 560x^6 - 3856x^5 +$ $4950x^4 - 17155x^3 + 4000x^2 + 10420x -$ 33368 | $\begin{bmatrix} 7 & 7 & 7 \\ 4 & 4 & 4 \end{bmatrix}^3$ | I: 500, 48 | $\frac{871}{500}$ |
| $x^{15} + 55x^{14} + 60x^{13} + 5x^{12} +$ $20x^{11} + 122x^{10} + 15x^9 +$ $25x^8 + 110x^7 + 45x^6 + 62x^5 +$ $15x^4 + 115x^2 + 15x + 18$ | $x^{15} + 140x^{13} - 140x^{12} + 420x^{11} -$ $3892x^{10} + 51450x^9 + 334180x^8 +$ $7549185x^7 + 20705440x^6 -$ $157909850x^5 + 1556979900x^4 -$ $8186770305x^3 + 36450335600x^2 +$ $22714969200x - 2161152448$ | $\begin{bmatrix} 7 & 7 & 7 \\ 4 & 4 & 4 \end{bmatrix}^3$ | I: 500, 48 | $\frac{871}{500}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|------------|-------------------|
| $x^{15} + 120x^{14} + 60x^{13} + 65x^{12} + 105x^{11} + 57x^{10} + 105x^9 + 15x^8 + 80x^7 + 102x^5 + 80x^4 + 105x^3 + 55x^2 + 110x + 68$ | $x^{15} - 500x^{12} - 240x^{11} - 820x^{10} + 92550x^9 + 159940x^8 + 53985x^7 - 5997560x^6 - 27450098x^5 - 977900x^4 + 65257985x^3 + 1362894120x^2 - 271864720x - 5333395136$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 7 \\ 4 \\ 4 \\ 4 \end{array} \right]_4^3$ | I: 500, 48 | $\frac{871}{500}$ |
| $x^{15} + 10x^{13} + 55x^{12} + 45x^{11} + 12x^{10} + 120x^9 + 90x^8 + 45x^7 + 35x^6 + 87x^5 + 25x^4 + 70x^3 + 15x^2 + 70x + 113$ | $x^{15} + 5x^{13} - 25x^{11} - 2x^{10} - 100x^9 + 40x^8 + 25x^7 + 420x^6 + 214x^5 + 450x^4 - 215x^3 - 800x^2 - 580x + 8$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 7 \\ 4 \\ 4 \\ 4 \end{array} \right]_4^3$ | I: 500, 48 | $\frac{871}{500}$ |
| $x^{15} + 65x^{14} + 50x^{13} + 20x^{12} + 50x^{11} + 42x^{10} + 15x^9 + 110x^8 + 50x^7 + 20x^6 + 7x^5 + 95x^4 + 35x^3 + 65x^2 + 40x + 113$ | $x^{15} + 25x^{13} + 215x^{11} - 16x^{10} + 800x^9 - 115x^8 + 1275x^7 - 175x^6 + 693x^5 - 100x^4 + 70x^3 - 25x^2 - 10x + 1$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \right]_4^3$ | I: 20, 3 | $\frac{31}{20}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|-------------------|
| $x^{15} - 210x^{13} + 22645x^{11} -$ $x^{15} + 110x^{14} + 80x^{13} + 60x^{12} +$ $6888x^{10} - 1429750x^9 + 1102780x^8 +$ $60x^{11} + 122x^{10} + 30x^9 + 5x^8 +$ $20x^7 + 105x^6 + 67x^5 + 120x^4 +$ $75x^3 + 105x^2 + 25x + 23$ | $54366060x^7 - 57444660x^6 -$ $1306798500x^5 + 1760192000x^4 +$ $16843078385x^3 - 20554791460x^2 -$ $112170107840x + 103762098496$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \right]_4^3$ | I: 500, 48 | $\frac{871}{500}$ |
| $x^{15} - 20x^{13} - 140x^{12} - 1160x^{11} -$ $5452x^{10} - 13450x^9 - 9580x^8 -$ $135725x^7 + 901560x^6 + 7117970x^5 -$ $8562900x^4 - 54145375x^3 +$ $46334520x^2 + 129066800x -$ 116723776 | | $\left[\begin{array}{c} 7 \\ 4 \end{array} \right]_4^3$ | I: 100, 11 | $\frac{171}{100}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} + 115x^{14} + 75x^{13} + 35x^{12} +$ $95x^{11} + 117x^{10} + 60x^9 +$ $105x^7 + 40x^6 + 117x^5 + 15x^4 +$ $105x^2 + 10x + 48$ | $x^{15} - 50x^{13} - 160x^{12} + 745x^{11} +$ $5800x^{10} + 5850x^9 - 88020x^8 -$ $249500x^7 + 481860x^6 + 4154784x^5 +$ $5661000x^4 - 12496175x^3 -$ $39500860x^2 + 66476480x + 102811072$ | $\begin{bmatrix} 7 & 7 & 7 \\ 4 & 4 & 4 \end{bmatrix}_4^3$ | I: 500,48 | $\frac{871}{500}$ |
| $x^{15} + 110x^{14} + 60x^{13} +$ $110x^{12} + 60x^{11} + 112x^{10} +$ $110x^9 + 45x^8 + 95x^7 + 15x^6 +$ $17x^5 + 115x^4 + 110x^3 + 10x^2 +$ $120x + 113$ | $x^{15} + 10x^{13} + 5x^{11} - 17x^{10} - 100x^9 -$ $55x^8 - 125x^7 - 175x^6 + 191x^5 -$ $375x^4 + 275x^3 - 300x^2 + 205x - 43$ | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^3$ | I: 100,11 | $\frac{171}{100}$ |
| $x^{15} + 10x^{14} + 65x^{13} + 5x^{12} +$ $10x^{11} + 117x^{10} + 80x^9 +$ $50x^8 + 75x^7 + 70x^6 + 72x^5 +$ $65x^4 + 75x^3 + 105x^2 + 95x + 88$ | $x^{15} + 5x^{13} - 130x^{11} - 194x^{10} - 275x^9 +$ $1640x^8 + 1950x^7 - 8330x^6 + 4365x^5 -$ $6400x^4 + 21765x^3 + 22150x^2 -$ $85000x + 59912$ | $\begin{bmatrix} 7 & 7 & 7 \\ 4 & 4 & 4 \end{bmatrix}_4^3$ | I: 500,48 | $\frac{871}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} + 40x^{14} + 10x^{13} + 10x^{12} + 80x^{11} + 47x^{10} + 25x^9 + 25x^8 + 65x^7 + 50x^6 + 17x^5 + 60x^4 + 105x^2 + 40x + 13$ | $x^{15} + 20x^{13} + 125x^{11} - 22x^{10} + 250x^9 - 340x^8 - 75x^7 - 2590x^6 - 475x^5 - 8350x^4 - 635x^3 - 7550x^2 - 5400x + 3032$ | $\begin{bmatrix} 7 & 7 & 7 \\ 4 & 4 & 4 \end{bmatrix}_4^3$ | I: 500,48 | $\frac{871}{500}$ |
| $x^{15} + 40x^{14} + 80x^{13} + 55x^{12} + 35x^{11} + 97x^{10} + 95x^9 + 45x^8 + 45x^7 + 95x^6 + 57x^5 + 75x^4 + 10x^3 + 40x^2 + 60x + 63$ | $x^{15} + 50x^{13} - 180x^{12} + 445x^{11} - 5556x^{10} - 1300x^9 + 23720x^8 - 17045x^7 + 442680x^6 - 2061006x^5 - 12600500x^4 - 17066865x^3 - 9677220x^2 - 41889520x - 26550208$ | $\begin{bmatrix} 7 & 7 & 7 \\ 4 & 4 & 4 \end{bmatrix}_4^3$ | I: 500,48 | $\frac{871}{500}$ |
| $x^{15} + 40x^{14} + 95x^{13} + 90x^{12} + 40x^{11} + 2x^{10} + 10x^9 + 115x^8 + 80x^7 + 35x^6 + 22x^5 + 120x^4 + 70x^3 + 30x^2 + 35x + 113$ | $x^{15} + 5x^{13} - 25x^{11} - 82x^{10} - 100x^9 + 590x^8 + 25x^7 + 4970x^6 - 2726x^5 + 4450x^4 - 74415x^3 - 10050x^2 - 41880x + 238888$ | $\begin{bmatrix} 7 & 7 \\ 4 & 4 \end{bmatrix}_4^3$ | I: 100,11 | $\frac{171}{100}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} + 30x^{14} + 95x^{13} + 115x^{12} +$ $65x^{11} + 107x^{10} + 110x^9 +$ $80x^8 + 40x^6 + 102x^5 + 90x^4 +$ $95x^3 + 95x^2 + 85x + 53$ | $x^{15} + 50x^{13} - 160x^{12} + 45x^{11} -$ $4008x^{10} - 12350x^9 + 64860x^8 +$ $112800x^7 + 21340x^6 - 303316x^5 -$ $11743800x^4 - 28943375x^3 +$ $93139620x^2 + 414036000x +$ 401333184 | $\left[\begin{array}{c} 7 \\ 4 \end{array} \right]^3$ $\left[\begin{array}{c} 7 \\ 4 \end{array} \right]^4$ | I: 100,11 | $\frac{171}{100}$ |
| $x^{15} + 30x^{14} + 60x^{13} + 60x^{12} +$ $100x^{11} + 27x^{10} + 110x^9 +$ $75x^8 + 60x^7 + 70x^6 + 117x^5 +$ $25x^4 + 65x^3 + 65x^2 + 93$ | $x^{15} - 10x^{13} - 120x^{12} + 1415x^{11} +$ $4736x^{10} - 6250x^9 - 68900x^8 +$ $43330x^7 + 945300x^6 + 1637928x^5 -$ $20953600x^4 - 16869455x^3 +$ $148110020x^2 + 33713760x -$ 280900544 | $\left[\begin{array}{c} 7 \\ 4 \end{array} \right]^3$ $\left[\begin{array}{c} 7 \\ 4 \end{array} \right]^4$ | I: 100,11 | $\frac{171}{100}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|-------------------|
| $x^{15} + 90x^{14} + 110x^{13} + 55x^{12} +$ $70x^{11} + 112x^{10} + 70x^9 +$ $95x^7 + 100x^6 + 67x^5 + 80x^4 +$ $95x^2 + 75x + 33$ | $x^{15} - 5x^{13} - 25x^{11} - 11x^{10} + 100x^9 -$ $45x^8 + 25x^7 + 35x^6 - 254x^5 + 150x^4 +$ $85x^3 - 25x^2 - 45x + 1$ | $\begin{bmatrix} 7 & 7 & 7 \\ 4 & 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{871}{500}$ |
| $x^{15} + 95x^{14} + 35x^{13} + 35x^{12} +$ $105x^{11} + 52x^{10} + 65x^9 +$ $90x^8 + 105x^7 + 110x^6 + 72x^5 +$ $100x^4 + 85x^3 + 100x^2 + 30x +$ 38 | $x^{15} - 100x^{13} - 80x^{12} + 4080x^{11} +$ $5920x^{10} - 86600x^9 - 156560x^8 +$ $1122180x^7 + 2247680x^6 -$ $10054656x^5 - 22268000x^4 +$ $76143640x^3 + 315322240x^2 +$ $399974400x + 184844288$ | $\begin{bmatrix} 7 & 7 & 7 \\ 4 & 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{871}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|------------|-------------------|
| $x^{15} + 30x^{14} + 115x^{13} + 95x^{12} +$ $22x^{10} + 50x^9 + 60x^8 + 60x^7 +$ $35x^6 + 7x^5 + 5x^4 + 35x^3 +$ $110x^2 + 85x + 63$ | $x^{15} + 70x^{13} - 560x^{12} + 2345x^{11} -$ $18088x^{10} + 360850x^9 - 2815540x^8 +$ $5628070x^7 - 90677300x^6 +$ $221297832x^5 - 206920000x^4 +$ $3495058175x^3 - 12585885900x^2 +$ $14672069440x - 5032433728$ | $\begin{bmatrix} 7 & 7 & 7 \\ 4 & 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{871}{500}$ |
| $x^{15} + 120x^{14} + 85x^{13} + 90x^{12} +$ $35x^{11} + 2x^{10} + 105x^9 + 25x^8 +$ $25x^6 + 32x^5 + 25x^4 + 25x^3 +$ $55x^2 + 55x + 88$ | $x^{15} - 10x^{13} + 5x^{11} - 26x^{10} + 100x^9 -$ $60x^8 - 125x^7 + 350x^6 - 161x^5 -$ $250x^4 + 525x^3 - 150x^2 - 80x + 104$ | $\begin{bmatrix} 7 & 7 & 7 \\ 4 & 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{871}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} + 65x^{14} + 30x^{13} + 120x^{12} +$ $110x^{11} + 12x^{10} + 15x^9 +$ $25x^8 + 40x^7 + 80x^6 + 117x^5 +$ $55x^4 + 115x^3 + 40x^2 + 95x +$ 123 | $x^{15} - 5x^{14} - 15x^{13} + 100x^{12} + 30x^{11} -$ $615x^{10} + 195x^9 + 1895x^8 - 1875x^7 -$ $1220x^6 + 3106x^5 - 2535x^4 + 5475x^3 -$ $3255x^2 + 560x + 1561$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \right]_4^3$ | I: 20,3 | $\frac{31}{20}$ |
| $x^{15} + 140x^{14} + 505x^{13} +$ $535x^{12} + 290x^{11} + 363x^{10} +$ $120x^9 + 95x^8 + 505x^7 +$ $195x^6 + 247x^5 + 75x^4 +$ $305x^3 + 525x^2 + 310x + 198$ | $x^{15} - 160x^{13} - 440x^{12} + 8590x^{11} +$ $38976x^{10} - 102600x^9 - 767280x^8 -$ $1452840x^7 - 4523360x^6 -$ $14147680x^5 - 30035200x^4 -$ $79413880x^3 - 201604160x^2 -$ $388249600x - 354848768$ | $\left[\begin{array}{cc} 2 & 2 \\ 2 & 2 \end{array} \right]_1^{12}$ | I: 125,5 | $\frac{248}{125}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} + 165x^{14} + 145x^{13} + 75x^{12} + 290x^{11} + 463x^{10} + 400x^9 + 350x^8 + 285x^7 + 305x^6 + 482x^5 + 430x^4 + 125x^3 + 215x^2 + 410x + 398$ | $x^{15} - 990x^{13} - 4620x^{12} + 336765x^{11} + 2758272x^{10} - 43033650x^9 - 480441390x^8 + 1831106310x^7 + 31780278530x^6 + 2698012020x^5 - 811194720600x^4 - 1071810383655x^3 + 7982917843230x^2 + 10940073309000x - 23914000046904$ | $\begin{bmatrix} 2 & 2 & 2 \\ & 2 & 2 \\ & & 2 \end{bmatrix}_1^6$ | I: 125,5 | $\frac{248}{125}$ |
| $x^{15} + 65x^{14} + 300x^{13} + 595x^{12} + 445x^{11} + 228x^{10} + 590x^9 + 45x^8 + 235x^7 + 195x^6 + 32x^5 + 190x^4 + 45x^3 + 170x^2 + 450x + 528$ | $x^{15} - 50x^{13} - 80x^{12} + 1505x^{11} + 17496x^{10} + 26150x^9 - 480380x^8 - 5464840x^7 + 32497900x^6 + 119278748x^5 - 603576400x^4 + 578164135x^3 - 1432216180x^2 + 6470880480x + 13874262464$ | $\begin{bmatrix} 2 & 2 & 2 \\ & 2 & 2 \\ & & 2 \end{bmatrix}_1^{12}$ | I: 125,5 | $\frac{248}{125}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} + 550x^{14} + 285x^{13} + 235x^{12} + 575x^{11} + 458x^{10} + 290x^9 + 450x^8 + 465x^7 + 370x^6 + 547x^5 + 395x^4 + 435x^3 + 70x^2 + 380x + 268$ | $x^{15} - 5x^{14} - 330x^{13} + 1300x^{12} + 38355x^{11} - 108089x^{10} - 1835100x^9 + 3121125x^8 + 31894765x^7 - 22879945x^6 - 205864557x^5 + 514235x^4 + 383811965x^3 + 81046000x^2 - 138979620x - 39256799$ | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}_1^3$ | I: 5,1 | $\frac{8}{5}$ |
| $x^{15} + 20x^{14} + 415x^{13} + 25x^{12} + 560x^{11} + 228x^{10} + 35x^9 + 405x^8 + 170x^7 + 585x^6 + 347x^5 + 575x^4 + 395x^3 + 180x^2 + 565x + 553$ | $x^{15} + 10x^{13} - 420x^{12} - 3135x^{11} - 17348x^{10} - 155900x^9 + 224360x^8 - 3448665x^7 + 12797480x^6 - 49195750x^5 + 74465900x^4 - 725312105x^3 - 1040266420x^2 - 1032084400x + 2172506176$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 2 \end{bmatrix}_1^{12}$ | I: 125,5 | $\frac{248}{125}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} + 255x^{14} + 365x^{13} + 95x^{12} + 445x^{11} + 148x^{10} + 370x^9 + 475x^8 + 345x^7 + 90x^6 + 307x^5 + 585x^4 + 135x^3 + 445x^2 + 235x + 373$ | $x^{15} + 70x^{13} - 260x^{12} - 1515x^{11} + 14324x^{10} - 114900x^9 + 781720x^8 - 2541045x^7 + 3405000x^6 + 3669534x^5 - 15799700x^4 + 19077175x^3 - 16913820x^2 + 22973840x - 16371776$ | $\begin{bmatrix} 2 & 2 & 2 \\ & 2 & 2 \\ & & 2 \end{bmatrix}_1^{12}$ | I: 125,5 | $\frac{248}{125}$ |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|----------|-------------------|
| $x^{15} - 4180x^{13} - 24365x^{12} +$ $5917670x^{11} + 57234705x^{10} -$ $3334536150x^9 - 38099835070x^8 +$ $699804141905x^7 +$ $6164041582215x^6 -$ $81113219112629x^5 -$ $198228293913925x^4 +$ $4458991053037785x^3 -$ $15795467452210655x^2 +$ $15663938516934235x +$ 5076742767361859 | | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |
| $x^{15} + 195x^{14} + 265x^{13} +$ $505x^{12} + 395x^{11} + 263x^{10} +$ $170x^9 + 100x^8 + 525x^7 +$ $350x^6 + 137x^5 + 200x^4 +$ $230x^3 + 555x^2 + 45x + 298$ | | | | |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{15} + 295x^{14} + 545x^{13} +$ $295x^{12} + 440x^{11} + 78x^{10} +$ $375x^9 + 125x^8 + 270x^7 +$ $600x^6 + 207x^5 + 235x^4 +$ $140x^3 + 10x^2 + 380x + 578$ | $x^{15} - 1230x^{13} - 4715x^{12} +$ $558830x^{11} + 3856747x^{10} -$ $108676650x^9 - 1017450465x^8 +$ $7784845480x^7 + 93889842765x^6 -$ $66419271922x^5 - 1819133611475x^4 +$ $782351217820x^3 + 871835831985x^2 -$ $400496140345x + 41960414299$ | $\begin{bmatrix} 2 & 2 \\ & 2 \end{bmatrix}_1^3$ | I: 25,2 | $\frac{48}{25}$ |
| $x^{15} + 415x^{14} + 95x^{13} + 40x^{12} +$ $470x^{11} + 518x^{10} + 530x^9 +$ $85x^8 + 575x^7 + 300x^6 +$ $117x^5 + 405x^4 + 230x^3 +$ $590x^2 + 150x + 28$ | $x^{15} - 990x^{13} - 4620x^{12} + 299805x^{11} +$ $2731740x^{10} - 24327050x^9 -$ $350759640x^8 - 38517930x^7 +$ $13470763020x^6 + 43545587448x^5 -$ $81547441800x^4 - 438259814135x^3 +$ $32914778160x^2 + 896056991280x -$ 296235622848 | $\begin{bmatrix} 2 & 2 & 2 \\ & 2 & 2 \\ & & 2 \end{bmatrix}_1^6$ | I: 125,5 | $\frac{248}{125}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{15} + 505x^{14} + 545x^{13} + 155x^{12} + 580x^{11} + 268x^{10} + 415x^9 + 280x^8 + 560x^7 + 525x^6 + 177x^5 + 20x^4 + 410x^3 + 500x^2 + 340x + 508$ | $x^{15} - 190x^{13} - 40x^{12} + 14225x^{11} - 488x^{10} - 623450x^9 + 1077820x^8 + 12637140x^7 - 49017620x^6 - 91183280x^5 + 1417571800x^4 - 6855187455x^3 + 19123301780x^2 - 28426586400x + 17426888128$ | $\begin{bmatrix} 2 & 2 & 2 \\ & 2 & 2 \\ & & 2 \end{bmatrix}_1^{12}$ | I: 125,5 | $\frac{248}{125}$ |
| $x^{15} + 80x^{14} + 85x^{13} + 255x^{12} + 125x^{11} + 543x^{10} + 615x^9 + 150x^8 + 175x^7 + 540x^6 + 502x^5 + 350x^4 + 365x^2 + 550x + 378$ | $x^{15} + 10x^{13} - 20x^{12} + 765x^{11} - 7748x^{10} + 33100x^9 - 27640x^8 - 243965x^7 + 1570280x^6 - 3398630x^5 + 13049900x^4 - 136962105x^3 + 564557980x^2 - 759364400x - 782439104$ | $\begin{bmatrix} 2 & 2 & 2 \\ & 2 & 2 \\ & & 2 \end{bmatrix}_1^{12}$ | I: 125,5 | $\frac{248}{125}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|----------|-------------------|
| $x^{15} - 4180x^{13} - 10615x^{12} +$ $6203670x^{11} + 36671580x^{10} -$ $3948459900x^9 - 41039847695x^8 +$ $996377806930x^7 +$ $16452143290165x^6 -$ $29068049257929x^5 -$ $1986819122135925x^4 -$ $14848045743113715x^3 -$ $45743988782316330x^2 -$ $60738261349177115x -$ 27936678513352741 | | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} + 525x^{14} + 210x^{13} + 80x^{12} + 115x^{11} + 348x^{10} + 605x^9 + 230x^8 + 260x^7 + 80x^6 + 147x^5 + 245x^4 + 200x^3 + 70x^2 + 25x + 188$ | $x^{15} + 40x^{13} - 180x^{12} + 550x^{11} - 4924x^{10} - 20050x^9 - 51260x^8 - 506335x^7 + 22840x^6 + 892770x^5 + 364100x^4 + 28797345x^3 + 74311840x^2 + 194035600x + 344991296$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & & 12 \\ & & & & 1 \end{bmatrix}$ | I: 125,5 | $\frac{248}{125}$ |
| $x^{15} + 335x^{14} + 80x^{13} + 5x^{12} + 370x^{11} + 603x^{10} + 75x^9 + 405x^8 + 35x^7 + 370x^6 + 282x^5 + 445x^4 + 170x^3 + 580x^2 + 505x + 63$ | $x^{15} - 90x^{13} - 160x^{12} + 4935x^{11} + 10344x^{10} - 138450x^9 - 431940x^8 + 2642510x^7 + 10032540x^6 - 37112344x^5 - 137222400x^4 + 373425015x^3 + 1141392300x^2 - 2340156640x - 889176128$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & & 12 \\ & & & & 1 \end{bmatrix}$ | I: 125,5 | $\frac{248}{125}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} + 135x^{13} + 390x^{12} +$ $510x^{11} + 613x^{10} + 275x^9 +$ $495x^8 + 470x^7 + 135x^6 +$ $7x^5 + 520x^4 + 195x^3 + 520x^2 +$ $360x + 538$ | $x^{15} + 50x^{13} + 1685x^{11} - 2352x^{10} +$ $33550x^9 - 530180x^8 + 508060x^7 -$ $11950260x^6 + 51175992x^5 +$ $3567200x^4 + 783947815x^3 -$ $4363076620x^2 + 6171749920x -$ 2654413888 | $\begin{bmatrix} 2 & 2 \\ & 2 \end{bmatrix}_1^{12}$ | I: 25,2 | $\frac{48}{25}$ |
| $x^{15} + 210x^{14} + 500x^{13} +$ $305x^{12} + 555x^{11} + 428x^{10} +$ $50x^9 + 40x^8 + 355x^7 + 165x^6 +$ $447x^5 + 410x^4 + 615x^3 +$ $525x^2 + 585x + 123$ | $x^{15} - 990x^{13} - 1320x^{12} + 336765x^{11} +$ $353892x^{10} - 50112150x^9 +$ $39374610x^8 + 3668358210x^7 -$ $10798254170x^6 - 115196082540x^5 +$ $600606296400x^4 + 620775598245x^3 -$ $9098280856170x^2 +$ $17652091485600x - 7564068666264$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 2 \end{bmatrix}_1^6$ | I: 125,5 | $\frac{248}{125}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{15} + 440x^{14} + 225x^{13} + 420x^{12} + 95x^{11} + 88x^{10} + 15x^9 + 120x^8 + 235x^7 + 95x^6 + 132x^5 + 190x^4 + 295x^3 + 345x^2 + 475x + 58$ | $x^{15} + 140x^{13} - 140x^{12} + 4930x^{11} - 24980x^{10} - 110950x^9 - 721980x^8 - 10002805x^7 + 637760x^6 - 186238518x^5 + 358404900x^4 + 464474065x^3 + 434446480x^2 - 393182480x + 111982144$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & & 12 \\ & & & & 1 \end{bmatrix}$ | I: 125,5 | $\frac{248}{125}$ |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|----------|-------------------|
| $x^{15} - 13530x^{13} - 4510x^{12} +$ $60481355x^{11} + 55726913x^{10} -$ $106739759775x^9 - 52011669710x^8 +$ $77657333261255x^7 -$ $1817060459390x^6 -$ $20197986660851252x^5 -$ $13730518709861525x^4 +$ $1869784121602175570x^3 +$ $1485789381088673265x^2 -$ $45949540432415361995x +$ 63173377010721762961 | | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--------------------------------------|-----------------------------------|--|----------|-------------------|
| $x^{15} - 4180x^{13} - 1265x^{12} +$ | $6803170x^{11} - 2710950x^{10} -$ | | | |
| $5531018900x^9 + 8893609505x^8 +$ | $2341067275030x^7 -$ | | | |
| $385x^{12} + 225x^{14} + 45x^{13} +$ | $6737997382985x^6 -$ | | | |
| $90x^9 + 80x^8 + 475x^7 + 480x^6 +$ | $470152010151989x^5 +$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |
| $467x^5 + 190x^4 + 245x^3 +$ | $1701302880684825x^4 +$ | | | |
| $430x^2 + 595x + 18$ | $30998383058456385x^3 -$ | | | |
| | $68579099867060530x^2 -$ | | | |
| | $11481109235388265x +$ | | | |
| | 7076040724925689 | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|-------------------|
| $x^{15} + 565x^{14} + 425x^{13} + 360x^{12} + 175x^{11} + 518x^{10} + 20x^9 + 405x^8 + 100x^7 + 90x^6 + 277x^5 + 540x^4 + 400x^3 + 270x^2 + 465x + 323$ | $x^{15} - 380x^{13} - 610x^{12} + 53670x^{11} + 148550x^{10} - 3424525x^9 - 12107505x^8 + 95387730x^7 + 372243510x^6 - 956024019x^5 - 3819147950x^4 + 123864485x^3 + 1008902580x^2 + 18465785x - 58648409$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & & 3 \\ & & & & 1 \end{bmatrix}$ | I: 125,5 | $\frac{248}{125}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} - 1230x^{13} - 410x^{12} + 551655x^{11} +$ $410738x^{10} - 110147525x^9 -$ $150340235x^8 + 9607847955x^7 +$ $23749226835x^6 - 333030545102x^5 -$ $1337542954900x^4 +$ $2240257807120x^3 +$ $17286450940240x^2 +$ $24936329753930x + 10737784352161$ | $x^{15} - 160x^{13} - 300x^{12} + 9100x^{11} +$ $26948x^{10} - 247650x^9 - 940980x^8 +$ $3375585x^7 + 17617040x^6 -$ $19345686x^5 - 224430500x^4 +$ $42241505x^3 + 1861887880x^2 +$ $46245840x - 8439812032$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 2 \\ & & & 2 \end{bmatrix}_1^3$ | I: 125,5 | $\frac{248}{125}$ |
| $x^{15} + 485x^{14} + 400x^{13} +$ $200x^{12} + 195x^{11} + 488x^{10} +$ $190x^9 + 545x^8 + 500x^7 +$ $125x^6 + 607x^5 + 110x^4 +$ $305x^3 + 325x^2 + 480x + 328$ | $x^{15} + 615x^{14} + 375x^{13} +$ $245x^{12} + 220x^{11} + 613x^{10} +$ $515x^9 + 120x^8 + 610x^7 +$ $20x^6 + 382x^5 + 365x^4 +$ $545x^3 + 45x^2 + 575x + 288$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 2 \\ & & & 2 \end{bmatrix}_1^{12}$ | I: 125,5 | $\frac{248}{125}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} + 310x^{14} + 480x^{13} + 440x^{12} + 365x^{11} + 83x^{10} + 20x^9 + 245x^8 + 95x^7 + 575x^6 + 137x^5 + 45x^4 + 190x^3 + 530x^2 + 140x + 558$ | $x^{15} - 10x^{13} - 460x^{12} + 1165x^{11} + 2764x^{10} + 111900x^9 - 751720x^8 + 903635x^7 - 9794440x^6 + 73112990x^5 - 151548300x^4 + 224345895x^3 - 1001594340x^2 - 1022361200x + 6831412288$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & & 12 \\ & & & & 1 \end{bmatrix}$ | I: 125,5 | $\frac{248}{125}$ |
| $x^{15} + 145x^{14} + 460x^{13} + 85x^{12} + 440x^{11} + 578x^{10} + 455x^9 + 155x^8 + 25x^7 + 160x^6 + 247x^5 + 540x^4 + 535x^3 + 600x^2 + 355x + 398$ | $x^{15} + 110x^{13} - 440x^{12} + 2675x^{11} - 37208x^{10} - 41950x^9 - 595780x^8 - 872910x^7 + 24136180x^6 + 21260380x^5 + 244328800x^4 - 2090876505x^3 + 566144180x^2 - 3437682400x + 14297171008$ | $\begin{bmatrix} 2 & 2 \\ & & 12 \\ & & & 1 \end{bmatrix}$ | I: 25,2 | $\frac{48}{25}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} + 270x^{14} + 375x^{13} +$ $25x^{12} + 465x^{11} + 428x^{10} +$ $260x^9 + 335x^8 + 280x^7 +$ $245x^6 + 562x^5 + 620x^4 +$ $280x^3 + 615x^2 + 455x + 13$ | $x^{15} + 100x^{13} - 100x^{12} + 3210x^{11} -$ $13932x^{10} - 33950x^9 - 738180x^8 -$ $3678715x^7 - 16226360x^6 -$ $66313158x^5 - 174443300x^4 -$ $372266985x^3 - 689939120x^2 -$ $754518480x - 259859648$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & & 12 \\ & & & & 1 \end{bmatrix}$ | I: 125,5 | $\frac{248}{125}$ |
| $x^{15} + 320x^{14} + 450x^{13} +$ $275x^{12} + 165x^{11} + 88x^{10} +$ $235x^9 + 135x^8 + 355x^7 +$ $95x^6 + 312x^5 + 245x^4 + 5x^3 +$ $540x^2 + 80x + 198$ | $x^{15} - 380x^{13} - 2015x^{12} + 41420x^{11} +$ $424820x^{10} - 231650x^9 - 19118095x^8 -$ $81246420x^7 + 50385515x^6 +$ $1378313441x^5 + 4661959325x^4 +$ $7476474435x^3 + 6092481920x^2 +$ $2238310335x + 238918849$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & & 3 \\ & & & & 1 \end{bmatrix}$ | I: 125,5 | $\frac{248}{125}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|-------------------|
| $x^{15} + 385x^{14} + 200x^{13} +$ $25x^{12} + 395x^{11} + 193x^{10} +$ $290x^9 + 395x^8 + 475x^7 +$ $425x^6 + 47x^5 + 585x^4 +$ $580x^3 + 325x^2 + 105x + 193$ | $x^{15} - 90x^{13} - 30x^{12} + 2715x^{11} +$ $1578x^{10} - 32400x^9 - 26160x^8 +$ $132810x^7 + 154270x^6 - 91470x^5 -$ $110400x^4 + 29145x^3 + 11520x^2 -$ $2700x + 24$ | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^6$ | I: 25,2 | $\frac{48}{25}$ |
| $x^{15} + 370x^{14} + 545x^{13} +$ $60x^{12} + 445x^{11} + 398x^{10} +$ $580x^9 + 85x^8 + 160x^7 +$ $195x^6 + 112x^5 + 235x^4 +$ $145x^3 + 510x^2 + 320x + 513$ | $x^{15} - 20x^{12} - 270x^{11} - 12036x^{10} +$ $264150x^9 + 193580x^8 + 220585x^7 -$ $14480200x^6 - 72332602x^5 -$ $336614100x^4 - 550041465x^3 -$ $1517449320x^2 - 676328720x +$ 1087103296 | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^{12}$ | I: 125,5 | $\frac{248}{125}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{15} + 355x^{14} + 170x^{13} +$ $180x^{12} + 330x^{11} + 178x^{10} +$ $390x^9 + 205x^8 + 260x^7 +$ $300x^6 + 402x^5 + 270x^4 +$ $260x^3 + 375x^2 + 165x + 473$ | $x^{15} - 990x^{13} - 5280x^{12} + 297165x^{11} +$ $2868888x^{10} - 21798150x^9 -$ $332497110x^8 - 272297190x^7 +$ $9036639370x^6 + 24064671180x^5 -$ $75053625900x^4 - 272946446355x^3 +$ $88527565170x^2 + 586611630000x +$ 108005890344 | $\left[\begin{array}{cc} 2 & 2 \\ 2 & 2 \end{array} \right]_1^6$ | I: 125,5 | $\frac{248}{125}$ |
| $x^{15} + 565x^{14} + 205x^{13} +$ $575x^{12} + 420x^{11} + 258x^{10} +$ $375x^9 + 255x^8 + 120x^7 +$ $115x^6 + 247x^5 + 250x^4 +$ $485x^3 + 50x^2 + 525x + 78$ | $x^{15} - 990x^{13} - 1320x^{12} + 369105x^{11} +$ $986700x^{10} - 64620050x^9 -$ $261497940x^8 + 5201967870x^7 +$ $28842179520x^6 - 137463026712x^5 -$ $1092824604300x^4 -$ $1427369437835x^3 - 73946686440x^2 +$ $528732935280x + 168237803712$ | $\left[\begin{array}{cc} 2 & 2 \\ 2 & 2 \end{array} \right]_1^6$ | I: 125,5 | $\frac{248}{125}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|---------|-----------------|
| $x^{15} + 165x^{14} + 360x^{13} +$ $125x^{12} + 285x^{11} + 448x^{10} +$ $425x^9 + 445x^8 + 75x^7 + 95x^6 +$ $602x^5 + 185x^4 + 215x^3 +$ $80x^2 + 170x + 193$ | $x^{15} - 130x^{13} - 840x^{12} + 6285x^{11} +$ $73136x^{10} + 28350x^9 - 2681420x^8 -$ $10326870x^7 + 29721300x^6 +$ $349342444x^5 + 1205467200x^4 +$ $2709162625x^3 + 5538954820x^2 +$ $5120793440x + 3315342016$ | $\left[\begin{array}{c} 2 \\ 2 \end{array} \right]_1^{12}$ | I: 25,2 | $\frac{48}{25}$ |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---------------------------------------|---------------------------------------|--|----------|-------------------|
| $x^{15} - 4180x^{13} - 39160x^{12} +$ | $5511495x^{11} + 91362975x^{10} -$ | | | |
| $2149477275x^9 - 49542431180x^8 +$ | $88569874030x^7 + 6563872732285x^6 +$ | | | |
| $240x^{12} + 90x^{11} + 78x^{10} +$ | $15219924434781x^5 -$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |
| $425x^9 + 500x^8 + 405x^7 +$ | $296033135921325x^4 -$ | | | |
| $420x^6 + 542x^5 + 565x^4 +$ | $876289602973290x^3 +$ | | | |
| $30x^3 + 505x^2 + 525x + 58$ | $4498649543372655x^2 -$ | | | |
| | $6322756933125160x$ | | | |
| | 19322439959080159 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} + 150x^{14} + 85x^{13} +$ $620x^{12} + 570x^{11} + 283x^{10} +$ $10x^9 + 265x^8 + 375x^7 +$ $512x^5 + 370x^4 + 280x^3 +$ $295x^2 + 390x + 573$ | $x^{15} - 380x^{13} - 610x^{12} + 47895x^{11} +$ $145295x^{10} - 2204775x^9 - 9416880x^8 +$ $23537280x^7 + 111267235x^6 -$ $133304079x^5 - 431722825x^4 +$ $403036560x^3 + 368483605x^2 -$ $131857640x - 85712509$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 2 \\ & & & 2 \end{bmatrix}_1^3$ | I: 125,5 | $\frac{248}{125}$ |
| $x^{15} + 335x^{14} + 570x^{13} +$ $400x^{12} + 255x^{11} + 213x^{10} +$ $165x^9 + 255x^8 + 195x^7 +$ $120x^6 + 597x^5 + 575x^4 +$ $120x^2 + 285x + 463$ | $x^{15} - 990x^{13} - 1320x^{12} + 356565x^{11} +$ $1048872x^{10} - 59368650x^9 -$ $258902490x^8 + 4631796510x^7 +$ $25679107630x^6 - 141101432340x^5 -$ $946259942100x^4 + 438322251345x^3 +$ $4926523909230x^2 -$ $4671553649400x - 71773408344$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 2 \\ & & & 2 \end{bmatrix}_1^6$ | I: 125,5 | $\frac{248}{125}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} + 460x^{14} + 425x^{13} +$ $505x^{12} + 155x^{11} + 238x^{10} +$ $100x^9 + 190x^8 + 505x^7 +$ $315x^6 + 52x^5 + 310x^4 +$ $290x^3 + 200x^2 + 460x + 293$ | $x^{15} - 990x^{13} - 5280x^{12} + 299805x^{11} +$ $2744940x^{10} - 26505050x^9 -$ $338577360x^8 + 430623270x^7 +$ $13713726180x^6 + 18720220728x^5 -$ $161955680700x^4 - 308625471935x^3 +$ $500293271940x^2 + 757987037280x +$ 66077825088 | $\begin{bmatrix} 2 & 2 & 2 \\ & & 6 \\ & & & 1 \end{bmatrix}$ | I: 125,5 | $\frac{248}{125}$ |
| $x^{15} + 220x^{14} + 560x^{13} +$ $385x^{12} + 290x^{11} + 263x^{10} +$ $305x^9 + 305x^8 + 410x^6 +$ $382x^5 + 290x^4 + 335x^3 +$ $275x^2 + 605x + 173$ | $x^{15} - 5x^{14} - 30x^{13} - 375x^{12} + 5180x^{11} -$ $7304x^{10} + 45450x^9 - 1199750x^8 +$ $6114765x^7 - 16315595x^6 +$ $108989308x^5 - 733126765x^4 +$ $2531282015x^3 - 4586917225x^2 +$ $4220925030x - 1557863089$ | $\begin{bmatrix} 2 \\ & 12 \\ & & 1 \end{bmatrix}$ | I: 5,1 | $\frac{8}{5}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} + 145x^{14} + 130x^{13} + 100x^{12} + 55x^{11} + 13x^{10} + 85x^9 + 575x^8 + 585x^7 + 75x^6 + 397x^5 + 505x^4 + 10x^3 + 170x^2 + 25x + 623$ | $x^{15} - 10x^{13} - 660x^{12} + 1965x^{11} - 2516x^{10} + 178900x^9 - 372120x^8 - 2384765x^7 + 16331160x^6 - 134219290x^5 + 213994700x^4 - 873076905x^3 + 1703664060x^2 - 3231516400x - 603334592$ | $\left[\begin{array}{cc} & 12 \\ 2 & 2 \\ & 1 \end{array} \right]$ | I: 25,2 | $\frac{48}{25}$ |
| $x^{15} + 515x^{14} + 475x^{13} + 310x^{12} + 125x^{11} + 623x^{10} + 370x^9 + 505x^8 + 225x^7 + 415x^6 + 387x^5 + 540x^4 + 375x^3 + 320x^2 + 515x + 518$ | $x^{15} + 10x^{13} - 525x^{11} - 9976x^{10} - 68850x^9 - 444460x^8 - 1640940x^7 + 1323820x^6 + 35284376x^5 + 146046000x^4 + 608640855x^3 + 2421159740x^2 + 4573249760x + 1082710336$ | $\left[\begin{array}{ccc} & & 12 \\ 2 & 2 & 2 \\ & & 1 \end{array} \right]$ | I: 125,5 | $\frac{248}{125}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|----------|-------------------|
| $x^{15} - 4180x^{13} - 70235x^{12} +$ $5110270x^{11} + 164214875x^{10} -$ $588622650x^9 - 84346326680x^8 -$ $1034489275545x^7 +$ $4513228995385x^6 +$ $201985058025531x^5 +$ $1742063139318425x^4 +$ $5687668771674835x^3 +$ $2160708311026155x^2 -$ $13699267984956565x -$ 593599612111759 | | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |
| $x^{15} + 220x^{14} + 190x^{13} +$ $110x^{12} + 280x^{11} + 158x^{10} +$ $30x^9 + 595x^8 + 480x^7 +$ $240x^6 + 207x^5 + 75x^4 +$ $215x^3 + 580x^2 + 475x + 563$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---------------------------------------|---------------------------------|--|----------|-------------------|
| $x^{15} - 4180x^{13} - 4840x^{12} +$ | $6201745x^{11} - 19305x^{10} -$ | | | |
| $4048300025x^9 + 16757166580x^8 +$ | $1229050443280x^7 -$ | | | |
| $x^{15} + 90x^{14} + 475x^{13} +$ | $11895838452685x^6 -$ | | | |
| $360x^{12} + 450x^{11} + 413x^{10} +$ | $114083309637209x^5 +$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |
| $170x^9 + 480x^8 + 50x^7 +$ | $2265603665111325x^4 -$ | | | |
| $215x^6 + 452x^5 + 465x^4 +$ | $11522537864622840x^3 +$ | | | |
| $350x^3 + 220x^2 + 490x + 553$ | $14315689661362045x^2 +$ | | | |
| | $25433051915295860x -$ | | | |
| | 8083776886177201 | | | |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|---------|-----------------|
| $x^{15} + 100x^{14} + 255x^{12} +$ $335x^{11} + 408x^{10} + 205x^9 +$ $450x^8 + 375x^7 + 595x^6 +$ $162x^5 + 325x^4 + 415x^3 +$ $610x^2 + 285x + 138$ | $x^{15} - 90x^{13} - 120x^{12} + 2505x^{11} +$ $4920x^{10} - 26050x^9 - 59490x^8 +$ $86670x^7 + 213970x^6 - 61992x^5 -$ $235800x^4 + 5565x^3 + 98310x^2 +$ $1680x - 13528$ | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^6$ | I: 25,2 | $\frac{48}{25}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---------------------------------------|---------------------------------------|---|----------|-------------------|
| $x^{15} - 4180x^{13} - 73040x^{12} +$ | $4712345x^{11} + 163515000x^{10} +$ | $\begin{bmatrix} 2 & 2 & 2 \\ & 2 & 2 \\ & & 2 \end{bmatrix}_1^3$ | I: 125,5 | $\frac{248}{125}$ |
| $261568725x^9 - 58260718945x^8 -$ | $859303218895x^7 + 545423700690x^6 +$ | | | |
| $1196679006727006x^5 +$ | $1140534968227325x^4 +$ | | | |
| $32761444405389460x^3 -$ | $10221238181438405x^2 -$ | | | |
| $80434804831172990x -$ | 127129411399314841 | | | |
| $x^{15} + 605x^{14} + 75x^{13} +$ | | | | |
| $215x^{12} + 65x^{11} + 273x^{10} +$ | | | | |
| $110x^9 + 385x^8 + 150x^7 +$ | | | | |
| $210x^6 + 332x^5 + 80x^4 +$ | | | | |
| $485x^3 + 280x^2 + 370x + 228$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|----------|-------------------|
| $x^{15} - 4180x^{13} - 54010x^{12} +$ $5470795x^{11} + 130956870x^{10} -$ $1700506775x^9 - 80117694305x^8 -$ $593070409745x^7 +$ $5705502280610x^6 +$ $90271580057296x^5 +$ $111929673585675x^4 -$ $3039243592233090x^3 -$ $10517078374222145x^2 +$ $27379451480558210x +$ 119880978825825041 | | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |
| $x^{15} + 440x^{14} + 595x^{13} +$ $470x^{12} + 480x^{11} + 233x^{10} +$ $65x^9 + 480x^8 + 255x^7 +$ $215x^6 + 477x^5 + 180x^4 +$ $440x^3 + 465x^2 + 230x + 228$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--------------------------------------|--|----------|-------------------|
| $x^{15} - 13530x^{13} - 51865x^{12} +$ | $63762380x^{11} + 483028667x^{10} -$ | | | |
| $122986414650x^9$ | $1341788597765x^8 +$ | | | |
| $x^{15} + 425x^{14} + 375x^{13} +$ | $87592063559330x^7 +$ | | | |
| $435x^{12} + 495x^{11} + 488x^{10} +$ | $1090976566794565x^6 -$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |
| $240x^9 + 320x^8 + 205x^7 +$ | $16988511290061212x^5 -$ | | | |
| $185x^6 + 582x^5 + 350x^4 +$ | $260050054004685725x^4 +$ | | | |
| $360x^2 + 590x + 593$ | $219226742321154920x^3 +$ | | | |
| | $15218780824605505785x^2 +$ | | | |
| | $66978435293515630555x +$ | | | |
| | 86304308654359602169 | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} + 485x^{14} + 55x^{13} + 75x^{12} +$ $210x^{11} + 283x^{10} + 415x^9 +$ $535x^8 + 455x^7 + 230x^6 +$ $137x^5 + 220x^4 + 60x^3 + 5x^2 +$ $275x + 178$ | $x^{15} + 70x^{13} - 160x^{12} + 3165x^{11} -$ $6624x^{10} + 7950x^9 - 212860x^8 -$ $2963080x^7 - 15565340x^6 -$ $24916476x^5 - 49103800x^4 -$ $52551775x^3 - 35021300x^2 -$ $13509760x - 1765952$ | $\begin{bmatrix} 2 & 2 & 2 \\ & 2 & 2 \\ & & 2 \end{bmatrix}_1^{12}$ | I: 125,5 | $\frac{248}{125}$ |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|----------|-------------------|
| $x^{15} - 13530x^{13} - 85690x^{12} +$ $68148355x^{11} + 810359957x^{10} -$ $155657700275x^9 -$ $2604690151690x^8 +$ $156119106290455x^7 +$ $3315176514208790x^6 -$ $56423496140581592x^5 -$ $1620851740661372725x^4 -$ $764264620668441530x^3 +$ $182581414869717848985x^2 +$ $1137106810757008570105x +$ 1922240771622091176509 | | $\begin{bmatrix} 2 & 2 & 2 \\ & & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |
| $x^{15} + 330x^{14} + 70x^{13} + 55x^{12} +$ $230x^{11} + 48x^{10} + 15x^9 +$ $155x^8 + 85x^7 + 500x^6 + 7x^5 +$ $570x^4 + 185x^3 + 25x^2 + 515x +$ 213 | | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{15} + 360x^{14} + 85x^{13} +$ $260x^{12} + 595x^{11} + 288x^{10} +$ $510x^9 + 590x^8 + 20x^7 +$ $315x^6 + 232x^5 + 330x^4 +$ $560x^3 + 585x^2 + 155x + 298$ | $x^{15} - 1230x^{13} - 410x^{12} + 501430x^{11} +$ $313158x^{10} - 83671775x^9 -$ $149751885x^8 + 6033327530x^7 +$ $18878865535x^6 - 157443724112x^5 -$ $692330398275x^4 + 609671375345x^3 +$ $5609653526315x^2 +$ $6271914726105x + 1844505912731$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & & 3 \\ & & & & 1 \end{bmatrix}$ | I: 125,5 | $\frac{248}{125}$ |
| $x^{15} + 430x^{14} + 40x^{13} +$ $280x^{12} + 590x^{11} + 338x^{10} +$ $240x^9 + 90x^8 + 455x^7 +$ $595x^6 + 352x^5 + 185x^4 +$ $480x^3 + 95x^2 + 320x + 263$ | $x^{15} - 380x^{13} - 340x^{12} + 52195x^{11} +$ $87400x^{10} - 3209275x^9 - 7203495x^8 +$ $88746755x^7 + 232522890x^6 -$ $980823484x^5 - 2991213425x^4 +$ $2138248810x^3 + 13213071845x^2 +$ $13667219210x + 4461221029$ | $\begin{bmatrix} 2 & 2 \\ & & 3 \\ & & & 1 \end{bmatrix}$ | I: 25,2 | $\frac{48}{25}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} - 13530x^{13} - 130790x^{12} +$ $65611480x^{11} + 1148355142x^{10} -$ $138419465525x^9$ $3403817085515x^8$ $118290684925930x^7$ $3866577876721615x^6$ $22862683648752662x^5$ $1428604558717566725x^4$ $6282579803995702955x^3$ $77584934446619557485x^2$ $253907407091107793155x$ 943148053647068233481 | $+ 130790x^{12} +$ $- 1148355142x^{10} -$ $- 138419465525x^9$ $+ 3403817085515x^8$ $+ 118290684925930x^7$ $- 3866577876721615x^6$ $- 22862683648752662x^5$ $- 1428604558717566725x^4$ $+ 6282579803995702955x^3$ $+ 77584934446619557485x^2$ $- 253907407091107793155x$ $- 943148053647068233481$ | $\begin{bmatrix} 2 & 2 & 2 \\ & 2 & 2 \\ & & 2 \end{bmatrix}_1^3$ | I: 125,5 | $\frac{248}{125}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} - 4180x^{13} - 25740x^{12} +$ $5518920x^{11} + 54911780x^{10} -$ $2388845525x^9 - 23130637695x^8 +$ $360751666330x^7 +$ $2816763227740x^6 -$ $18651985996479x^5 -$ $75139085483550x^4 +$ $343189615625285x^3 +$ $236308458594120x^2 -$ $1664641760370215x +$ 1205790836546659 | $x^{15} - 4180x^{13} - 25740x^{12} +$ $5518920x^{11} + 54911780x^{10} -$ $2388845525x^9 - 23130637695x^8 +$ $360751666330x^7 +$ $2816763227740x^6 -$ $18651985996479x^5 -$ $75139085483550x^4 +$ $343189615625285x^3 +$ $236308458594120x^2 -$ $1664641760370215x +$ 1205790836546659 | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|---------|-----------------|
| $x^{15} - 13530x^{13} - 27060x^{12} +$ $60007805x^{11} + 233337478x^{10} -$ $106383808025x^9 - 448577514385x^8 +$ $81505029298055x^7 +$ $275303952182435x^6 -$ $25655189312722222x^5 -$ $9302147319956150x^4 +$ $2979015257625174020x^3 -$ $11982210349902352010x^2 -$ $27853108093372814120x +$ 139291196461976093051 | | $\begin{bmatrix} 2 & 2 \\ & 2 \end{bmatrix}_1^{15}$ | I: 25,2 | $\frac{48}{25}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|---------|-----------------|
| $x^{15} - 13530x^{13} - 29315x^{12} +$ $61022555x^{11} + 231914122x^{10} -$ $114901224900x^9 - 947668650115x^8 +$ $96365989435430x^7 +$ $1248588925254440x^6 -$ $30432948895588547x^5 -$ $498107940064560100x^4 +$ $2820324134909466020x^3 +$ $63022252258772386635x^2 +$ $52936189301281086130x -$ 1135946672970358780201 | | $\begin{bmatrix} 2 & 2 \\ & 2 \end{bmatrix}_1^{15}$ | I: 25,2 | $\frac{48}{25}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---------------------------------------|--------------------------------|---|---------|-----------------|
| x^{15} | $- 4180x^{13} - 12485x^{12} +$ | | | |
| $5889070x^{11} + 25113825x^{10} -$ | | | | |
| $3339497150x^9 - 10438588930x^8 +$ | | | | |
| $772249128805x^7 - 339726625865x^6 -$ | | | | |
| $77324298424109x^5 +$ | | $\begin{bmatrix} 2 & 2 \\ & 2 \end{bmatrix}_1^{15}$ | I: 25,2 | $\frac{48}{25}$ |
| $343656093444675x^4 +$ | | | | |
| $1912030885071285x^3 -$ | | | | |
| $18408902309189095x^2 +$ | | | | |
| $49592761157205035x -$ | | | | |
| 44751355147552229 | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---------------------------------------|------------------------|--|----------|-------------------|
| $x^{15} - 4180x^{13} - 43065x^{12} +$ | | | | |
| $5807670x^{11} + 106737400x^{10} -$ | | | | |
| $2584184900x^9 - 69673499445x^8 -$ | | | | |
| $18279647870x^7 + 7178503077515x^6 +$ | | | | |
| $4256177191431x^5 -$ | | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |
| $260538512205675x^4 +$ | | | | |
| $681617718592085x^3 +$ | | | | |
| $100724372498970x^2 -$ | | | | |
| $1552449470668415x +$ | | | | |
| 728323637418509 | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|----------|-------------------|
| $x^{15} - 4180x^{13} - 27610x^{12} +$ $6306520x^{11} + 72934180x^{10} -$ $3972644775x^9 - 59450912455x^8 +$ $9017633351280x^7 +$ $14972080757810x^6 -$ $61514579655309x^5 -$ $1045193571666200x^4 +$ $283890952539535x^3 +$ $11406727211477730x^2 +$ $8060078439181835x -$ 3118836958046249 | | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--------------------------------------|---|---------|-----------------|
| $x^{15} - 13530x^{13} - 27060x^{12} +$ | $61473555x^{11} + 227959303x^{10} -$ | | | |
| $112485838025x^9 - 687243162760x^8 +$ | $83325875050055x^7 +$ | | | |
| $x^{15} + 30x^{14} + 605x^{13} +$ | $669670243868560x^6 -$ | $\begin{bmatrix} 2 & 2 \\ & 2 \end{bmatrix}_1^{15}$ | I: 25,2 | $\frac{48}{25}$ |
| $120x^{12} + 390x^{11} + 353x^{10} +$ | $19087055771512322x^5 -$ | | | |
| $620x^9 + 495x^8 + 110x^7 +$ | $131339645327580525x^4 +$ | | | |
| $155x^6 + 592x^5 + 390x^4 +$ | $1448579838235467520x^3 +$ | | | |
| $225x^3 + 210x^2 + 520x + 173$ | $8178435313511619365x^2 -$ | | | |
| | $24134372654973496245x -$ | | | |
| | 85720282163823578249 | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|---------|-----------------|
| $x^{15} - 4180x^{13} - 51040x^{12} +$ $5598395x^{11} + 122749275x^{10} -$ $2067620775x^9 - 75693052820x^8 -$ $298784509870x^7 +$ $7261904680965x^6 +$ $51700260204241x^5 -$ $191849435152925x^4 -$ $2105763280573590x^3 -$ $605615596563505x^2 +$ $24987006804381160x +$ 46127481271594129 | | $\begin{bmatrix} 2 & 2 \\ & 2 \end{bmatrix}_1^{15}$ | I: 25,2 | $\frac{48}{25}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|---------|---------------|
| $x^{15} + 90x^{14} + 495x^{13} +$ $545x^{12} + 480x^{11} + 353x^{10} +$ $340x^9 + 205x^8 + 305x^7 +$ $90x^6 + 97x^5 + 55x^4 + 590x^3 +$ $565x^2 + 305x + 218$ | $x^{15} - 5x^{14} + 30x^{13} + 85x^{12} -$ $450x^{11} + 4378x^{10} - 3490x^9 + 9380x^8 +$ $119925x^7 - 163475x^6 + 315964x^5 +$ $581555x^4 + 1896065x^3 + 1920005x^2 +$ $1613410x + 11865113$ | $\begin{bmatrix} 12 \\ 2 \\ 1 \end{bmatrix}$ | I: 5,1 | $\frac{8}{5}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--------------------------------------|--|----------|-------------------|
| $x^{15} - 13530x^{13} - 60885x^{12} +$ | $67652255x^{11} + 564497758x^{10} -$ | | | |
| $152988062150x^9 -$ | $1730278405735x^8 +$ | | | |
| $x^{15} + 135x^{14} + 235x^{13} +$ | $154528434195080x^7 +$ | | | |
| $490x^{12} + 405x^{11} + 503x^{10} +$ | $2043119020887560x^6 -$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |
| $470x^9 + 210x^8 + 550x^7 +$ | $57314927047222537x^5 -$ | | | |
| $430x^6 + 537x^5 + 530x^4 +$ | $749397899781502400x^4 +$ | | | |
| $295x^3 + 560x^2 + 410x + 288$ | $5919452842276596920x^3 +$ | | | |
| | $85188576605977466215x^2 +$ | | | |
| | $185248819860670339180x -$ | | | |
| | 206820384919059679669 | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} + 390x^{14} + 55x^{13} + 240x^{12} + 400x^{11} + 208x^{10} + 505x^9 + 115x^8 + 360x^7 + 185x^6 + 347x^5 + 600x^4 + 565x^3 + 525x^2 + 290x + 608$ | $x^{15} - 990x^{13} - 8580x^{12} + 270105x^{11} + 4466220x^{10} - 3636050x^9 - 537936960x^8 - 4482291330x^7 - 11670500820x^6 + 30183993048x^5 + 259451563800x^4 + 586180672165x^3 + 413812478640x^2 - 215920037520x - 286824153792$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 2 \\ & & & 2 \\ & & & & 2 \\ & & & & & 2 \\ & & & & & & 2 \\ & & & & & & & 2 \\ & & & & & & & & 2 \\ & & & & & & & & & 2 \\ & & & & & & & & & & 2 \end{bmatrix}_1^6$ | I: 125,5 | $\frac{248}{125}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|---------|-----------------|
| $x^{15} - 4180x^{13} - 76010x^{12} +$ $4707120x^{11} + 171319500x^{10} +$ $380632725x^9 - 64599686305x^8 -$ $1080227091020x^7 -$ $1302083854390x^6 +$ $144036618452991x^5 +$ $1827573911298300x^4 +$ $10043234975446035x^3 +$ $24347243897070930x^2 +$ $9340304205459535x -$ 37074934376752679 | | $\begin{bmatrix} 2 & 2 \\ & 1 \end{bmatrix}^{15}$ | I: 25,2 | $\frac{48}{25}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|----------|-------------------|
| $x^{15} - 4180x^{13} - 51040x^{12} +$ $5576120x^{11} + 122723700x^{10} -$ $2138315025x^9 - 78602307245x^8 -$ $175724424370x^7 +$ $13419862390440x^6 +$ $115874710524661x^5 -$ $346302111628550x^4 -$ $5829713001672615x^3 -$ $1337399851000180x^2 +$ $75054628890136885x -$ 2296513332507911 | | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--------------------------------------|--|----------|-------------------|
| $x^{15} - 13530x^{13} - 27060x^{12} +$ | $61180405x^{11} + 233396108x^{10} -$ | | | |
| $109841625025x^9 - 358135259735x^8 +$ | $77571670930105x^7 -$ | | | |
| $x^{15} + 295x^{14} + 465x^{13} +$ | $62646748297265x^6 -$ | | | |
| $445x^{12} + 225x^{11} + 178x^{10} +$ | $20434176087146162x^5 +$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |
| $25x^9 + 610x^8 + 315x^7 +$ | $114417600447500350x^4 +$ | | | |
| $595x^6 + 537x^5 + 375x^4 +$ | $641102811025506170x^3 -$ | | | |
| $410x^3 + 405x^2 + 410x + 618$ | $2267699160733826710x^2 -$ | | | |
| | $10924863247958720170x -$ | | | |
| | 9155836700421581269 | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} + 280x^{14} + 105x^{13} + 140x^{12} + 430x^{11} + 508x^{10} + 185x^9 + 425x^8 + 305x^7 + 90x^6 + 112x^5 + 65x^4 + 165x^3 + 85x^2 + 440x + 573$ | $x^{15} + 100x^{13} - 620x^{12} + 4780x^{11} - 43276x^{10} + 239150x^9 - 1192620x^8 + 6121385x^7 - 25380800x^6 + 67277858x^5 - 111387100x^4 + 108628535x^3 - 62392920x^2 + 15149680x - 1241024$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & & 12 \\ & & & & 1 \end{bmatrix}$ | I: 125, 5 | $\frac{248}{125}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|----------|-------------------|
| $x^{15} - 13530x^{13} - 6765x^{12} +$ $62071130x^{11} + 69885607x^{10} -$ $125223825650x^9 - 139546307065x^8 +$ $117783565552730x^7 +$ $129974991299615x^6 -$ $47033062047052642x^5 -$ $80006868396366725x^4 +$ $5640592718550781970x^3 +$ $8179961321717759035x^2 -$ $64490253789796455995x -$ 114913548870979529341 | | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |
| $x^{15} + 40x^{14} + 385x^{13} +$ $460x^{12} + 80x^{11} + 543x^{10} +$ $595x^9 + 360x^8 + 560x^7 +$ $425x^6 + 482x^5 + 335x^4 +$ $585x^3 + 180x^2 + 5x + 163$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---------------------------------------|---------------------------------------|--|----------|-------------------|
| x^{15} | $- 13530x^{13} - 162360x^{12} +$ | | | |
| | $67336555x^{11} + 1457849833x^{10} -$ | | | |
| | $146148703525x^9$ | | | |
| | $4381839266860x^8$ | | | |
| $x^{15} + 610x^{14} + 235x^{13} +$ | $122473489195255x^7$ | | | |
| $395x^{12} + 615x^{11} + 113x^{10} +$ | $5017971350381660x^6$ | | | |
| $30x^9 + 180x^8 + 555x^7 + 70x^6 +$ | $9259220822773262x^5$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |
| $342x^5 + 555x^4 + 330x^3 +$ | $1593306225538263775x^4$ | | | |
| $235x^2 + 340x + 208$ | $11619562775987163580x^3$ | | | |
| | $11955585528454843385x^2$ | | | |
| | $50850417097756625855x$ | | | |
| | 5513766950744696281 | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---------------------------------------|--|----------|-------------------|
| $x^{15} - 13530x^{13} - 128535x^{12} +$ | $67967955x^{11} + 1188546458x^{10} -$ | | | |
| $149784496400x^9$ | $3564446923235x^8$ | | | |
| $x^{15} + 165x^{14} + 540x^{13} +$ | $131084526465530x^7$ | | | |
| $470x^{12} + 540x^{11} + 208x^{10} +$ | $3791994258011960x^6$ | | | |
| $490x^9 + 415x^8 + 150x^7 +$ | $31179032619668087x^5$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |
| $35x^6 + 307x^5 + 295x^4 +$ | $1247155453228782900x^4$ | | | |
| $485x^3 + 260x^2 + 485x + 353$ | $2041957965586723580x^3$ | | | |
| | $89132876912843518315x^2$ | | | |
| | $516696528413364984630x$ | | | |
| | 683258366912263610831 | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|---------|---------------|
| $x^{15} + 10x^{14} + 305x^{13} + 75x^{12} +$ $235x^{11} + 253x^{10} + 40x^9 +$ $285x^8 + 30x^7 + 380x^6 +$ $457x^5 + 295x^4 + 535x^3 +$ $330x^2 + 275x + 43$ | $x^{15} - 5x^{14} - 330x^{13} - 350x^{12} +$ $40005x^{11} + 261511x^{10} - 902850x^9 -$ $17817375x^8 - 91149585x^7 -$ $227912245x^6 - 256360607x^5 +$ $23922235x^4 + 342275965x^3 +$ $269383600x^2 + 46044230x - 2362249$ | $\begin{bmatrix} 3 \\ 2 \\ 1 \end{bmatrix}$ | I: 5,1 | $\frac{8}{5}$ |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|---------|-----------------|
| $x^{15} - 13530x^{13} - 27060x^{12} + 63784930x^{11} + 247792028x^{10} - 133334440525x^9 - 636418337885x^8 + 124765854060430x^7 + 583468467841435x^6 - 43109528146735622x^5 - 185588866130019275x^4 + 1663187501829196145x^3 + 4178005296937939115x^2 + 656489039516097755x - 1855481225309242399$ | | | | |
| $x^{15} + 35x^{14} + 360x^{13} + 565x^{12} + 480x^{11} + 198x^{10} + 45x^9 + 560x^8 + 200x^7 + 605x^6 + 487x^5 + 380x^4 + 345x^3 + 235x^2 + 510x + 398$ | | $\begin{bmatrix} 2 & 2 \\ & 2 \end{bmatrix}_1^{15}$ | I: 25,2 | $\frac{48}{25}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|---------|---------------|
| $x^{15} + 270x^{14} + 260x^{13} +$ $595x^{12} + 210x^{11} + 498x^{10} +$ $25x^9 + 470x^8 + 10x^7 + 90x^6 +$ $102x^5 + 15x^4 + 380x^3 +$ $425x^2 + 140x + 528$ | $x^{15} - 5x^{14} + 30x^{13} - 50x^{12} + 165x^{11} +$ $320x^{10} - 780x^9 + 4495x^8 - 3845x^7 -$ $7535x^6 + 12671x^5 + 43890x^4 -$ $27335x^3 + 26945x^2 + 29265x - 23519$ | $\begin{bmatrix} 6 \\ 2 \\ 1 \end{bmatrix}$ | I: 5,1 | $\frac{8}{5}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---------------------------------------|--------------------------------------|--|----------|-------------------|
| x^{15} | $- 13530x^{13} - 74415x^{12} +$ | | | |
| | $64822230x^{11} + 663406117x^{10} -$ | | | |
| | $141089103650x^9 -$ | | | |
| | $2138052662515x^8 +$ | | | |
| $x^{15} + 305x^{14} + 30x^{13} +$ | $137278575077930x^7 +$ | | | |
| $460x^{12} + 370x^{11} + 133x^{10} +$ | $2902183003023865x^6 -$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |
| $300x^9 + 480x^8 + 450x^7 +$ | $38583943367301662x^5 -$ | | | |
| $525x^6 + 72x^5 + 15x^4 + 355x^3 +$ | $1363453228393032975x^4 -$ | | | |
| $160x^2 + 235x + 568$ | $11034092685432707330x^3 -$ | | | |
| | $25136220220237652515x^2 +$ | | | |
| | $22179456742859650905x +$ | | | |
| | 1626812289267163669 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---------------------|--------------------------------------|--|----------|-------------------|
| x^{15} | $- 13530x^{13} - 96965x^{12} +$ | | | |
| | $62601055x^{11} + 828560062x^{10} -$ | | | |
| | $120952404650x^9 -$ | | | |
| | $2454219176915x^8 +$ | | | |
| | $94233767262580x^7 +$ | | | |
| | $2674058077546240x^6 -$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |
| | $18900338281902077x^5 -$ | | | |
| | $984428392170713600x^4 -$ | | | |
| | $2491089294336234680x^3 +$ | | | |
| | $107276023678456630635x^2 +$ | | | |
| | $408398928438610937080x -$ | | | |
| | 3606125800057270675361 | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---------------------------------------|------------------------------------|--|----------|-------------------|
| $x^{15} - 4180x^{13} - 8415x^{12} +$ | $6916470x^{11} + 28292495x^{10} -$ | | | |
| $5683569650x^9 - 34926531420x^8 +$ | $2342412326155x^7 +$ | | | |
| $350x^{12} + 15x^{14} + 135x^{13} +$ | $18857337294565x^6 -$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |
| $350x^{12} + 410x^{11} + 248x^{10} +$ | $405274681085109x^5 -$ | | | |
| $450x^9 + 270x^8 + 525x^7 +$ | $3844649430516675x^4 +$ | | | |
| $470x^6 + 122x^5 + 585x^4 +$ | $9576371202658535x^3 +$ | | | |
| $115x^3 + 205x^2 + 595x + 363$ | $51994637661826695x^2 -$ | | | |
| | $8111664701802365x +$ | | | |
| | 309530058239149 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} + 345x^{14} + 90x^{13} +$ $575x^{12} + 510x^{11} + 13x^{10} +$ $510x^9 + 205x^8 + 470x^7 +$ $510x^6 + 547x^5 + 600x^4 +$ $570x^3 + 180x^2 + 565x + 148$ | $x^{15} - 380x^{13} - 1135x^{12} + 43870x^{11} +$ $218375x^{10} - 1379650x^9 - 7149580x^8 +$ $20861005x^7 + 77243385x^6 -$ $173837089x^5 - 190499325x^4 +$ $3550866035x^3 + 152559155x^2 -$ $177454765x - 44410339$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--------------------------------------|--|----------|-------------------|
| $x^{15} - 13530x^{13} - 40590x^{12} +$ | $66648780x^{11} + 379598582x^{10} -$ | | | |
| $148182713525x^9 -$ | $1191129477065x^8 +$ | | | |
| $x^{15} + 200x^{14} + 590x^{12} +$ | $147847535119130x^7 +$ | | | |
| $55x^{11} + 598x^{10} + 300x^9 +$ | $1561735875534065x^6 -$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |
| $440x^8 + 410x^7 + 550x^6 +$ | $53683049601809342x^5 -$ | | | |
| $312x^5 + 525x^4 + 335x^3 +$ | $754025718910251975x^4 +$ | | | |
| $360x^2 + 470x + 263$ | $974430273424628845x^3 +$ | | | |
| | $30745241481799718335x^2 +$ | | | |
| | $45419375663300398155x -$ | | | |
| | 77079791162870657491 | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} + 565x^{14} + 275x^{13} + 375x^{12} + 555x^{11} + 38x^{10} + 500x^9 + 315x^8 + 140x^7 + 10x^6 + 287x^5 + 140x^4 + 230x^3 + 195x^2 + 230x + 113$ | $x^{15} - 1230x^{13} - 1435x^{12} + 512705x^{11} + 1080268x^{10} - 92286900x^9 - 358952335x^8 + 7586235330x^7 + 46105812410x^6 - 213083571767x^5 - 2102841738900x^4 + 1851485473480x^3 + 16848614780515x^2 + 25965968141330x - 28711746251909$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & & 1 \end{bmatrix}^3$ | I: 125, 5 | $\frac{248}{125}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|----------|-------------------|
| $x^{15} - 4180x^{13} - 43560x^{12} +$ $5813445x^{11} + 102138575x^{10} -$ $2909750525x^9 - 68087641380x^8 +$ $408117557980x^7 +$ $14417244130135x^6 -$ $910494061389x^5 -$ $802452657130575x^4 +$ $1204728717408260x^3 +$ $3725687920956705x^2 -$ $1236549803125340x -$ 304141119600989 | | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|---------|---------------|
| $x^{15} + 125x^{14} + 450x^{13} + 530x^{12} + 410x^{11} + 568x^{10} + 80x^9 + 250x^8 + 575x^7 + 270x^6 + 287x^5 + 500x^4 + 40x^3 + 460x^2 + 360x + 143$ | $x^{15} - 5x^{14} - 330x^{13} + 805x^{12} + 42810x^{11} - 8858x^{10} - 2587170x^9 - 3530520x^8 + 69748405x^7 + 146444045x^6 - 802672956x^5 - 1778220085x^4 + 3494186045x^3 + 5796971545x^2 - 4690437630x - 2229758651$ | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}_1^3$ | I: 5,1 | $\frac{8}{5}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|----------|-------------------|
| $x^{15} - 4180x^{13} - 7810x^{12} +$ $5894295x^{11} + 10735230x^{10} -$ $3332675775x^9 + 1752944545x^8 +$ $806799269155x^7 -$ $1676864087690x^6 -$ $83199770344284x^5 +$ $195716800066425x^4 +$ $3572222009854410x^3 -$ $7628942898192495x^2 -$ $50563840276942190x +$ 106922929586268851 | | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---------------------------------------|------------------------------------|---|---------|-----------------|
| $x^{15} - 4180x^{13} - 33715x^{12} +$ | $5450170x^{11} + 71303650x^{10} -$ | | | |
| $2236914900x^9 - 29328166945x^8 +$ | $3947032262030x^7 +$ | | | |
| $390x^{12} + 235x^{14} + 525x^{13} +$ | $4241127968165x^6 -$ | | | |
| $395x^9 + 530x^8 + 590x^7 +$ | $36092549327109x^5 -$ | $\begin{bmatrix} 2 & 2 \\ & 2 \end{bmatrix}_1^{15}$ | I: 25,2 | $\frac{48}{25}$ |
| $470x^6 + 112x^5 + 510x^4 +$ | $248889991186925x^4 +$ | | | |
| $260x^3 + 450x^2 + 370x + 563$ | $1728465855692785x^3 +$ | | | |
| | $4435453567627170x^2 -$ | | | |
| | $34542246935468965x +$ | | | |
| | 42758524605476779 | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} - 13530x^{13} - 117260x^{12} +$ $65149205x^{11} + 1023056518x^{10} -$ $138927968025x^9$ | $3127277153935x^8$ | | | |
| $x^{15} + 45x^{14} + 50x^{13} + 80x^{12} +$ $325x^{11} + 133x^{10} + 20x^9 +$ $455x^8 + 310x^7 + 210x^6 +$ $592x^5 + 220x^4 + 40x^3 +$ $365x^2 + 85x + 523$ | $126349152869555x^7$ $3915149256495785x^6$ $28680367081024142x^5$ $1779820466063630650x^4$ $12374921935862205280x^3$ $73058793985661943690x^2$ $579074968294045407580x$ 1410917212398544801159 | $\begin{bmatrix} 2 & 2 & 2 \\ & & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|----------|-------------------|
| $x^{15} - 4180x^{13} - 3740x^{12} +$ $6290845x^{11} + 7366700x^{10} -$ $4322395275x^9 - 1973460995x^8 +$ $1421777975805x^7 -$ $2136761289410x^6 -$ $218497148243814x^5 +$ $900685068380075x^4 +$ $11422746470136760x^3 -$ $85476009783837255x^2 +$ $186619487186540210x -$ 127993607303602711 | | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---------------------------------------|--|----------|-------------------|
| $x^{15} - 13530x^{13} - 153340x^{12} +$ | $66051205x^{11} + 1422179792x^{10} -$ | | | |
| $129571522025x^9 -$ | $3966220850515x^8 +$ | | | |
| $x^{15} + 395x^{14} + 220x^{13} +$ | $72514979689405x^7 +$ | | | |
| $460x^{12} + 620x^{11} + 298x^{10} +$ | $3034538586406415x^6 -$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |
| $105x^9 + 560x^8 + 310x^7 +$ | $6890314839191762x^5 -$ | | | |
| $520x^6 + 452x^5 + 85x^4 +$ | $850427229050490850x^4 -$ | | | |
| $170x^3 + 160x^2 + 195x + 8$ | $4031986560390239330x^3 +$ | | | |
| | $71391930388730706810x^2 +$ | | | |
| | $731865479196913983130x +$ | | | |
| | 1883697717004826843219 | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---------------------------------------|--------------------------------------|--|----------|-------------------|
| x^{15} | $- 13530x^{13} - 74415x^{12} +$ | | | |
| | $60470080x^{11} + 667158437x^{10} -$ | | | |
| | $101832710650x^9 -$ | | | |
| | $1496810669915x^8 +$ | | | |
| $x^{15} + 30x^{14} + 550x^{13} +$ | $55749514968730x^7 +$ | | | |
| $255x^{12} + 120x^{11} + 483x^{10} +$ | $844071194759815x^6 -$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 1 \end{bmatrix}^3$ | I: 125,5 | $\frac{248}{125}$ |
| $265x^9 + 470x^8 + 40x^7 +$ | $6293730795193952x^5 -$ | | | |
| $330x^6 + 282x^5 + 280x^4 +$ | $50347502624509475x^4 +$ | | | |
| $15x^3 + 430x^2 + 435x + 563$ | $211174427440840820x^3 +$ | | | |
| | $458885947326824435x^2 -$ | | | |
| | $1501449255784821145x -$ | | | |
| | 119350281985696861 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{15} + 70x^{14} + 65x^{13} + 15x^{12} +$ $365x^{11} + 543x^{10} + 540x^9 +$ $615x^8 + 110x^7 + 30x^6 +$ $612x^5 + 475x^4 + 600x^3 +$ $155x^2 + 405x + 168$ | $x^{15} - 1230x^{13} - 2460x^{12} +$ $522955x^{11} + 2052583x^{10} -$ $89555275x^9 - 546678010x^8 +$ $5145801555x^7 + 46801410210x^6 -$ $7456246962x^5 - 1057939073025x^4 -$ $3652084505030x^3 -$ $4441581796735x^2 -$ $1139460210245x + 741673423331$ | $\begin{bmatrix} 2 & 2 & 2 \\ & & 2 \\ & & & 2 \end{bmatrix}_1^3$ | I: 125,5 | $\frac{248}{125}$ |
| $x^{15} + 140x^{14} + 340x^{13} +$ $80x^{12} + 510x^{11} + 58x^{10} +$ $210x^9 + 280x^8 + 560x^7 +$ $315x^6 + 582x^5 + 320x^4 +$ $430x^3 + 435x^2 + 470x + 443$ | $x^{15} - 5x^{14} - 330x^{13} - 20x^{12} +$ $40335x^{11} + 185567x^{10} - 1374420x^9 -$ $14377895x^8 - 42788195x^7 -$ $19757705x^6 + 127877819x^5 +$ $184526415x^4 - 53814455x^3 -$ $174845680x^2 - 29515980x + 3975049$ | $\begin{bmatrix} 2 \\ & 2 \\ & & 2 \end{bmatrix}_1^3$ | I: 5,1 | $\frac{8}{5}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|----------|-------------------|
| $x^{15} - 13530x^{13} - 162360x^{12} +$ $65183030x^{11} + 1472284088x^{10} -$ $123164390525x^9$ $3877603102835x^8$ $61276265920430x^7$ $2440184423503585x^6$ $11324609421818902x^5$ $518032044019003525x^4$ $1716723725861429945x^3$ $36012843982406357165x^2$ $142560463355145874445x$ 176180804954941022489 | $x^{15} - 13530x^{13} - 162360x^{12} +$ $65183030x^{11} + 1472284088x^{10} -$ $123164390525x^9$ $3877603102835x^8$ $61276265920430x^7$ $2440184423503585x^6$ $11324609421818902x^5$ $518032044019003525x^4$ $1716723725861429945x^3$ $36012843982406357165x^2$ $142560463355145874445x$ 176180804954941022489 | $\begin{bmatrix} 2 & 2 & 2 \\ & 2 & 2 \\ & & 2 \end{bmatrix}_1^3$ | I: 125,5 | $\frac{248}{125}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|---------|---------------|
| $x^{15} + 375x^{14} + 415x^{13} +$ $575x^{12} + 520x^{11} + 378x^{10} +$ $145x^9 + 275x^8 + 85x^7 +$ $545x^6 + 127x^5 + 380x^4 +$ $470x^3 + 615x + 368$ | $x^{15} - 5x^{14} - 30x^{13} + 150x^{12} + 305x^{11} -$ $1539x^{10} - 1350x^9 + 6825x^8 + 3115x^7 -$ $13645x^6 - 4757x^5 + 11735x^4 +$ $3765x^3 - 3500x^2 - 770x + 301$ | $\begin{bmatrix} 3 \\ 2 \\ 1 \end{bmatrix}$ | I: 5,1 | $\frac{8}{5}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|--------------------|
| $x^{15} - 19475x^{13} + 141414125x^{11} -$ $277701200x^{10} - 498384981250x^9 +$ $1801577709750x^8 +$ $902874792015625x^7 -$ $3104695400511250x^6 -$ $824408961383413900x^5 +$ $389758362695406250x^4 +$ $358535854312676243125x^3 +$ $1335479189892759843750x^2 -$ $52611944618708547800000x -$ 337729747814394670189000 | $x^{15} - 19475x^{13} + 141414125x^{11} -$ $277701200x^{10} - 498384981250x^9 +$ $1801577709750x^8 +$ $902874792015625x^7 -$ $3104695400511250x^6 -$ $824408961383413900x^5 +$ $389758362695406250x^4 +$ $358535854312676243125x^3 +$ $1335479189892759843750x^2 -$ $52611944618708547800000x -$ 337729747814394670189000 | $\begin{bmatrix} 5 & 5 & 9 \\ 4 & 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|------------|--------------------|
| $x^{15} + 290x^{14} + 85x^{13} + 275x^{12} + 25x^{11} + 408x^{10} + 350x^9 + 405x^8 + 395x^7 + 145x^6 + 64x^5 + 290x^4 + 145x^3 + 35x^2 + 570x + 373$ | $x^{15} - 475x^{13} + 84125x^{11} - 16720x^{10} - 7231250x^9 + 2414750x^8 + 319515625x^7 - 75416250x^6 - 7015308300x^5 - 1304468750x^4 + 67273513125x^3 + 49089218750x^2 - 151373300000x - 105590017000$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 5 \\ 4 \\ 4 \\ 4 \end{array} \right]_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |
| $x^{15} + 140x^{14} + 610x^{13} + 575x^{12} + 475x^{11} + 608x^{10} + 375x^9 + 580x^8 + 445x^7 + 70x^6 + 349x^5 + 290x^4 + 270x^3 + 610x^2 + 495x + 248$ | $x^{15} - 975x^{13} + 380250x^{11} - 98280x^{10} - 75521875x^9 + 63882000x^8 + 8032781250x^7 - 14533155000x^6 - 432652129975x^5 + 1349507250000x^4 + 8628883648125x^3 + 43858985625000x^2 + 51901049200000x - 11656543808000$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 5 \\ 4 \\ 4 \\ 4 \end{array} \right]_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|--------------------|
| $x^{15} + 190x^{14} + 485x^{13} + 50x^{12} + 375x^{11} + 588x^{10} + 75x^9 + 180x^8 + 370x^7 + 520x^6 + 559x^5 + 440x^4 + 395x^3 + 160x^2 + 245x + 513$ | $x^{15} - 975x^{13} + 380250x^{11} - 79040x^{10} - 75521875x^9 + 51376000x^8 + 8032781250x^7 - 11688040000x^6 - 434511129975x^5 + 1085318000000x^4 + 9233058648125x^3 - 35272835000000x^2 + 12629674200000x + 42661451456000$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{5}{4} \frac{9}{4} \right]_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|------------|--------------------|
| $x^{15} - 19475x^{13} + 141414125x^{11} -$ $119310000x^{10} - 498384981250x^9 +$ $620816413750x^8 +$ $902874792015625x^7 -$ $360276343131250x^6 -$ $806318609201397500x^5 -$ $1667482890675468750x^4 +$ $298761188782377953125x^3 +$ $1517472482514614843750x^2 -$ $18008760897572038750000x -$ 53401970947032592625000 | $x^{15} - 19475x^{13} + 141414125x^{11} -$ $119310000x^{10} - 498384981250x^9 +$ $620816413750x^8 +$ $902874792015625x^7 -$ $360276343131250x^6 -$ $806318609201397500x^5 -$ $1667482890675468750x^4 +$ $298761188782377953125x^3 +$ $1517472482514614843750x^2 -$ $18008760897572038750000x -$ 53401970947032592625000 | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|------------|--------------------|
| $x^{15} - 39975x^{13} + 639200250x^{11} - 1040607880x^{10} - 5205043146875x^9 + 27732200002000x^8 + 22698719977781250x^7 - 258672095518655000x^6 - 50286124304512169775x^5 + 984801620796022250000x^4 + 43129319991301291158125x^3 - 1312248159710699648125000x^2 + 4401591377914329346800000x + 80251099674401661498688000$ | | $\left[\begin{array}{c} 5 \\ 4 \end{array} \quad \begin{array}{c} 5 \\ 4 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|------------|--------------------|
| $x^{15} - 39975x^{13} + 639200250x^{11} -$ $1090267490x^{10} - 5205043146875x^9 +$ $29055628608500x^8 +$ $22698719977781250x^7 -$ $271016375845783750x^6 -$ $50096843671174073475x^5 +$ $1031798059470019562500x^4 +$ $40607155552071157960625x^3 -$ $1374870914243801067031250x^2 +$ $11123159608462634318137500x -$ $24838978555959314420479000$ | $x^{15} - 39975x^{13} + 639200250x^{11} -$ $1090267490x^{10} - 5205043146875x^9 +$ $29055628608500x^8 +$ $22698719977781250x^7 -$ $271016375845783750x^6 -$ $50096843671174073475x^5 +$ $1031798059470019562500x^4 +$ $40607155552071157960625x^3 -$ $1374870914243801067031250x^2 +$ $11123159608462634318137500x -$ $24838978555959314420479000$ | $\begin{bmatrix} 5 & 5 & 9 \\ 4 & 4 & 4 \end{bmatrix}^3_4$ | I: 500, 48 | $\frac{1023}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|--------------------|
| $x^{15} - 19475x^{13} + 141414125x^{11} -$ $190625400x^{10} - 498384981250x^9 +$ $1144605507500x^8 +$ $902874792015625x^7 -$ $1546079809137500x^6 -$ $813986544888432500x^5 -$ $835196491490156250x^4 +$ $323551143677136578125x^3 +$ $1483865766547510937500x^2 -$ $31754727404116734062500x -$ 149454960006665301625000 | $x^{15} - 19475x^{13} + 141414125x^{11} -$ $190625400x^{10} - 498384981250x^9 +$ $1144605507500x^8 +$ $902874792015625x^7 -$ $1546079809137500x^6 -$ $813986544888432500x^5 -$ $835196491490156250x^4 +$ $323551143677136578125x^3 +$ $1483865766547510937500x^2 -$ $31754727404116734062500x -$ 149454960006665301625000 | $\begin{bmatrix} 5 & 5 & 9 \\ 4 & 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|--------------------|
| $x^{15} - 19475x^{13} + 141414125x^{11} -$ $111733200x^{10} - 498384981250x^9 +$ $565746853750x^8 +$ $902874792015625x^7 -$ $237976028631250x^6 -$ $805583196529767500x^5 -$ $1748965475211093750x^4 +$ $296428004532504203125x^3 +$ $1517472482514614843750x^2 -$ $16765173692389330000000x -$ 46279415267604540125000 | $x^{15} - 19475x^{13} + 141414125x^{11} -$ $111733200x^{10} - 498384981250x^9 +$ $565746853750x^8 +$ $902874792015625x^7 -$ $237976028631250x^6 -$ $805583196529767500x^5 -$ $1748965475211093750x^4 +$ $296428004532504203125x^3 +$ $1517472482514614843750x^2 -$ $16765173692389330000000x -$ 46279415267604540125000 | $\begin{bmatrix} 5 & 5 & 9 \\ 4 & 4 & 4 \end{bmatrix}^3_4$ | I: 500, 48 | $\frac{1023}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|------------|--------------------|
| $x^{15} - 39975x^{13} + 639200250x^{11} - 1123244200x^{10} - 5205043146875x^9 + 299344579300000x^8 + 22698719977781250x^7 - 279213656342075000x^6 - 50080485551868419375x^5 + 1063006277359471250000x^4 + 40389183612323317078125x^3 - 1416455864581495440625000x^2 + 117040548278906302700000000x - 27957319885163764472000000$ | $x^{15} - 39975x^{13} + 639200250x^{11} - 1123244200x^{10} - 5205043146875x^9 + 299344579300000x^8 + 22698719977781250x^7 - 279213656342075000x^6 - 50080485551868419375x^5 + 1063006277359471250000x^4 + 40389183612323317078125x^3 - 1416455864581495440625000x^2 + 117040548278906302700000000x - 27957319885163764472000000$ | $\begin{bmatrix} 5 & 5 & 9 \\ 4 & 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |
| $x^{15} + 140x^{14} + 10x^{13} + 100x^{12} + 525x^{11} + 333x^{10} + 100x^9 + 230x^8 + 245x^7 + 220x^6 + 369x^5 + 590x^4 + 270x^3 + 510x^2 + 520x + 563$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|------------|--------------------|
| $x^{15} - 19475x^{13} + 141414125x^{11} -$ $260218800x^{10} - 498384981250x^9 +$ $1667629746250x^8$ | $+ 902874792015625x^7 -$ $2778765062368750x^6 -$ $822303140989167500x^5 +$ $119313784498593750x^4 +$ $351327392708409203125x^3 +$ $1377875354651260156250x^2 -$ $48162043165656355000000x -$ 294382009617122769875000 | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |
| $x^{15} + 265x^{14} + 610x^{13} +$ $350x^{12} + 250x^{11} + 463x^{10} +$ $475x^9 + 30x^8 + 20x^7 + 220x^6 +$ $344x^5 + 415x^4 + 95x^3 +$ $360x^2 + 145x + 478$ | | | | |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---------------------------------------|---------------------------------------|--|------------|--------------------|
| $x^{15} - 975x^{13} + 380250x^{11} -$ | $x^{15} - 975x^{13} + 380250x^{11} -$ | | | |
| $88400x^{10} - 75521875x^9 +$ | $88400x^{10} - 75521875x^9 +$ | | | |
| $57460000x^8 + 8032781250x^7 -$ | $57460000x^8 + 8032781250x^7 -$ | | | |
| $13072150000x^6 - 435169824375x^5 +$ | $13072150000x^6 - 435169824375x^5 +$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{5}{4} \frac{9}{4} \right]_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |
| $1213842500000x^4 +$ | $1213842500000x^4 +$ | | | |
| $9447134328125x^3 -$ | $9447134328125x^3 -$ | | | |
| $39449881250000x^2 -$ | $39449881250000x^2 -$ | | | |
| $12852450000000x + 105789944000000$ | $12852450000000x + 105789944000000$ | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|------------|--------------------|
| $x^{15} - 19475x^{13} + 141414125x^{11} -$ $330484600x^{10} - 498384981250x^9 +$ $2216189215500x^8$ | $+ 902874792015625x^7 -$ $4153522514277500x^6 -$ $830306652943842100x^5 +$ $1328360134084343750x^4 +$ $379416721110206138125x^3 +$ $1144696448479508437500x^2 -$ $66241463665271228262500x -$ 476681176711402843193000 | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |
| $x^{15} + 215x^{14} + 60x^{13} + 25x^{12} +$ $425x^{11} + 323x^{10} + 525x^9 +$ $505x^8 + 270x^7 + 445x^6 +$ $364x^5 + 490x^4 + 145x^3 +$ $160x^2 + 570x + 188$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|------------|--------------------|
| $x^{15} - 39975x^{13} + 639200250x^{11} - 437060000x^{10} - 5205043146875x^9 + 116476490000000x^8 + 22698719977781250x^7 - 108643446047500000x^6 - 50924795557044329375x^5 + 413621119595125000000x^4 + 51639614431292317828125x^3 - 551150141860504062500000x^2 - 18278343304661756728750000x + 249312105290428780067000000$ | | | | |
| $x^{15} + 465x^{14} + 210x^{13} + 575x^{12} + 400x^{11} + 113x^{10} + 500x^9 + 430x^8 + 220x^7 + 395x^6 + 54x^5 + 465x^4 + 295x^3 + 560x^2 + 545x + 8$ | | $\begin{bmatrix} 5 & 5 & 9 \\ 4 & 4 & 4 \end{bmatrix}^3_4$ | I: 500, 48 | $\frac{1023}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|--------------------|
| $x^{15} + 140x^{14} + 185x^{13} + 425x^{11} + 518x^{10} + 525x^9 + 330x^8 + 120x^7 + 420x^6 + 89x^5 + 40x^4 + 445x^3 + 110x^2 + 370x + 208$ | $x^{15} - 475x^{13} + 84125x^{11} - 35600x^{10} - 7231250x^9 + 6061250x^8 + 319515625x^7 - 303143750x^6 - 7185457500x^5 + 3776093750x^4 + 82147203125x^3 + 22313281250x^2 - 392713750000x - 453405875000$ | $\begin{bmatrix} 5 & 5 & 9 \\ 4 & 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |
| $x^{15} + 590x^{14} + 585x^{13} + 425x^{12} + 50x^{11} + 448x^{10} + 350x^9 + 255x^8 + 70x^7 + 445x^6 + 509x^5 + 440x^4 + 320x^3 + 285x^2 + 220x + 138$ | $x^{15} - 475x^{13} + 84125x^{11} - 25000x^{10} - 7231250x^9 + 3932500x^8 + 319515625x^7 - 162662500x^6 - 7106872500x^5 + 343281250x^4 + 74732328125x^3 + 44626562500x^2 - 258834062500x - 253478875000$ | $\begin{bmatrix} 5 & 5 & 9 \\ 4 & 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|------------|--------------------|
| $x^{15} - 19475x^{13} + 141414125x^{11} -$ $448961480x^{10} - 498384981250x^9 +$ $3735759423500x^8$ | $+ 902874792015625x^7 -$ $10319841653257500x^6$ | | | |
| $x^{15} + 165x^{14} + 235x^{13} +$ $225x^{12} + 75x^{11} + 403x^{10} +$ $300x^9 + 180x^8 + 20x^7 +$ $145x^6 + 299x^5 + 515x^4 +$ $170x^3 + 510x^2 + 520x + 228$ | $793906547064686900x^5 +$ $10826961111295468750x^4 -$ $282157704200873678125x^3 -$ $3290594633948216562500x^2 -$ $38150778390405041562500x +$ 210978943315492418443000 | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---------------------------------------|--|------------|--------------------|
| $x^{15} - 19475x^{13} + 141414125x^{11} -$ | $388079760x^{10} - 498384981250x^9 +$ | | | |
| $2754073494250x^8 +$ | $902874792015625x^7 -$ | | | |
| $x^{15} + 515x^{14} + 210x^{13} +$ | $5841164937448750x^6 -$ | | | |
| $50x^{12} + 450x^{11} + 28x^{10} +$ | $829374693127108700x^5 +$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |
| $275x^9 + 605x^8 + 445x^7 +$ | $3376289092079718750x^4 +$ | | | |
| $545x^6 + 179x^5 + 90x^4 +$ | $381697645212690893125x^3 +$ | | | |
| $245x^3 + 10x^2 + 95x + 338$ | $410001934798667656250x^2 -$ | | | |
| | $73492156141053853450000x -$ | | | |
| | 510984167375169572279000 | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|------------|--------------------|
| $x^{15} - 39975x^{13} + 639200250x^{11} -$ $1069704350x^{10} - 5205043146875x^9 +$ $28507620927500x^8 +$ $22698719977781250x^7 -$ $265904834201256250x^6 -$ $50114407378599711875x^5 +$ $1012337690209068437500x^4 +$ $40841191953517789640625x^3 -$ $1348939972203583692968750x^2 +$ $10499452598607360890937500x -$ $18574895997914514714625000$ | $x^{15} - 39975x^{13} + 639200250x^{11} -$ $1069704350x^{10} - 5205043146875x^9 +$ $28507620927500x^8 +$ $22698719977781250x^7 -$ $265904834201256250x^6 -$ $50114407378599711875x^5 +$ $1012337690209068437500x^4 +$ $40841191953517789640625x^3 -$ $1348939972203583692968750x^2 +$ $10499452598607360890937500x -$ $18574895997914514714625000$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4^4$ | I: 500, 48 | $\frac{1023}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|------------|--------------------|
| $x^{15} + 415x^{14} + 435x^{13} + 500x^{12} + 250x^{11} + 388x^{10} + 325x^9 + 330x^8 + 45x^7 + 470x^6 + 319x^5 + 115x^4 + 570x^3 + 485x^2 + 370x + 203$ | $x^{15} - 475x^{13} + 84125x^{11} - 35800x^{10} - 7231250x^9 + 6246500x^8 + 319515625x^7 - 328282500x^6 - 7137900900x^5 + 4874593750x^4 + 78840718125x^3 + 8925312500x^2 - 360225612500x - 371892781000$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|------------|--------------------|
| $x^{15} - 39975x^{13} + 639200250x^{11} - 1049370400x^{10} - 5205043146875x^9 + 27965721160000x^8 + 22698719977781250x^7 - 260850264119900000x^6 - 50271667392117819375x^5 + 993094219827905000000x^4 + 42936681633646572078125x^3 - 1323298047920683412500000x^2 + 4914972601064155695000000x + 73805228709514214536000000$ | $x^{15} - 39975x^{13} + 639200250x^{11} - 1049370400x^{10} - 5205043146875x^9 + 27965721160000x^8 + 22698719977781250x^7 - 260850264119900000x^6 - 50271667392117819375x^5 + 993094219827905000000x^4 + 42936681633646572078125x^3 - 1323298047920683412500000x^2 + 4914972601064155695000000x + 73805228709514214536000000$ | $\begin{bmatrix} 5 & 5 & 9 \\ 4 & 4 & 4 \end{bmatrix}^3_4$ | I: 500, 48 | $\frac{1023}{500}$ |
| $x^{15} + 615x^{14} + 485x^{13} + 575x^{12} + 473x^{10} + 250x^9 + 80x^8 + 345x^7 + 195x^6 + 99x^5 + 65x^4 + 620x^3 + 560x^2 + 95x + 53$ | $x^{15} + 615x^{14} + 485x^{13} + 575x^{12} + 473x^{10} + 250x^9 + 80x^8 + 345x^7 + 195x^6 + 99x^5 + 65x^4 + 620x^3 + 560x^2 + 95x + 53$ | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|------------|--------------------|
| $x^{15} - 39975x^{13} + 639200250x^{11} - 827136050x^{10} - 5205043146875x^9 + 22043175732500x^8 + 22698719977781250x^7 - 205607721644893750x^6 - 50365123023324711875x^5 + 782777968833774062500x^4 + 44181977919478414640625x^3 - 1043051643471003938281250x^2 + 1596257999322295265937500x + 58838228416676000293625000$ | | | | |
| $x^{15} + 215x^{14} + 160x^{13} + 175x^{12} + 25x^{11} + 33x^{10} + 525x^9 + 30x^8 + 420x^7 + 220x^6 + 19x^5 + 215x^4 + 20x^3 + 335x^2 + 195x + 408$ | | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|------------|--------------------|
| $x^{15} - 39975x^{13} + 639200250x^{11} -$ $970054670x^{10} - 5205043146875x^9 +$ $25851956955500x^8 +$ $22698719977781250x^7 -$ $241134128502426250x^6 -$ $50391869081771809475x^5 +$ $918032074941379937500x^4 +$ $44538369148285990160625x^3 -$ $1223277739859388766718750x^2 +$ $646475374550106505137500x +$ $122954524697461284037223000$ | $x^{15} - 39975x^{13} + 639200250x^{11} -$ $970054670x^{10} - 5205043146875x^9 +$ $25851956955500x^8 +$ $22698719977781250x^7 -$ $241134128502426250x^6 -$ $50391869081771809475x^5 +$ $918032074941379937500x^4 +$ $44538369148285990160625x^3 -$ $1223277739859388766718750x^2 +$ $646475374550106505137500x +$ $122954524697461284037223000$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4^4$ | I: 500, 48 | $\frac{1023}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|--------------------|
| $x^{15} - 19475x^{13} + 141414125x^{11} -$ $384949000x^{10} - 498384981250x^9 +$ $2694638797500x^8 +$ $902874792015625x^7 -$ $5557530124737500x^6 -$ $832147908638702500x^5 +$ $2903302089465781250x^4 +$ $389412352720360328125x^3 +$ $635942471377504687500x^2 -$ $76355492730059062812500x -$ 560765592027731933375000 | $x^{15} - 19475x^{13} + 141414125x^{11} -$ $384949000x^{10} - 498384981250x^9 +$ $2694638797500x^8 +$ $902874792015625x^7 -$ $5557530124737500x^6 -$ $832147908638702500x^5 +$ $2903302089465781250x^4 +$ $389412352720360328125x^3 +$ $635942471377504687500x^2 -$ $76355492730059062812500x -$ 560765592027731933375000 | $\begin{bmatrix} 5 & 5 & 9 \\ 4 & 4 & 4 \end{bmatrix}^3_4$ | I: 500, 48 | $\frac{1023}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|--------------------|
| $x^{15} - 19475x^{13} + 141414125x^{11} -$ $367146800x^{10} - 498384981250x^9 +$ $2522693930250x^8 +$ $902874792015625x^7 -$ $4999738773688750x^6 -$ $832972015202941900x^5 +$ $2202163850152093750x^4 +$ $390183031471762043125x^3 +$ $898074855920915156250x^2 -$ $74641687921304628800000x -$ 559150040464721620291000 | $x^{15} - 19475x^{13} + 141414125x^{11} -$ $367146800x^{10} - 498384981250x^9 +$ $2522693930250x^8 +$ $902874792015625x^7 -$ $4999738773688750x^6 -$ $832972015202941900x^5 +$ $2202163850152093750x^4 +$ $390183031471762043125x^3 +$ $898074855920915156250x^2 -$ $74641687921304628800000x -$ 559150040464721620291000 | $\begin{bmatrix} 5 & 5 & 9 \\ 4 & 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|--------------------|
| $x^{15} - 39975x^{13} + 639200250x^{11} -$ $975816400x^{10} - 5205043146875x^9 +$ $26005507060000x^8 +$ $22698719977781250x^7 -$ $242566367102150000x^6 -$ $50209060767382619375x^5 +$ $923484811896042500000x^4 +$ $42102448359050032078125x^3 -$ $1230543511851476631250000x^2 +$ $7138204277863934795000000x +$ $15069133555907910856000000$ | $x^{15} - 39975x^{13} + 639200250x^{11} -$ $975816400x^{10} - 5205043146875x^9 +$ $26005507060000x^8 +$ $22698719977781250x^7 -$ $242566367102150000x^6 -$ $50209060767382619375x^5 +$ $923484811896042500000x^4 +$ $42102448359050032078125x^3 -$ $1230543511851476631250000x^2 +$ $7138204277863934795000000x +$ $15069133555907910856000000$ | $\begin{bmatrix} 5 & 5 & 9 \\ 4 & 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---------------------------------------|--|------------|--------------------|
| $x^{15} - 19475x^{13} + 141414125x^{11} -$ | $166074600x^{10} - 498384981250x^9 +$ | | | |
| $1015126482500x^8 +$ | $902874792015625x^7 -$ | | | |
| $x^{15} + 515x^{14} + 85x^{13} + 75x^{12} +$ | $1534006572962500x^6 -$ | | | |
| $100x^{11} + 353x^{10} + 400x^9 +$ | $809477755913222500x^5 -$ | | | |
| $105x^8 + 420x^7 + 545x^6 +$ | $157070366710156250x^4 +$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |
| $479x^5 + 190x^4 + 320x^3 +$ | $309057685747123828125x^3 +$ | | | |
| $410x^2 + 445x + 158$ | $783096138925770312500x^2 -$ | | | |
| | $26342780094024895312500x -$ | | | |
| | 31694879198504634125000 | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|------------|--------------------|
| $x^{15} - 19475x^{13} + 141414125x^{11} -$ $312474120x^{10} - 498384981250x^9 +$ $2072527593500x^8 +$ $902874792015625x^7 -$ $3781729558197500x^6 -$ $828426341375075300x^5 +$ $981865143654281250x^4 +$ $372597872316700688125x^3 +$ $1223284461202582187500x^2 -$ $61623785380127264612500x -$ 428998228499856193087000 | $x^{15} - 19475x^{13} + 141414125x^{11} -$ $312474120x^{10} - 498384981250x^9 +$ $2072527593500x^8 +$ $902874792015625x^7 -$ $3781729558197500x^6 -$ $828426341375075300x^5 +$ $981865143654281250x^4 +$ $372597872316700688125x^3 +$ $1223284461202582187500x^2 -$ $61623785380127264612500x -$ 428998228499856193087000 | $\begin{bmatrix} 5 & 5 & 9 \\ 4 & 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|------------|--------------------|
| $x^{15} - 19475x^{13} + 141414125x^{11} -$ $211371400x^{10} - 498384981250x^9 +$ $1299084364500x^8 +$ $902874792015625x^7 -$ $1904419730622500x^6 -$ $816415675837290100x^5 -$ $567856011751843750x^4 +$ $331565059777803938125x^3 +$ $146116604969779062500x^2 -$ $36380117201061149262500x -$ 187537551183568627847000 | $x^{15} - 19475x^{13} + 141414125x^{11} -$ $211371400x^{10} - 498384981250x^9 +$ $1299084364500x^8 +$ $902874792015625x^7 -$ $1904419730622500x^6 -$ $816415675837290100x^5 -$ $567856011751843750x^4 +$ $331565059777803938125x^3 +$ $146116604969779062500x^2 -$ $36380117201061149262500x -$ 187537551183568627847000 | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|------------|--------------------|
| $x^{15} - 39975x^{13} + 639200250x^{11} -$ $1111662110x^{10} - 5205043146875x^9 +$ $29625795231500x^8 +$ $22698719977781250x^7 -$ $276334605021816250x^6 -$ $50152874512826105475x^5 +$ $1052045317690200437500x^4 +$ $41353766517084484360625x^3 -$ $1401850385822192082968750x^2 +$ $9133441386702119462137500x +$ $15484354510772522587199000$ | $x^{15} - 39975x^{13} + 639200250x^{11} -$ $1111662110x^{10} - 5205043146875x^9 +$ $29625795231500x^8 +$ $22698719977781250x^7 -$ $276334605021816250x^6 -$ $50152874512826105475x^5 +$ $1052045317690200437500x^4 +$ $41353766517084484360625x^3 -$ $1401850385822192082968750x^2 +$ $9133441386702119462137500x +$ $15484354510772522587199000$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |
| $x^{15} + 365x^{14} + 510x^{13} +$ $50x^{12} + 403x^{10} + 600x^9 +$ $555x^8 + 295x^7 + 270x^6 +$ $284x^5 + 465x^4 + 95x^3 +$ $585x^2 + 520x + 403$ | $x^{15} + 365x^{14} + 510x^{13} +$ $50x^{12} + 403x^{10} + 600x^9 +$ $555x^8 + 295x^7 + 270x^6 +$ $284x^5 + 465x^4 + 95x^3 +$ $585x^2 + 520x + 403$ | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|------------|--------------------|
| $x^{15} - 39975x^{13} + 639200250x^{11} -$ $932030450x^{10} - 5205043146875x^9 +$ $24838611492500x^8 +$ $22698719977781250x^7 -$ $231682148696293750x^6 -$ $50442677729426311875x^5 +$ $882047037536604062500x^4 +$ $45215394378282234640625x^3 -$ $1175327677517524913281250x^2 -$ $1157796863389885034062500x +$ $140478182623825382857625000$ | $x^{15} - 39975x^{13} + 639200250x^{11} -$ $932030450x^{10} - 5205043146875x^9 +$ $24838611492500x^8 +$ $22698719977781250x^7 -$ $231682148696293750x^6 -$ $50442677729426311875x^5 +$ $882047037536604062500x^4 +$ $45215394378282234640625x^3 -$ $1175327677517524913281250x^2 -$ $1157796863389885034062500x +$ $140478182623825382857625000$ | $\begin{bmatrix} 5 & 5 & 9 \\ 4 & 4 & 4 \end{bmatrix}^3_4$ | I: 500, 48 | $\frac{1023}{500}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{15} + 390x^{14} + 460x^{13} + 250x^{12} + 525x^{11} + 608x^{10} + 475x^9 + 105x^8 + 495x^7 + 370x^6 + 119x^5 + 465x^4 + 195x^3 + 285x^2 + 445x + 468$ | $x^{15} - 80x^{10} - 1425x^5 + 125$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4^3$ | I: 20,3 | $\frac{39}{20}$ |
| $x^{15} + 540x^{14} + 385x^{13} + 575x^{12} + 150x^{11} + 153x^{10} + 25x^9 + 130x^8 + 120x^7 + 70x^6 + 589x^5 + 590x^4 + 295x^3 + 35x^2 + 495x + 403$ | $x^{15} - 975x^{13} + 380250x^{11} - 104650x^{10} - 75521875x^9 + 68022500x^8 + 8032781250x^7 - 15475118750x^6 - 432278656875x^5 + 1436975312500x^4 - 8507504890625x^3 + 46701697656250x^2 + 59790668437500x - 21017325875000$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4^3$ | I: 500,48 | $\frac{1023}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|------------|--------------------|
| $x^{15} - 19475x^{13} + 141414125x^{11} -$ $174714120x^{10} - 498384981250x^9 +$ $1088618121500x^8 +$ $902874792015625x^7 -$ $1742575647767500x^6 -$ $809883937685410900x^5 +$ $69469126559218750x^4 +$ $310394010616392178125x^3 +$ $711030613088619687500x^2 -$ $27039735560665754062500x -$ 38013839451281379413000 | $x^{15} - 19475x^{13} + 141414125x^{11} -$ $174714120x^{10} - 498384981250x^9 +$ $1088618121500x^8 +$ $902874792015625x^7 -$ $1742575647767500x^6 -$ $809883937685410900x^5 +$ $69469126559218750x^4 +$ $310394010616392178125x^3 +$ $711030613088619687500x^2 -$ $27039735560665754062500x -$ 38013839451281379413000 | $\begin{bmatrix} 5 & 5 & 9 \\ 4 & 4 & 4 \end{bmatrix}_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|------------|--------------------|
| $x^{15} - 39975x^{13} + 639200250x^{11} -$ $1121991650x^{10} - 5205043146875x^9 +$ $29901077472500x^8 +$ $22698719977781250x^7 -$ $278902300124743750x^6 -$ $50126340480226911875x^5 +$ $1061820899760631562500x^4 +$ $41000200532700229640625x^3 -$ $1414876348931041557031250x^2 +$ $10075694735086158290937500x +$ 999699066792928594625000 | $x^{15} - 39975x^{13} + 639200250x^{11} -$ $1121991650x^{10} - 5205043146875x^9 +$ $29901077472500x^8 +$ $22698719977781250x^7 -$ $278902300124743750x^6 -$ $50126340480226911875x^5 +$ $1061820899760631562500x^4 +$ $41000200532700229640625x^3 -$ $1414876348931041557031250x^2 +$ $10075694735086158290937500x +$ 999699066792928594625000 | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |
| $x^{15} + 365x^{14} + 485x^{13} +$ $25x^{12} + 125x^{11} + 473x^{10} +$ $350x^9 + 305x^8 + 270x^7 +$ $245x^6 + 74x^5 + 15x^4 + 45x^3 +$ $385x^2 + 245x + 413$ | $x^{15} + 365x^{14} + 485x^{13} +$ $25x^{12} + 125x^{11} + 473x^{10} +$ $350x^9 + 305x^8 + 270x^7 +$ $245x^6 + 74x^5 + 15x^4 + 45x^3 +$ $385x^2 + 245x + 413$ | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|------------|--------------------|
| $x^{15} - 39975x^{13} + 639200250x^{11} - 1073419360x^{10} - 5205043146875x^9 + 28606625944000x^8 + 22698719977781250x^7 - 2668283034926660000x^6 - 50229888007422625775x^5 + 1015853469725627000000x^4 + 42379971332583117358125x^3 - 1353624748409397977500000x^2 + 6398605553398262523800000x + 54390898002722490179776000$ | $x^{15} - 39975x^{13} + 639200250x^{11} - 1073419360x^{10} - 5205043146875x^9 + 28606625944000x^8 + 22698719977781250x^7 - 2668283034926660000x^6 - 50229888007422625775x^5 + 1015853469725627000000x^4 + 42379971332583117358125x^3 - 1353624748409397977500000x^2 + 6398605553398262523800000x + 54390898002722490179776000$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \quad \begin{array}{c} 5 \\ 4 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |
| $x^{15} + 90x^{14} + 510x^{13} + 350x^{12} + 25x^{11} + 213x^{10} + 450x^9 + 55x^8 + 595x^7 + 570x^6 + 619x^5 + 590x^4 + 345x^3 + 560x^2 + 395x + 133$ | $x^{15} + 90x^{14} + 510x^{13} + 350x^{12} + 25x^{11} + 213x^{10} + 450x^9 + 55x^8 + 595x^7 + 570x^6 + 619x^5 + 590x^4 + 345x^3 + 560x^2 + 395x + 133$ | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|------------|--------------------|
| $x^{15} - 19475x^{13} + 141414125x^{11} -$ $317118600x^{10} - 498384981250x^9 +$ $2109306192500x^8 +$ $902874792015625x^7 -$ $3875900800362500x^6 -$ $828930024013032500x^5 +$ $1068003875877656250x^4 +$ $374403090302031578125x^3 +$ $1204671510820801562500x^2 -$ $62824735309703709062500x -$ 441386111935104178375000 | $x^{15} - 19475x^{13} + 141414125x^{11} -$ $317118600x^{10} - 498384981250x^9 +$ $2109306192500x^8 +$ $902874792015625x^7 -$ $3875900800362500x^6 -$ $828930024013032500x^5 +$ $1068003875877656250x^4 +$ $374403090302031578125x^3 +$ $1204671510820801562500x^2 -$ $62824735309703709062500x -$ 441386111935104178375000 | $\begin{bmatrix} 5 & 5 & 9 \\ 4 & 4 & 4 \end{bmatrix}^3_4$ | I: 500, 48 | $\frac{1023}{500}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|---------|-----------------|
| $x^{15} + 615x^{14} + 10x^{13} +$ $350x^{12} + 225x^{11} + 148x^{10} +$ $100x^9 + 405x^8 + 620x^7 +$ $395x^6 + 354x^5 + 515x^4 +$ $595x^3 + 560x^2 + 370x + 233$ | $x^{15} - 5x^{14} + 35x^{12} - 35x^{11} + 29x^{10} -$ $260x^9 + 2095x^8 - 5430x^7 + 11200x^6 -$ $9312x^5 - 2470x^4 + 80765x^3 -$ $59165x^2 + 100990x + 36121$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4^3$ | I: 20,3 | $\frac{39}{20}$ |
| $x^{15} + 390x^{14} + 610x^{13} +$ $250x^{12} + 575x^{11} + 298x^{10} +$ $300x^9 + 205x^8 + 595x^7 +$ $470x^6 + 519x^5 + 565x^4 +$ $245x^3 + 85x^2 + 270x + 373$ | $x^{15} - 5x^{14} + 35x^{12} - 35x^{11} + 149x^{10} -$ $660x^9 + 4095x^8 - 10630x^7 + 22400x^6 -$ $9192x^5 - 20870x^4 + 321565x^3 -$ $246365x^2 + 409990x + 405041$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4^3$ | I: 20,3 | $\frac{39}{20}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|---------|-----------------|
| $x^{15} + 215x^{14} + 410x^{13} +$ $50x^{12} + 475x^{11} + 473x^{10} +$ $125x^9 + 80x^8 + 170x^7 +$ $245x^6 + 614x^5 + 15x^4 +$ $195x^3 + 235x^2 + 345x + 418$ | $x^{15} - 5x^{14} + 35x^{12} - 35x^{11} - 31x^{10} -$ $60x^9 + 1095x^8 - 2830x^7 + 5600x^6 -$ $5772x^5 + 730x^4 + 20365x^3 - 13565x^2 +$ $24490x + 461$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4^3$ | I: 20,3 | $\frac{39}{20}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|------------|--------------------|
| $x^{15} - 39975x^{13} + 639200250x^{11} - 1124422130x^{10} - 5205043146875x^9 + 29965849764500x^8 + 22698719977781250x^7 - 279506463678373750x^6 - 50118887498038561475x^5 + 1064121036718380062500x^4 + 40900889545040460560625x^3 - 1417941281427241433281250x^2 + 10340358517199442889137500x - 3205188702813074645863000$ | | | | |
| $x^{15} + 190x^{14} + 585x^{13} + 525x^{12} + 300x^{11} + 438x^{10} + 450x^9 + 255x^8 + 220x^7 + 20x^6 + 24x^5 + 315x^4 + 270x^3 + 585x^2 + 20x + 123$ | | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|------------|--------------------|
| $x^{15} - 39975x^{13} + 639200250x^{11} -$ $1128488920x^{10} - 5205043146875x^9 +$ $30074229718000x^8 +$ $22698719977781250x^7 -$ $280517377694645000x^6 -$ $50085449053058921775x^5 +$ $1067969730794612750000x^4 +$ $4045322265686761558125x^3 -$ $1423069666283821489375000x^2 +$ $11527795316677050730800000x -$ $23667024458472557834048000$ | $x^{15} - 39975x^{13} + 639200250x^{11} -$ $1128488920x^{10} - 5205043146875x^9 +$ $30074229718000x^8 +$ $22698719977781250x^7 -$ $280517377694645000x^6 -$ $50085449053058921775x^5 +$ $1067969730794612750000x^4 +$ $4045322265686761558125x^3 -$ $1423069666283821489375000x^2 +$ $11527795316677050730800000x -$ $23667024458472557834048000$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|------------|--------------------|
| $x^{15} - 39975x^{13} + 639200250x^{11} - 444052960x^{10} - 5205043146875x^9 + 11834011384000x^8 + 22698719977781250x^7 - 110381741184260000x^6 - 50919233012606697375x^5 + 420239057508647000000x^4 + 51565493526660871428125x^3 - 559968544130272127500000x^2 - 18080811093818952072750000x + 249616333114013962495048000$ | | | | |
| $x^{15} + 90x^{14} + 210x^{13} + 525x^{12} + 50x^{11} + 298x^{10} + 200x^9 + 380x^8 + 520x^7 + 395x^6 + 429x^5 + 515x^4 + 345x^3 + 35x^2 + 145x + 363$ | | $\left[\begin{array}{c} 5 \\ 4 \end{array} \quad \begin{array}{c} 5 \\ 4 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|------------|--------------------|
| $x^{15} - 19475x^{13} + 141414125x^{11} -$ $381049080x^{10} - 498384981250x^9 +$ $2652528066500x^8 +$ $902874792015625x^7 -$ $5407100737902500x^6 -$ $832737782856539300x^5 +$ $2696491529668218750x^4 +$ $390756303188952488125x^3 +$ $720734800894505312500x^2 -$ $76464026911840823612500x -$ 568267746007941694273000 | $x^{15} - 19475x^{13} + 141414125x^{11} -$ $381049080x^{10} - 498384981250x^9 +$ $2652528066500x^8 +$ $902874792015625x^7 -$ $5407100737902500x^6 -$ $832737782856539300x^5 +$ $2696491529668218750x^4 +$ $390756303188952488125x^3 +$ $720734800894505312500x^2 -$ $76464026911840823612500x -$ 568267746007941694273000 | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_4^3 \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4^3$ | I: 500, 48 | $\frac{1023}{500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|----------|-------------------|
| $x^{15} + 365x^{14} + 10x^{13} +$ $450x^{12} + 225x^{11} + 138x^{10} +$ $150x^9 + 430x^8 + 220x^7 +$ $295x^6 + 229x^5 + 315x^4 +$ $570x^3 + 10x^2 + 120x + 513$ | $x^{15} - 5x^{14} + 35x^{12} - 35x^{11} - 61x^{10} +$ $40x^9 + 595x^8 - 1530x^7 + 2800x^6 -$ $3102x^5 + 830x^4 + 5165x^3 - 2765x^2 +$ $5740x - 1169$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \right]_4^3$ | I: 20,3 | $\frac{39}{20}$ |
| $x^{15} - 5x^{14} - 5x^{13} + 5x^{12} -$ $10x^{11} + 5x^{10} - 5x^9 - 5x^8 +$ $5x^7 + 5x^6 - 5x^5 - 10x^4 +$ $10x^3 + 10x^2 - 10x + 5$ | $x^{15} - 5x^{14} - 1140x^{13} +$ $3110x^{12} + 470165x^{11} +$ $101903x^{10} - 84431845x^9 -$ $308853455x^8 + 5617820830x^7 +$ $41490873310x^6 + 19586232533x^5 -$ $440565472815x^4 - 628374042290x^3 +$ $1126034023020x^2 + 790212143220x +$ 48157299081 | $\left[\begin{array}{c} 13 \\ 12 \end{array} \right]_{12}^2$ | T: 15,19 | $\frac{323}{300}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{15} + 5x^{14} - 10x^{12} + 10x^{11} +$ $10x^{10} - 10x^9 - 10x^8 - 10x^7 -$ $10x^5 + 5x^4 - 10x^3 - 5x^2 -$ $10x - 10$ | $x^{15} - 5x^{14} - 1305x^{13} + 14425x^{12} +$ $443435x^{11} - 7738479x^{10} -$ $17722590x^9 + 1066146055x^8 -$ $6587684480x^7 - 1964223865x^6 +$ $136632641122x^5 - 355500926340x^4 -$ $80127675915x^3 + 966211026480x^2 -$ $300974243220x - 541837582767$ | $\begin{bmatrix} 13 & 13 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 15, 19 | $\frac{323}{300}$ |
| $x^{15} - 10x^{14} - 10x^{13} - 5x^{12} -$ $10x^{11} - 5x^{10} + 10x^8 + 5x^6 +$ $10x^5 + 10x^4 - 5x^3 + 10x^2 +$ $5x - 5$ | $x^{15} + 105x^{13} - 40x^{12} - 8595x^{11} -$ $338532x^{10} + 1278915x^9 +$ $55614720x^8 + 792363915x^7 +$ $5662612560x^6 + 31423672683x^5 +$ $135967366260x^4 + 257447443320x^3 +$ $417362109120x^2 + 1242723555180x -$ 4920495387984 | $\begin{bmatrix} 13 & 13 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 15, 19 | $\frac{323}{300}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{15} + 5x^{14} - 10x^{13} - 10x^{12} +$ $5x^{11} - 5x^{10} - 10x^9 + 10x^8 +$ $5x^7 + 5x^6 - 5x^5 + 5x^4 + 5x^3 +$ $10x^2 - 5x + 5$ | $x^{15} + 15x^{13} - 220x^{12} - 2580x^{11} +$ $14280x^{10} - 16700x^9 - 454800x^8 +$ $326295x^7 + 2442440x^6 +$ $21389325x^5 + 62883660x^4 +$ $191239960x^3 + 129110160x^2 -$ $41569980x + 565413680$ | $\left[\begin{array}{cc} 13 & 13 \\ 12 & 12 \end{array} \right]_{12}^2$ | T: 15, 19 | $\frac{323}{300}$ |
| $x^{15} - 5x^{14} - 10x^{13} + 5x^{12} +$ $10x^{10} - 10x^9 - 5x^8 - 10x^7 +$ $10x^6 - 10x^5 - 5x^4 - 10x^3 -$ $5x^2 - 5$ | $x^{15} - 5x^{14} + 40x^{13} - 180x^{12} +$ $700x^{11} - 2376x^{10} + 6420x^9 -$ $14490x^8 + 27805x^7 - 41975x^6 +$ $43712x^5 - 21750x^4 - 20230x^3 +$ $56240x^2 - 54560x + 22592$ | $\left[\begin{array}{cc} 7 & 7 \\ 6 & 6 \end{array} \right]_6^2$ | T: 15, 12 | $\frac{173}{150}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} + 5x^{14} + 10x^{13} + 10x^{12} +$ $10x^{11} - 10x^{10} - 10x^8 - 10x^7 -$ $10x^6 + 10x^4 + 10x^3 - 5x^2 - 10$ | $x^{15} - 10x^{13} - 15x^{12} + 55x^{11} - 128x^{10} -$ $685x^9 - 590x^8 + 1515x^7 - 375x^6 -$ $1837x^5 + 1125x^4 - 515x^3 + 320x^2 -$ $160x + 44$ | $\begin{bmatrix} 7 & 7 \\ 6 & 6 \end{bmatrix}^2$ | T: 15,12 | $\frac{173}{150}$ |
| $x^{15} - 5x^{14} + 10x^{13} - 10x^{12} +$ $10x^{11} + 5x^{10} + 10x^8 - 10x^7 -$ $10x^6 - 10x^5 - 10x^4 - 5x^3 -$ $10x^2 + 5$ | $x^{15} - 5x^{14} + 5x^{13} + 30x^{12} - 20x^{11} -$ $336x^{10} + 55x^9 + 2050x^8 + 970x^7 -$ $6865x^6 - 7133x^5 + 10310x^4 +$ $18480x^3 + 10315x^2 - 840x - 523$ | $\begin{bmatrix} 7 & 7 \\ 6 & 6 \end{bmatrix}^2$ | T: 15,12 | $\frac{173}{150}$ |
| $x^{15} - 5x^{14} - 5x^{13} + 10x^{12} -$ $5x^{11} - 5x^{10} - 5x^8 - 10x^7 +$ $10x^6 - 10x^4 - 10x^3 - 10x^2 - 10$ | $x^{15} - 5x^{14} - 5x^{12} + 70x^{11} + 363x^{10} -$ $2655x^9 - 780x^8 + 28530x^7 + 28120x^6 -$ $87272x^5 - 215160x^4 - 135820x^3 +$ $110840x^2 + 111840x - 45264$ | $\begin{bmatrix} 7 & 7 \\ 6 & 6 \end{bmatrix}^2$ | T: 15,12 | $\frac{173}{150}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|---------|-----------------|
| $x^{15} + 10x^{14} + 5x^{13} - 5x^{12} - 5x^{11} - 10x^{10} + 5x^9 + 10x^8 + 10x^5 + 5x^4 - 10x^3 + 5$ | $x^{15} - 5x^{13} - 10x^{12} + 35x^{11} + 4x^{10} - 135x^9 + 110x^8 + 605x^7 - 400x^6 - 2433x^5 + 3550x^4 + 175x^3 - 3740x^2 + 605x + 2662$ | $\begin{bmatrix} 5 \\ 4 \end{bmatrix}_{12}^2$ | T: 15,8 | $\frac{71}{60}$ |
| $x^{15} + 5x^{14} - 5x^{13} - 10x^{12} - 5x^{11} + 10x^{10} + 10x^9 + 5x^8 - 5x^7 - 10x^6 + 5x^5 + 10x^3 - 10$ | $x^{15} - 5x^{14} + 15x^{13} - 35x^{12} + 50x^{11} - 122x^{10} - 10x^9 - 150x^8 - 375x^7 - 605x^6 - 737x^5 - 435x^4 - 450x^3 - 390x^2 - 270x - 194$ | $\begin{bmatrix} 5 \\ 4 \end{bmatrix}_{12}^2$ | T: 15,8 | $\frac{71}{60}$ |
| $x^{15} - 5x^{13} + 10x^{12} + 10x^{11} + 10x^9 - 5x^8 - 10x^6 + 10x^5 + 5x^3 + 10$ | $x^{15} - 5x^{14} + 20x^{13} - 65x^{12} + 165x^{11} - 338x^{10} + 610x^9 - 1315x^8 + 4780x^7 - 8080x^6 + 7248x^5 + 4645x^4 - 12205x^3 + 2035x^2 + 8290x + 2089$ | $\begin{bmatrix} 5 \\ 4 \end{bmatrix}_{12}^2$ | T: 15,8 | $\frac{71}{60}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|---------|-----------------|
| $x^{15} - 10x^{14} - 5x^{13} + 10x^{12} + 10x^{11} - 5x^{10} - 10x^9 - 5x^8 + 10x^7 - 5x^6 + 10x^4 - 5x^3 - 5$ | $x^{15} - 5x^{13} - 5x^{12} - 20x^{11} - 10x^{10} + 30x^9 + 70x^8 + 95x^7 + 110x^6 + 85x^5 + 185x^4 + 45x^3 + 50x^2 - 25x - 5$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_{12}^2$ | T: 15,8 | $\frac{71}{60}$ |
| $x^{15} + 10x^{14} + 5x^{12} - 10x^{11} - 10x^{10} + 10x^9 - 5x^8 + 10x^6 + 10x^5 + 5x^4 + 10$ | $x^{15} - 120x^{13} - 355x^{12} + 2620x^{11} + 8489x^{10} - 24200x^9 - 66495x^8 + 113520x^7 + 182545x^6 - 247368x^5 - 178475x^4 + 220220x^3 + 49005x^2 - 65945x + 6897$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3^2$ | T: 15,9 | $\frac{98}{75}$ |
| $x^{15} + 10x^{14} - 5x^{13} - 5x^{12} - 10x^{11} - 5x^{10} - 10x^9 + 10x^8 - 10x^6 - 5$ | $x^{15} - 5x^{14} - 20x^{13} + 270x^{12} - 1390x^{11} - 1421x^{10} + 31560x^9 - 86005x^8 - 12655x^7 + 959930x^6 - 1893133x^5 - 1678570x^4 + 6691775x^3 - 5879425x^2 + 3129140x - 1299563$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3^{10}$ | T: 15,9 | $\frac{98}{75}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|---------|-----------------|
| $x^{15} + 10x^{13} + 10x^{12} - 10x^{11} + 10x^{10} - 10x^9 + 10x^8 + 10x^7 - 5x^6 - 10x^5 - 5x^4 + 10$ | $x^{15} - 5x^{14} - 20x^{13} + 175x^{12} - 215x^{11} - 1274x^{10} + 4680x^9 - 2175x^8 - 13330x^7 + 22190x^6 - 19408x^5 + 45525x^4 - 119160x^3 + 43645x^2 + 229655x + 97043$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3^{10}$ | T: 15,9 | $\frac{98}{75}$ |
| $x^{15} - 5x^{14} + 5x^{12} - 10x^{11} + 5x^{10} - 10x^9 - 5x^8 + 10x^7 + 5x^5 + 5x^4 - 10$ | $x^{15} - 5x^{14} + 15x^{13} - 60x^{12} + 145x^{11} - 242x^{10} + 440x^9 - 220x^8 - 945x^7 + 1140x^6 + 288x^5 - 55x^4 - 485x^3 + 540x^2 + 595x - 369$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3^{10}$ | T: 15,9 | $\frac{98}{75}$ |
| $x^{15} + 5x^{14} + 5x^{13} + 10x^{12} + 10x^{11} + 10x^{10} - 10x^9 - 10x^8 - 5x^7 + 10x^5 - 10x^4 - 10$ | $x^{15} - 5x^{14} + 5x^{13} - 25x^{12} + 210x^{11} - 586x^{10} + 1430x^9 - 3400x^8 + 1600x^7 + 4860x^6 + 3352x^5 - 5520x^4 - 15880x^3 - 9120x^2 + 432$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3^4$ | T: 15,9 | $\frac{98}{75}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{15} - 10x^{14} - 10x^{13} + 10x^{11} - 5x^{10} + 10x^9 + 5x^8 + 10x^5 - 5x^4 + 10$ | $x^{15} - 5x^{14} - 20x^{13} - 5x^{12} + 535x^{11} + 2616x^{10} - 8370x^9 - 54655x^8 - 121170x^7 + 361640x^6 + 1457412x^5 + 826185x^4 - 7228890x^3 - 6788025x^2 + 16652925x - 1456137$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \right]_3^{10}$ | T: 15, 9 | $\frac{98}{75}$ |
| $x^{15} + 5x^{13} + 5x^{12} + 5x^{11} - 10x^{10} - 5x^9 + 10x^8 - 5x^7 - 10x^6 - 5$ | $x^{15} - 15x^{12} - 90x^{11} - 105x^{10} - 75x^9 + 300x^8 + 1830x^7 + 4865x^6 + 12135x^5 + 24825x^4 + 31500x^3 + 18975x^2 + 450x + 795$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^2 \left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1073}{750}$ |
| $x^{15} - 5x^{14} + 5x^{12} + 5x^{10} + 10x^9 - 5x^7 - 5x^6 + 10$ | $x^{15} - 15x^{13} + 90x^{11} - 84x^{10} - 125x^9 + 1170x^8 - 2235x^7 - 4520x^6 + 15837x^5 - 7350x^4 - 10375x^3 + 2880x^2 + 9300x - 4672$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^2 \left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1073}{750}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{15} + 5x^{14} - 5x^{13} - 10x^{12} -$ $10x^{11} - 5x^{10} + 5x^9 - 10x^7 +$ $10x^6 - 5x^5 - 5$ | $x^{15} - 15x^{13} - 30x^{12} + 105x^{11} +$ $306x^{10} - 200x^9 - 1860x^8 - 1350x^7 +$ $4710x^6 + 8802x^5 - 3150x^4 - 19835x^3 -$ $17130x^2 - 4650x + 8$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \quad \begin{array}{c} 7 \\ 6 \end{array} \quad \begin{array}{c} 3 \\ 2 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1073}{750}$ |
| $x^{15} - 5x^{14} + 10x^{13} + 5x^{11} -$ $5x^{10} + 5x^8 + 5x^7 - 10x^6 -$ $5x^5 + 5$ | $x^{15} - 30x^{13} + 450x^{11} - 60x^{10} -$ $3900x^9 + 1620x^8 + 21465x^7 -$ $25540x^6 - 29790x^5 + 65100x^4 -$ $51500x^3 + 75600x^2 - 87000x + 33520$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_6^2$ | T: 15, 3 | $\frac{41}{30}$ |
| $x^{15} - 10x^{14} - 10x^{13} - 10x^{12} +$ $5x^{10} - 10x^9 - 5x^8 + 5x^7 -$ $5x^6 + 5x^5 - 10$ | $x^{15} - 60x^{11} - 30x^{10} - 125x^9 - 270x^8 +$ $660x^7 - 690x^6 + 2250x^5 + 1350x^4 -$ $4325x^3 + 18150x^2 - 21825x + 14130$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \quad \begin{array}{c} 7 \\ 6 \end{array} \quad \begin{array}{c} 3 \\ 2 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1073}{750}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{15} - 5x^{14} - 5x^{12} + 5x^{11} + 10x^{10} - 5x^8 + 5x^6 - 5x^5 - 5$ | $x^{15} - 5x^{14} - 50x^{12} + 395x^{11} - 565x^{10} + 105x^9 + 1355x^8 - 8915x^7 + 22985x^6 - 38275x^5 + 70325x^4 - 90350x^3 + 89050x^2 - 83525x + 52585$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6 \left[\begin{array}{c} 7 \\ 6 \\ 6 \\ 2 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1073}{750}$ |
| $x^{15} - 10x^{12} - 10x^{11} - 5x^{10} - 10x^9 - 5x^8 - 5x^7 - 10x^6 + 5x^5 + 10$ | $x^{15} - 5x^{14} - 15x^{13} + 100x^{12} - 20x^{11} + 16x^{10} - 1455x^9 - 3690x^8 + 25320x^7 - 12545x^6 - 90513x^5 + 235060x^4 - 304970x^3 - 193535x^2 + 1061640x - 695447$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6 \left[\begin{array}{c} 7 \\ 6 \\ 6 \\ 2 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1073}{750}$ |
| $x^{15} - 5x^{13} + 10x^{12} - 5x^{11} - 5x^{10} + 5x^9 + 10x^8 + 10x^6 + 5x^5 + 10$ | $x^{15} - 15x^{12} - 75x^{11} + 99x^{10} + 100x^9 + 1275x^8 - 1740x^7 - 2925x^6 - 2658x^5 + 16050x^4 + 7600x^3 - 30360x^2 - 40800x - 17088$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6 \left[\begin{array}{c} 7 \\ 6 \\ 6 \\ 2 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1073}{750}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{15} + 10x^{14} - 10x^{13} + 10x^{12} -$ $5x^{10} + 5x^8 - 5x^7 + 10x^6 -$ $10x^5 - 10$ | $x^{15} - 20x^{13} - 40x^{12} + 80x^{11} + 609x^{10} +$ $3450x^9 - 16320x^8 + 7440x^7 + 7730x^6 +$ $81837x^5 - 187850x^4 - 140980x^3 +$ $319580x^2 + 562470x + 249727$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6 \left[\begin{array}{c} 7 \\ 6 \\ 2 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1073}{750}$ |
| $x^{15} - 5x^{14} + 5x^{13} - 5x^{12} +$ $5x^8 - 5x^7 + 10x^6 + 5x^5 + 5$ | $x^{15} - 45x^{12} + 90x^{11} + 9x^{10} + 375x^9 -$ $1800x^8 + 1860x^7 + 3565x^6 - 12333x^5 +$ $16575x^4 - 13500x^3 + 6135x^2 + 3510x -$ 5763 | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6 \left[\begin{array}{c} 7 \\ 6 \\ 2 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1073}{750}$ |
| $x^{15} + 5x^{14} - 10x^{12} + 5x^{11} +$ $10x^{10} - 10x^8 + 5x^7 - 5x^6 +$ $5x^5 + 5$ | $x^{15} - 5x^{14} + 5x^{13} + 15x^{12} + 40x^{11} -$ $728x^{10} + 1310x^9 - 760x^8 - 780x^7 -$ $39380x^6 + 123928x^5 - 251480x^4 -$ $8120x^3 + 319440x^2 - 1494560x -$ 1409776 | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6 \left[\begin{array}{c} 7 \\ 6 \\ 2 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1073}{750}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|--------------------|
| $x^{15} + 5x^{14} - 5x^{13} - 5x^{12} +$ $10x^{10} + 5x^9 - 10x^8 - 10x^7 +$ $5x^6 - 5x^5 - 5$ | $x^{15} - 35x^{13} - 20x^{12} + 510x^{11} +$ $581x^{10} - 3875x^9 - 6660x^8 + 15100x^7 +$ $37885x^6 - 20778x^5 - 105000x^4 -$ $30330x^3 + 113155x^2 + 88355x + 3113$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_6^2$ | T: 15,3 | $\frac{41}{30}$ |
| $x^{15} - 10x^{14} + 5x^{13} - 5x^{12} +$ $5x^{11} - 5x^{10} - 5x^9 + 5x^8 -$ $5x^7 + 10x^6 + 10x^5 - 5$ | $x^{15} - 15x^{13} - 30x^{12} + 90x^{11} + 444x^{10} +$ $175x^9 - 2070x^8 - 5295x^7 + 390x^6 +$ $19437x^5 + 18450x^4 - 14375x^3 -$ $9090x^2 + 11460x - 10568$ | $\left[\begin{array}{cc} 7 & 3 \\ 6 & 2 \end{array} \right]_6^2$ | T: 15,30 | $\frac{1073}{750}$ |
| $x^{15} - 10x^{14} + 10x^{13} + 10x^{10} -$ $5x^9 + 5x^7 + 10x^6 + 10x^5 - 5$ | $x^{15} + 15x^{13} - 30x^{12} + 135x^{11} - 414x^{10} +$ $50x^9 - 2040x^8 - 3030x^7 - 5530x^6 -$ $9018x^5 - 10050x^4 - 8115x^3 - 6390x^2 -$ $2400x - 112$ | $\left[\begin{array}{cc} 7 & 3 \\ 6 & 2 \end{array} \right]_6^2$ | T: 15,30 | $\frac{1073}{750}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{15} + 10x^{14} + 10x^{13} + 5x^{11} -$ $10x^{10} + 10x^9 + 10x^7 + 5x^6 +$ $10x^5 - 5$ | $x^{15} + 5x^{13} - 10x^{12} + 60x^{11} + 288x^{10} +$ $1075x^9 + 2070x^8 + 3210x^7 - 3090x^6 -$ $5037x^5 + 34600x^4 - 18085x^3 -$ $40130x^2 + 70900x - 33364$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6 \left[\begin{array}{c} 7 \\ 6 \\ 2 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1073}{750}$ |
| $x^{15} - 5x^{14} - 10x^{13} - 10x^{12} +$ $10x^{11} - 10x^{10} + 5x^9 - 5x^8 -$ $5x^7 + 5x^6 - 10x^5 + 5$ | $x^{15} - 5x^{14} + 60x^{12} - 115x^{11} + 293x^{10} -$ $145x^9 + 1245x^8 - 4425x^7 + 6125x^6 -$ $1967x^5 - 16865x^4 + 37570x^3 -$ $8060x^2 - 8385x + 8411$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_6^2$ | T: 15, 3 | $\frac{41}{30}$ |
| $x^{15} + 5x^{14} + 10x^{13} + 10x^{12} -$ $10x^{10} - 10x^9 + 10x^8 + 5x^7 +$ $5x^6 - 5$ | $x^{15} - 5x^{14} - 15x^{13} + 130x^{12} - 240x^{11} +$ $718x^{10} - 1425x^9 - 250x^8 - 1920x^7 +$ $3305x^6 + 1273x^5 - 3370x^4 + 1590x^3 +$ $925x^2 - 980x + 211$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \right]_6 \left[\begin{array}{c} 7 \\ 6 \\ 2 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1073}{750}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|--------------------|
| $x^{15} + 5x^{14} - 10x^{13} - 10x^{12} -$ $5x^{11} + 5x^{10} + 10x^9 + 10x^8 -$ $5x^6 - 10$ | $x^{15} + 15x^{13} - 15x^{12} + 30x^{11} + 87x^{10} -$ $300x^9 + 1455x^8 - 4935x^7 + 4730x^6 +$ $9753x^5 - 63450x^4 + 118080x^3 -$ $82950x^2 + 6615x + 1029$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_6^2$ | T: 15,3 | $\frac{41}{30}$ |
| $x^{15} - 10x^{14} - 5x^{12} + 5x^{11} -$ $10x^{10} - 10x^8 - 10x^7 + 10x^6 +$ $10x^5 - 10$ | $x^{15} - 5x^{14} + 15x^{13} - 45x^{12} - 65x^{11} +$ $880x^{10} + 425x^9 - 6250x^8 - 12425x^7 -$ $19525x^6 - 20400x^5 - 11950x^4 +$ $6825x^3 + 11750x^2 + 3500x - 3700$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \begin{array}{c} 7 \\ 6 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \right]_6^2$ | T: 15,30 | $\frac{1073}{750}$ |
| $x^{15} - 10x^{11} + 10x^{10} - 10x^9 -$ $10x^7 - 10x^6 + 5x^5 + 10$ | $x^{15} - 10x^{13} - 60x^{12} + 40x^{11} + 165x^{10} +$ $350x^9 + 880x^8 + 4870x^7 + 7710x^6 -$ $31505x^5 + 46350x^4 - 29600x^3 -$ $395650x^2 + 493050x - 877285$ | $\left[\begin{array}{c} 7 \\ 6 \end{array} \begin{array}{c} 7 \\ 6 \end{array} \begin{array}{c} 3 \\ 2 \end{array} \right]_6^2$ | T: 15,30 | $\frac{1073}{750}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|---------------------|
| $x^{15} - 10x^{14} + 5x^{13} - 5x^{12} -$ $10x^{11} - 5x^{10} - 5x^9 + 5x^8 +$ $10x^7 + 10x^5 + 5$ | $x^{15} + 210x^{13} - 22260x^{12} + 367815x^{11} -$ $12560436x^{10} + 429661400x^9 +$ $7753797240x^8 + 152093713170x^7 +$ $3975500929960x^6 +$ $23598541726032x^5 -$ $357018856311600x^4 -$ $8904710235032220x^3 -$ $210205912531582800x^2 -$ $3894426611626548480x -$ 25384540941219647488 | $\left[\begin{array}{c} 5 & 19 \\ 4 & 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2351}{1500}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|---------------------|
| $x^{15} - 5x^{13} + 10x^{10} + 10x^9 - 10x^7 + 5x^5 - 10$ | $x^{15} - 98540x^{12} - 5080110x^{11} +$ | | | |
| | $86625336x^{10} + 1859963790x^9 +$ | | | |
| | $140986611360x^8 -$ | | | |
| | $12852015711570x^7 -$ | | | |
| | $861344877183620x^6 -$ | | | |
| | $21517043694968808x^5 -$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{19}{12} \frac{19}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{2351}{1500}$ |
| | $290501212778295120x^4 +$ | | | |
| | $3444935117696751895x^3 +$ | | | |
| | $90272666766510721920x^2 +$ | | | |
| | $667093156026538017000x -$ | | | |
| | 8708986739450321998392 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|---------------------|
| $x^{15} - 5x^{13} - 5x^{12} + 5x^{11} - 5x^{10} - 10x^8 + 5x^7 - 10x^5 + 10$ | $x^{15} - 105x^{13} + 26460x^{11} - 23905x^{10} - 2924075x^9 - 1428350x^8 + 130734450x^7 + 924667975x^6 - 8199348850x^5 - 43214998750x^4 + 141047945500x^3 + 1121302114625x^2 + 2449055714875x + 2110683831025$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{19}{12} \frac{19}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{2351}{1500}$ |
| $x^{15} + 5x^{14} - 5x^{13} - 5x^{11} + 10x^{10} - 10x^9 + 5x^8 + 5x^7 + 5x^5 - 5$ | $x^{15} - 105x^{13} + 26460x^{11} - 27118x^{10} - 2924075x^9 - 167090x^8 + 130734450x^7 + 841982680x^6 - 8215682167x^5 - 44391608800x^4 + 145263197695x^3 + 1216934364800x^2 + 2656570507360x + 2157960022834$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{19}{12} \frac{19}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{2351}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|---------------------|
| $x^{15} - 5x^{10} + 5x^9 + 10x^8 - 5x^7 - 10$ | $x^{15} - 1917x^{10} + 1224963x^5 + 25411681$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{19}{12} \frac{19}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{2351}{1500}$ |
| $x^{15} + 5x^{14} + 10x^{13} - 10x^{12} + 10x^{11} - 10x^{10} - 10x^9 + 10x^8 - 5x^7 - 5$ | $x^{15} - 243x^{10} - 1917x^5 - 5041$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{19}{12} \frac{19}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{2351}{1500}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|-----------|---------------------|
| $x^{15} - 630x^{13} - 17480x^{12} - 810705x^{11} -$ $45400404x^{10} - 76440050x^9 +$ $37029551580x^8 + 1360172163105x^7 +$ $40741495118180x^6 +$ $897741494618472x^5 +$ $12764132595370800x^4 +$ $175635350928920630x^3 +$ $2917279388362203480x^2 +$ $35234469180084654480x +$ 181307366464940978768 | | $\left[\begin{array}{c} 5 & 19 & 19 \\ 4 & 12 & 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2351}{1500}$ |
| $x^{15} + 10x^{13} + 5x^{12} + 10x^{11} -$ $5x^{10} + 5x^9 - 5x^8 + 10x^7 +$ $10x^5 + 10$ | | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--------------------------------------|---|-----------|---------------------|
| | $x^{15} + 420x^{13} - 56440x^{12} -$ | | | |
| | $2124780x^{11} - 26834304x^{10} +$ | | | |
| | $3062159680x^9 + 97522471200x^8 +$ | | | |
| | $1237903816800x^7 +$ | | | |
| | $15259977603840x^6 +$ | | | |
| $x^{15} - 10x^{13} - 10x^{11} + 10x^{10} +$ | $355605010908672x^5 +$ | $\left[\begin{array}{c} 5 & 19 & 19 \\ 4 & 12 & 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2351}{1500}$ |
| $10x^9 - 10x^8 + 10x^7 + 10x^5 + 10$ | $4907059823957760x^4 +$ | | | |
| | $26257905424254720x^3 +$ | | | |
| | $21541828797941760x^2 +$ | | | |
| | $1202408108381491200x +$ | | | |
| | 12636087557361113088 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|---------------------|
| x^{15} | $-$ | | | |
| | $32845x^{12} +$ | | | |
| | $2338350x^{11} +$ | | | |
| | $115689420x^{10} -$ | | | |
| | $4159326270x^9 -$ | | | |
| | $176446461030x^8 +$ | | | |
| | $2967858620790x^7 +$ | | | |
| | $12392614952350x^6 -$ | | | |
| $x^{15} + 10x^{14} - 10x^{13} + 5x^{11} +$ | | | | |
| $5x^{10} + 10x^9 - 5x^8 - 10x^7 +$ | | | | |
| $10x^5 - 10$ | | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{19}{12} \frac{19}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{2351}{1500}$ |
| | $133814555180870550x^4 -$ | | | |
| | $6056594173400378875x^3 +$ | | | |
| | $7789917816218871900x^2 +$ | | | |
| | $2747914378426198684500x +$ | | | |
| | 3581188425979909506015 | | | |
| $x^{15} + 10x^{14} + 5x^{13} - 10x^{12} -$ | | | | |
| $5x^{11} - 5x^{10} + 10x^9 + 10x^8 -$ | $x^{15} - 22436x^{10} + 4189837232x^5 +$ | | | |
| $5x^7 + 5$ | 4099209085472 | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{19}{12} \frac{19}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{2351}{1500}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|---------------------|
| $x^{15} - 10x^{14} - 5x^{13} - 5x^{12} + 5x^9 - 10x^8 - 5x^7 + 5x^5 - 10$ | $x^{15} - 253x^{10} + 35453x^5 - 161051$ | $\left[\begin{array}{c} 19 \\ 12 \end{array} \frac{19}{12} \right]_{12}^2$ | T: 15, 19 | $\frac{467}{300}$ |
| $x^{15} - 10x^{14} + 10x^9 - 5x^8 + 5x^7 - 10x^5 - 10$ | $x^{15} - 105x^{13} + 26460x^{11} - 41797x^{10} - 2924075x^9 + 8225140x^8 + 130734450x^7 + 89665345x^6 - 8022394072x^5 - 41384716450x^4 + 154984237870x^3 + 1554163878575x^2 + 3712839496135x + 2850935157301$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{19}{12} \frac{19}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{2351}{1500}$ |
| $x^{15} - 5x^{13} + 10x^{12} - 10x^{11} - 10x^{10} - 10x^9 - 5x^7 + 5x^5 - 5$ | $x^{15} - 27x^{10} + 243x^5 + 71$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{19}{12} \frac{19}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{2351}{1500}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|---------------------|
| $x^{15} - 840x^{13} - 925x^{12} + 284340x^{11} +$ $565908x^{10} - 50018830x^9 -$ $140268660x^8 + 4892259330x^7 +$ $19387004710x^6 - 246937252632x^5 -$ $1562224938330x^4$ $+ 2658048586605x^3$ $+ 50332796574480x^2$ $+ 173572788661020x$ $+ 172536075827271$ | $x^{15} - 5x^{14} - 5x^{12} + 5x^{11} -$ $5x^{10} - 10x^9 - 10x^7 + 5x^5 - 5$ | $\left[\begin{array}{ccc} 5 & 19 & \\ 4 & 12 & 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2351}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|---------------------|
| $x^{15} - 630x^{13} - 9745x^{12} + 764925x^{11} +$ $32199174x^{10} - 200571890x^9 -$ $8945814045x^8 - 162951157635x^7 +$ $3555840082770x^6 +$ $35639175185292x^5 +$ $53457500960955x^4 -$ $1076843075872740x^3 -$ $37298904917759100x^2 +$ $340113372449351760x +$ 4782709300852918332 | $x^{15} - 630x^{13} - 9745x^{12} + 764925x^{11} +$ $32199174x^{10} - 200571890x^9 -$ $8945814045x^8 - 162951157635x^7 +$ $3555840082770x^6 +$ $35639175185292x^5 +$ $53457500960955x^4 -$ $1076843075872740x^3 -$ $37298904917759100x^2 +$ $340113372449351760x +$ 4782709300852918332 | $\left[\begin{array}{c} 5 & 19 & 19 \\ 4 & 12 & 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2351}{1500}$ |
| $x^{15} + 5x^{14} + 5x^{13} + 5x^{12} -$ $5x^{11} - 10x^{10} - 5x^8 + 10x^7 +$ $5x^5 + 10$ | | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|-----------|-------------------|
| $x^{15} - 270x^{13} - 1825x^{12} + 32085x^{11} + 287262x^{10} + 303210x^9 - 3513645x^8 - 70258995x^7 - 726469290x^6 - 1307647152x^5 + 14943018915x^4 + 70348288590x^3 - 36901630080x^2 - 509872281120x - 1075042050966$ | | $\left[\begin{array}{cc} 19 & 19 \\ 12 & 12 \end{array} \right]_{12}^2$ | T: 15, 19 | $\frac{467}{300}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|---------------------|
| | $x^{15} + 420x^{13} - 75180x^{12} +$ $1334130x^{11} - 56878080x^{10} +$ $1779412950x^9 - 3435625200x^8 -$ $406228568550x^7 +$ | | | |
| $x^{15} + 5x^{14} + 5x^{13} + 5x^{12} +$ | $17711476657700x^6 -$ | | | |
| $5x^{11} + 5x^{10} + 10x^9 + 10x^8 -$ | $337596705780600x^5 +$ | $\left[\begin{array}{c} 5 & 19 & 19 \\ 4 & 12 & 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2351}{1500}$ |
| $10x^7 + 10$ | $6108686605077000x^4 -$ $88376645488695375x^3 +$ $554793617413035000x^2 -$ $740713148748972000x -$ 2469019237419873600 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} - 1020x^{13} - 620x^{12} + 340170x^{11} -$ $563856x^{10} - 26388510x^9 -$ $15055200x^8 - 1251030510x^7 -$ $8801244140x^6 + 7114233352x^5 +$ $622338634320x^4 + 393385663105x^3 -$ $13711886846400x^2 -$ $39098187252600x - 25373792333928$ | | $\left[\begin{smallmatrix} 19 & 19 \\ 12 & 12 \end{smallmatrix} \right]_{12}^2$ | T: 15, 19 | $\frac{467}{300}$ |
| $x^{15} + 5x^{14} + 5x^{13} + 5x^{12} +$ $10x^{11} + 5x^{10} + 10x^9 - 5x^8 -$ $10x^7 + 10x^5 - 5$ | $x^{15} - 15x^{13} + 540x^{11} - 197x^{10} -$ $8525x^9 - 880x^8 + 54450x^7 +$ $139205x^6 - 488422x^5 - 986150x^4 +$ $1217260x^3 + 3760075x^2 + 3099415x +$ 977801 | $\left[\begin{smallmatrix} 19 & 19 \\ 12 & 12 \end{smallmatrix} \right]_{12}^2$ | T: 15, 19 | $\frac{467}{300}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|---------------------|
| $x^{15} - 10x^{14} + 5x^{13} - 10x^{12} - 10x^{10} - 10x^8 + 5x^7 + 10$ | $x^{15} - 105x^{13} + 26460x^{11} - 35378x^{10} - 2924075x^9 + 3659810x^8 + 130734450x^7 + 546179480x^6 - 8194725847x^5 - 45553692800x^4 + 154526667295x^3 + 1440635534800x^2 + 3254811350560x + 2462831930174$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{19}{12} \frac{19}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{2351}{1500}$ |
| $x^{15} - 10x^{14} - 5x^{12} + 10x^{11} - 10x^{10} - 10x^9 - 10x^8 - 5x^5 - 5$ | $x^{15} - 5x^{14} + 150x^{12} - 1035x^{11} + 3324x^{10} - 3185x^9 - 20730x^8 + 119425x^7 - 407440x^6 + 1006422x^5 - 1702685x^4 + 2545335x^3 - 3098550x^2 + 2167620x - 2435108$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \frac{5}{3} \right]_3^4$ | T: 15, 9 | $\frac{122}{75}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|---------|------------------|
| $x^{15} + 5x^{13} + 10x^{12} - 10x^{11} +$ $5x^{10} + 10x^9 - 10x^8 + 10x^5 + 5$ | $x^{15} - 5x^{14} + 15x^{13} - 60x^{12} + 230x^{11} -$ $654x^{10} + 2355x^9 - 6840x^8 + 4910x^7 +$ $31845x^6 - 105053x^5 + 141530x^4 -$ $83590x^3 + 1885x^2 + 19370x - 3757$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^4$ | T: 15,9 | $\frac{122}{75}$ |
| $x^{15} - 10x^{14} - 5x^{13} - 5x^{12} -$ $5x^{10} + 10x^9 + 10x^8 - 5$ | $x^{15} - 5x^{14} + 25x^{13} - 70x^{12} +$ $180x^{11} - 470x^{10} + 615x^9 - 2140x^8 -$ $1400x^7 + 3025x^6 + 1615x^5 + 10000x^4 +$ $11550x^3 - 7775x^2 + 493800x - 790505$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^4$ | T: 15,9 | $\frac{122}{75}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--------------------------------------|---|---------|------------------|
| $x^{15} - 5x^{14} + 120x^{13} + 3555x^{12} -$ | $57375x^{11} + 979885x^{10} -$ | | | |
| $x^{15} + 5x^{14} - 5x^{13} + 10x^{12} -$ | $15604025x^9 + 85453425x^8 -$ | | | |
| $10x^{11} + 5x^{10} + 10x^9 - 5x^8 +$ | $1848672200x^7 + 3695496025x^6 -$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^{10}$ | T: 15,9 | $\frac{122}{75}$ |
| $10x^5 - 5$ | $10458399000x^5 + 638355328575x^4 +$ | | | |
| | $5492883141375x^3 -$ | | | |
| | $3418856193250x^2 +$ | | | |
| | $10440360397500x - 19575667401025$ | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|---------|------------------|
| $x^{15} - 5x^{14} - 5x^{13} - 5x^{10} +$ $5x^9 + 10x^8 + 10x^5 - 10$ | $x^{15} - 5x^{14} + 105x^{13} - 180x^{12} -$ $2450x^{11} + 33559x^{10} - 415070x^9 +$ $501995x^8 + 4040165x^7 -$ $70757705x^6 + 419787532x^5 +$ $335944010x^4 - 423299435x^3 -$ $3398734010x^2 + 10659688560x +$ 26002108872 | $\begin{bmatrix} 5 & 5 \\ 3 & 3 \end{bmatrix}_3^2$ | T: 15,9 | $\frac{122}{75}$ |
| $x^{15} - 5x^{14} + 10x^{13} - 10x^{12} +$ $5x^{11} + 10x^{10} + 5x^8 - 10x^5 + 5$ | $x^{15} - 50x^{13} - 40x^{12} + 815x^{11} +$ $712x^{10} - 6550x^9 - 4730x^8 + 29295x^7 +$ $14080x^6 - 73782x^5 - 16300x^4 +$ $97105x^3 - 1880x^2 - 51570x + 11614$ | $\begin{bmatrix} 5 & 5 \\ 3 & 3 \end{bmatrix}_3^2$ | T: 15,9 | $\frac{122}{75}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|---------|------------------|
| $x^{15} - 10x^{13} - 5x^{12} - 5x^{11} + 5x^{10} + 10x^9 - 10x^8 + 10x^5 - 10$ | $x^{15} - 655x^{13} - 4315x^{12} + 211430x^{11} + 62292x^{10} - 688065x^9 - 1560940x^8 - 2731020780x^7 - 4846689680x^6 + 33590828318x^5 - 93672614085x^4 - 330034815530x^3 - 289003971230x^2 + 20577685525x + 222368838229$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^{10}$ | T: 15,9 | $\frac{122}{75}$ |
| $x^{15} - 5x^{14} - 10x^{12} - 10x^{11} + 10x^{10} - 5x^8 - 5x^5 - 5$ | $x^{15} - 60x^{13} - 15x^{12} + 1080x^{11} + 570x^{10} - 7725x^9 - 4940x^8 + 22600x^7 + 11300x^6 - 28620x^5 - 6400x^4 + 13075x^3 - 150x^2 - 1350x + 135$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^2$ | T: 15,9 | $\frac{122}{75}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|---------|------------------|
| $x^{15} - 5x^{14} + 5x^{12} - 10x^{11} - 10x^{10} + 10x^8 - 5x^5 - 10$ | $x^{15} - 5x^{14} - 135x^{13} + 710x^{12} + 5875x^{11} - 33516x^{10} - 106080x^9 + 714265x^8 + 654060x^7 - 7183050x^6 + 2230302x^5 + 30041255x^4 - 32537590x^3 - 30664785x^2 + 61787700x - 24908823$ | $\begin{bmatrix} 5 & & \\ & 5 & \\ & & 3 \end{bmatrix}_3^2$ | T: 15,9 | $\frac{122}{75}$ |
| $x^{15} - 5x^{14} - 10x^{13} - 10x^{12} - 10x^{10} + 10x^9 + 10x^8 + 10x^5 - 10$ | $x^{15} - 145x^{13} - 290x^{12} + 5500x^{11} + 12108x^{10} - 89650x^9 - 183645x^8 + 731830x^7 + 1218635x^6 - 3221152x^5 - 3339600x^4 + 7840800x^3 + 2216720x^2 - 8402240x + 3167296$ | $\begin{bmatrix} 5 & & \\ & 5 & \\ & & 3 \end{bmatrix}_3^2$ | T: 15,9 | $\frac{122}{75}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|---------|------------------|
| $x^{15} + 5x^{14} + 10x^{12} + 10x^{11} - 10x^{10} + 10x^9 + 10x^8 - 10x^5 - 5$ | $x^{15} - 5x^{14} + 5x^{13} - 50x^{12} + 300x^{11} - 338x^{10} - 1225x^9 - 3360x^8 + 23010x^7 - 21505x^6 - 6267x^5 - 970x^4 + 25030x^3 - 16285x^2 + 2130x - 251$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^4$ | T: 15,9 | $\frac{122}{75}$ |
| $x^{15} - 5x^{13} + 10x^{10} - 5x^8 - 5x^5 + 10$ | $x^{15} - 5x^{14} + 30x^{13} - 210x^{12} + 1135x^{11} - 2094x^{10} - 4135x^9 + 27160x^8 - 44915x^7 - 2470x^6 + 106652x^5 - 131625x^4 + 21125x^3 + 57460x^2 - 28730x + 3718$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^4$ | T: 15,9 | $\frac{122}{75}$ |
| $x^{15} - 5x^{14} - 5x^{13} - 5x^{12} + 10x^{10} - 10x^9 + 5x^8 + 10x^5 - 10$ | $x^{15} - 5x^{14} + 30x^{13} + 60x^{12} - 195x^{11} - 816x^{10} + 1685x^9 - 7200x^8 - 21795x^7 - 2720x^6 + 38072x^5 + 38825x^4 - 13445x^3 - 25200x^2 - 7380x - 918$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^4$ | T: 15,9 | $\frac{122}{75}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|---------|------------------|
| $x^{15} - 10x^{14} + 5x^{13} + 5x^{12} +$ $5x^{11} + 5x^{10} - 10x^9 - 10x^8 -$ $10x^5 + 10$ | $x^{15} - 100x^{13} - 55x^{12} + 2830x^{11} +$ $1626x^{10} - 35125x^9 - 14580x^8 +$ $213800x^7 + 26735x^6 - 637198x^5 +$ $144250x^4 + 804640x^3 - 422280x^2 -$ $224300x + 140188$ | $\begin{bmatrix} 5 & 5 \\ 3 & 3 \end{bmatrix}_3^2$ | T: 15,9 | $\frac{122}{75}$ |
| $x^{15} - 10x^{13} - 5x^{12} + 5x^{11} -$ $10x^{10} - 10x^8 + 5$ | $x^{15} - 5x^{13} - 60x^{12} - 60x^{11} +$ $243x^{10} + 2075x^9 + 2500x^8 - 16940x^7 -$ $81015x^6 - 132332x^5 + 243100x^4 +$ $1120280x^3 + 1631545x^2 + 131745x +$ 91171 | $\begin{bmatrix} 5 & 5 \\ 3 & 3 \end{bmatrix}_3^4$ | T: 15,9 | $\frac{122}{75}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS | | | | | | | |
|--|---|---|---------|------------------|--|---------|------------------|--|--|--|--|
| $x^{15} + 10x^{14} - 5x^{13} + 10x^{12} + 5x^{11} + 10x^{10} + 5x^8 + 5$ | $x^{15} - 655x^{13} - 3710x^{12} + 206535x^{11} +$ $1807992x^{10} - 36668185x^9 -$ $359718740x^8 + 3630904130x^7 +$ $37873542875x^6 - 184356041922x^5 -$ $2264560414540x^4 +$ $3415448901720x^3 +$ $76502820758830x^2 +$ $26964461273465x -$ 1275943429402511 | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^{10}$ | T: 15,9 | $\frac{122}{75}$ | | | | | | | |
| | $x^{15} - 5x^{14} - 30x^{13} + 60x^{12} - 135x^{11} +$ $9x^{10} + 1555x^9 - 5355x^8 + 17095x^7 -$ $32695x^6 + 39117x^5 - 35165x^4 -$ $5070x^3 + 30420x^2 + 7605x - 13013$ | | | | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^4$ | T: 15,9 | $\frac{122}{75}$ | | | | |
| | Continued on next page | | | | | | | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|---------|------------------|
| $x^{15} - 5x^{14} + 5x^{11} + 5x^{10} +$ $10x^9 + 10x^8 + 5x^5 + 5$ | $x^{15} + 5x^{13} - 320x^{11} - 1379x^{10} -$ $7425x^9 - 31040x^8 - 90660x^7 -$ $259425x^6 - 581898x^5 - 1051150x^4 -$ $1666900x^3 - 2034645x^2 - 1468395x -$ 437427 | $\begin{bmatrix} 5 & 5 \\ 3 & 3 \end{bmatrix}_3^4$ | T: 15,9 | $\frac{122}{75}$ |
| $x^{15} + 5x^{12} + 10x^{11} - 10x^9 -$ $5x^8 + 10x^5 - 5$ | $x^{15} - 655x^{13} - 1790x^{12} + 206260x^{11} +$ $507948x^{10} - 29233010x^9 -$ $106519835x^8 + 1656621105x^7 +$ $15517605650x^6 - 37050003592x^5 -$ $783408700585x^4 + 289618008645x^3 +$ $3957058624295x^2 +$ $25661573196315x + 6310337751851$ | $\begin{bmatrix} 5 & 5 \\ 3 & 3 \end{bmatrix}_3^{10}$ | T: 15,9 | $\frac{122}{75}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|---------|------------------|
| $x^{15} + 5x^{14} - 5x^{13} + 10x^{12} - 10x^{11} - 5x^{10} - 5x^9 - 5x^8 - 5x^5 - 10$ | $x^{15} - 5x^{14} + 15x^{13} - 85x^{12} + 205x^{11} - 546x^{10} + 5405x^9 - 34370x^8 + 118035x^7 - 219475x^6 + 213012x^5 + 131760x^4 - 313445x^3 + 138120x^2 + 14130x - 30158$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^4$ | T: 15,9 | $\frac{122}{75}$ |
| $x^{15} - 5x^{14} + 5x^{13} + 10x^{11} + 10x^{10} - 5x^9 + 10x^8 + 10x^5 - 10$ | $x^{15} - 5x^{14} - 75x^{13} + 285x^{12} + 1770x^{11} - 5978x^{10} - 15220x^9 + 56980x^8 + 24520x^7 - 212340x^6 + 167248x^5 + 60400x^4 - 86080x^3 - 2880x^2 + 9920x + 1344$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^2$ | T: 15,9 | $\frac{122}{75}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|---------|------------------|
| $x^{15} - 10x^{14} - 10x^{13} - 5x^{12} + 5x^{11} - 10x^9 + 5x^8 + 5x^5 + 5$ | $x^{15} - 5x^{14} + 120x^{13} + 7130x^{12} - 90100x^{11} + 757135x^{10} - 7304800x^9 - 124498075x^8 - 1318045675x^7 - 4039669600x^6 + 13805277525x^5 + 182231367700x^4 + 517149649250x^3 - 254015464750x^2 - 4107947233500x - 6365288463775$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^{10}$ | T: 15,9 | $\frac{122}{75}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|---------|------------------|
| $x^{15} - 10x^{14} + 10x^{13} + 10x^{12} -$ $10x^{11} + 5x^{10} - 10x^9 - 10x^8 -$ 10 | $x^{15} - 50x^{13} - 2945x^{12} - 76770x^{11} +$ $121870x^{10} - 4570955x^9 +$ $44315905x^8 - 881689175x^7 -$ $18987080225x^6 - 191010879760x^5 -$ $1939784981700x^4 -$ $7676938642925x^3 -$ $12078645482050x^2 +$ $83663724455675x + 5483560820255$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^{10}$ | T: 15,9 | $\frac{122}{75}$ |
| $x^{15} + 5x^{14} - 5x^{12} + 5x^{11} +$ $5x^{10} - 10x^9 - 5x^8 - 5$ | $x^{15} - 5x^{14} + 10x^{13} - 20x^{12} -$ $2375x^{11} + 24106x^{10} - 157220x^9 +$ $823440x^8 - 2937705x^7 + 8035325x^6 -$ $17532663x^5 + 11317655x^4 +$ $30532065x^3 - 42235405x^2 +$ $8389425x + 9757683$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^{10}$ | T: 15,9 | $\frac{122}{75}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|---------|------------------|
| $x^{15} - 655x^{13} - 1185x^{12} + 113255x^{11} -$ $479577x^{10} + 11066535x^9 +$ $374288790x^8 - 2335662355x^7 -$ | | | | |
| $x^{15} + 10x^{14} + 10x^{13} - 5x^{12} +$ $10x^{11} + 5x^{10} + 10x^8 - 5x^5 + 10$ | $61067198470x^6 - 153002032752x^5 +$ $1399029620610x^4 +$ $5511623197320x^3 -$ $11582531244420x^2 -$ $40674195257475x + 72418257005161$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^{10}$ | T: 15,9 | $\frac{122}{75}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|---------|------------------|
| $x^{15} - 655x^{13} - 1510x^{12} + 205985x^{11} -$ $524118x^{10} - 16753235x^9 +$ $86937910x^8 - 667169320x^7 +$ $8729167725x^6 - 15465707452x^5 -$ $80064156915x^4 - 122944054180x^3 +$ $42251617830x^2 + 1004988942090x +$ 1145556955179 | | $\left[\begin{matrix} 5 & 5 \\ 3 & 3 \end{matrix} \right]_3^{10}$ | T: 15,9 | $\frac{122}{75}$ |
| $x^{15} + 5x^{14} - 5x^{11} + 5x^{10} +$ $5x^9 - 5x^8 - 5x^5 - 5$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|---------|------------------|
| $x^{15} - 5x^{14} + 120x^{13} - 4145x^{12} - 47200x^{11} + 988685x^{10} - 16844000x^9 + 160298800x^8 - 1323087525x^7 + 4387734275x^6 + 60662271225x^5 - 1021496567050x^4 + 5559770961000x^3 - 15404003517125x^2 + 29660086189250x - 20846166581525$ | | | | |
| $x^{15} - 5x^{14} - 5x^{12} + 5x^{11} + 5x^{10} - 10x^9 + 5x^8 + 5x^5 + 5$ | | $\left[\begin{smallmatrix} 5 & 5 \\ 3 & 3 \end{smallmatrix} \right]_3^{10}$ | T: 15,9 | $\frac{122}{75}$ |
| $x^{15} - 5x^{14} + 10x^{13} + 255x^{12} - 4300x^{11} + 37581x^{10} - 248245x^9 + 1456490x^8 - 7529930x^7 + 31097925x^6 - 95984663x^5 + 214784105x^4 - 338629585x^3 + 356492045x^2 - 224062300x + 63213283$ | | | | |
| $x^{15} - 10x^{14} - 10x^{13} - 5x^{10} - 10x^9 - 5x^8 - 5$ | | $\left[\begin{smallmatrix} 5 & 5 \\ 3 & 3 \end{smallmatrix} \right]_3^{10}$ | T: 15,9 | $\frac{122}{75}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|---------|------------------|
| $x^{15} - 10x^{14} + 10x^{13} - 5x^{12} + 10x^{10} - 10x^9 + 10x^8 - 5x^5 + 10$ | $x^{15} - 5x^{14} + 10x^{13} + 255x^{12} - 2375x^{11} - 8619x^{10} - 20820x^9 - 321110x^8 - 1518705x^7 - 3601300x^6 - 5185988x^5 - 6867545x^4 - 7705035x^3 - 4919005x^2 + 813175x + 5426433$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^{10}$ | T: 15,9 | $\frac{122}{75}$ |
| $x^{15} + 10x^{13} - 5x^{12} - 10x^{11} - 5x^{10} - 5x^8 - 5x^5 - 5$ | $x^{15} - 5x^{14} + 120x^{13} - 5795x^{12} - 63700x^{11} - 1076840x^{10} - 5199950x^9 + 64772050x^8 - 603373475x^7 + 1758138900x^6 + 58344104550x^5 - 337849904175x^4 - 768203749750x^3 + 6579699694125x^2 + 741798637250x - 35636515938275$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^{10}$ | T: 15,9 | $\frac{122}{75}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|---------|------------------|
| $x^{15} - 50x^{13} - 1730x^{12} - 94920x^{11} -$ $219000x^{10} - 8248530x^9 -$ $21807705x^8 - 1650458825x^7 -$ $23342932500x^6 - 179647121585x^5 -$ $1355133584250x^4$ | $4891898850500x^3 -$ $2703052661525x^2 +$ $5068466349475x + 3472827614695$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^{10}$ | T: 15,9 | $\frac{122}{75}$ |
| $x^{15} - 10x^{14} - 10x^{13} - 10x^{11} -$ $5x^9 + 5x^8 - 10x^5 + 5$ | $x^{15} - 295x^{13} - 305x^{12} + 31510x^{11} +$ $64962x^{10} - 1464160x^9 - 4539335x^8 +$ $26349495x^7 + 115054575x^6 -$ $73441172x^5 - 798461865x^4 -$ $586541895x^3 + 1251005560x^2 +$ $1342874540x - 168192056$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^2$ | T: 15,9 | $\frac{122}{75}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|---------|------------------|
| $x^{15} + 5x^{13} - 10x^{12} + 10x^{11} + 5x^9 - 10x^8 - 5x^5 - 10$ | $x^{15} - 655x^{13} - 1240x^{12} +$ $185635x^{11} + 705728x^{10} -$ $24954285x^9 - 142669960x^8 +$ $952222630x^7 + 18140446475x^6 +$ $47349337093x^5 - 1094613411710x^4 -$ $4405836146230x^3 +$ $28124530724220x^2 +$ $73905146956840x -$ 276177653368319 | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^{10}$ | T: 15,9 | $\frac{122}{75}$ |
| | Continued on next page | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|---------|------------------|
| $x^{15} - 50x^{13} - 2280x^{12} -$ $114170x^{11} - 656965x^{10} -$ $9557255x^9 - 80281505x^8 +$ $942694925x^7 - 559530375x^6 -$ $134416227910x^5 - 615521067475x^4 -$ $1911630336475x^3 -$ $4357177132425x^2 +$ $19724696785575x + 69958031904595$ | | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^{10}$ | T: 15,9 | $\frac{122}{75}$ |
| $x^{15} + 5x^{14} + 10x^{13} - 10x^{11} -$ $5x^{10} + 5x^8 + 10x^5 + 5$ | $x^{15} - 60x^{13} - 90x^{12} + 975x^{11} +$ $1926x^{10} - 5900x^9 - 12510x^8 +$ $13395x^7 + 27260x^6 - 8568x^5 -$ $15150x^4 - 955x^3 + 1350x^2 + 120x - 2$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^2$ | T: 15,9 | $\frac{122}{75}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|---------|------------------|
| $x^{15} + 5x^{14} - 5x^{13} - 10x^{11} - 10x^{10} - 10x^9 - 10x^8 + 5x^5 - 10$ | $x^{15} - 55x^{13} - 85x^{12} + 1355x^{11} + 4238x^{10} - 3490x^9 - 72385x^8 - 300855x^7 + 265105x^6 + 4185428x^5 + 4842260x^4 - 21417280x^3 - 48987520x^2 + 39251200x + 127098176$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^2$ | T: 15,9 | $\frac{122}{75}$ |
| $x^{15} - 5x^{14} + 5x^{13} - 10x^{12} + 5x^{11} + 10x^{10} - 5x^9 + 10x^8 - 10x^5 + 10$ | $x^{15} - 5x^{14} + 10x^{13} - 20x^{12} - 1000x^{11} - 3394x^{10} - 58770x^9 - 242460x^8 - 1301180x^7 - 5377250x^6 - 11448013x^5 - 37934570x^4 - 10502610x^3 + 46504895x^2 - 10209100x - 3865267$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^{10}$ | T: 15,9 | $\frac{122}{75}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|---------|------------------|
| $x^{15} - 655x^{13} - 8990x^{12} + 113530x^{11} +$ $3680632x^{10} + 35669960x^9 -$ $119669315x^8 - 7200720080x^7 -$ $87713171180x^6 - 603483412012x^5 -$ $2243782652810x^4$ $1830528341655x^3$ $16394904496645x^2$ $62782730436075x + 74437349301369$ | $x^{15} - 655x^{13} - 8990x^{12} + 113530x^{11} +$ $3680632x^{10} + 35669960x^9 -$ $119669315x^8 - 7200720080x^7 -$ $87713171180x^6 - 603483412012x^5 -$ $2243782652810x^4$ $1830528341655x^3$ $16394904496645x^2$ $62782730436075x + 74437349301369$ | $\begin{bmatrix} 5 & 5 \\ 3 & 3 \end{bmatrix}^{10}_3$ | T: 15,9 | $\frac{122}{75}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|---------|------------------|
| $x^{15} - 10x^{12} + 10x^{10} - 5x^9 - 10x^8 - 5x^5 - 10$ | $x^{15} - 50x^{13} - 1295x^{12} - 66595x^{11} - 140315x^{10} - 276555x^9 + 39847705x^8 + 586507775x^7 + 5802649025x^6 - 121023561810x^5 - 172612554350x^4 + 10657186101725x^3 - 41325693658275x^2 - 183899316064100x + 1714636915488355$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^{10}$ | T: 15,9 | $\frac{122}{75}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|---------|------------------|
| $x^{15} - 5x^{14} + 5x^{13} + 10x^{12} + 10x^{11} - 10x^{10} - 10x^8 - 5x^5 - 10$ | $x^{15} - 655x^{13} - 7510x^{12} + 164955x^{11} + 3443353x^{10} + 9292235x^9 - 417366910x^8 - 6617775080x^7 - 23645096445x^6 + 238821194483x^5 + 1781649230785x^4 - 1877635079630x^3 - 36956514868695x^2 - 52451589675825x + 61580804482341$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^{10}$ | T: 15,9 | $\frac{122}{75}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|-----------|---------------------|
| $x^{15} - 5x^{14} - 8415x^{13} + 103185x^{12} +$ $23008785x^{11} - 274107117x^{10} -$ $29088596295x^9 + 249942516180x^8 +$ $17938359376935x^7 -$ $67959833297045x^6 -$ $4580623507768847x^5 -$ $5191486002393165x^4 +$ $154587994473180870x^3 -$ $290043115533803925x^2 -$ $117636963002594730x +$ 384054607141128681 | | $\left[\begin{array}{c} \frac{13}{12} \\ \frac{13}{12} \\ \frac{7}{4} \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2423}{1500}$ |
| $x^{15} - 5x^{14} - 5x^{13} + 5x^{12} +$ $5x^{11} - 5x^{10} + 10x^9 - 5x^5 + 5$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|---------------------|
| | $x^{15} - 5x^{14} - 4960x^{13} +$ $3065x^{12} + 8530825x^{11} +$ $19564893x^{10} - 6151341050x^9 -$ $15822638755x^8 + 2101013540240x^7 +$ $2561679994590x^6 -$ $338347247560882x^5 +$ $480100934387580x^4 +$ $20723614328041405x^3 -$ $103632503648009925x^2 +$ $111572353422231290x +$ 78896843667584491 | $\left[\begin{array}{c} \frac{13}{12} \\ \frac{13}{12} \\ \frac{7}{4} \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2423}{1500}$ |
| $x^{15} + 10x^{14} - 5x^{13} + 10x^{12} -$ $10x^{11} + 5x^{10} + 10x^9 - 5x^5 + 10$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|---------|-----|
| x^{15} | — | | | |
| | 23339836852179099058258665745628819983565952651966485938342762297590009070199158630 | | | |
| | 111613911482874696628953104981077026391462815902248283469217480504207494560041937766 | | | |
| | 7992508127476587483468545217176453146097253729005224817125215516113544082278970061333 | | | |
| | 339748926015926072869105996195360751946728803475302053590128658892288719881737631849 | | | |
| | 348749341068665100433970127540558104874215879929702433728565141159591855050711531929 | | | |
| $x^{15} - 10x^{14} + 5x^{13} + 5x^{10} +$ | 43422303960821328801862722907931207263064576923978666687361800136298957549583137670 | $\frac{13}{7}, \frac{13}{7}, \frac{13}{7}$ T: 15, 38 | | |
| $5x^9 - 10$ | 66150751264326606273122113022734206406341928256480925128358940608904816568040212443 | $\frac{13}{7}, \frac{13}{7}, \frac{13}{7}$ T: 15, 38 | | |
| | 80857198097410573692723168549986959545969405382797468035573872658407964674825764993 | | | |
| | 81683311413109969186656399446581759884415279955860404232634442983428424468655256887 | | | |
| | 16683029076011002582323706190779881558229575376064265907836935921323737923724370842 | | | |
| | 17649395257500934200081788505264740492008305812779565360616187554012429131302367588 | | | |
| | 138210098588265087378769482849895217060057732377111830635617614510921275730498395549 | | | |
| | 199121871940028647539607483430397159154922185851755529377929627080466291176829458500 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|------------------------------|-----------|---------------------|
| x^{15} | — | | | |
| | 77765429047452835633839050434318387480823555976626253835314101524799926409621222301 | | | |
| | 36335135511466080799610894633738783058767544545229515080529078218884187704412388311 | | | |
| | 21590301884454948169903971478771876353962140718119537886584681101278472142596997427 | | | |
| | 13899632354028882921544512104155880949816726990064837120559769195575012349475813020 | | | |
| | 13998997633128657470145386455620215604834786252278710115292845870254423110660909263 | | | |
| $x^{15} + 10x^{14} + 10x^{13} - 10x^{11} +$ | 71137393249811672167192792582491656353828038065497738212199518566858816935534902287 | $\frac{13}{13} \frac{13}{7}$ | T: 15, 38 | $\frac{2423}{1506}$ |
| $5x^{10} - 5x^9 + 10x^5 - 5$ | 22312747201152300166545496704295541994209271250447232261865558425922938691620328799 | | | |
| | 72225165496729404652891378942849749195858972995296310618516609631050964742479777837 | | | |
| | 22692981822172754286518387624706607390241505640756969063568330290052301816984378812 | | | |
| | 96900874536156724103950881551550578040287514948735098323441611825752088535245727547 | | | |
| | 6816621443468559333620032414285763614270892836403166612004301984251214052498568430 | | | |
| | 25059188463203385357138056661210101400648339574895593166534067168756236587483112973 | | | |
| | 12454222193838715699419485965151537121862535088217218971065966950778912932664500031 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|---------|-----------------|
| $x^{15} - 5x^{14} + 10x^{13} - 120x^{12} + 360x^{11} - 9238x^{10} - 171565x^9 + 6145x^{11} - 9238x^{10} - 171565x^9 + 309390x^8 + 3049205x^7 + 4113010x^6 - 38393402x^5 - 86422305x^4 + 404342855x^3 + 63066060x^2 - 71156530x - 1551274236$ | | $\left[\begin{matrix} 7 \\ 4 \end{matrix} \right]_{12}^2$ | T: 15,8 | $\frac{19}{12}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|------------------------------|---------------------|-----|
| x^{15} | — | | | |
| | 80756411653638635830215358945782282571015913749233748623250133413450733920848924139 | | | |
| | 64752306408582623754745768069646661341534886006951154909987978722852077612801323408 | | | |
| | 10763603386368458378812590268072524822806427019686407346330146974861527471047167707 | | | |
| | 10996057962607460964448458185488850644899579429082775007330297966823258280974940510 | | | |
| | 45685181003910259805980810964141791614024610776620564352298034612023352651860839641 | | | |
| $x^{15} + 5x^{14} - 5x^{13} + 10x^{12} +$ | 68132663001441248699694043682179722852271563440914551752244491010459888191204521652 | $\frac{13}{13} \frac{13}{7}$ | T: 15, 38 | |
| $10x^{10} + 5x^9 - 10x^5 - 10$ | 26765797131322827413180006052366454618884741866135212029503872042144358938046578660 | $\frac{13}{13} \frac{13}{7}$ | $\frac{2423}{1506}$ | |
| | 34271939115253677444729178889399694172506061742201399120860540447881888691200832038 | | | |
| | 1682960419966309203321245572711988261754252106658492752198748715541292472538618970 | | | |
| | 13082401157427040729402220422230000240228948577730241827445344224795801778667987595 | | | |
| | 62978235058398862855614919895211051846041366754382038034361319400191199801273998533 | | | |
| | 92007419258088122883081142972854424720229261611730571879310462273911250465795658731 | | | |
| | 79450749404101124160516770093583259896073384482435087830455712602351791533151550471 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|-----|---------|-----|
| x^{15} | — | | | |
| $x^{15} + 5x^{14} - 5x^{13} - 10x^{12} + 5x^{11} + 5x^{10} + 5x^9 + 5$ | 2661393443927820146623603602966840205805508686981465290048647325650. x^{13} — 689919427020946123794838209430104421971003405184925410432152422779938765639824400400 27781788470725322338579008395493656471118219888724590554405054947897286103607096474 133643815750689331440075972162207988776205843700966886766521650837990281846182066633 100526320735280428719370262434526185102633413204425938181032449328947855037178756255 81019333788315800730419857244158633348657570186004249094422955204716321671459314775 2687531312231979977401555658142870624329157319190057384986765090730333097419862526 10137813660682323156405561947966254067129296020498663186483929910165882910248381783 32408344152834057017697548998728190037268287952345871934077093786490149621722610084 23114057834292981312351305665003796278796820806394428600234484415494870967469044168 62643961193667228798639007314406979088266484893087531981289462085119789398083821124 26718345891873326299685046391863971381690213937745918711631685515418706315002463923 85044778527981733064519953163340923514030766750803183495278175859560264301327216530 41043896312549826837735069224843711985850682775363678700227542307970198380188698891 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|---------|-----------------|
| $x^{15} + 10x^{14} - 10x^{13} - 10x^{12} -$ $10x^9 + 10x^5 + 5$ | $x^{15} - 5x^{14} - 100x^{13} + 585x^{12} +$ $3675x^{11} - 28375x^{10} - 2010x^9 +$ $334050x^8 - 522050x^7 - 765225x^6 +$ $1802400x^5 + 198800x^4 - 1349675x^3 -$ $143300x^2 + 320$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \right]_{12}^2$ | T: 15,8 | $\frac{19}{12}$ |
| $x^{15} + 5x^{14} - 5x^{13} + 10x^{12} -$ $10x^{11} + 10x^{10} + 10x^9 - 10x^5 +$ 5 | $x^{15} - 5x^{14} + 35x^{12} - 25x^{11} - 125x^{10} +$ $85x^9 + 275x^8 - 75x^7 - 300x^6 + 25x^5 +$ $175x^4 - 50x^2 + 5$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \right]_{12}^2$ | T: 15,8 | $\frac{19}{12}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|---------|-----|
| x^{15} | — | | | |
| | 2661393443927820146623603602966840205805508686981465290048647325650. x^{13} — | | | |
| | 424791699061130432248913456507574671177761942730646501379365351176618362085097119509 | | | |
| | 29735990094599712163703946769387653016112032952257560411249061291257192064170670871 | | | |
| | 10680637440430483011095975131135669935850904083800622604684732995113317822183774004 | | | |
| | 14561217686786760186421084224534073792967085094672133784882169200048976984307861245 | | | |
| | 84850388296757039100048811589039388020387391363347965901884121914424146002598090192 | | | |
| $x^{15} - 5x^{14} + 10x^{12} + 10x^{11} +$ | 18818456330647368464151132642842209210895258686552551388926332775929715896355553121. | $\left[\begin{matrix} 2 \\ 12 & 12 \\ 4 & 4 & 4 \end{matrix} \right]$ | | |
| $10x^{10} - 5x^9 + 10x^5 + 10$ | 197517539641178827760480054970082225233576777301852586833509319909738924023421082266 | | | |
| | 10323437692394271314361234754364115534723171729451634328239380383291608558798007286 | | | |
| | 25222468499853379596447017238545127021485522640836187925723300262317598412617129217 | | | |
| | 56645388695040576944286259518689161382208419211660995072446960788957953226565062906 | | | |
| | 48164754162246959797195536759769638979128310342620265336279910173781620073638073872 | | | |
| | 95334360427795510574935638362050700436632267938803361312024914747264170899444066229 | | | |
| | 28040037095811247569138630671973004405538928999976565393015509295183592958176281327 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|-----|---------|-----|
| x^{15} | — | | | |
| | 2661393443927820146623603602966840205805508686981465290048647325650. x^{13} — | | | |
| | 59938508477238605322687153791860905278928816863737896598475846289295035404098501914 | | | |
| | 30650800661309719033221897855009149530639720858693259078190137408810372132074409823 | | | |
| | 15173610497025231932430961609892881385200355737364973275487335392052511234951039804 | | | |
| | 12802937968101145350806296500057147153886256617338633585612325680209275495033563194 | | | |
| | 10034495485297829291060102202442188486334583661646248770808440769512210214817409115 | | | |
| $x^{15} + 10x^{13} + 10x^{12} - 10x^{11} -$ | $4699574186227993722432943465860358347693172$ $\left[\begin{matrix} 2 \\ 12 \\ 12 \\ 4 \end{matrix} \right]$ 131163363380827423 $\left[\begin{matrix} 2 \\ 12 \\ 4 \\ 12 \end{matrix} \right]$ | | | |
| $5x^{10} + 5x^9 + 5x^5 + 5$ | 17970713350258111021385716709907242379583446577261890241007644193954824311914196198 | | | |
| | 33128633676391294005887909340158806423532765733380902269559398799060650974779088820 | | | |
| | 411127904005087936533461743138286698699275091352176360841969093140590596022368686603 | | | |
| | 11284413467366726012841633350077839359025544019222272915774079937430428196124030698 | | | |
| | 30978230816387851318209866262979945290067518283999358910095884628208483631125899839 | | | |
| | 1064562243994725619008974585687476648300372827213828407489704003544833076800687515 | | | |
| | 54532336891436158231818774593539125571161783345343941807481996995162444521782297247 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|---------------|---------------------------|
| x^{15} | — | | | |
| | 2661393443927820146623603602966840205805508686981465290048647325650. x^{13} — | | | |
| | 37421263769348277861886183111396682726990250910455544075899588976814314841007119228 | | | |
| | 3172704404346677979698457071373650198659637804976990385196271702771610789622091646 | | | |
| | 13619344246649999483246713045396158369209362400875215296765139986509130357514662482 | | | |
| | 14203216242854391823642624018501006120857505907326479875853751007692149514111023238 | | | |
| | 10320855385625246539010999516609659310436231966456618953646914971176241013006110327 | | | |
| $x^{15} + 5x^{12} + 10x^{11} + 10x^{10} +$ | 111469258280348327653293180154818583392037 | $\left[\begin{matrix} 12 & 12 & 4 \\ 12 & 12 & 4 \end{matrix} \right]^2$ | 1637690608198 | 1560784731598085105792866 |
| $5x^9 - 5$ | 22831412392738711194799609717293996382936280862750009327738234320140471719755300774 | | | |
| | 20531202756403207165988329004371691787081231679412732477629967386270541888363677529 | | | |
| | 20315203761959570993941262361640685186009471110261405746007954588214832692456476458 | | | |
| | 332506985581003833696396442948847347463743296894339563120753339902339500909500102366 | | | |
| | 74574620628948702653502840766333941587753095746950618669371829306068297603852262360 | | | |
| | 16877569441844437368053615953661382727117307377971080372213686394988266737807693324 | | | |
| | 32185391364596614695361387221357957071252753195983261339150998713299038849472346863 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|---------|-----------------|
| $x^{15} + 10x^{14} + 5x^{13} + 10x^{12} +$ $10x^{11} - 5x^{10} + 5x^9 - 5x^5 - 5$ | $x^{15} - 5x^{14} + 25x^{13} - 25x^{12} -$ $40x^{11} + 240x^{10} - 680x^9 - 1200x^8 +$ $325x^7 - 5625x^6 - 12275x^5 - 6125x^4 -$ $13250x^3 - 34750x^2 - 29250x - 8390$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \right]_{12}^2$ | T: 15,8 | $\frac{19}{12}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|---|-----------|---------------------|
| $x^{15} - 5x^{14} - 4960x^{13} - 81875x^{12} +$ $7407695x^{11} + 275465863x^{10} +$ $75402650x^9 - 163141393655x^8 -$ $3746777930190x^7 -$ $38303986192570x^6 -$ $176028813407092x^5 -$ $59553984420270x^4 +$ $2439789535408555x^3 +$ $6660728520530035x^2 -$ $1855671107778740x -$ 16365007248973089 | | $\left[\begin{array}{c} 13 \\ 12 \\ 12 \\ 7 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2423}{1500}$ |
| $x^{15} + 10x^{13} - 5x^{12} + 10x^{11} -$ $5x^{10} - 10x^9 + 10x^5 + 5$ | | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|---------|-----|
| x^{15} | — | | | |
| | | 598387864063995788979871125295995104415240984878821868733216536769889290492701694399 | | |
| | | 936089442546929714293847808037015184220312400420400859952713583338711771569474887977 | | |
| | | 24197018026339398438076633522357668700889451678193858972210091788170282181550904729 | | |
| | | 38075424025408142885172216641542655325103610110260447994019429457080340856124860298 | | |
| | | 13083160033034543960633694203623397519555350746684697953366673181490786690981462246 | | |
| $x^{15} + 10x^{12} + 10x^{11} - 5x^{10} -$ | | 46463064931134090758755349656366787064259614899467393024160740222344168391191012394 | | |
| $5x^9 - 5x^5 + 5$ | | $\frac{13}{7}, \frac{13}{7}, \frac{13}{7}$ T: 15, 38 $\frac{2423}{1500}$ | | |
| | | 26747898700601157723217627244779375394471880191482843386121669129617339826802651368 | | |
| | | 59831181256951849702725830131040221638870328993921562928760332728391192577881567435 | | |
| | | 46681807166212132460994968397467032458536399052047326244793796185257698400549331933 | | |
| | | 17993434885720202602171430896597610803868443770707824330198455025682454723113740052 | | |
| | | 35683498007661394471019673084993851378594553014312386902985061602952985451355544549 | | |
| | | 81625189336634207502004877931001485074447646146799150916392425353374359272599801684 | | |
| | | 10568387105628362548103530409495442781594134264451516904100798109443627385143998784 | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--------------------------|--|-----------|---------------------|
| x^{15} | $-$ | | | |
| | $7425x^{13}$ | | | |
| | $+$ | | | |
| | $19465875x^{11}$ | | | |
| | $-$ | | | |
| | $4970625x^{10}$ | | | |
| | $-$ | | | |
| | $23766336000x^9$ | | | |
| | $+$ | | | |
| | $293339384250x^8$ | | | |
| | $+$ | | | |
| | $14325019768125x^7$ | | | |
| | $-$ | | | |
| | $48764065284000x^6$ | | | |
| | $-$ | | | |
| | $4045838947602375x^5$ | | | |
| | $+$ | | | |
| | $28447827240628125x^4$ | | | |
| | $+$ | | | |
| | $399340626618780000x^3$ | | | |
| | $-$ | | | |
| | $5044870703492606250x^2$ | | | |
| | $+$ | | | |
| | $14887046089976259375x$ | | | |
| | $+$ | | | |
| | 562898960900780625 | | | |
| $x^{15} - 5x^{14} - 5x^{13} + 5x^{12} + 5x^{10} + 10x^9 - 10x^5 - 5$ | | $\left[\begin{matrix} 13 & 13 & 7 \\ 12 & 12 & 4 \end{matrix} \right]_{12}^2$ | T: 15, 38 | $\frac{2423}{1500}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|---------------------|
| | $x^{15} - 5x^{14} - 4960x^{13} +$ $2445x^{12} + 8397835x^{11} +$ $15861943x^{10} - 5640293650x^9 -$ $6713029905x^8 + 1620545358950x^7 +$ $1364843364460x^6 -$ $202815834304082x^5 -$ $221818604163120x^4 +$ $9378310876316605x^3 +$ $15796859103296805x^2 -$ $67718540974407150x -$ 101363318568572859 | $\left[\begin{array}{c} 13 \\ 12 \\ 12 \\ 7 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2423}{1500}$ |
| $x^{15} + 10x^{13} + 5x^{12} - 10x^{11} +$ $5x^{10} + 10x^9 + 5x^5 + 10$ | | | | |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|-----------|---------------------|
| $x^{15} - 5x^{14} - 4960x^{13} - 82495x^{12} +$ $7094905x^{11} + 259982913x^{10} +$ $360097350x^9 - 122116193605x^8 -$ $2421988203930x^7 -$ $17112271634550x^6 +$ $5445185455208x^5 +$ $668452216249580x^4 +$ $2505843777785205x^3 -$ $2670835764134685x^2 -$ $27671483940633480x -$ 35626925632288489 | | $\left[\begin{array}{c} \frac{13}{12} \\ \frac{13}{12} \\ \frac{7}{4} \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2423}{1500}$ |
| $x^{15} - 10x^{14} - 5x^{13} + 5x^{12} -$ $10x^9 - 5x^5 + 5$ | | | | |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|-----------|---------------------|
| $x^{15} - 5x^{14} - 8415x^{13} - 5055x^{12} +$ $23086830x^{11} + 134597718x^{10} -$ $25990512570x^9 - 214712026095x^8 +$ $12771636690480x^7 +$ $102308829271795x^6 -$ $2971673187411962x^5 -$ $20685506108753565x^4 +$ $317190704296074870x^3 +$ $1893819277102433685x^2 -$ $12002968774704419910x -$ 69463731647981118669 | | $\left[\begin{array}{c} 13 \\ 12 \\ 12 \\ 7 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2423}{1500}$ |
| $x^{15} - 10x^{14} - 10x^{13} - 10x^{12} -$ $10x^{11} + 10x^{10} - 10x^9 + 5x^5 -$ 10 | | | | |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--------------------------|--|-----------|---------------------|
| x^{15} | – | | | |
| | $7425x^{13}$ | | | |
| | + | | | |
| | $19465875x^{11}$ | | | |
| | – | | | |
| | $27712575x^{10}$ | | | |
| | – | | | |
| | $23766336000x^9$ | | | |
| | + | | | |
| | $78576885750x^8$ | | | |
| | + | | | |
| | $14325019768125x^7$ | | | |
| | – | | | |
| | $76379433669000x^6$ | | | |
| | – | | | |
| | $3996591267763875x^5$ | | | |
| | + | | | |
| | $30019622227340625x^4$ | | | |
| | + | | | |
| | $367030116436005000x^3$ | | | |
| | – | | | |
| | $3869272523189081250x^2$ | | | |
| | + | | | |
| | $9672136610398453125x$ | | | |
| | – | | | |
| | 5293829970668188125 | | | |
| $x^{15} - 5x^{14} + 10x^{13} + 5x^{12} -$ | | | | |
| $10x^{11} - 10x^9 + 10x^5 - 10$ | | | | |
| | | $\left[\begin{matrix} 13 & 7 \\ 12 & 4 \end{matrix} \right]_{12}^2$ | T: 15, 38 | $\frac{2423}{1500}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|---------------------|
| | $x^{15} - 2805x^{13} + 3147210x^{11} -$ $2753762x^{10} - 1798280825x^9 +$ $5149534940x^8 + 550273932450x^7 -$ $3370370618230x^6 -$ $85750801814557x^5 +$ $900370436584300x^4 +$ $5344941914995045x^3 -$ $84184635820632050x^2 +$ $38347978936960x +$ 3366852855754813216 | | | |
| $x^{15} - 10x^{14} + 10x^{11} + 10x^{10} - 5$ | | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 23 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} - 10x^{14} - 5x^{12} - 10x^{11} -$ $10x^{10} - 10x^5 + 10$ | $x^{15} - 469x^{10} + 103247x^5 + 300763$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 23 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|-----|---------|-----|
| x^{15} | — | | | |
| $x^{15} + 5x^{14} + 5x^{13} - 5x^{12} - 5x^{11} + 10x^{10} + 10x^5 + 10$ | 18890303055307879527039289305675411182498157534762389109630 x^{13} — 275970194157500012978776214266466701806651784050277989264399471477301818587282602701 18139496672511241007542623173691476673422316467325461137639496543578477780943345945 42366286399145511240317105955747355849849279084761813427235151444286238059987163370 45927095751752592231936515805446451965815442078467319657201403377162814247035202684 7275536344003785930755907858143475875790522750328495895700034493845518003949024 19277200774023605648132227837805576535452648181470470622240465006807672918883093329 23792645715261246236854407355234399219343825741584647883138981286640841977936936023 15294786478200964568050005201209402092658901703501330123972658853145918989028270806 30553070486077624951193293801052925446065681679363213812159459037942366695349664651 95768152849347411985541734334589675363235340207335048904590498585956598042740324292 33725629080217832667291322489905833588330240854664486856620537903581230788487355715 36044676355667536701708364811864452254311047815651366567693488110355261597898107640 403521280140712782913539487214159373478378143328892665787751510149573318431653218 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|---------------------|
| $x^{15} - 5x^{13} + 5x^{12} - 5x^{11} - 10x^{10} - 10x^5 + 5$ | $x^{15} - 20x^{13} - 80x^{12} + 10x^{11} + 1328x^{10} + 3500x^9 - 5640x^8 - 5410x^7 - 41280x^6 - 47272x^5 - 88000x^4 - 68120x^3 - 78080x^2 - 15040x - 1024$ | $\left[\begin{array}{c} 23 \\ 12 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 19 | $\frac{563}{300}$ |
| $x^{15} + 5x^{14} + 10x^{13} + 10x^{12} - 10x^{11} - 5x^{10} + 5x^5 + 10$ | $x^{15} - 66x^{10} + 3267x^5 + 42592$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_{12}^2 \left[\begin{array}{c} 23 \\ 12 \\ 12 \end{array} \right]_{12}$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} + 5x^{14} - 5x^{13} + 10x^{12} + 10x^{11} - 5x^{10} - 10x^5 - 10$ | $x^{15} + 15x^{13} + 315x^{11} - 138x^{10} - 1350x^9 - 5580x^8 - 4050x^7 + 58320x^6 - 103752x^5 + 48600x^4 + 100440x^3 - 97200x^2 + 205740x + 200664$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_{12}^2 \left[\begin{array}{c} 23 \\ 12 \\ 12 \end{array} \right]_{12}$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} - 5x^{14} - 5x^{13} - 10x^{12} - 10x^{11} - 5x^{10} - 5x^5 - 5$ | $x^{15} - 2x^{10} + 3x^5 - 4$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_{12}^2 \left[\begin{array}{c} 23 \\ 12 \\ 12 \end{array} \right]_{12}$ | T: 15, 38 | $\frac{2831}{1500}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|---------------------|
| $x^{15} - 5x^{14} - 5x^{13} - 5x^{12} + 10x^{11} + 10x^{10} - 10x^5 - 5$ | $x^{15} - 30x^{13} + 360x^{11} - 20x^{10} - 2200x^9 + 400x^8 + 7200x^7 - 2800x^6 - 11840x^5 + 8000x^4 + 6400x^3 - 8000x^2 + 3200x - 320$ | $\left[\begin{array}{c} 5 & 23 & 23 \\ 4 & 12 & 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} + 10x^{14} - 10x^{13} + 10x^{12} - 10x^{11} - 10x^{10} + 10x^5 + 10$ | $x^{15} - 7x^{10} + 23x^5 + 1$ | $\left[\begin{array}{c} 23 & 23 \\ 12 & 12 \end{array} \right]_{12}^2$ | T: 15, 19 | $\frac{563}{300}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|---------|-----|
| x^{15} | — | | | |
| | 2395827525096230508433497677470727433481772625426186559963189440 | x^{13} — | | |
| | 26261658336438811809322843819197133034697276415434494312739407124808201382367123643 | | | |
| | 28590116423130985947246237369954352529306460652165063473559756847927127181093202465 | | | |
| | 23101273930657790204749479304205049823338941218390893896230737436722127122953594519 | | | |
| | 23192267928031287887104030407979378660242489956866206685494542962610340012819815603 | | | |
| | 37060467042105788607227047095588444816474837193513064717968386581477688267494770176 | | | |
| $x^{15} - 5x^{14} + 10x^{13} + 10x^{12} -$ | 1215800345101314593833855498764384951524732728007305682445661758534167285940996166 | $\left[\begin{matrix} 2 \\ 4 \\ 12 \end{matrix} \right]$ | | |
| $5x^{11} + 10x^5 - 5$ | 21921345211543255904081303333552723993976404929935935731736295854540653568133001415 | | | |
| | 29534376265590386677345207655751612603084553698721026149259930599700512108472128052 | | | |
| | 67080273546821142846494027308877715241994279048819374936261476216177512081084909476 | | | |
| | 28493562428204937155168919922210203151372644232565594373988845157489710930865724965 | | | |
| | 789564039353233458910461700358596312213747310179327807845973006340318087465787539 | | | |
| | 38952813585252599103841950801147174192032472277551458252135972517754124163427839909 | | | |
| | 57854312552216633278602445065766706560926330923011853065880037557647747085172008139 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|---------------------|
| $x^{15} + 5x^{14} - 5x^{13} + 10x^{12} - 10x^{11} - 10x^{10} - 5x^5 + 5$ | $x^{15} - 16x^{10} + 102x^5 - 8$ | $\begin{bmatrix} 5 & 23 \\ 4 & 12 \end{bmatrix}_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} + 5x^{14} - 10x^{12} - 10x^{11} + 5x^{10} - 5x^5 - 5$ | $x^{15} - 3x^{10} + 8x^5 - 16$ | $\begin{bmatrix} 5 & 23 \\ 4 & 12 \end{bmatrix}_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} - 10x^{14} - 5x^{13} + 10x^{12} + 10x^{11} - 5x^{10} + 10x^5 - 5$ | $x^{15} + 15x^{13} + 315x^{11} - 246x^{10} - 1350x^9 - 1260x^8 - 4050x^7 + 46440x^6 - 106128x^5 - 226800x^4 + 218160x^3 + 291600x^2 + 280260x - 9288$ | $\begin{bmatrix} 5 & 23 \\ 4 & 12 \end{bmatrix}_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} - 5x^{14} - 5x^{12} + 10x^{11} - 5x^{10} - 10x^5 + 5$ | $x^{15} + 15x^{13} + 315x^{11} - 18x^{10} - 1350x^9 + 7020x^8 - 4050x^7 - 22680x^6 - 99792x^5 - 194400x^4 + 213840x^3 + 874800x^2 + 772740x + 215784$ | $\begin{bmatrix} 5 & 23 \\ 4 & 12 \end{bmatrix}_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|---------------------|
| $x^{15} + 5x^{14} - 5x^{12} + 10x^{11} + 5x^{10} - 5$ | $x^{15} + 15x^{13} + 315x^{11} - 234x^{10} - 1350x^9 - 5940x^8 - 4050x^7 + 61560x^6 - 94608x^5 - 97200x^4 + 174960x^3 - 291600x^2 + 539460x - 180792$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 23 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} + 5x^{14} + 10x^{13} - 10x^{11} - 5x^5 + 10$ | $x^{15} - 42x^{10} + 18x^5 - 4$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 23 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} - 10x^{14} - 5x^{13} - 5x^{12} - 5x^{11} + 10x^{10} - 5x^5 + 10$ | $x^{15} - 10x^{13} - 100x^{12} - 75x^{11} + 996x^{10} + 5000x^9 + 1960x^8 - 54875x^7 - 217000x^6 - 396938x^5 - 477500x^4 - 378415x^3 - 204100x^2 - 67400x - 9632$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 23 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|---------------------|
| $x^{15} + 310x^{13} - 10540x^{12} -$ $10075x^{11} - 1676852x^{10} +$ $15568200x^9 + 1234808120x^8 +$ $12308339045x^7 + 140889711400x^6 -$ | | | | |
| $x^{15} - 10x^{14} + 5x^{13} - 5x^{12} -$ $5x^{11} - 5x^{10} + 5x^5 + 5$ | $1179510605882x^5 -$ $56270381795300x^4 -$ $788088327498815x^3 -$ $8231756766112540x^2 -$ $52082749803769400x -$ 149439278222302304 | $\left[\begin{array}{c} 5 & 23 & 23 \\ 4 & 12 & 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} - 10x^{14} - 10x^{13} + 5x^{11} -$ $10x^{10} - 5x^5 - 5$ | $x^{15} - 10x^{13} - 20x^{12} + 85x^{11} - 348x^{10} +$ $1400x^9 - 680x^8 - 13435x^7 + 66280x^6 -$ $102922x^5 - 121900x^4 + 658065x^3 -$ $960420x^2 + 645960x - 173216$ | $\left[\begin{array}{c} 5 & 23 & 23 \\ 4 & 12 & 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|---------------------|
| $x^{15} - 70x^{13} - 1540x^{12} - 1855x^{11} +$ $83132x^{10} + 975100x^9 + 2016840x^8 -$ $37307620x^7 - 225741040x^6 -$ $1286595352x^5 - 3398169600x^4 +$ $23362796730x^3 + 83974398760x^2 +$ $15841605920x + 146169192064$ | $x^{15} - 105x^{13} + 4410x^{11} - 1015x^{10} -$ $94325x^9 + 71050x^8 + 1080450x^7 -$ $1740725x^6 - 6173020x^5 +$ $17407250x^4 + 10169950x^3 -$ $60925375x^2 + 31753225x + 97845895$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 23 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} + 5x^{13} + 5x^{12} - 5x^{11} +$ $10x^{10} - 10x^5 - 5$ | $x^{15} - 10x^{14} + 10x^{13} + 10x^{11} +$ $5x^{10} - 5x^5 + 10$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 23 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|---------------------|
| $x^{15} + 5x^{14} - 10x^{13} + 10x^{11} +$ $5x^{10} - 10x^5 + 5$ | $x^{15} + 15x^{13} + 315x^{11} - 126x^{10} -$ $1350x^9 + 540x^8 - 4050x^7 + 19440x^6 -$ $117288x^5 - 145800x^4 + 320760x^3 +$ $291600x^2 + 102060x + 5832$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 23 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} - 5x^{14} + 5x^{13} + 10x^{12} -$ $10x^{11} + 10x^{10} - 5x^5 - 10$ | $x^{15} - 77x^{10} + 1573x^5 + 1331$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 23 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS | |
|---|--|---|-----------|-------------------|--|
| $x^{15} + 5x^{14} + 10x^{12} - 5x^{11} + 5$ | $x^{15} - 6200x^{12} - 256680x^{11} -$ | | | | |
| | $3930800x^{10} + 43245000x^9 +$ | | | | |
| | $2204534000x^8 + 39355376525x^7 +$ | | | | |
| | $472655549200x^6 +$ | | | | |
| | $6298415641720x^5 +$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 19 | $\frac{563}{300}$ | |
| | $48936335105000x^4 +$ | | | | |
| | $562264735851750x^3 +$ | | | | |
| | $4869796063104000x^2 +$ | | | | |
| | $12645600706106800x -$ | | | | |
| | 62836442016229120 | | | | |
| | Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|-----------|---------------------|
| $x^{15} - 2805x^{13} + 3147210x^{11} - 69938x^{10} - 1798280825x^9 + 130784060x^8 + 550273932450x^7 - 85598167270x^6 - 83246663331997x^5 + 22866938970700x^4 + 3003572433801445x^3 - 2138058793760450x^2 + 437874440962140160x - 975638988768768544$ | | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{23}{12} \frac{23}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} + 10x^{14} + 5x^{13} - 10x^{12} + 10x^{11} - 5x^{10} + 10x^5 - 5$ | | | | |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|---------------------|
| $x^{15} - 310x^{13} - 5580x^{12} + 452445x^{11} + 11668772x^{10} + 73036000x^9 - 856135680x^8 - 23937587440x^7 - 250962497640x^6 - 2110541426872x^5 - 19479798662000x^4 - 58637256189510x^3 - 559473951614680x^2 - 575399558854480x - 4986245619674816$ | | | | |
| $x^{15} + 5x^{14} - 10x^{12} - 5x^{11} + 5x^{10} - 10x^5 - 10$ | | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{23}{12} \frac{23}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} + 10x^{14} + 5x^{13} - 5x^{12} + 5x^{11} + 10x^{10} + 10x^5 - 5$ | $x^{15} - 20x^{13} - 80x^{12} + 460x^{11} + 376x^{10} - 2500x^9 + 2520x^8 - 21195x^7 + 38840x^6 + 59792x^5 - 185000x^4 + 136070x^3 + 23280x^2 - 70560x + 27648$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \frac{23}{12} \frac{23}{12} \right]_{12}^2$ | T: 15, 19 | $\frac{563}{300}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|---------------------|
| $x^{15} - 5x^{12} - 10x^{11} - 5x^{10} - 10$ | $x^{15} - 22x^{10} + 1573x^5 + 1331$ | $\begin{bmatrix} 5 & 23 \\ 4 & 12 \end{bmatrix}_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| | $x^{15} + 930x^{13} - 5580x^{12} +$ $458335x^{11} - 2843692x^{10} +$ $107151500x^9 - 2139993240x^8 +$ $11433608015x^7 + 378145542920x^6 -$ $8289508872062x^5 +$ $72552331102500x^4 -$ $1009572474649295x^3 +$ $8711624935405220x^2 -$ $14904679543729040x +$ 14575659188997056 | $\begin{bmatrix} 5 & 23 \\ 4 & 12 \end{bmatrix}_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} - 5x^{14} - 5x^{11} - 5x^{10} +$ $5x^5 - 10$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|---------------------|
| $x^{15} - 2805x^{13} + 3147210x^{11} - 1748450x^{10} - 1798280825x^9 + 3269601500x^8 + 550273932450x^7 - 2139954181750x^6 - 84772756371325x^5 + 571673474267500x^4 + 4430469425573125x^3 - 53451469844011250x^2 + 171044703500836000x + 2510936247392272480$ | | | | |
| $x^{15} - 10x^{14} - 5x^{13} + 10x^{12} + 10x^{11} + 5x^{10} + 10x^5 + 5$ | | $\left[\begin{array}{c} 5 & 23 \\ 4 & 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} - 10x^{14} - 10x^{12} + 10x^{11} + 5x^{10} - 5x^5 + 10$ | $x^{15} - 30x^{13} + 360x^{11} - 22x^{10} - 2200x^9 + 440x^8 + 7200x^7 - 3080x^6 - 11952x^5 + 8800x^4 + 7520x^3 - 8800x^2 + 960x + 936$ | $\left[\begin{array}{c} 5 & 23 \\ 4 & 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|---------------------|
| | $x^{15} - 2380x^{13} - 114240x^{12} +$ $6932940x^{11} - 20265224x^{10} -$ $2536235100x^9 + 143369929080x^8 -$ $5257591784235x^7 +$ $16816402180760x^6 +$ | | | |
| $x^{15} - 10x^{14} + 5x^{11} - 10x^{10} - 10$ | $2287656229190192x^5 -$ $32136106494734200x^4 -$ $23600279425415770x^3 +$ $2757141742225969840x^2 -$ $31049505049277251040x +$ 225744056209120304128 | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{23}{12} \frac{23}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|---|---|
| x^{15} | — | | | |
| | 797766318903484911297946739208927055818336008491966691636635305430944082142941821505 | | | |
| | 70438716586768616356962657308164437343487999610880841633766132580432007723495436419 | | | |
| | 19207406944956063147091631931622185670589599725529936433211930323198395214478664510 | | | |
| | 373156746939672381451281843954259198022080081529820800077603167005994175871139570277 | | | |
| | 84482068732521666535736321481780081687373447377149479195137660824166154854201555443 | | | |
| | 395288382825512111961784694098330187753602187721827806932869101504915457582581113900 | | | |
| $x^{15} - 5x^{13} + 10x^{12} + 5x^{11} -$ | $56193697259984681988231803983634902430407943186492063883319236365644059610091764898$ | $\left[\begin{smallmatrix} 2 \\ 4 \\ 12 \end{smallmatrix} \right]$ | $\left[\begin{smallmatrix} 2 \\ 4 \\ 12 \end{smallmatrix} \right]$ | $\left[\begin{smallmatrix} 2 \\ 4 \\ 12 \end{smallmatrix} \right]$ |
| $10x^{10} + 10$ | 39134656812742470310319444796688157192500044757267755150418676138131074260674791379 | | | |
| | 16823296879115417211779500582949054761902575649992143900992286649548587648106204083 | | | |
| | 47248828864683871730031239852970413713443474354990664970165253236905744625346810178 | | | |
| | 87411285591693483532589371271757631094124546097309432106273488964256303286002234921 | | | |
| | 10453167362531657812227218014115586770402617837126702254079538742020295762945042179 | | | |
| | 76066884592167611713261844031983965612032125985750448687859289804132817681196817440 | | | |
| | 26779823823025842646226862439720171914660012809568858503064218583784550302673640749 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|---------------------|
| $x^{15} + 310x^{13} - 3100x^{12} -$ $166315x^{11} - 2953556x^{10} -$ $42860600x^9 + 471620360x^8 +$ $19042719525x^7 + 390047566360x^6 +$ $4949697560502x^5 +$ $35072220378700x^4 +$ $230325685023665x^3 +$ $962574543242500x^2 +$ $2545663044197240x +$ 4378949910072992 | | $\left[\begin{array}{c} 23 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 19 | $\frac{563}{300}$ |
| $x^{15} - 5x^{14} - 10x^{12} - 5x^{11} -$ $5x^{10} - 5x^5 - 5$ | $x^{15} + 15x^{13} + 315x^{11} - 162x^{10} -$ $1350x^9 - 3420x^8 - 4050x^7 + 49680x^6 -$ $110952x^5 - 48600x^4 + 208440x^3 +$ $97200x^2 + 205740x + 90936$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \right]_{12}^2 \left[\begin{array}{c} 23 \\ 12 \end{array} \right]_{12}$ | T: 15, 38 | $\frac{2831}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|---------------------|
| $x^{15} - 5x^{14} - 10x^{11} - 10x^{10} - 10x^5 + 5$ | $x^{15} - 143x^{10} - 242x^5 - 1331$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 23 \\ 12 \end{array} \begin{array}{c} 23 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| | $x^{15} - 2805x^{13} + 3147210x^{11} - 1635502x^{10} - 1798280825x^9 + 3058388740x^8 + 550273932450x^7 - 2001715430330x^6 - 832966632634237x^5 + 534743979245300x^4 + 3050293731395845x^3 + 49998562059435550x^2 + 429137558311987360x + 647908424816809376$ | | | |
| $x^{15} - 5x^{14} - 10x^{13} + 5x^{12} + 10x^{11} + 10x^5 + 10$ | | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 23 \\ 12 \end{array} \begin{array}{c} 23 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|---------------------|
| $x^{15} + 5x^{14} + 10x^{13} + 5x^{12} - 5x^{11} + 5x^{10} - 10x^5 + 5$ | $x^{15} - 10x^{13} - 20x^{12} + 325x^{11} - 764x^{10} + 1800x^9 - 1640x^8 - 8155x^7 + 30600x^6 + 5382x^5 - 1900x^4 + 28385x^3 - 626980x^2 + 11400x - 275872$ | $\left[\begin{array}{c} 5 & 23 \\ 4 & 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} - 10x^{14} + 10x^{13} + 5x^{11} - 10x^{10} - 10x^5 + 10$ | $x^{15} - 430x^{13} - 900x^{12} + 61955x^{11} + 254860x^{10} - 3010100x^9 - 19164200x^8 + 22264200x^7 + 92863600x^6 - 3649129040x^5 + 4049654000x^4 + 165211804550x^3 - 68996532600x^2 - 1434232533600x + 2400724379520$ | $\left[\begin{array}{c} 23 & 23 \\ 12 & 12 \end{array} \right]_{12}^2$ | T: 15, 19 | $\frac{563}{300}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|-----|---------|-----|
| x^{15} | — | | | |
| $x^{15} - 5x^{14} + 5x^{13} - 10x^{12} -$ $5x^{11} - 5x^{10} + 10x^5 + 5$ | 2395827525096230508433497677470727433481772625426186559963189440 $x^{13} -$ 571598248362768935007867762288279067568062686733208931047585313025659954508539019499 23483695844958740083710788686179752440627080633949024926559313853570866324450551570 18192047592739648447070030800168018092833577132864454202109165307596805131032606932 174495815989671571256653572051818005500102983106543692910682664819711082008223884433 243020660660215435926634930027700520558302214446852305636633378581824089325188781166 11385296261489680481755422013915276068432856167685819820923374168846989101765497900 15661241604756638951408683697357555868137746467929000081442092506911072306097791198 320843954151188117872179251558640839608543080985309983275575471112079937056764575000 54214597473497280613536226152816851240893163725263052679415923719241037552880449589 37728802189450043884317363610226514576366346930334229683367493563340481597380621383 65376730915931187598181278921406649354038613191499257645658591456761931794193877331 36376856967071843588740671212507134405318472332163737577740939419459381957369478313 575326293755919275913549703069847571246910698490610014284131735438973178240422520999 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--------------------------------------|---|-----------|---------------------|
| $x^{15} + 5x^{13} + 10x^{12} - 10x^{11} -$ $5x^{10} - 10x^5 + 5$ | $x^{15} - 143x^{10} - 847x^5 - 1331$ | $\left[\begin{array}{c} 5 & 23 \\ 4 & 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|---------------------|
| $x^{15} - 10x^{14} + 10x^{13} + 5x^{12} -$ $5x^{11} - 5x^{10} - 10x^5 - 10$ | $x^{15} - 10x^{13} - 20x^{12} - 175x^{11} -$ $28x^{10} + 3300x^9 + 4320x^8 - 26260x^7 -$ $10800x^6 + 23928x^5 + 133200x^4 -$ $127110x^3 - 81720x^2 + 51200x + 16384$ | $\left[\begin{array}{cc} 23 & 23 \\ 12 & 12 \end{array} \right]_{12}^2$ | T: 15, 19 | $\frac{563}{300}$ |
| $x^{15} + 5x^{14} - 5x^{13} - 5x^{12} +$ $5x^{11} + 10x^{10} + 5x^5 - 5$ | $x^{15} - 30x^{13} - 60x^{12} + 315x^{11} +$ $1764x^{10} - 1600x^9 - 12080x^8 +$ $3765x^7 + 39040x^6 + 23802x^5 +$ $127700x^4 + 5055x^3 - 374940x^2 -$ $5840x + 268352$ | $\left[\begin{array}{cc} 5 & 23 \\ 4 & 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|---------------------|
| $x^{15} - 10x^{14} + 10x^{13} - 5x^{12} + 5x^{11} - 5x^{10} + 5x^5 + 10$ | $x^{15} - 2380x^{13} - 114240x^{12} +$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{23}{12} \frac{23}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| | $6990060x^{11} + 144821096x^{10} -$ | | | |
| | $8857705500x^9 - 24471907320x^8 +$ | | | |
| | $2889050254965x^7 +$ | | | |
| | $56230431393640x^6 -$ | | | |
| | $1020387203138128x^5 -$ | | | |
| | $54333103752557000x^4 +$ | | | |
| | $1355453864484062630x^3 -$ | | | |
| | $8027004503847073360x^2 +$ | | | |
| | $18300096457069131040x -$ | | | |
| | 6734843564628562432 | | | |
| | $x^{15} - 10x^{14} + 10x^{13} - 10x^{12} + 10x^{11} - 10x^{10} + 10x^5 + 10$ | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|---------------------|
| $x^{15} - 5x^{14} + 10x^{13} + 5x^{12} + 10x^{11} - 10x^{10} + 10x^5 + 5$ | $x^{15} - 105x^{13} + 4410x^{11} - 1127x^{10} - 94325x^9 + 78890x^8 + 1080450x^7 - 1932805x^6 - 6103342x^5 + 19328050x^4 + 7731220x^3 - 67648175x^2 + 48824335x + 74001221$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{23}{12} \frac{23}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} + 5x^{14} - 5x^{13} - 10x^{12} + 5x^{11} + 5x^5 + 10$ | $x^{15} - 430x^{13} - 3100x^{12} + 75555x^{11} + 1083140x^{10} - 4002100x^9 - 149624600x^8 - 437056600x^7 + 9865688000x^6 + 67695223280x^5 - 249569778000x^4 - 3549955766650x^3 - 1688521782600x^2 + 61200898293600x + 128332134967680$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \frac{23}{12} \right]_{12}^2$ | T: 15, 19 | $\frac{563}{300}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS | | | | |
|--|---------------------------------------|---|-----------|---------------------|--|--|--|--|
| $x^{15} - 5x^{14} - 5x^{13} + 5x^{12} + 5x^{11} + 10x^5 + 5$ | $x^{15} - 2380x^{13} - 57120x^{12} +$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{23}{12} \frac{23}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ | | | | |
| | $6019020x^{11} + 111567736x^{10} -$ | | | | | | | |
| | $6614603100x^9 - 81518079720x^8 -$ | | | | | | | |
| | $299614968555x^7 +$ | | | | | | | |
| | $96172464253880x^6 +$ | | | | | | | |
| | $946678634870192x^5 -$ | | | | | | | |
| | $43641199276070200x^4 +$ | | | | | | | |
| | $598209163440115430x^3 -$ | | | | | | | |
| | $9739918148881072880x^2 +$ | | | | | | | |
| | $90396463220079630880x -$ | | | | | | | |
| | 259331048233510303232 | | | | | | | |
| | Continued on next page | | | | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS | | | | |
|--|--|---|-----------|---------------------|---|-----------|---------------------|---|
| $x^{15} - 10x^{14} - 10x^{13} - 5x^{12} - 5x^{11} + 5x^{10} + 10x^5 - 5$ | $x^{15} - 310x^{13} - 6820x^{12} + 64325x^{11} + 1982636x^{10} + 36325800x^9 - 182244040x^8 - 2554102555x^7 - 86684698600x^6 - 512538623318x^5 - 2181025921900x^4 + 155538070246785x^3 + 2281837433148420x^2 + 21104578501435000x + 87581447259034528$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{23}{12} \frac{23}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ | | | | |
| | $x^{15} - 4x^{10} - 3x^5 - 2$ | | | | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{23}{12} \frac{23}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ | |
| | $x^{15} - 284x^{10} + 161312x^5 - 11453152$ | | | | | | | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{23}{12} \frac{23}{12} \right]_{12}^2$ |
| | Continued on next page | | | | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|---------------------|
| $x^{15} + 10x^{14} + 10x^{13} - 10x^{12} - 5x^{11} - 10x^{10} - 10x^5 + 10$ | $x^{15} + 30x^{13} - 100x^{12} + 195x^{11} - 2164x^{10} + 2900x^9 - 9280x^8 + 41100x^7 - 37120x^6 + 163072x^5 - 295200x^4 + 215720x^3 - 760800x^2 + 182080x - 288512$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 23 \\ 12 \end{array} \begin{array}{c} 23 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} + 10x^{14} - 10x^{12} + 10x^{11} + 10x^{10} + 5x^5 + 5$ | $x^{15} + 5x^{13} + 35x^{11} - 10x^{10} - 50x^9 - 100x^8 - 50x^7 + 400x^6 - 440x^5 + 200x^3 + 100x + 40$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \begin{array}{c} 23 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 19 | $\frac{563}{300}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--------------------------------|---|--|---------|-----|
| x^{15} | — | | | |
| | 67039186462477723638482919261254374438515630965711505577004458345331161464656992861 | | | |
| | 6362613228841400323448029654567078853750788537507462688814262269145413907326211718630157233 | | | |
| | 12710546720244994543943091423237825132255230063613228696616167212217335738572145731 | | | |
| | 28147484678314991130624151686120996212857391151001436713309165611347280642975687431 | | | |
| | 12481278772741088920152778905813764225793647607807415200403786593892709220869435645 | | | |
| | 20852902042370041883408897457439698190212381612995215742178586595131977053912959060 | | | |
| $x^{15} + 5x^{11} - 10x^5 + 5$ | 385481089313030466164848675741929189296228671237405092613561244966276917218402096 | $\left[\begin{smallmatrix} 2 \\ 12 \end{smallmatrix} \right]^2$ | | |
| | 32060643712138045558582564781942119412165635200670675619564685865817121176906682233 | $\left[\begin{smallmatrix} 12 \\ 12 \end{smallmatrix} \right]_{12}$ | | |
| | 16755946017355673389796412341763210508371293102361879512486935297136170978100526072 | | | |
| | 59162063602909432107059647713784211386307403337401228213218971224304040275040943453 | | | |
| | 14211391470363253350287186280613686074548636898545346181737981292744303746126681980 | | | |
| | 22399702746653934040658546309894106214025684757703588974185074974212609145387002206 | | | |
| | 20988227737938967261110410313406589756720163247067697682376845341553875183847092765 | | | |
| | 888978584788718893007036934407287121516331404670916676713183346517114297897354444963 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|---------------------|
| | $x^{15} - 2380x^{13} - 57120x^{12} +$ $4591020x^{11} - 35392504x^{10} -$ $1516643100x^9 + 128874729480x^8 -$ $6180723583755x^7 +$ $488507485480x^6 +$ | | | |
| $x^{15} + 5x^{14} + 5x^{11} - 5x^{10} - 10$ | $1973181456635312x^5 -$ $12042449205588200x^4 -$ $255930435627234970x^3 +$ $599636882570211920x^2 +$ $24257028383246555680x +$ 128791881480937622528 | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{23}{12} \frac{23}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|---------------------|
| $x^{15} + 5x^{14} - 10x^{13} + 5x^{12} + 10x^{11} - 10x^{10} + 10x^5 + 5$ | $x^{15} - 105x^{13} + 4410x^{11} - 833x^{10} - 94325x^9 + 58310x^8 + 1080450x^7 - 1428595x^6 - 6175372x^5 + 14285950x^4 + 10252270x^3 - 50000825x^2 + 31176985x + 103648769$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{23}{12} \frac{23}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} + 5x^{14} + 5x^{13} - 5x^{12} - 5x^{11} - 10$ | $x^{15} - 70x^{13} - 1260x^{12} - 9695x^{11} + 84756x^{10} + 1406300x^9 + 7324520x^8 - 21063140x^7 - 597933280x^6 - 4482237368x^5 - 17509738400x^4 - 32469206630x^3 + 5925023160x^2 + 124898593120x + 139709859968$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{23}{12} \frac{23}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|---|-----------|---------------------|
| $x^{15} - 51170x^{13} - 5590620x^{12} + 940281475x^{11} + 199439645076x^{10} + 2397022557300x^9 - 2115666763452480x^8 - 165273453007429480x^7 + 2263256148025566400x^6 + 497717525221173480272x^5 - 18999591276829545796400x^4 - 3333741284103396616374330x^3 - 87224815064113721568901880x^2 + 2718972442223245867080934400x + 111444671672863838064962329088$ | | $\left[\begin{array}{c} 5 & 23 & 23 \\ 4 & 12 & 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|---------|-----|
| x^{15} | — | | | |
| | 2395827525096230508433497677470727433481772625426186559963189440 | x^{13} — | | |
| | 193688362533266839485870189998163388988084722998077627703339066739378685374094141433 | | | |
| | 33005339957067556882687686266454090987735087183473761578473712046945452199721425772 | | | |
| | 410200776782156743968206837272109411357777139542439497410173883734936812876895197649 | | | |
| | 27944186442301902137091660635053430979896596799137558541418348906835253711351374406 | | | |
| | 42418566385361243688292153080986218485284228896167962895137826816755306604012490710 | | | |
| $x^{15} - 10x^{14} - 10x^{13} + 10x^{12} -$ | 136582937243555916910514964679465857312710942858637151380503884591885675145549337038 | $\left[\begin{matrix} 2 \\ 4 \\ 12 \end{matrix} \right]$ | | |
| $5x^{11} + 10x^{10} - 5x^5 + 10$ | 23275310962992447071791155955949275606799947213720876788159784112317962276038778942 | $\left[\begin{matrix} 4 \\ 12 \\ 12 \end{matrix} \right]$ | | |
| | 327174772232272284155586654195475413032438611990762761138222379241181062793404845566 | | | |
| | 69370736856628669046179865693550679627993145522416595203812508155532973102237552824 | | | |
| | 29791425976965217161867298612163495543666679351517768312184980732772459637568732796 | | | |
| | 82032972816219283296467041958642928885976284875814348092710866336670544300820305549 | | | |
| | 39329878050757352566795192351741398931068647192128807527150122526569937032559269810 | | | |
| | 58566954928771757845139918867528493669315681339845001947604130560645311320192602779 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|-------------------------------|---|-----------|---------------------|
| $x^{15} + 5x^{14} + 10x^{13} - 10x^{11} - 10x^{10} - 10x^5 - 10$ | $x^{15} - x^{10} + 2x^5 + 2$ | $\left[\begin{array}{c} 5 & 23 \\ 4 & 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} + 5x^{14} + 10x^{13} + 10x^{12} - 10x^{11} - 5x^{10} + 5$ | $x^{15} - 2x^{10} - 2x^5 - 4$ | $\left[\begin{array}{c} 5 & 23 \\ 4 & 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|---|-----------|---------------------|
| $x^{15} - 51170x^{13} - 1306620x^{12} +$ $1008140035x^{11} + 58298855412x^{10} -$ $7103093875500x^9$ $971340179051760x^8$ $54237439878352360x^7$ $8108157455588575280x^6$ $1275557449752859764848x^5$ $32939278726152227170000x^4$ $8884763130856600337556570x^3$ $133829248310085415028393480x^2$ $19028209878634028920841658560x -$ $347407750074210332080445908736$ | + | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{23}{12} \frac{23}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} - 10x^{14} - 10x^{12} + 5x^{11} +$ $5x^{10} - 5$ | | | | |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|---------------------|
| | $x^{15} - 51170x^{13} - 4048380x^{12} +$ $1155795235x^{11} + 159435344628x^{10} -$ $8483281579500x^9 -$ $2562575650963440x^8 -$ $59665910923031560x^7 +$ | | | |
| $x^{15} + 5x^{12} + 5x^{11} - 10x^5 + 5$ | $18043776562932846320x^6 +$ $1217097920895275122928x^5 -$ $44752568636023030174000x^4 -$ $7471448473884539542783770x^3 -$ $111737571968523268796246680x^2 +$ $16739570497442917532648192960x +$ $556140271752540103954604075776$ | $\left[\begin{array}{c} 5 & 23 & 23 \\ 4 & 12 & 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} - 5x^{14} + 5x^{13} + 5x^{12} -$ $10x^{11} - 10x^{10} - 10x^5 + 5$ | $x^{15} - 268x^{10} + 143648x^5 - 9624416$ | $\left[\begin{array}{c} 5 & 23 & 23 \\ 4 & 12 & 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|-----|---------|-----|
| x^{15} | — | | | |
| | 132232121387155156689275025139727878277487102743336723767410 x^{13} — | | | |
| | 137797902349109976667937358755812596409935071490090088309526603652116728036470254199 | | | |
| | 63529836873042055315226184687664583134766088791296418878760304355332700050430801896 | | | |
| | 53002233897119920284085491249074094311534609834286773076931892039004700005973605232 | | | |
| | 34578300732040414684828650647958910512975437245965657355274101844216402133598165123 | | | |
| | 19151918707806297873029141150479723518088110124269609731101515712536707109921498914 | | | |
| $x^{15} + 10x^{14} - 10x^{13} - 10x^{12} -$ | $2065433452029257938547237375453849695791633$ $\left[\begin{matrix} 2 \\ 4 \\ 12 \end{matrix} \right]$ | | | |
| $5x^{11} - 10x^{10} + 5x^5 + 5$ | $75786749222017361821341219895103373889646843310371945886991685750086102363400565158$ | | | |
| | 22906260439867799386899943267255317127633292817846689345629336934000936922343647107 | | | |
| | 87023072289928522802634130721879206424062899698398561603727093224157053108222316405 | | | |
| | 51189532690962618866989358878577006038922966991511699307885936454268956967993602885 | | | |
| | 87124636130777730900648376005809856461540124502500089182351282427971119797694321910 | | | |
| | 13716789271147510319925524563711707324454790867237092807891535782622623787256698662 | | | |
| | 17173198464228200148020028253227191004216138316772705384806311171541344142754072384 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|---------------------|
| $x^{15} - 10x^{14} - 5x^{13} - 10x^{12} -$ $5x^{11} + 5x^{10} - 10x^5 + 10$ | $x^{15} - 160x^{12} + 250x^{11} - 208x^{10} +$ $8200x^9 - 24000x^8 + 38945x^7 -$ $169200x^6 + 462408x^5 - 579200x^4 +$ $199000x^3 + 207040x^2 + 81600x -$ 329216 | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{23}{12} \frac{23}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|-----|---------|-----|
| x^{15} | — | | | |
| $x^{15} + 5x^{13} - 5x^{12} - 5x^{11} +$ $5x^{10} - 5x^5 + 5$ | 132232121387155156689275025139727878277487102743336723767410 x^{13} — 28114347697354828951253663039675885432937162671159067276040155582901475812551130882 10159776283796026423157379334976653160228214869507750552476242931376935233367497690 31775980846734742956747599524125241055102930997420858242569793494259437657820813757 49122993243389282844498596474841815121937174648322300241823520781687841752273496206 28944773567821140126011537907849007324392243979604798150305266539433288786388287036 56323160625407461574200426339619194903540386250190514682224368 86156833858620767745628253631562706159801756884036697865550733269680317395663212330 22395292900422046193569423663240568447155043075805091457905363873070152762600501705 17727419681756111637171886915273451683372313473742626786985536909587765906011798001 44415602147380931435145235345442746849409825661780798696401217359013059330868276628 19218176110649303558918715845801740966634091774958588564459555026310461293014931734 4163619102971071597460756059238388349601743317141917015783337958684362397507674139 17300107948930436137099683435895671661670941231525600762490392147411401422678417689 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|---------------------|
| $x^{15} - 5x^{14} - 10x^{13} + 10x^{11} - 10x^5 + 10$ | $x^{15} - 30x^{13} + 360x^{11} - 8x^{10} - 2200x^9 + 160x^8 + 7200x^7 - 1120x^6 - 11952x^5 + 3200x^4 + 7520x^3 - 3200x^2 + 960x - 576$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{23}{12} \frac{23}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} - 10x^{14} + 5x^{13} + 5x^{12} + 10x^{11} + 5x^5 - 10$ | $x^{15} - 30x^{13} + 360x^{11} - 8x^{10} - 2200x^9 + 160x^8 + 7200x^7 - 1120x^6 - 12092x^5 + 3200x^4 + 8920x^3 - 3200x^2 - 1840x + 1384$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{23}{12} \frac{23}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} - 5x^{14} + 5x^{13} + 10x^{11} - 10x^{10} - 5x^5 + 5$ | $x^{15} + 15x^{13} + 315x^{11} - 174x^{10} - 1350x^9 + 3060x^8 - 4050x^7 + 18360x^6 - 109008x^5 - 259200x^4 + 239760x^3 + 680400x^2 + 409860x + 67608$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{23}{12} \frac{23}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|--|--|
| x^{15} | — | | | |
| | 79776631890348491129794673920892705581833600849196691636635305430944082142941821505 | | | |
| | 66916912089486894959447972174634346810059830847619947963455739626358790411336886088 | | | |
| | 19533929828622829334085999084708455587827964565174379478512311325839324807086934085 | | | |
| | 35518476264975673602143021480177493912408516851559005776654871177204158816156229034 | | | |
| | 5061392459471146148058776432758338422099739709020036140971767556200761921810527358 | | | |
| | 39443888024765116534716711903311859254774194999866548501316070715272675690904221908 | | | |
| $x^{15} - 10x^{14} - 10x^{13} + 10x^{12} +$ | $5032261263240381973457530427417741125642683893933869816327218570651799747973032619237$ | $\left[\begin{matrix} 2 \\ 4 \\ 12 \end{matrix} \right]$ | $15, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15$ | $15, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15$ |
| $5x^{11} - 10x^{10} - 5x^5 - 10$ | 31466374707152564258800355021308565126049507366697203379613066488074527253025610663 | | | |
| | 11713936522813591131483962800106160690710225175279175591735834267918569479761607214 | | | |
| | 26694137145763661551451828407178012494005143269023001105534720747510285792497382629 | | | |
| | 35935764096435757891299311263613172926979937291188852396282151785896430450376813479 | | | |
| | 26381181084692370124978951919289376551483515189130380188875991161254547416586268741 | | | |
| | 98097792625398138447067650542006507314382974314816908672349510059178275348672398032 | | | |
| | 14683069082517049752537406741046429613642499077663695058060853979315218582361107763 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{15} + 5x^{14} - 10x^{12} + 10x^{11} -$ $10x^{10} - 5x^5 + 5$ | $x^{15} - 15x^{13} + 90x^{11} - 8x^{10} - 275x^9 +$ $80x^8 + 450x^7 - 280x^6 - 367x^5 +$ $400x^4 + 85x^3 - 200x^2 + 40x + 44$ | $\left[\begin{array}{cc} 23 & 23 \\ 12 & 12 \end{array} \right]_{12}^2$ | T: 15, 19 | $\frac{563}{300}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|---------|--------|
| x^{15} | — | | | |
| | 797766318903484911297946739208927055818336008491966691636635305430944082142941821505 | | | |
| | 69460168404929291241872034667303949577813062676756190402504765653770625311514258138 | | | |
| | 193340338930038771491926650240470699558865958382992029170897493645553010248879812766 | | | |
| | 36821425957042915713635932562994834146914726552757633669383470435706117613923325109 | | | |
| | 72785228390785017173993382246967758807687048697330261591567227706712428499992064055 | | | |
| | 3977170532313274163969899717134049500531440267338440619274753812967374125742194154 | | | |
| $x^{15} - 5x^{14} + 5x^{13} - 5x^{12} +$ | $543284512735959012557830396803562884372723942199227253360684442029255047230254200$ | $\left[\begin{matrix} 2 \\ 4 \\ 12 \end{matrix} \right]$ | 1360 | 1360 |
| $5x^{11} + 5x^{10} + 5x^5 + 5$ | 362640612315720407137076570559065563971153628621521072260079249965709196282180698677 | | | |
| | 14686377747797961214045548467931821940031765876042649103942407020559424692987782353 | | | |
| | 377222011728829429521963471995426662598049616781834817160565954853597995681084018900 | | | |
| | 607732233796013457361305098659805912529829878052428837358019910633059772511397568699 | | | |
| | 584572953447151854576344521084375961130062776153891334468454332543487329832904078366 | | | |
| | 30414476750908965894423931844435481987290474747567215232714741739349297150061109862 | | | |
| | 65593384389611268699842345843755774502926414597950222751829607506784476453493845898 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|---------------------|
| $x^{15} - 10x^{14} - 10x^{11} - 5x^{10} - 10x^5 + 10$ | $x^{15} - 2x^{10} + 8x^5 + 16$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 23 \\ 12 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} + 10x^{14} + 5x^{12} + 5x^{11} - 10x^{10} + 10x^5 - 5$ | $x^{15} + 30x^{13} - 140x^{12} + 155x^{11} - 940x^{10} + 6800x^9 - 22400x^8 + 43125x^7 - 56400x^6 + 47270x^5 - 25500x^4 + 2175x^3 + 2100x^2 - 800x - 640$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 23 \\ 12 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} - 5x^{14} - 10x^{13} - 5x^{12} - 10x^{11} + 10x^{10} - 10x^5 - 5$ | $x^{15} - 1541x^{10} - 31423x^5 - 300763$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 23 \\ 12 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------------------------------|--------|
| x^{15} | — | | | |
| | 132232121387155156689275025139727878277487102743336723767410 x^{13} — | | | |
| | 259253610743265064074448708570839375527161591782020079234098839310793241808483676300 | | | |
| | 1491393628762342833208537933146367057499022255963090450849089853227806729613639680 | | | |
| | 12692108842774354083234836618142947356818321465824682956792860782286089745258805503 | | | |
| | 6630799898537228304020912157164740761334840194973968866347932990704557211146465378 | | | |
| | 12488453190234913582021914075009460911780908459539793180817777080782598965666904835 | | | |
| $x^{15} + 10x^{14} + 10x^{13} - 5x^{11} +$ | $55338228501069478105796529800979569851273483705295841069418430303634133138378171$ | $\left[\begin{matrix} 2 \\ 4 \\ 12 \end{matrix} \right]$ | $3541069418430303634133138378171$ | 1560 |
| $10x^{10} + 10x^5 - 5$ | $532169961098341608113159768760075025156133483973507399124703183808827022523541874277$ | $\left[\begin{matrix} 4 \\ 12 \\ 12 \end{matrix} \right]$ | $3541069418430303634133138378171$ | 1560 |
| | 15642029297043805414266409600500476409023916417738646995696772924969442990863132592 | | | |
| | 16154488186455503636326735793767517454411422690753970945628605125704361319411383611 | | | |
| | 45441308959420647895821446013738559142651319153339168395760829898874986083752557469 | | | |
| | 29494386086870769536832401781830182392218778326201277319499776386084902282814578589 | | | |
| | 91650164948273502111580063206909667605667579874827382421611503309158816991212907505 | | | |
| | 173927508294437504096332595833441902062537335388193564548421316864155402429017378 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|-----|---------|-----|
| x^{15} | — | | | |
| $x^{15} + 5x^{14} - 5x^{12} - 5x^{11} - 10x^5 - 10$ | 2395827525096230508433497677470727433481772625426186559963189440 x^{13} — 25403612716223657493546460013024280530540627345584263484852096796706862539866559430 289593791462906295542205547853074526093380687657935366900145615835301703516731162200 432918170764502661005601940957116861075289188944786669704573101889383329747489455243 23538755507872480659435946547341498325503886527129625334727309834964806126678115372 36920187430148721361948714364081942028288259818357454591696070565791793440831430439 128271601591886217369337245811383448103447981933720953814667584776188676957665690545 20914555273171561493196285781986388372617604062451558072868757155438785762060909809 335369681916792805918013029032824837486684804386181570950864431316648343611022508766 670999430778622869031266420640464066765450938053769132875066212093359440745981864400 32750724207466479101822750501221087952128769592185522635062638068609751263702042138 84737095967832059284989473236733724987965448714843633972773042095224826569667529418 40287324712600003067472058581473461259405733589363933256440923763700942104993188322 58288396331254756334612005416842949871957292911631996594831158974073389811798596936 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|---------------------|
| $x^{15} + 10x^{14} + 5x^{13} + 10x^{11} + 10x^{10} + 10$ | $x^{15} - 15x^{13} + 90x^{11} - 2x^{10} - 275x^9 + 20x^8 + 450x^7 - 70x^6 - 367x^5 + 100x^4 + 85x^3 - 50x^2 + 40x + 16$ | $\left[\begin{array}{c} 23 \\ 12 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 19 | $\frac{563}{300}$ |
| $x^{15} - 5x^{14} + 5x^{13} + 10x^{12} - 5x^{11} - 5$ | $x^{15} - 70x^{13} - 420x^{12} - 5215x^{11} + 4732x^{10} + 465500x^9 + 3173240x^8 - 3289860x^7 - 298649120x^6 - 1020748792x^5 + 6515628000x^4 + 225114330x^3 - 123190521720x^2 + 270279444960x + 678142105984$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 23 \\ 12 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} - 5x^{14} + 10x^{13} - 10x^{12} - 10x^{11} + 5x^{10} + 5x^5 - 5$ | $x^{15} - 22x^{10} + 363x^5 + 1331$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 23 \\ 12 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|---------------------|
| $x^{15} - 70x^{13} - 140x^{12} - 4095x^{11} +$ $2324x^{10} + 426300x^9 - 1287720x^8 -$ $8401540x^7 + 72398480x^6 +$ $486637032x^5 + 3409694400x^4 -$ $35690937030x^3 - 270660792360x^2 +$ $655592034720x + 4269537249152$ | $x^{15} - 2x^{10} + 3x^5 + 1$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 23 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} + 5x^{14} - 5x^{13} + 10x^{12} -$ $5x^{11} - 5x^{10} - 5$ | $x^{15} - 10x^{14} + 10x^{12} - 10x^{11} - 5$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 19 | $\frac{563}{300}$ |
| $x^{15} - 10x^{14} - 10x^{13} + 5x^{11} +$ $10x^{10} + 5x^5 + 10$ | $x^{15} + 30x^{13} - 100x^{12} + 275x^{11} -$ $2132x^{10} + 4500x^9 - 8640x^8 +$ $32300x^7 - 38400x^6 + 11968x^5 +$ $28000x^4 + 40680x^3 - 108000x^2 -$ $171200x - 143104$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 19 | $\frac{563}{300}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|---------------------|
| $x^{15} + 5x^{13} + 10x^{12} + 10x^{11} -$ $5x^{10} - 10x^5 + 10$ | $x^{15} - 105x^{13} + 4410x^{11} - 1057x^{10} -$ $94325x^9 + 73990x^8 + 1080450x^7 -$ $1812755x^6 - 6162142x^5 +$ $18127550x^4 + 9789220x^3 -$ $63446425x^2 + 34418335x + 93610531$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \frac{23}{12} \frac{23}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|---------|-----|
| x^{15} | — | | | |
| $x^{15} + 10x^{14} - 10x^{13} + 10x^{12} -$ | 132232121387155156689275025139727878277487102743336723767410 x^{13} — | | | |
| $5x^{11} - 10x^5 + 5$ | 94521553575076706085650702222695938792156705357077529636291521344520364073926048240 | | | |
| | 99179508066835164610201459733016910820480826487139669099651357013468366239575716589 | | | |
| | 11082034081138185365163908076480521066106637809620758574819820508409128998526041759 | | | |
| | 46696295326042471860192017658756505259248432926454663980069436222517280664763711214 | | | |
| | 213458489267682448399948173163780541940395213937085354161577169873153069180770757766 | | | |
| | 21820949079392226018097221031730629290220247869068352835379363609825544786178 | $\left[\begin{matrix} 2 \\ 4 \\ 12 \\ 12 \end{matrix} \right]$ | | |
| | 63742691260710388598714165257562835899307863548265326637132711806162994224330105973 | | | |
| | 22420911751115489365658617405492254747115438793814708974556492721795464307730926216 | | | |
| | 20758460910745613838493835747180555043293680133365242707233389700013972176923815664 | | | |
| | 51436530706476281229907726224428070917706919092255618386900605365356936249572678707 | | | |
| | 12021605170744179458716224794677192003636491023522455681702790018165551564568331111 | | | |
| | 31137473177701519521592611492710288926797764580837361284861848271379435101452209076 | | | |
| | 17254827801134667953894124754981716051898728812676314233615236741794703576315902286 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|---------|-----|
| x^{15} | — | | | |
| | 79776631890348491129794673920892705581833600849196691636635305430944082142941821505 | | | |
| | 65758553642380787298230926251550924363321077023623319561292315318424067556265012941 | | | |
| | 19671068023841415472707381518892047707341648933086792549200628767521986141084405932 | | | |
| | 34927963278072972011454280779425674373023649183697738686827219560418500847678118046 | | | |
| | 38492806940038244706671016535039171020783787586086030975730733423832524899366792078 | | | |
| | 39429248076499446846742536880182014181010306513104591811277073670828170737299588190 | | | |
| $x^{15} + 5x^{14} + 10x^{13} + 5x^{12} +$ | 48287886522526771267803384213626155578235393834981456482488341879573555393404557559 | $\left[\begin{smallmatrix} 4 \\ 12 \end{smallmatrix} \right]^2$ | | |
| $5x^{11} + 5$ | 29014810346379922646768082484826402628345737767344006923487088473036762640784746012 | | | |
| | 10310206712187602297842777055227129498199605020199305230026528510179314165447547195 | | | |
| | 22282187274960828237250382071576451145519711927938351870228759656540269234399681131 | | | |
| | 28361569385383071413859254594018263214799721037470322408065853383192185875796618766 | | | |
| | 19179567878807434082403560556179369200502084837930509658746546541738261511313564059 | | | |
| | 33197199303498039039607878544425787564980953361076520163992257400704703257543685703 | | | |
| | 50022063596506344784307470099152390560483616020239737332219617896829780626685412545 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|---------------------|
| $x^{15} + 5x^{14} - 10x^{12} - 10x^{11} + 5x^{10} + 10x^5 + 10$ | $x^{15} - 4x^{10} - 8x^5 - 32$ | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 15, 19 | $\frac{563}{300}$ |
| $x^{15} - 10x^{14} - 10x^{13} + 10x^{12} + 5x^{11} - 5$ | $x^{15} + 10x^{13} - 20x^{12} - 155x^{11} - 132x^{10} + 600x^9 - 680x^8 - 1915x^7 + 6040x^6 - 2582x^5 - 73900x^4 - 26815x^3 + 306980x^2 - 84280x - 1360864$ | $\begin{bmatrix} 5 & 23 \\ 4 & 12 \end{bmatrix}_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|-------------------------------------|---|-----------|---------------------|
| $x^{15} - 10x^{14} + 5x^{13} - 5x^{12} - 10x^{11} + 10x^5 - 10$ | $x^{15} - 4x^{10} + 12x^5 - 32$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \begin{array}{c} 23 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 19 | $\frac{563}{300}$ |
| $x^{15} + 5x^{14} - 5x^{12} - 10x^{11} + 10x^{10} + 10x^5 - 5$ | $x^{15} - 33x^{10} - 242x^5 - 1331$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \begin{array}{c} 23 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|-----------|---------------------|
| $x^{15} - 51170x^{13} - 2334780x^{12} +$ $1050237475x^{11} + 106679415444x^{10} -$ $8539121234700x^9 -$ $1895733958177920x^8 -$ $51892150970511880x^7 +$ $18954034935847194400x^6 +$ $1331525456404314173072x^5 -$ $89552611558169606579600x^4 -$ $9193824067301757967820730x^3 +$ $1682388060603985727269480x^2 +$ $19155738804830161989024012800x +$ $248217929176705265631636134912$ | | $\left[\begin{array}{c} 5 & 23 & 23 \\ 4 & 12 & 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|---------------------|
| $x^{15} - 10x^{13} - 5x^{12} + 10x^{11} - 5x^{10} + 5x^5 + 5$ | $x^{15} - 15x^{13} + 90x^{11} - 3x^{10} - 275x^9 + 30x^8 + 450x^7 - 105x^6 - 377x^5 + 150x^4 + 135x^3 - 75x^2 - 10x + 9$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 23 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 19 | $\frac{563}{300}$ |
| $x^{15} + 5x^{14} - 10x^{12} + 10x^{11} + 5x^{10} + 5x^5 - 10$ | $x^{15} + 15x^{13} + 315x^{11} - 54x^{10} - 1350x^9 - 5940x^8 - 4050x^7 + 45360x^6 - 104328x^5 + 145800x^4 + 126360x^3 - 291600x^2 + 102060x + 169128$ | $\left[\begin{array}{c} 5 \\ 4 \end{array} \quad \begin{array}{c} 23 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{2831}{1500}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|---------|--|
| x^{15} | — | | | |
| | | | | 530020052844014723681956599500345969409987388316690312005522921121901660051041855569 |
| | | | | 36086384925593473320105301546979145583003636736689743445821866901330254745446782195 |
| | | | | 86198929208973875458002154190399210096548653228197039011372049780891039452098014863 |
| | | | | 12721064009130778946620072518333353156936464219584273416126152056288779565772756733 |
| | | | | 143847876669707447238907477591887675319357703329628044612762503818137978209889547000 |
| | | | | 93940297949606468425912407013100101975476770291292282115440436723553498411878654924 |
| $x^{15} - 5x^{14} - 10x^{13} + 10x^{12} +$ | | $\left[\begin{matrix} 19542334910279088451368796424 \\ 4 & 12 & 12 & 12 \end{matrix} \right]^2$ | | 97199486144364056439201818211558719542334910279088451368796424183235512505402776056 |
| $5x^{11} + 5x^5 + 5$ | | | | 49207164275645191487091234671047791675544589883717882135159356318623482463893716268 |
| | | | | 14719205969371302300158808302621762336932554989365448417942379108255913867951728039 |
| | | | | 26393243151338220841948329864890667074704547155767996420206832036378641171523348159 |
| | | | | 26345668403140653459530449069771356080735708264019520071178564075589881851638963981 |
| | | | | 12037857118073079701598771215846979084240595163564292695057373035065858079894326378 |
| | | | | 2587325848328387195951892287141494399598462264923795402692964238266265867467909525 |
| | | | | 23206153509387987690673645889739575910229232203507944332609280224593073818467285846 |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--------------------------------|---|----------|-------------------|
| $x^{15} + 5x^{12} - 10x^{11} - 5x^{10} - 5x^5 + 5$ | $x^{15} - 7x^{10} + 13x^5 + 1$ | $\begin{bmatrix} 23 & 23 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 15,19 | $\frac{563}{300}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|--------------------------------------|--------------------------------------|
| x^{15} | — | | | |
| | 530020052844014723681956599500345969409987388316690312005522921121901660051041855569 | | | |
| | 33858483649391963855826627640559028061977470198301175116509871893579376603457807479 | | | |
| | 880192148135682975351461699667263868872652952041169352572488497931020574335499281144 | | | |
| | 11961196018381030239798018032757321784184186232031549604594814978655638500418111091 | | | |
| | 28862502210201677338023316466981349109511706683729277495951880641594120438339797917 | | | |
| | 929414331048478293009093117313278064392797929320740396242742007748936805060190257477 | | | |
| $x^{15} - 10x^{14} - 10x^{12} + 5x^{11} -$ | $83882562693694185112316115732262113975226841063873260068376685187384368607108432055$ | $\left[\begin{matrix} 4 \\ 4 \\ 12 \\ 12 \end{matrix} \right]^2$ | $1300168376685187384368607108432055$ | $1300168376685187384368607108432055$ |
| $10x^{10} + 10$ | 36750467464189600836648149977610108438801395655189522557219150016054389358381592778 | | | |
| | 905048784600460976485644823568325430156197659119500247470119600995015357991744404010 | | | |
| | 121295693677787095691347736414191984216027896697966027370743874208575394795120198366 | | | |
| | 71461647397386448577362718247785185801684027959882871110061833986615401494296016147 | | | |
| | 328123588009323712524866698854037665299159194049185024595095604746503095585721488477 | | | |
| | 266094557929415669806846373687534548131328416393854264076168557245125120266745619899 | | | |
| | 33013843217917896327563102621447930353965726765371476145684296463289443590953507950 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|---------------------|
| $x^{15} - 10x^{14} - 5x^{13} + 5x^{12} - 10x^{11} + 5x^{10} + 10x^5 - 10$ | $x^{15} - 154x^{10} + 2057x^5 - 42592$ | $\begin{bmatrix} 5 & 23 \\ 4 & 12 \end{bmatrix} \begin{bmatrix} 23 \\ 12 \end{bmatrix} \begin{matrix} 2 \\ 12 \end{matrix}$ | T: 15, 38 | $\frac{2831}{1500}$ |
| $x^{15} + 10x^{14} + 5x^{13} - 5x^{12} + 10x^5 + 10$ | $x^{15} + 10x^{13} - 25x^{12} - 495x^{11} - 2168x^{10} + 3075x^9 + 24380x^8 - 13975x^7 + 11515x^6 + 72233x^5 - 174075x^4 + 1052935x^3 - 747400x^2 + 163030x + 204814$ | $\begin{bmatrix} 5 & 5 \\ 3 & 3 \end{bmatrix} \begin{matrix} 4 \\ 2 \end{matrix} \begin{matrix} 4 \\ 3 \end{matrix}$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 10x^{14} + 10x^{13} - 5x^{12} - 10x^{10} + 10x^5 - 10$ | $x^{15} - 40x^{13} - 35x^{12} + 155x^{11} + 684x^{10} + 8275x^9 + 14860x^8 - 1235x^7 - 131345x^6 - 538503x^5 - 1323675x^4 - 2071335x^3 - 1854990x^2 - 846030x - 151858$ | $\begin{bmatrix} 5 & 5 \\ 3 & 3 \end{bmatrix} \begin{matrix} 4 \\ 2 \end{matrix} \begin{matrix} 4 \\ 3 \end{matrix}$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} - 2475x^{13} - 825x^{12} + 2362360x^{11} +$ $7129771x^{10} - 1090860375x^9 -$ $6148206625x^8 + 245218657475x^7 +$ $1765937532865x^6 -$ $26295218488638x^5 -$ $209178257983750x^4 +$ $25x^2 + 25x + 45$ | $x^{15} - 2475x^{13} - 825x^{12} + 2362360x^{11} +$ $7129771x^{10} - 1090860375x^9 -$ $6148206625x^8 + 245218657475x^7 +$ $1765937532865x^6 -$ $26295218488638x^5 -$ $209178257983750x^4 +$ $1117445234131600x^3 +$ $8603903031383000x^2 -$ $12462393629040960x -$ 19443436515854912 | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 2 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{15} + 5x^{13} + 10x^{12} - 10x^{10} - 5$ | $x^{15} + 65x^{13} - 70x^{12} + 1450x^{11} -$ $1462x^{10} + 13425x^9 + 9780x^8 +$ $20660x^7 + 140400x^6 + 122273x^5 +$ $207050x^4 + 496265x^3 + 531780x^2 +$ $431650x + 189946$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} + 5x^{14} + 10x^{13} + 5x^{12} +$ $5x^{10} + 10x^5 - 10$ | $x^{15} - 55x^{13} - 40x^{12} + 1280x^{11} +$ $5637x^{10} + 8725x^9 - 5390x^8 -$ $132920x^7 - 804035x^6 - 3205552x^5 -$ $7481350x^4 - 18697180x^3 -$ $25681915x^2 - 32685995x - 15908161$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{15} - 10x^{14} + 10x^{13} + 10x^{12} - 5x^{10} + 10$ | $x^{15} - 12245x^{13} - 148915x^{12} +$ $51166325x^{11} + 960343592x^{10} -$ $89227889050x^9 - 1818384219435x^8 +$ $75626985438455x^7 +$ $1493461443276650x^6 -$ $32278131017175567x^5 -$ $571419938528423200x^4 +$ $6397830321923356680x^3 +$ $90695884668806190035x^2 -$ $422991121740408579350x -$ 3114486059184914549396 | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 2 \end{bmatrix}_3^2$ | T: 15,25 | $\frac{722}{375}$ |
| | Continued on next page | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} + 10x^{14} + 10x^{13} - 10x^{12} - 10x^{10} + 10x^5 + 5$ | $x^{15} - 40x^{13} - 160x^{12} - 950x^{11} - 8055x^{10} - 34300x^9 - 56200x^8 + 64350x^7 + 391800x^6 + 322435x^5 - 1194750x^4 - 3743850x^3 - 4850800x^2 - 3252850x - 928195$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} + 5x^{14} - 5x^{13} + 10x^{12} + 10x^{10} + 10x^5 - 5$ | $x^{15} - 65x^{13} - 100x^{12} + 280x^{11} + 447x^{10} - 1425x^9 - 35020x^8 - 76200x^7 + 75715x^6 - 227022x^5 - 790200x^4 - 16740x^3 - 560925x^2 - 234495x - 64881$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|-----------|-------------------|
| $x^{15} - 340x^{13} - 85x^{12} + 42405x^{11} +$ $13159x^{10} - 2440350x^9 - 757515x^8 +$ $66429990x^7 + 25823930x^6 -$ $761162963x^5 - 482024675x^4 +$ $2635557265x^3 + 820526410x^2 -$ $2556207280x - 55970728$ | | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--------------------------------------|--|----------|-------------------|
| | $x^{15} - 220x^{13} - 13200x^{12} -$ | | | |
| | $349030x^{11} + 5773922x^{10} -$ | | | |
| | $36493600x^9 + 3818879790x^8 +$ | | | |
| | $19197475825x^7 - 959069388090x^6 +$ | | | |
| $x^{15} - 60x^{14} + 20x^{13} - 45x^{12} +$ | | | | |
| $25x^{11} - 55x^{10} - 50x^9 + 25x^7 +$ | | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \right]_3^2$ | T: 15,25 | $\frac{698}{375}$ |
| $50x^6 + 5x^5 + 50x + 45$ | | | | |
| | $11396217818293x^5 -$ | | | |
| | $427457170103150x^4 +$ | | | |
| | $4431410387409830x^3 -$ | | | |
| | $31800518454087900x^2 +$ | | | |
| | $576877337222420245x -$ | | | |
| | 2869608559922925436 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} - 60x^{14} - 30x^{13} - 10x^{12} + 50x^{11} + 25x^9 - 50x^8 + 25x^7 - 50x^5 + 50x^4 + 50x^3 + 50x^2 + 25x + 35$ | $x^{15} + 25x^{13} - 325x^{12} - 4040x^{11} - 27931x^{10} - 235125x^9 - 843125x^8 - 4323925x^7 - 11147965x^6 - 29023963x^5 - 89121875x^4 - 102803775x^3 - 185202025x^2 - 290734960x + 156875077$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 2 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 10x^{14} + 5x^{13} + 10x^{12} - 10x^{10} + 5$ | $x^{15} - 50x^{13} - 110x^{12} + 880x^{11} + 1987x^{10} - 1550x^9 - 3200x^8 - 19230x^7 - 269960x^6 - 560497x^5 + 145300x^4 - 1153300x^3 - 1416260x^2 - 699770x + 885919$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 2 \end{bmatrix}_3^4$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} + 10x^{14} + 10x^{13} + 10x^{12} - 10x^5 - 5$ | $x^{15} + 55x^{13} - 200x^{12} + 600x^{11} - 4274x^{10} + 1375x^9 - 26530x^8 - 159750x^7 - 112200x^6 - 1219653x^5 + 1852000x^4 - 92605x^3 - 37495700x^2 + 15406950x + 42904558$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} + 50x^{14} - 45x^{13} + 30x^{12} + 50x^{11} - 20x^{10} + 25x^9 - 25x^7 + 50x^6 + 20x^5 + 25x^3 - 25x^2 - 50x + 20$ | $x^{15} - 295x^{13} - 405x^{12} + 28845x^{11} + 91624x^{10} - 943800x^9 - 5579970x^8 - 1581305x^7 + 56174195x^6 + 155566917x^5 + 112708475x^4 - 149804655x^3 - 313265370x^2 - 189219195x - 36892053$ | $\begin{bmatrix} 4 & 4 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{698}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} - 5x^{14} + 10x^{13} + 10x^{12} + 5x^{10} - 5x^5 - 5$ | $x^{15} + 40x^{13} - 5x^{12} + 75x^{11} - 138x^{10} - 6325x^9 + 120x^8 + 45435x^7 + 17925x^6 - 228087x^5 + 194575x^4 + 125515x^3 - 184530x^2 + 5500x + 34364$ | $\begin{bmatrix} 4 & 4 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15, 25 | $\frac{698}{375}$ |
| $x^{15} - 10x^{14} - 10x^{13} - 10x^{12} + 5x^{10} + 10x^5 - 5$ | $x^{15} - 75x^{13} - 260x^{12} + 1050x^{11} + 6294x^{10} - 4925x^9 - 67900x^8 + 44640x^7 + 631750x^6 - 288143x^5 - 3168150x^4 + 172075x^3 + 6040660x^2 + 1446750x + 3122542$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 5x^{14} + 10x^{13} - 5x^{12} + 10x^{10} - 10x^5 - 10$ | $x^{15} + 40x^{13} - 5x^{12} - 365x^{11} + 3616x^{10} - 1475x^9 - 22640x^8 + 87005x^7 - 139335x^6 - 181723x^5 - 103325x^4 + 654235x^3 - 465320x^2 + 544440x - 159472$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} - 60x^{14} + 35x^{13} - 30x^{12} -$ $25x^{11} - 50x^{10} - 50x^9 - 25x^8 -$ $50x^7 - 50x^6 - 60x^5 - 50x^3 -$ $50x^2 - 25x + 55$ | $x^{15} - 330x^{13} - 165x^{12} + 37455x^{11} +$ $35772x^{10} - 1893650x^9 - 2415765x^8 +$ $44398530x^7 + 69047440x^6 -$ $415678197x^5 - 771447600x^4 +$ $622069470x^3 + 1036962135x^2 +$ $298915980x + 13681349$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \right]_3^2$ | T: 15, 25 | $\frac{698}{375}$ |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} + 5x^{14} - 5x^{13} + 10x^{12} + 5x^5 + 10$ | $x^{15} - 11850x^{13} - 8295x^{12} +$ $49205940x^{11} + 64449464x^{10} -$ $91165875575x^9 - 209945991800x^8 +$ $82175717134530x^7 +$ $264348063689415x^6 -$ $35367166256776208x^5 -$ $126901649824019600x^4 +$ $6298711744800089000x^3 +$ $16247030956452981920x^2 -$ $347675133127437457040x -$ 166484578099075313328 | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15,25 | $\frac{722}{375}$ |
| | Continued on next page | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} + 10x^{14} - 5x^{13} + 10x^{12} - 5x^{10} + 5$ | $x^{15} - 30x^{13} - 40x^{12} + 320x^{11} + 1973x^{10} - 6700x^9 - 11160x^8 - 8330x^7 + 307140x^6 - 343447x^5 + 262050x^4 - 3181380x^3 + 5527860x^2 - 5209230x - 342859$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15,25 | $\frac{722}{375}$ |
| $x^{15} + 10x^{14} - 10x^{12} + 5x^{10} - 10x^5 + 5$ | $x^{15} - 40x^{13} - 130x^{12} + 920x^{11} + 3663x^{10} - 7150x^9 - 25080x^8 - 54660x^7 - 594810x^6 + 543193x^5 + 10599850x^4 + 14126960x^3 - 25024330x^2 - 65185430x - 37295699$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15,25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} + 5x^{14} + 5x^{13} + 5x^{12} +$ $10x^{10} + 5x^5 - 10$ | $x^{15} - 50x^{13} - 25x^{12} + 1335x^{11} +$ $3148x^{10} - 20125x^9 - 56950x^8 +$ $186325x^7 + 96495x^6 - 891177x^5 +$ $3314125x^4 + 2948925x^3 -$ $3531800x^2 - 7958890x + 2020286$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---------------------------------------|--|----------|-------------------|
| $x^{15} + 5x^{14} - 5x^{13} + 10x^{12} - 10x^5 + 10$ | $x^{15} - 9875x^{13} - 77025x^{12} +$ | $\left[\begin{array}{ccc} 5 & 5 & 2 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 15,25 | $\frac{722}{375}$ |
| | $31936935x^{11} + 376368719x^{10} -$ | | | |
| | $43195521250x^9 - 626755389475x^8 +$ | | | |
| | $24005079555475x^7 +$ | | | |
| | $439425579720810x^6 -$ | | | |
| | $3588752700011723x^5 -$ | | | |
| | $110792434338902375x^4 -$ | | | |
| | $584752720280818375x^3 +$ | | | |
| | $294381030540201275x^2 +$ | | | |
| | $4677112892014157740x +$ | | | |
| | 2244582646629368327 | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} - 10x^{13} + 10x^{12} + 10x^{10} + 10$ | $x^{15} - 370x^{13} - 630x^{12} + 46030x^{11} + 121416x^{10} - 2392225x^9 - 7901080x^8 + 50185080x^7 + 202142820x^6 - 363929973x^5 - 2048947450x^4 - 136240555x^3 + 6188010180x^2 + 3681863020x - 2911539752$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 2 \end{bmatrix}_3$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} + 55x^{14} + 35x^{13} - 55x^{12} - 50x^{11} - 35x^{10} - 25x^9 + 50x^8 - 50x^7 - 50x^6 + 35x^5 - 25x^4 - 25x^3 + 25x^2 + 50x - 20$ | $x^{15} - 55x^{13} - 275x^{12} + 8800x^{11} - 4048x^{10} - 514250x^9 + 303710x^8 + 3505975x^7 + 1206975x^6 + 9962898x^5 - 278179000x^4 + 1628638220x^3 - 4616739875x^2 + 6053853850x - 2886554341$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 2 \end{bmatrix}_3$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|-----------|-------------------|
| $x^{15} - 330x^{13} - 385x^{12} + 39380x^{11} +$ $86713x^{10} - 1984400x^9 - 5927185x^8 +$ $36624280x^7 + 120217735x^6 -$ $208526802x^5 - 773344275x^4 -$ $178460480x^3 + 627852665x^2 +$ $162987605x - 114025439$ | | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} + 10x^{14} + 5x^{13} + 5x^{12} +$ $5x^{10} + 5x^5 - 5$ | | | | |
| $x^{15} - 165x^{13} - 550x^{12} + 13255x^{11} +$ $65087x^{10} - 474925x^9 - 4527820x^8 +$ $6897000x^7 + 155402115x^6 +$ $194983393x^5 - 2172125450x^4 -$ $8976816365x^3 - 13158532200x^2 -$ $6222451620x + 1174260109$ | | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 5x^{14} + 45x^{13} + 35x^{12} -$ $50x^{11} + 45x^{10} - 50x^9 - 25x^7 -$ $60x^5 - 50x^4 - 25x^3 - 25x^2 - 35$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} - 165x^{13} - 495x^{12} + 9020x^{11} + 47597x^{10} - 63525x^9 - 271645x^8 + 1847065x^7 - 21388565x^6 - 343885872x^5 - 2218244600x^4 - 7334794940x^3 - 4692866420x^2 + 12918579520x + 10828036384$ | $x^{15} + 25x^{14} - 15x^{13} + 45x^{12} - 50x^{11} + 25x^{10} - 50x^9 + 25x^8 - 50x^7 - 50x^6 - 50x^5 + 50x^4 - 25x^3 + 50x^2 - 50x + 30$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15,25 | $\frac{722}{375}$ |
| $x^{15} + 50x^{13} - 60x^{12} + 555x^{11} - 348x^{10} - 2300x^9 + 17500x^8 - 56905x^7 + 51240x^6 + 4018x^5 - 225700x^4 + 68125x^3 - 73260x^2 + 57880x - 11036$ | $x^{15} + 10x^{14} + 10x^{13} + 5x^{12} - 10x^{10} - 10x^5 - 10$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15,25 | $\frac{722}{375}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} + 10x^{14} - 5x^{13} + 10x^{12} + 5x^{10} + 5$ | $x^{15} - 30x^{13} - 80x^{12} + 515x^{11} + 1204x^{10} - 19250x^9 - 14030x^8 + 355995x^7 + 732040x^6 - 1143198x^5 - 3916500x^4 + 3716105x^3 + 24735180x^2 + 32751510x + 14506762$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 15x^{14} + 60x^{13} + 30x^{12} + 50x^{11} + 20x^{10} + 25x^9 + 50x^8 - 25x^7 + 50x^6 - 55x^5 - 25x^4 - 50x^3 + 50x^2 - 50x - 30$ | $x^{15} - 5x^{13} - 5x^{12} + 60x^{11} + 102x^{10} - 275x^9 - 1140x^8 - 1990x^7 - 1845x^6 - 962x^5 - 100x^4 + 120x^3 - 30x^2 - 15x - 1$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} + 5x^{14} - 10x^{13} - 5x^{12} + 5x^{10} + 10x^5 + 10$ | $x^{15} + 30x^{13} - 75x^{12} + 775x^{11} - 2926x^{10} + 11125x^9 - 30370x^8 + 194275x^7 - 482025x^6 + 270807x^5 - 2251875x^4 + 9418295x^3 - 5461700x^2 - 36824800x + 47035792$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} + 10x^{13} - 5x^{12} - 10x^{10} +$ $10x^5 + 10$ | $x^{15} + 45x^{13} - 90x^{12} + 670x^{11} -$ $1682x^{10} - 4325x^9 - 11010x^8 +$ $54220x^7 + 30740x^6 - 105037x^5 -$ $11700x^4 - 1755x^3 - 134940x^2 -$ $137280x - 12844$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 2 \end{bmatrix}_3^4$ | T: 15,25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} - 10x^{14} + 5x^{13} + 5x^{12} + 10x^{10} + 10x^5 + 5$ | $x^{15} - 14220x^{13} - 468470x^{12} +$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 2 \end{bmatrix}_3^2$ | T: 15,25 | $\frac{722}{375}$ |
| | $53531980x^{11} + 3307514409x^{10} +$ | | | |
| | $7178086150x^9 - 3122810855070x^8 -$ | | | |
| | $52288760571195x^7 +$ | | | |
| | $655834010282905x^6 +$ | | | |
| | $18022840174387727x^5 +$ | | | |
| | $8520457570723700x^4 -$ | | | |
| | $1310392823392520355x^3 -$ | | | |
| | $2371823950109351855x^2 +$ | | | |
| | $15820097342882719520x -$ | | | |
| | 13475598695694564923 | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} - 5x^{14} + 5x^{13} + 5x^{12} - 5x^{10} - 10x^5 - 10$ | $x^{15} - 5x^{13} - 60x^{12} - 1130x^{11} - 5353x^{10} - 17325x^9 - 22040x^8 + 163520x^7 + 1621785x^6 + 8026778x^5 + 24504200x^4 + 47156220x^3 + 56996865x^2 + 40333195x + 13230739$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \right]_3^4$ | T: 15, 25 | $\frac{698}{375}$ |
| $x^{15} - 35x^{14} - 55x^{13} + 30x^{12} - 50x^{11} - 25x^{10} + 25x^9 - 25x^8 - 25x^6 + 50x^5 - 25x^3 - 50x^2 + 25x - 55$ | $x^{15} - 55x^{13} - 550x^{12} + 4400x^{11} + 25498x^{10} - 90750x^9 - 2224585x^8 - 15191550x^7 - 27113075x^6 + 1383998x^5 + 173695500x^4 - 444394280x^3 - 7508437200x^2 - 1721781600x + 4663738816$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \frac{5}{3} \frac{2}{3} \right]_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} - 5x^{14} - 10x^{13} - 5x^{12} +$ $10x^{10} - 10x^5 - 10$ | $x^{15} + 20x^{13} - 75x^{12} + 445x^{11} -$ $2884x^{10} + 8225x^9 - 15620x^8 +$ $49225x^7 - 187695x^6 + 470747x^5 -$ $1755675x^4 + 4942955x^3 -$ $6375150x^2 + 3108880x + 3859468$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15,25 | $\frac{722}{375}$ |
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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|----------|-------------------|
| $x^{15} + 275x^{13} - 6930x^{12} -$ $469095x^{11} - 4575021x^{10} -$ $260476700x^9 - 2148530450x^8 -$ $44827902130x^7 - 375554880745x^6 -$ $2533244378918x^5 -$ $27462871522350x^4 +$ $27902112370000x^3 -$ $766636481477295x^2 +$ $3034106652344020x -$ 1224432622090073 | | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15,25 | $\frac{722}{375}$ |
| $x^{15} - 60x^{13} - 30x^{12} - 25x^{11} +$ $50x^8 - 50x^7 - 50x^6 + 5x^5 +$ $25x^3 - 25x^2 - 20$ | | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|----------|-------------------|
| $x^{15} - 95x^{12} + 4655x^{11} - 36499x^{10} -$ $1335700x^9 + 8700100x^8 -$ $60740055x^7 - 415684280x^6 +$ $3623179027x^5 - 32535495025x^4 +$ $850001575x^3 - 677783368055x^2 +$ $537862237295x - 20462360752277$ | | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 2 \end{bmatrix}_3^2$ | T: 15,25 | $\frac{722}{375}$ |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|----------|-------------------|
| $x^{15} - 8875x^{13} - 128865x^{12} +$ $23203155x^{11} + 517225983x^{10} -$ $23122058800x^9 - 652115732375x^8 +$ $8933810648645x^7 +$ $331940727856810x^6 -$ $963707734737677x^5 -$ $70161769861653175x^4 -$ $67547852360195525x^3 +$ $5310703500631379035x^2 +$ $3863625760376247980x -$ 111894363244519986229 | | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15,25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} - 5x^{14} - 10x^{12} + 10x^{10} -$ $5x^5 + 5$ | $x^{15} + 15x^{13} - 10x^{12} - 10x^{11} + 536x^{10} -$ $8525x^9 + 20260x^8 - 32240x^7 -$ $87240x^6 + 314397x^5 - 1568050x^4 -$ $1491065x^3 - 1531590x^2 - 410940x -$ 92772 | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15,25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS | | | | |
|---|--|--|----------|-------------------|--|--|--|--|
| $x^{15} + 10x^{14} + 5x^{13} + 10x^{12} + 10x^5 + 10$ | $x^{15} - 8875x^{13} - 198090x^{12} +$ | $\left[\begin{array}{ccc} 5 & 5 & 2 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 15,25 | $\frac{722}{375}$ | | | | |
| | $19132725x^{11} + 539222280x^{10} -$ | | | | | | | |
| | $17464166425x^9 - 543317215650x^8 +$ | | | | | | | |
| | $7789101402050x^7 +$ | | | | | | | |
| | $255738841479800x^6 -$ | | | | | | | |
| | $1692595700360820x^5 -$ | | | | | | | |
| | $57857527005156500x^4 +$ | | | | | | | |
| | $158406756437030900x^3 +$ | | | | | | | |
| | $5842103274644101200x^2 -$ | | | | | | | |
| | $5342392391290736000x -$ | | | | | | | |
| | 210271483668501514640 | | | | | | | |
| | Continued on next page | | | | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} + 275x^{13} - 8580x^{12} - 418385x^{11} -$ $5323879x^{10} - 220244200x^9 -$ $985811200x^8 - 21732056170x^7 -$ $84520401515x^6 + 1138142452612x^5 -$ $7051157375900x^4 +$ $178377502864550x^3 +$ $970030200497105x^2 +$ $541288011525910x +$ 46759218558114293 | | $\left[\begin{array}{c} 5 \\ 3 \end{array} \begin{array}{c} 5 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \end{array} \right]_3^2$ | T: 15,25 | $\frac{722}{375}$ |
| $x^{15} - 10x^{14} - 50x^{13} - 15x^{12} -$ $35x^{10} + 25x^9 - 25x^7 + 25x^6 -$ $35x^5 + 50x^4 - 50x^3 + 50x + 40$ | $x^{15} - 75x^{13} - 150x^{12} + 2110x^{11} +$ $6373x^{10} - 23875x^9 - 101900x^8 +$ $24050x^7 + 657445x^6 + 1827108x^5 -$ $501250x^4 - 16018450x^3 -$ $9034275x^2 + 53283785x - 5402879$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 4 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \end{array} \right]_3^4$ | T: 15,25 | $\frac{698}{375}$ |
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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} + 5x^{14} + 10x^{12} + 10x^{10} -$ $10x^5 + 10$ | $x^{15} - 370x^{13} - 870x^{12} + 45355x^{11} +$ $185814x^{10} - 2053975x^9 -$ $11648395x^8 + 22690305x^7 +$ $231407330x^6 + 346473732x^5 -$ $196706675x^4 - 686478980x^3 -$ $205053255x^2 + 262572420x +$ 123820147 | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} + 10x^{14} + 10x^{12} - 10x^{10} +$ $5x^5 - 5$ | $x^{15} + 40x^{13} - 5x^{12} + 75x^{11} - 918x^{10} -$ $3075x^9 - 31080x^8 + 13585x^7 +$ $198625x^6 + 359643x^5 - 1443425x^4 -$ $3786185x^3 + 2734620x^2 + 5717700x -$ 3955986 | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} + 50x^{14} - 15x^{12} + 60x^{10} +$ $25x^9 - 25x^8 - 25x^7 - 50x^6 +$ $40x^5 + 25x^3 - 25x^2 + 25x + 15$ | $x^{15} - 15x^{13} - 20x^{12} + 95x^{11} + 247x^{10} -$ $150x^9 - 1320x^8 - 860x^7 + 3335x^6 +$ $3828x^5 - 2975x^4 - 5165x^3 - 345x^2 +$ $1420x + 359$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--------------------------------------|--|----------|-------------------|
| $x^{15} + 5x^{14} - 10x^{13} - 10x^{12} - 10x^{10} - 5x^5 - 10$ | $x^{15} - 9875x^{13} - 2370x^{12} +$ | | | |
| | $33568680x^{11} + 105849256x^{10} -$ | | | |
| | $48714593575x^9 - 419317811600x^8 +$ | | | |
| | $30374215679620x^7 +$ | | | |
| | $444159657880020x^6 -$ | | | |
| | $5999601957235163x^5 -$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 2 \end{bmatrix}_3^2$ | T: 15,25 | $\frac{722}{375}$ |
| | $140663597805373900x^4 -$ | | | |
| | $331530594372297025x^3 +$ | | | |
| | $6104786045879008720x^2 +$ | | | |
| | $22613249913226757920x -$ | | | |
| | 44941553819718587402 | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} - 165x^{13} - 550x^{12} + 8305x^{11} + 63063x^{10} + 145200x^9 + 686070x^8 - 4404400x^7 - 48510715x^6 - 133280532x^5 + 155494075x^4 + 1196016635x^3 + 558055025x^2 - 3312419770x + 757952591$ | | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}^2_3$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} + 20x^{14} + 15x^{13} + 45x^{12} - 25x^{11} + 30x^{10} - 25x^9 - 25x^7 - 25x^6 + 50x^5 - 25x^4 + 25x^3 + 25x^2 + 25x + 55$ | | | | |
| $x^{15} + 10x^{13} - 5x^{12} + 5x^{10} - 10x^5 - 10$ | $x^{15} - 20x^{13} - 155x^{12} - 895x^{11} - 1354x^{10} + 3775x^9 + 39820x^8 + 236205x^7 + 1048295x^6 + 4436397x^5 + 15909425x^4 + 42549845x^3 + 69505280x^2 + 51360920x + 15032368$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}^4_3$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|----------|-------------------|
| $x^{15} - 220x^{13} - 23705x^{12} -$ $822745x^{11} + 4244537x^{10} +$ $60881150x^9 - 592020935x^8 -$ $5115806190x^7 - 625453511485x^6 -$ $1117197062212x^5 +$ $113647610825100x^4 -$ $4613957712320x^3 -$ $9254427144702080x^2 -$ $13796781649291520x +$ 135596529217597184 | | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \right]_3^2$ | T: 15,25 | $\frac{698}{375}$ |
| $x^{15} + 20x^{14} + 15x^{13} - 30x^{12} +$ $25x^{10} - 50x^9 - 25x^8 + 25x^6 -$ $40x^5 + 25x^4 + 25x^3 - 50x^2 -$ $25x - 45$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} - 5x^{13} + 10x^{12} + 5x^{10} + 10x^5 - 5$ | $x^{15} + 25x^{13} - 1050x^{11} - 6345x^{10} - 18375x^9 + 2450x^8 + 143050x^7 + 180325x^6 - 565200x^5 - 1845000x^4 - 1926250x^3 - 511625x^2 + 428875x + 242675$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} + 5x^{14} - 5x^{13} - 5x^{12} - 10x^{10} + 5x^5 + 10$ | $x^{15} - 30x^{13} - 220x^{12} + 1100x^{11} + 5775x^{10} - 19700x^9 - 87900x^8 + 290800x^7 + 539550x^6 - 1831245x^5 - 6166000x^4 + 33701050x^3 - 63005800x^2 + 57784350x - 22097585$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} - 10x^{14} - 5x^{13} + 10x^{12} + 5x^5 - 5$ | $x^{15} - 10x^{13} - 185x^{12} + 395x^{11} + 4748x^{10} - 17225x^9 - 37770x^8 + 511605x^7 - 2426835x^6 + 4989123x^5 + 10267525x^4 - 89793185x^3 + 232102690x^2 - 287169830x + 141109106$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 10x^{14} - 5x^{13} + 10x^{12} - 10x^{10} + 10x^5 + 5$ | $x^{15} + 30x^{13} - 10x^{12} + 60x^{11} - 1509x^{10} - 6100x^9 - 40380x^8 - 135990x^7 - 581410x^6 - 1906823x^5 - 6152200x^4 - 12206230x^3 - 25222740x^2 - 22562760x - 6351217$ | $\begin{bmatrix} 4 & 4 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15, 25 | $\frac{698}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} + 10x^{14} - 5x^{13} - 5x^{12} - 5x^{10} - 10x^5 + 10$ | $x^{15} - 20x^{13} - 35x^{12} - 325x^{11} - 872x^{10} + 3075x^9 + 10810x^8 - 46395x^7 - 25575x^6 - 1752437x^5 - 1111925x^4 - 4729495x^3 + 4183590x^2 + 21305500x + 16150346$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 10x^{14} + 5x^{13} + 10x^{12} + 10$ | $x^{15} - 285x^{13} - 1615x^{12} + 21185x^{11} + 295583x^{10} + 1687675x^9 - 647995x^8 - 127461880x^7 - 1075529105x^6 - 6447433647x^5 - 64733870200x^4 - 357473178010x^3 - 63014901915x^2 + 3003784779060x - 5651661267819$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| | $x^{15} - 13035x^{13} - 101910x^{12} +$ $64702975x^{11} + 875491825x^{10} -$ $150445077925x^9$ $2453809855750x^8$ $169364363772025x^7$ $2541591164005300x^6$ $9832128535499830x^5$ $1021965985807825125x^4$ $27079835537223023225x^3$ $118649544749411430900x^2$ $1896726104738956478800x$ 8352627577285096087960 | | | |
| $x^{15} + 10x^{14} + 5x^{13} + 10x^{12} -$ $10x^{10} + 10x^5 + 10$ | | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 2 \end{bmatrix}_3$ | T: 15,25 | $\frac{722}{375}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{15} + 10x^{14} - 10x^{13} - 5x^{12} + 5x^{10} + 10x^5 + 10$ | $x^{15} + 20x^{13} - 360x^{12} - 170x^{11} + 3791x^{10} - 21650x^9 + 8280x^8 + 93210x^7 - 90780x^6 + 60987x^5 - 55550x^4 - 111220x^3 - 25690x^2 - 26780x - 67067$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}^4_3$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 10x^{14} + 10x^{13} + 5x^{12} - 5x^5 + 10$ | $x^{15} + 30x^{13} - 60x^{12} + 65x^{11} - 856x^{10} + 500x^9 + 130x^8 + 5215x^7 + 19440x^6 - 45838x^5 + 41000x^4 - 400905x^3 + 440960x^2 - 310540x + 1357562$ | $\begin{bmatrix} 4 & 4 & 2 \\ 3 & 3 & 3 \end{bmatrix}^4_3$ | T: 15, 25 | $\frac{698}{375}$ |
| $x^{15} + 10x^{14} - 10x^{13} + 5x^{12} + 5x^{10} - 5x^5 + 10$ | $x^{15} + 70x^{13} - 290x^{12} + 105x^{11} - 3548x^{10} - 9400x^9 + 11060x^8 + 85855x^7 + 276640x^6 + 191418x^5 - 753850x^4 - 1829505x^3 - 110940x^2 + 2830880x + 444704$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}^4_3$ | T: 15, 25 | $\frac{722}{375}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} - 5x^{14} + 10x^{13} - 10x^{12} - 5x^5 + 10$ | $x^{15} - 5x^{13} - 25x^{12} + 50x^{11} + 2x^{10} - 125x^9 + 485x^8 - 525x^7 + 200x^6 - 177x^5 - 375x^4 - 480x^3 - 250x^2 + 9$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} + 10x^{14} - 5x^{13} + 10x^{12} - 5x^{10} + 5x^5 - 10$ | $x^{15} - 330x^{13} - 110x^{12} + 34705x^{11} + 25828x^{10} - 1394525x^9 - 306735x^8 + 24987105x^7 - 14370565x^6 - 175907622x^5 + 218749850x^4 + 206131970x^3 - 248045160x^2 - 31837520x + 19394001$ | $\begin{bmatrix} 4 & 4 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{698}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{15} - 35x^{14} + 25x^{13} - 35x^{12} +$ $25x^{11} - 20x^{10} + 50x^9 - 25x^8 +$ $25x^7 - 25x^6 - 30x^5 - 50x^4 +$ $50x^3 - 50x^2 + 25x - 40$ | $x^{15} - 1045x^{13} - 8085x^{12} + 311850x^{11} +$ $4600508x^{10} - 8158425x^9 -$ $522023040x^8 - 3576571845x^7 -$ $7135905425x^6 + 12750450383x^5 +$ $47670696700x^4 - 33470151220x^3 -$ $97474666960x^2 + 112562137600x -$ 31008338944 | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 10x^{12} + 5x^{10} + 10x^5 - 5$ | $x^{15} + 30x^{13} - 70x^{12} + 450x^{11} +$ $2225x^{10} - 450x^9 + 4650x^8 + 91250x^7 +$ $173800x^6 + 51805x^5 + 1066500x^4 +$ $5065950x^3 + 8650200x^2 + 6635200x +$ 1951315 | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}^4$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} - 10x^{14} - 10x^{13} - 40x^{12} +$ $50x^{11} + 40x^{10} + 50x^9 + 25x^7 +$ $50x^6 - 55x^5 - 25x^4 - 25x^3 -$ $25x^2 - 25x + 40$ | $x^{15} - 95x^{13} - 95x^{12} + 2205x^{11} +$ $3833x^{10} - 18975x^9 - 47215x^8 +$ $49360x^7 + 207810x^6 + 44463x^5 -$ $309100x^4 - 230670x^3 + 101530x^2 +$ $148280x + 38071$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 10x^{14} - 5x^{13} - 5x^{12} - 5$ | $x^{15} - 340x^{13} - 85x^{12} + 40825x^{11} +$ $23765x^{10} - 2225300x^9 - 1508375x^8 +$ $59106850x^7 + 33314050x^6 -$ $742354195x^5 - 218208375x^4 +$ $3853520275x^3 - 671683100x^2 -$ $7154475900x + 4898762440$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{15} - 5x^{14} - 5x^{13} + 5x^{12} - 10x^5 - 10$ | $x^{15} - 30x^{13} - 40x^{12} + 255x^{11} + 2064x^{10} - 2150x^9 - 30530x^8 + 8635x^7 + 31280x^6 + 882882x^5 + 759300x^4 - 12236595x^3 + 10642840x^2 + 27667770x - 385666018$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15,25 | $\frac{722}{375}$ |
| $x^{15} - 5x^{14} - 10x^{13} - 5x^{12} - 10x^{10} + 5x^5 - 10$ | $x^{15} - 5x^{14} - 75x^{13} + 75x^{12} + 4000x^{11} - 5160x^{10} - 101300x^9 - 55500x^8 + 2312000x^7 + 6400000x^6 - 33324800x^5 - 185072000x^4 + 103040000x^3 + 631680000x^2 + 1714400000x + 718752000$ | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}_3^4$ | T: 15,1 | $\frac{26}{15}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|-----------|-------------------|
| $x^{15} - 2475x^{13} - 21230x^{12} +$ $2272655x^{11} + 37117729x^{10} -$ $763382950x^9 - 20882936250x^8 -$ $29240040830x^7 + 2566713650105x^6 +$ $13491060153142x^5 -$ $130027786432225x^4 -$ $1036047009643525x^3 +$ $98423555167905x^2 +$ $9208495199705670x +$ 17863700399874307 | | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} + 15x^{14} - 20x^{13} - 55x^{12} -$ $25x^{11} - 55x^{10} + 50x^9 - 25x^8 -$ $50x^7 - 45x^5 - 50x^4 + 25x^2 +$ $50x - 20$ | | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|-----------|-------------------|
| $x^{15} - 75x^{13} - 80x^{12} + 1715x^{11} +$ $25x^{14} - 20x^{13} - 60x^{12} -$ $2206x^{10} - 16575x^9 - 19900x^8 +$ $25x^{11} + 60x^{10} - 50x^9 - 25x^6 +$ $71505x^7 + 71960x^6 - 131683x^5 -$ $20x^5 + 25x^4 - 15$ $122650x^4 + 98175x^3 + 89980x^2 -$ $23540x - 21912$ | | $\begin{bmatrix} 4 & 4 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{698}{375}$ |
| $x^{15} + 275x^{13} - 9900x^{12} - 400565x^{11} +$ $426481x^{10} - 68682625x^9 +$ $1141166125x^8 + 53506696100x^7 -$ $2650264210x^6 - 1134540434588x^5 +$ $9128428079375x^4$ $28231921392400x^3$ $62660999481850x^2$ $74164835722835x + 61593157724923$ | | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} + 10x^{14} + 5x^{12} - 10x^{10} +$ $5x^5 - 5$ | | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} + 50x^{14} + 35x^{13} - 45x^{12} +$ $25x^{11} - 45x^{10} - 50x^9 - 25x^8 -$ $25x^6 - 25x^5 + 50x^3 + 50x^2 -$ $50x - 30$ | $x^{15} - 205x^{13} - 245x^{12} + 13515x^{11} +$ $23451x^{10} - 396000x^9 - 749320x^8 +$ $5641570x^7 + 9523085x^6 -$ $39878663x^5 - 46252250x^4 +$ $117331280x^3 + 44832920x^2 -$ $12126015x - 4111217$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 2 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{15} - 23785x^{13} - 386595x^{12} +$ $151804035x^{11} + 2571057964x^{10} -$ $352084738225x^9$ $2807461117835x^8$ $336214667847355x^7$ $843079447448315x^6$ $72015826208592233x^5$ $28513316322922200x^4$ $4459023742063938135x^3$ $6313843931663439270x^2$ $851754899294134810x$ 229407918113933255763 | $+$ $-$ $+$ $-$ $-$ $+$ $+$ $+$ $-$ $-$ | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 15,25 | $\frac{698}{375}$ |
| $x^{15} + 5x^{14} - 10x^{13} + 10x^{12} -$ $5x^{10} - 10x^5 + 10$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} + 10x^{14} - 10x^{13} - 5x^{12} + 5x^{10} - 10x^5 + 10$ | $x^{15} + 50x^{13} - 190x^{12} + 490x^{11} - 7823x^{10} + 4200x^9 - 81950x^8 + 204330x^7 - 363330x^6 + 1822263x^5 - 2500700x^4 + 4528100x^3 - 9629040x^2 + 5308840x - 1164071$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15,25 | $\frac{722}{375}$ |
| $x^{15} + 5x^{14} - 5x^{13} - 5x^{12} + 10x^{10} + 5x^5 - 10$ | $x^{15} - 30x^{13} - 80x^{12} - 585x^{11} + 2484x^{10} - 5250x^9 + 30470x^8 - 136205x^7 + 255040x^6 - 106078x^5 - 449500x^4 + 2194205x^3 - 7226220x^2 + 11541910x - 6625778$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15,25 | $\frac{722}{375}$ |
| $x^{15} + 5x^{14} - 5x^{13} - 10x^{12} + 5x^{10} - 5x^5 - 10$ | $x^{15} - 15x^{13} + 105x^{11} - 78x^{10} - 425x^9 + 780x^8 + 1050x^7 - 3510x^6 - 2832x^5 + 7800x^4 + 7660x^3 - 7800x^2 - 13320x - 8856$ | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}_3$ | T: 15,1 | $\frac{26}{15}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|---------|-----------------|
| $x^{15} - 10x^{13} - 5x^{12} - 5x^5 + 10$ | $x^{15} - 5x^{14} - 135x^{13} - 25x^{12} +$ $11970x^{11} - 11994x^{10} - 132070x^9 -$ $751890x^8 + 8050300x^7 -$ $89023020x^6 + 291934812x^5 +$ $158405380x^4 - 1289615240x^3 -$ $179291800x^2 + 1613853080x +$ 822841608 | $\begin{bmatrix} 4 \\ 2 \\ 3 \end{bmatrix}$ | T: 15,1 | $\frac{26}{15}$ |
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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|----------|-------------------|
| $x^{15} + 275x^{13} - 6270x^{12} -$ $485595x^{11} + 514371x^{10} -$ $130870575x^9 - 1588206675x^8 +$ $22948916870x^7 - 155545098280x^6 +$ $1772181547532x^5 -$ $4970451161775x^4 +$ $27294411377750x^3 -$ $53280844570030x^2 -$ $67619596930655x -$ 145069144566577 | | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15,25 | $\frac{722}{375}$ |
| $x^{15} + 40x^{14} + 10x^{13} + 20x^{12} -$ $50x^{11} - 60x^{10} - 50x^8 - 50x^7 +$ $25x^6 - 15x^5 - 50x^4 - 50x^3 -$ $50x^2 - 50x - 45$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|----------|-------------------|
| $x^{15} - 1045x^{13} - 1320x^{12} + 337755x^{11} + 318098x^{10} - 44645975x^9 - 49052190x^8 + 2791885635x^7 + 3985523410x^6 - 86272254277x^5 - 154379495600x^4 + 1243769161580x^3 + 2627444418280x^2 - 6367550744720x - 14786736066784$ | | | | |
| $x^{15} + 50x^{14} + 50x^{13} + 45x^{12} + 25x^{11} - 55x^{10} + 25x^9 + 50x^8 + 35x^5 - 50x^4 + 25x^3 + 50x^2 + 25x - 20$ | | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15,25 | $\frac{722}{375}$ |
| $x^{15} - 55x^{13} - 1100x^{12} + 9845x^{11} - 69476x^{10} + 359975x^9 + 1024870x^8 - 19919625x^7 + 68930070x^6 + 13235827x^5 - 626834450x^4 + 903622555x^3 + 1168218700x^2 - 4304746820x - 4226627768$ | | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}_3^2$ | T: 15,1 | $\frac{26}{15}$ |
| $x^{15} + 10x^{12} - 10$ | | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} - 10x^{14} - 10x^{13} - 5x^{12} + 10x^5 - 10$ | $x^{15} - 5x^{13} - 40x^{12} - 170x^{11} + 49x^{10} + 5975x^9 + 24270x^8 + 51710x^7 + 124855x^6 - 139498x^5 + 939050x^4 + 6074880x^3 - 860385x^2 - 14913705x + 8995157$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} + 10x^{14} + 10x^{13} - 10x^{12} + 5x^{10} - 5$ | $x^{15} - 10x^{13} - 60x^{12} - 360x^{11} + 1671x^{10} - 7650x^9 - 2290x^8 + 40860x^7 + 553710x^6 + 1226547x^5 + 1048700x^4 - 8605340x^3 - 25931040x^2 - 44984290x - 32508527$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} + 5x^{14} - 10x^{13} - 5x^{12} + 10x^{10} - 5x^5 + 10$ | $x^{15} + 45x^{13} - 110x^{12} + 1130x^{11} - 5957x^{10} + 16475x^9 - 48160x^8 - 53020x^7 + 303385x^6 - 838542x^5 + 1141350x^4 + 2070170x^3 - 1344535x^2 - 3937495x - 1653709$ | $\begin{bmatrix} 4 & 4 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15, 25 | $\frac{698}{375}$ |
| $x^{15} + 10x^{14} + 5x^{13} + 10x^{12} + 10x^5 - 5$ | $x^{15} + 80x^{13} - 130x^{12} + 370x^{11} + 49x^{10} + 3950x^9 - 18970x^8 + 27020x^7 - 37580x^6 + 88667x^5 - 227150x^4 + 501370x^3 - 664370x^2 + 438030x - 111283$ | $\begin{bmatrix} 4 & 4 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15, 25 | $\frac{698}{375}$ |
| $x^{15} + 30x^{14} + 35x^{13} + 60x^{12} + 50x^{11} - 60x^{10} - 25x^9 + 50x^8 - 50x^7 - 50x^6 + 45x^5 - 25x^4 + 25x^3 - 25x^2 - 50x - 35$ | $x^{15} - 5x^{13} - 20x^{12} - 65x^{11} - 107x^{10} - 275x^9 - 610x^8 - 1540x^7 - 2805x^6 - 3137x^5 - 2900x^4 + 45x^3 + 480x^2 + 210x + 331$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{15} + 25x^{13} + 60x^{12} + 25x^{11} +$ $40x^{10} + 25x^9 + 50x^8 - 50x^7 +$ $25x^6 + 50x^4 + 25x^3 + 50x^2 - 60$ | $x^{15} - 330x^{13} - 110x^{12} + 39930x^{11} +$ $22528x^{10} - 2150775x^9 - 1062985x^8 +$ $50654230x^7 - 12331715x^6 -$ $520346222x^5 + 590265225x^4 +$ $1667070845x^3 - 3317164785x^2 +$ $1182866355x + 350280601$ | $\begin{bmatrix} 4 & 4 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{698}{375}$ |
| $x^{15} + 10x^{14} - 5x^{13} + 5x^{12} -$ $5x^{10} + 10x^5 + 10$ | $x^{15} + 30x^{13} - 30x^{12} + 255x^{11} - 334x^{10} -$ $2100x^9 + 3220x^8 - 21045x^7 + 9120x^6 +$ $100202x^5 - 88450x^4 + 51445x^3 +$ $198030x^2 - 189780x + 148348$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15, 25 | $\frac{722}{375}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} - 10x^{14} - 5x^{13} + 5x^{12} + 5x^5 + 5$ | $x^{15} - 8875x^{13} - 171820x^{12} +$ $20524325x^{11} + 588069712x^{10} -$ $15290991325x^9 - 625669764200x^8 +$ $1134993197990x^7 +$ $231781903854100x^6 +$ $1835748781440568x^5 -$ $21469602109121300x^4 -$ $353693404299355900x^3 -$ $1342612218673683520x^2 -$ $122153750136840000x +$ 764685871595928304 | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 2 \end{bmatrix}_3^2$ | T: 15,25 | $\frac{722}{375}$ |
| | Continued on next page | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--------------------------------|--|--|----------|-------------------|
| $x^{15} - 10x^{12} + 5x^5 + 5$ | $x^{15} - 40x^{13} - 130x^{12} - 380x^{11} +$ $471x^{10} - 7150x^9 + 1290x^8 +$ $79630x^7 + 248230x^6 + 408227x^5 -$ $292800x^4 - 2726760x^3 - 8357720x^2 -$ $14142620x - 8872657$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15,25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} - 23785x^{13} - 602435x^{12} +$ $154111535x^{11} + 4302148227x^{10} -$ $424398387325x^9$ $9703257092705x^8$ $554801398886570x^7$ $7762243146893455x^6$ $312997950932265962x^5$ $1826871601301108175x^4$ $56823789340393845990x^3$ $35222840983977643260x^2$ $2393014505918467858515x$ 7635608722742556689199 | + - - + + - - + - - + | $\begin{bmatrix} 4 & 4 & 2 \\ 3 & 3 & 2 \end{bmatrix}_3^2$ | T: 15,25 | $\frac{698}{375}$ |
| $x^{15} + 5x^{14} + 5x^{13} + 5x^{12} -$ $5x^{10} + 5x^5 + 5$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} - 55x^{13} - 35x^{12} + 55x^{11} - 16192x^{10} - 468875x^9 + 3728615x^8 - 11257235x^7 + 27655155x^6 - 23393172x^5 - 178853125x^4 - 3001405x^3 + 147168670x^2 + 10468315x - 32661409$ | $x^{15} - 55x^{13} - 605x^{12} + 8140x^{11} - 16192x^{10} - 468875x^9 + 3728615x^8 - 11257235x^7 + 27655155x^6 - 23393172x^5 - 178853125x^4 - 3001405x^3 + 147168670x^2 + 10468315x - 32661409$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 15x^{14} + 30x^{13} - 55x^{12} - 50x^{11} + 35x^{10} + 25x^8 - 50x^7 + 25x^6 + 25x^5 - 25x^4 + 50x^3 + 25x^2 + 25x - 45$ | $x^{15} - 1045x^{13} - 7040x^{12} + 317900x^{11} + 4225892x^{10} - 11122925x^9 - 459181085x^8 - 2388802570x^7 + 1552756700x^6 + 47244936783x^5 + 122474360800x^4 + 8429728780x^3 - 307546503440x^2 - 254952517600x + 41853326944$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} + 5x^{14} + 10x^{13} - 10x^{12} + 5x^5 + 5$ | $x^{15} - 25x^{13} - 60x^{12} - 50x^{11} - 1695x^{10} - 14175x^9 - 61100x^8 - 193300x^7 - 457125x^6 - 898240x^5 - 1729000x^4 - 3251800x^3 - 4506325x^2 - 3415175x - 1025045$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} + 45x^{14} - 50x^{13} + 30x^{12} - 50x^{11} - 20x^{10} + 25x^9 + 50x^8 + 25x^7 - 25x^6 - 30x^5 + 25x^4 + 25x^3 - 50x^2 + 25x + 45$ | $x^{15} - 1045x^{13} - 9075x^{12} + 305745x^{11} + 4749778x^{10} - 14653100x^9 - 646767990x^8 - 2744407050x^7 + 21177945140x^6 + 194113512263x^5 + 140633992400x^4 - 3014682284020x^3 - 9426600396400x^2 - 2107092896480x + 15365755821856$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{15} - 60x^{14} - 55x^{13} + 20x^{12} - 25x^{11} + 5x^{10} + 25x^8 + 25x^6 - 35x^5 + 25x^4 + 25x^3 + 25x^2 - 50x + 30$ | $x^{15} - 165x^{13} - 605x^{12} + 5170x^{11} + 65703x^{10} + 344850x^9 - 484605x^8 - 9194185x^7 - 41830910x^6 - 190890447x^5 + 9117350x^4 + 2123291060x^3 + 9080308270x^2 + 11474278145x - 7464499559$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 5x^{14} + 5x^{13} + 10x^{12} - 10x^5 - 10$ | $x^{15} - 1045x^{13} - 8910x^{12} + 311025x^{11} + 5120258x^{10} - 3000800x^9 - 535000290x^8 - 3457045020x^7 + 398685925x^6 + 65217980333x^5 + 104950281700x^4 - 449285199220x^3 - 730448487560x^2 + 1428014460400x + 391792861856$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|-----------|-------------------|
| $x^{15} - 2475x^{13} - 8910x^{12} +$ $2396625x^{11} + 13640099x^{10} -$ $1143319925x^9 - 7422938600x^8 +$ $270371116840x^7 +$ $1252955208725x^6 -$ $36212364482283x^5 -$ $49041490472150x^4 +$ $2455223062372025x^3 -$ $3452476243949040x^2 -$ $63239777268176300x +$ 205024840694341657 | | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 45x^{14} + 20x^{13} + 40x^{12} -$ $25x^{11} - 15x^{10} + 25x^8 + 50x^7 +$ $25x^6 + 60x^5 + 50x^4 - 25x^3 +$ $25x^2 + 60$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} + 30x^{14} - 15x^{12} - 50x^{11} +$ $50x^{10} - 25x^8 - 50x^7 - 25x^6 +$ $10x^5 - 25x^4 - 25x^3 + 25x^2 -$ $50x + 40$ | $x^{15} - 5x^{13} - 35x^{12} - 80x^{11} - 63x^{10} -$ $200x^9 - 365x^8 - 1005x^7 - 990x^6 -$ $137x^5 + 200x^4 + 270x^3 - 210x^2 -$ $405x - 81$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} + 20x^{14} - 45x^{13} - 60x^{12} -$ $25x^{11} + 55x^{10} - 50x^8 - 40x^5 -$ $25x^4 + 25x^2 - 25x + 60$ | $x^{15} - 55x^{13} - 715x^{12} + 9020x^{11} -$ $26092x^{10} - 311575x^9 + 4040190x^8 -$ $19036930x^7 + 44463265x^6 +$ $8256798x^5 - 560949950x^4 +$ $1743769720x^3 - 2057646140x^2 +$ $1362937345x - 382807579$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 15x^{14} + 25x^{13} - 55x^{12} -$ $25x^{11} - 45x^{10} - 50x^8 + 50x^7 +$ $30x^5 + 25x^4 + 25x^3 - 25x + 55$ | $x^{15} - 5x^{13} - 25x^{11} - 7x^{10} - 125x^9 -$ $160x^8 + 500x^7 + 525x^6 + 2603x^5 -$ $2000x^4 + 1595x^3 - 5000x^2 + 5500x -$ 999 | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} + 35x^{14} + 55x^{13} - 55x^{12} -$ $20x^{10} - 50x^9 + 50x^7 - 50x^6 -$ $50x^4 - 50x^3 + 25x^2 - 50x - 45$ | $x^{15} - 55x^{13} - 770x^{12} + 3960x^{11} +$ $13398x^{10} - 18150x^9 + 709665x^8 -$ $6593290x^7 - 52127405x^6 -$ $254659262x^5 - 859692900x^4 -$ $878832680x^3 - 1689731120x^2 +$ $383540960x - 17973824$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}^2_3$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 10x^{14} + 10x^{13} + 10x^{12} +$ $10x^{10} + 10x^5 + 5$ | $x^{15} + 50x^{13} - 190x^{12} + 750x^{11} -$ $3169x^{10} + 7450x^9 + 18800x^8 -$ $59960x^7 - 20650x^6 + 126517x^5 +$ $27150x^4 - 90800x^3 - 72610x^2 -$ $41700x - 13597$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}^4_3$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|-----------|-------------------|
| $x^{15} - 1045x^{13} - 660x^{12} + 394515x^{11} + 171842x^{10} - 69015375x^9 + 17943090x^8 + 5952715395x^7 - 6270453530x^6 - 238089787837x^5 + 389767378000x^4 + 3582204126380x^3 - 7106182326760x^2 - 5265848822960x + 3230991937184$ | | | | |
| $x^{15} + 25x^{14} - 55x^{12} + 50x^{11} - 35x^{10} - 25x^9 - 50x^8 - 25x^7 - 25x^6 + 15x^5 + 50x^3 - 25x^2 - 25x - 45$ | | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 55x^{13} - 55x^{12} + 8690x^{11} + 10208x^{10} - 620125x^9 - 1686135x^8 + 4363865x^7 + 13265230x^6 - 44474397x^5 - 53739125x^4 + 575817220x^3 - 1285919030x^2 + 1355809840x - 463705759$ | | | | |
| $x^{15} + 10x^{14} - 5x^{13} - 10x^{12} + 10x^{10} - 10x^5 + 10$ | | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{15} + 25x^{14} - 40x^{13} + 40x^{12} +$ $50x^{11} - 45x^{10} + 25x^8 - 15x^5 +$ $50x^4 - 50x^3 - 50x + 60$ | $x^{15} - 15x^{13} - 20x^{12} + 65x^{11} + 223x^{10} +$ $25x^9 - 430x^8 - 90x^7 + 455x^6 - 267x^5 -$ $850x^4 + 385x^3 + 1030x^2 - 410x - 59$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 40x^{14} - 40x^{13} + 60x^{12} +$ $50x^{11} + 10x^{10} + 50x^9 - 50x^8 +$ $50x^7 - 15x^5 - 25x^4 + 25x^3 +$ $50x^2 - 50x + 40$ | $x^{15} - 165x^{13} - 605x^{12} + 9790x^{11} +$ $93577x^{10} - 148225x^9 - 5202395x^8 -$ $11563365x^7 + 119886195x^6 +$ $703403008x^5 - 832407400x^4 -$ $14998959140x^3 - 5373220380x^2 +$ $103430199840x + 87624074384$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} + 10x^{14} + 5x^{13} - 5x^{12} -$ $5x^5 + 5$ | $x^{15} - 75x^{13} + 1635x^{11} - 66x^{10} -$ $13250x^9 + 3225x^8 + 45450x^7 -$ $24390x^6 - 61068x^5 + 57750x^4 +$ $12925x^3 - 34650x^2 + 15015x - 2123$ | $\begin{bmatrix} 4 & 4 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{698}{375}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} - 5x^{12} + 10x^{10} - 10$ | $x^{15} + 25x^{13} - 50x^{12} + 210x^{11} -$ $2543x^{10} - 8125x^9 - 21700x^8 -$ $10100x^7 + 191905x^6 + 380418x^5 +$ $347000x^4 + 563250x^3 - 53025x^2 -$ $682015x + 264809$ | $\begin{bmatrix} 4 & 4 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15, 25 | $\frac{698}{375}$ |
| $x^{15} - 60x^{14} + 20x^{13} - 35x^{12} +$ $25x^{11} + 20x^{10} - 25x^7 + 25x^6 -$ $30x^5 + 25x^4 - 50x^3 + 50x^2 - 15$ | $x^{15} - 55x^{13} - 110x^{12} + 6820x^{11} +$ $59642x^{10} - 114950x^9 - 5840065x^8 -$ $55802780x^7 - 310983915x^6 -$ $1164541752x^5 - 2981839300x^4 -$ $5021703280x^3 - 5108058560x^2 -$ $2152599680x + 692631104$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} + 30x^{14} - 60x^{13} - 55x^{12} - 35x^{10} - 25x^9 + 25x^7 + 50x^6 - 50x^4 + 25x^3 - 50x^2 + 25x + 30$ | $x^{15} - 55x^{13} - 770x^{12} + 3740x^{11} + 23342x^{10} - 211750x^9 - 401115x^8 + 4578640x^7 + 23679095x^6 + 14237828x^5 - 310788500x^4 - 3469757280x^3 - 9849825920x^2 + 5921139840x + 20729611584$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 20x^{14} - 45x^{13} - 20x^{12} - 50x^{11} - 35x^{10} - 25x^9 - 25x^8 - 50x^7 - 10x^5 - 25x^4 - 50x^3 + 25x^2 + 25x - 30$ | $x^{15} - 95x^{13} - 170x^{12} + 2445x^{11} + 5906x^{10} - 22925x^9 - 69580x^8 + 48645x^7 + 303880x^6 + 227067x^5 - 210100x^4 - 412005x^3 - 242330x^2 - 60720x - 5192$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|----------|-------------------|
| $x^{15} - 2475x^{13} - 5170x^{12} + 2248015x^{11} + 2871374x^{10} - 944973700x^9 - 1117265600x^8 + 201847750830x^7 + 309722621890x^6 - 22226057834948x^5 + 45900759320350x^4 + 1065965557731525x^3 + 1613398585074320x^2 + 19474788718499840x + 1563502452604928$ | | | | |
| $x^{15} - 5x^{14} - 5x^{13} - 5x^{12} + 5x^{10} + 10x^5 + 5$ | | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 2 \end{bmatrix}_3^2$ | T: 15,25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} + 5x^{12} - 10x^{10} - 10x^5 + 5$ | $x^{15} + 285x^{13} - 760x^{12} + 29735x^{11} -$ $150537x^{10} + 1660600x^9 - 8214555x^8 +$ $28322255x^7 + 73741470x^6 -$ $1472203847x^5 + 41285349850x^4 +$ $60720257760x^3 - 374361407810x^2 +$ $552643793835x - 768504521429$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} + 5x^{14} + 5x^{13} - 5x^{12} +$ $5x^{10} + 10$ | $x^{15} + 5x^{13} - 50x^{12} - 350x^{11} - 316x^{10} +$ $10625x^9 + 33680x^8 + 122000x^7 +$ $565050x^6 + 291437x^5 - 349750x^4 +$ $2199045x^3 + 2898050x^2 + 1689950x +$ 685942 | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{15} + 50x^{14} - 40x^{13} + 45x^{12} +$ $25x^{11} - 45x^{10} - 25x^8 - 25x^7 +$ $50x^6 - 30x^5 + 25x^4 - 25x^3 +$ $50x^2 - 45$ | $x^{15} - 165x^{13} - 770x^{12} + 12815x^{11} +$ $100298x^{10} - 359975x^9 - 6126230x^8 -$ $5504290x^7 + 187541530x^6 +$ $608136683x^5 - 2142377600x^4 -$ $13033904015x^3 - 12684523170x^2 +$ $23586438040x + 34972206016$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \quad \begin{array}{c} 5 \\ 3 \end{array} \quad \begin{array}{c} 2 \\ 2 \end{array} \right]_3$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} + 60x^{14} - 25x^{13} - 5x^{12} +$ $50x^{11} + 20x^{10} + 50x^8 + 50x^7 +$ $25x^6 - 55x^5 - 25x^4 + 50x^3 +$ $50x - 20$ | $x^{15} - 55x^{13} - 275x^{12} + 7700x^{11} -$ $38852x^{10} - 166375x^9 + 3432165x^8 -$ $26302375x^7 + 119115425x^6 -$ $305901552x^5 + 27784625x^4 +$ $3276582595x^3 - 14929893550x^2 +$ $33723846475x - 30569994059$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \quad \begin{array}{c} 5 \\ 3 \end{array} \quad \begin{array}{c} 2 \\ 2 \end{array} \right]_3$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} + 15x^{14} + 30x^{13} - 45x^{12} -$ $50x^{11} + 45x^{10} - 25x^9 + 25x^8 +$ $50x^7 - 50x^6 - 35x^5 - 25x^4 +$ $50x^3 + 25x^2 - 55$ | $x^{15} - 165x^{13} - 660x^{12} + 10835x^{11} +$ $100793x^{10} - 245025x^9 - 5932630x^8 -$ $9222620x^7 + 166380445x^6 +$ $697559313x^5 - 2167733150x^4 -$ $14720746865x^3 + 9336818590x^2 +$ $84853592560x + 65947005091$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \quad \begin{array}{c} 5 \\ 3 \end{array} \quad 2 \right]_3^2$ | T: 15, 25 | $\frac{722}{375}$ |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} + 10x^{14} - 10x^{13} + 5x^{12} + 10x^{10} + 5x^5 + 5$ | $x^{15} - 13430x^{13} - 38710x^{12} +$ $64740105x^{11} + 325453298x^{10} -$ $140666835150x^9 - 954913940960x^8 +$ $142956132276955x^7 +$ $999011903227185x^6 -$ $63876347995613557x^5 -$ $304207394322585525x^4 +$ $9489379202712851595x^3 -$ $22720398856709718085x^2 -$ $51156699864541945295x +$ 140038042172178492646 | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 2 \end{bmatrix}_3^2$ | T: 15,25 | $\frac{722}{375}$ |
| | Continued on next page | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} - 30x^{14} - 60x^{13} - 60x^{12} -$ $50x^{11} - 50x^9 + 25x^8 - 25x^6 +$ $55x^5 - 25x^4 + 50x^3 - 25x^2 +$ $50x + 35$ | $x^{15} - 550x^{13} - 495x^{12} + 79915x^{11} -$ $139601x^{10} - 4410450x^9 +$ $19193625x^8 + 57006730x^7 -$ $468101810x^6 + 457602277x^5 +$ $1954939525x^4 - 3336983375x^3 -$ $2168970980x^2 + 3536813060x +$ 2058673672 | $\left[\begin{array}{c} 5 \\ 3 \end{array} \quad \begin{array}{c} 5 \\ 3 \end{array} \quad 2 \right]_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|----------|-------------------|
| $x^{15} - 23785x^{13} - 332635x^{12} + 173759720x^{11} + 1691056203x^{10} - 596893971850x^9 - 1125740971795x^8 + 1025840946758705x^7 - 4509114555629035x^6 - 849065927592212627x^5 + 6139100412180723900x^4 + 325072693111836034365x^3 - 2435355081128305679310x^2 - 46103390294485483430955x + 261951673989581521762311$ | | | | |
| $x^{15} - 10x^{14} + 5x^{13} + 10x^{12} - 5x^{10} + 5x^5 + 10$ | | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 15,25 | $\frac{698}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} - 10x^{14} + 10x^{13} - 5x^{12} - 10x^5 + 5$ | $x^{15} - 330x^{13} - 110x^{12} + 40755x^{11} +$ $25828x^{10} - 2332275x^9 - 2061235x^8 +$ $62406355x^7 + 68453935x^6 -$ $720250322x^5 - 1021409400x^4 +$ $2762650220x^3 + 4924886340x^2 +$ $764699430x - 296785049$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \right]_3^2$ | T: 15, 25 | $\frac{698}{375}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|----------|-------------------|
| $x^{15} - 220x^{13} - 22165x^{12} -$ $759385x^{11} + 11953843x^{10} +$ $86847750x^9 - 1396529365x^8 -$ $33408557380x^7 - 228329594845x^6 +$ $2524034918273x^5 +$ $43366111596500x^4 -$ $349808720931120x^3 -$ $4438129618920965x^2 +$ $15694964055865490x +$ 88686599536044191 | | $\left[\begin{array}{c} 4 \\ 3 \end{array} \frac{4}{3} \frac{2}{3} \right]_3^2$ | T: 15,25 | $\frac{698}{375}$ |
| $x^{15} + 45x^{14} - 5x^{13} + 20x^{12} -$ $25x^{11} - 40x^{10} + 50x^9 + 25x^8 +$ $25x^7 + 50x^6 + 5x^5 + 50x^4 -$ $50x^2 + 25x + 55$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} - 5x^{14} + 10x^{13} - 5x^{12} + 10x^5 + 5$ | $x^{15} - 55x^{13} - 275x^{12} + 3300x^{11} - 1848x^{10} - 45375x^9 - 301290x^8 - 5765650x^7 + 56921425x^6 - 188005202x^5 + 410280750x^4 - 1991681780x^3 - 10335215000x^2 + 34045349525x + 30785150209$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} + 35x^{14} + 45x^{13} - 45x^{12} - 25x^{11} - 20x^{10} - 25x^9 + 50x^8 + 50x^7 + 50x^6 - 35x^5 + 50x^4 + 50x^3 + 25x^2 - 30$ | $x^{15} - 1045x^{13} - 1705x^{12} + 404030x^{11} + 1168552x^{10} - 71054225x^9 - 247912060x^8 + 5707199135x^7 + 17236379215x^6 - 208919814477x^5 - 366613168900x^4 + 2863311327580x^3 + 930972635120x^2 - 608334509120x - 3508850262016$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|-----------|-------------------|
| $x^{15} + 285x^{13} - 95x^{12} + 30400x^{11} - 89490x^{10} + 1236425x^9 - 17318975x^8 - 44375925x^7 - 710908275x^6 + 4325368430x^5 + 43866734500x^4 + 501472807350x^3 + 2695691428275x^2 + 10864957110100x + 20232632896305$ | | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---------------------------------------|--|----------|-------------------|
| $x^{15} + 10x^{14} - 5x^{13} - 10x^{12} + 5x^5 - 10$ | $x^{15} - 8875x^{13} - 44020x^{12} +$ | | | |
| | $22002900x^{11} + 16646660x^{10} -$ | | | |
| | $21229289325x^9 + 79946479250x^8 +$ | | | |
| | $8073717522300x^7 -$ | | | |
| | $63112300961850x^6 -$ | | | |
| | $1002254165377335x^5 +$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 2 \end{bmatrix}_3^2$ | T: 15,25 | $\frac{722}{375}$ |
| | $11432068089334250x^4 +$ | | | |
| | $10273253998588225x^3 -$ | | | |
| | $399082915470001300x^2 +$ | | | |
| | $647863042752721500x +$ | | | |
| | 2017290032988330580 | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{15} - 45x^{14} + 45x^{13} + 15x^{12} + 50x^{11} - 5x^{10} - 50x^7 - 50x^6 - 55x^5 + 25x^4 + 25x^3 - 25x^2 - 40$ | $x^{15} + 275x^{13} - 55x^{12} - 435985x^{11} - 1731279x^{10} - 120812450x^9 + 1649130175x^8 + 47579920080x^7 + 144380453085x^6 + 93487830337x^5 + 3941936151725x^4 - 5841004755575x^3 + 22108738687255x^2 - 21615375333365x + 5995577749293$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 5x^{14} - 5x^{13} + 10x^{12} - 5x^{10} - 5$ | $x^{15} - 15x^{13} - 30x^{12} - 490x^{11} + 1199x^{10} - 2175x^9 + 16960x^8 + 161520x^7 - 539215x^6 + 1083892x^5 + 2097100x^4 - 12565410x^3 + 5234705x^2 + 35411565x - 41592523$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} - 55x^{13} + 10x^{12} + 10x^{11} - 5x^{10} + 10x^5 - 10$ | $x^{15} - 55x^{13} - 605x^{12} + 8360x^{11} - 22198x^{10} - 366025x^9 + 3374085x^8 - 5489165x^7 - 23921095x^6 + 111220538x^5 - 574625975x^4 + 2148693195x^3 - 3792325130x^2 + 4972462935x - 2807506251$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 35x^{14} + 40x^{13} + 45x^{12} + 50x^{11} + 40x^{10} - 50x^9 + 50x^8 + 25x^7 - 25x^6 + 50x^5 + 25x^4 + 50x^3 + 25x^2 + 25x - 20$ | $x^{15} - 550x^{13} - 3300x^{12} + 61435x^{11} + 441496x^{10} - 2813250x^9 - 22197450x^8 + 57765400x^7 + 515791540x^6 - 434208863x^5 - 5483720000x^4 - 146077250x^3 + 23185920175x^2 + 4321477490x - 34717906487$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{15} - 10x^{13} + 10x^{12} - 10x^{10} - 5x^5 - 10$ | $x^{15} - 1045x^{13} - 1540x^{12} + 364265x^{11} +$ $715858x^{10} - 51425000x^9 -$ $95927590x^8 + 2828752520x^7 +$ $2639161855x^6 - 59816736837x^5 +$ $8692095500x^4 + 286806515380x^3 -$ $55466550040x^2 - 321248775760x -$ 112991337184 | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 10x^{14} + 5x^{13} - 10x^{12} - 5x^5 - 5$ | $x^{15} - 50x^{13} - 305x^{12} - 225x^{11} +$ $4080x^{10} + 15675x^9 + 5250x^8 -$ $130575x^7 - 494275x^6 - 1193155x^5 -$ $2516125x^4 - 3511175x^3 -$ $3327000x^2 - 4732500x - 4175540$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^4$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} - 15x^{14} - 45x^{13} - 35x^{12} + 50x^{11} + 50x^{10} + 50x^9 - 25x^8 + 50x^7 - 25x^6 - 35x^5 - 50x^4 + 25x^2 - 40$ | $x^{15} + 275x^{13} - 14575x^{12} - 527615x^{11} - 767569x^{10} - 87362000x^9 - 416981125x^8 + 8650447300x^7 - 60660528885x^6 + 1211814769737x^5 + 8377660891875x^4 + 10638539218725x^3 + 568387014421325x^2 + 218055303673515x + 28662803138123$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} + 25x^{13} - 430x^{12} - 4485x^{11} - 26479x^{10} - 212325x^9 - 777575x^8 - 2773620x^7 - 8800040x^6 - 10380688x^5 - 8853525x^4 + 7689300x^3 + 49612230x^2 - 67133365x + 21935443$ | | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 5x^{14} - 5x^{13} + 5x^{12} - 10x^5 - 5$ | | | | |
| $x^{15} - 10x^{14} - 60x^{13} - 5x^{12} - 50x^9 - 50x^6 - 55x^5 + 50x^4 + 25x^2 + 50x - 20$ | $x^{15} - 55x^{13} - 385x^{12} + 9020x^{11} - 38258x^{10} - 447700x^9 + 5760810x^8 - 31581605x^7 + 110979385x^6 - 281955652x^5 + 463121450x^4 - 506951280x^3 + 342353165x^2 - 75906930x - 8972271$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} + 15x^{14} - 10x^{13} - 30x^{12} - 50x^{11} + 10x^{10} - 50x^9 - 25x^8 - 50x^7 + 50x^6 - 50x^5 - 50x^4 - 25x^3 + 25x^2 - 50x + 30$ | $x^{15} - 15x^{13} + 55x^{11} - 38x^{10} + 75x^9 + 380x^8 - 450x^7 - 510x^6 + 343x^5 - 2200x^4 - 1965x^3 + 3200x^2 + 2580x - 416$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} + 35x^{14} - 45x^{13} - 30x^{12} - 25x^{11} - 35x^{10} + 25x^9 - 50x^8 + 50x^7 - 50x^6 + 60x^5 + 25x^3 + 25x^2 + 25x + 30$ | $x^{15} - 330x^{13} - 660x^{12} + 39105x^{11} + 142813x^{10} - 1969275x^9 - 10328560x^8 + 35550405x^7 + 287938860x^6 + 66760298x^5 - 2589493775x^4 - 5061899480x^3 - 852685185x^2 + 2744329005x - 213384589$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} + 20x^{14} + 10x^{13} - 10x^{12} +$ $50x^{11} - 45x^{10} + 50x^7 + 50x^6 +$ $25x^5 - 25x^4 - 50x + 60$ | $x^{15} - 165x^{13} - 275x^{12} + 10230x^{11} +$ $37213x^{10} - 66550x^9 - 3261555x^8 -$ $6694325x^7 + 84604410x^6 +$ $107609293x^5 - 582379050x^4 -$ $701490240x^3 - 1724377050x^2 +$ $646406805x + 223822291$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS | |
|-----------------------------------|--|--|----------|-------------------|--|
| $x^{15} - 10x^{13} + 5x^{12} + 5$ | $x^{15} - 11850x^{13} - 90060x^{12} +$ | | | | |
| | $53413875x^{11} + 716057264x^{10} -$ | | | | |
| | $112988936300x^9 -$ | | | | |
| | $1942864490600x^8 +$ | | | | |
| | $115171115773815x^7 +$ | | | | |
| | $2171874740280000x^6 -$ | | | | |
| | $57167940173123738x^5 -$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 2 \end{bmatrix}_3^2$ | T: 15,25 | $\frac{722}{375}$ | |
| | $1106219575183781900x^4 +$ | | | | |
| | $13000074307086750725x^3 +$ | | | | |
| | $249611971661631625760x^2 -$ | | | | |
| | $1088747828898868360400x -$ | | | | |
| | 20258472996422241317808 | | | | |
| | Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|-----------|-------------------|
| $x^{15} - 1045x^{13} - 1375x^{12} + 369820x^{11} + 388278x^{10} - 59619725x^9 - 25069990x^8 + 4713848425x^7 - 1376506285x^6 - 174171192987x^5 + 177136001900x^4 + 2392916494980x^3 - 4242746178000x^2 + 22480483520x + 1396462541056$ | | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} + 20x^{14} + 5x^{13} - 35x^{12} + 50x^{11} + 20x^{10} - 25x^9 - 25x^7 - 50x^6 - 25x^4 + 25x^3 - 50x^2 + 60$ | | | | |
| $x^{15} - 295x^{13} - 340x^{12} + 28565x^{11} + 54248x^{10} - 1072500x^9 - 2773265x^8 + 13275295x^7 + 51763855x^6 + 4775408x^5 - 165815375x^4 - 164265970x^3 + 64712010x^2 + 125433440x + 32651971$ | | $\begin{bmatrix} 4 & 4 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{698}{375}$ |
| $x^{15} - 55x^{14} - 15x^{13} - 5x^{12} - 25x^{11} + 20x^{10} + 50x^9 - 25x^8 - 25x^7 + 25x^6 + 40x^5 + 25x^3 + 50x^2 + 50x - 20$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} - 220x^{13} - 23540x^{12} -$ $176550x^{11} + 7866540x^{10} -$ $20001300x^9 + 5300344500x^8 +$ $20098937925x^7 - 1473863865100x^6 -$ $11710004609600x^5 -$ $5511782804000x^4 +$ $3536959382154000x^3 +$ $19911115235915200x^2 -$ $198384317008451200x +$ 535972082784765440 | | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15,25 | $\frac{722}{375}$ |
| $x^{15} + 25x^{14} - 45x^{13} + 15x^{12} +$ $50x^{11} + 10x^{10} - 25x^9 - 25x^8 +$ $50x^7 - 25x^5 - 50x^4 - 50x^2 + 60$ | | | | |
| $x^{15} - 15x^{14} + 15x^{13} + 55x^{12} +$ $25x^{11} + 35x^{10} + 50x^9 - 25x^8 +$ $50x^7 + 50x^6 + 30x^5 - 50x^3 +$ $25x^2 + 45$ | $x^{15} - 15x^{13} - 15x^{12} + 60x^{11} + 157x^{10} +$ $225x^9 - 45x^8 - 995x^7 - 1145x^6 -$ $312x^5 + 900x^4 + 660x^3 + 460x^2 +$ $160x - 16$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15,25 | $\frac{722}{375}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} - 5x^{14} - 5x^{13} + 45x^{12} +$ $50x^{11} + 50x^8 + 25x^6 - 55x^5 +$ $50x^4 + 50x^3 + 50x^2 - 50x + 30$ | $x^{15} - 205x^{13} - 285x^{12} + 13655x^{11} +$ $24656x^{10} - 401775x^9 - 705595x^8 +$ $5714060x^7 + 8289270x^6 -$ $37313188x^5 - 37909300x^4 +$ $82577055x^3 + 58317160x^2 +$ $664895x - 2051797$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 35x^{14} - 20x^{13} - 30x^{12} +$ $25x^{11} + 20x^{10} + 25x^9 + 50x^8 +$ $25x^7 - 25x^6 + 30x^5 + 50x^3 -$ $50x^2 - 25x + 55$ | $x^{15} - 550x^{13} - 3135x^{12} + 39380x^{11} +$ $254397x^{10} - 883300x^9 - 6391825x^8 +$ $5940495x^7 + 59273665x^6 -$ $4679917x^5 - 217884700x^4 -$ $69810950x^3 + 241296990x^2 +$ $180623355x + 29387149$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} - 55x^{14} - 50x^{13} + 30x^{12} - 30x^{10} - 50x^9 - 50x^8 + 25x^7 - 50x^6 + 50x^5 + 50x^3 + 50x^2 + 50x + 45$ | $x^{15} - 55x^{13} - 1100x^{12} + 7370x^{11} + 49049x^{10} - 93775x^9 - 215380x^8 - 13473350x^7 + 14232020x^6 - 20644173x^5 - 852938075x^4 + 3853784055x^3 - 12009246975x^2 + 35555708430x - 34096630293$ | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}_3$ | T: 15,1 | $\frac{26}{15}$ |
| $x^{15} + 35x^{14} - 60x^{13} - 5x^{12} + 50x^{11} + 45x^{10} - 50x^9 - 50x^6 + 60x^5 - 50x^4 - 25x^2 - 50x + 55$ | $x^{15} - 330x^{13} - 1265x^{12} + 35805x^{11} + 277222x^{10} - 744150x^9 - 15241765x^8 - 59425520x^7 - 50071010x^6 + 215427553x^5 + 505314150x^4 + 117287720x^3 - 453225465x^2 - 200408670x + 89282149$ | $\begin{bmatrix} 4 & 4 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3$ | T: 15,25 | $\frac{698}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} - 23785x^{13} - 568710x^{12} +$ $175539690x^{11} + 6779867816x^{10} -$ $497951366275x^9$ $25865050468015x^8$ $478518120271510x^7$ $38695347933005060x^6$ $47851941741568162x^5$ $20833525745849560425x^4$ $136871020805851738065x^3$ $4224740936206683329910x^2$ $22589220267258532102710x$ 311675054110077221061597 | + - - + + + - - + + - - + + - | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 15,25 | $\frac{698}{375}$ |
| $x^{15} - 10x^{13} - 10x^{12} - 10x^{10} -$ $10x^5 - 10$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} - 60x^{14} + 30x^{13} - 45x^{12} -$ $50x^{11} + 20x^{10} + 50x^9 - 25x^8 -$ $25x^7 - 35x^5 + 25x^4 - 25x^2 + 20$ | $x^{15} - 165x^{13} - 110x^{12} + 11935x^{11} +$ $27918x^{10} - 517275x^9 - 1274130x^8 +$ $17960030x^7 + 29266270x^6 -$ $358825137x^5 + 233723600x^4 -$ $410167615x^3 + 8315409190x^2 -$ $16944481840x + 9298813216$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} + 5x^{14} + 10x^{12} + 10x^{10} -$ $5x^5 - 10$ | $x^{15} - 165x^{13} - 495x^{12} + 7040x^{11} +$ $65923x^{10} + 199650x^9 - 2087855x^8 -$ $15961715x^7 - 10771420x^6 +$ $225946083x^5 + 1068659900x^4 -$ $1571498390x^3 - 9187919620x^2 +$ $16809418615x + 9591866141$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{15} - 45x^{14} - 10x^{13} - 15x^{12} -$ $25x^{11} + 30x^{10} - 50x^9 + 50x^8 -$ $25x^6 + 5x^5 - 25x^2 + 50x - 60$ | $x^{15} - 165x^{13} - 880x^{12} + 10065x^{11} +$ $107327x^{10} - 12100x^9 - 3826020x^8 -$ $11415140x^7 + 42748695x^6 +$ $101186008x^5 - 1512049275x^4 -$ $6870375765x^3 - 3414753705x^2 +$ $14543823690x + 2212905959$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} + 5x^{14} - 20x^{13} + 20x^{12} +$ $35x^{10} + 25x^9 - 50x^8 - 25x^7 -$ $25x^6 + 60x^5 + 25x - 45$ | $x^{15} - 5x^{13} - 5x^{12} + 40x^{11} + 108x^{10} -$ $660x^8 - 2285x^7 - 4345x^6 - 5622x^5 -$ $5000x^4 - 2480x^3 - 105x^2 + 540x + 191$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} - 25x^{14} + 40x^{13} + 45x^{12} +$ $25x^{11} - 60x^{10} + 25x^9 - 25x^8 -$ $50x^7 - 25x^6 - 5x^5 + 25x^4 +$ $50x^3 + 50x^2 + 25x + 55$ | $x^{15} - 55x^{13} - 385x^{12} + 9570x^{11} -$ $43758x^{10} - 281325x^9 + 4626435x^8 -$ $29827105x^7 + 112724810x^6 -$ $180046427x^5 - 598850175x^4 +$ $4762477720x^3 - 14103821710x^2 +$ $21480835970x - 13547105671$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 2 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|-----------|-------------------|
| $x^{15} + 275x^{13} - 16555x^{12} - 551320x^{11} -$ $5858721x^{10} - 157883825x^9 -$ $1614875075x^8 - 10014202605x^7 -$ $193490403645x^6 - 199395274793x^5 -$ $1055866960225x^4 -$ $26036546001125x^3 +$ $609587978907655x^2 +$ $979200258316720x +$ 11557037308192827 | | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 5x^{14} + 5x^{13} + 10x^{12} -$ $5x^{10} - 10$ | | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} - 55x^{13} - 10x^{12} + 5x^{10} + 5x^5 + 10$ | $x^{15} - 55x^{13} - 55x^{12} + 7040x^{11} + 19558x^{10} - 589875x^9 - 2215510x^8 + 14421990x^7 + 66308605x^6 - 76857022x^5 - 698775000x^4 - 1148160530x^3 + 1766063970x^2 + 15435161115x + 16977651691$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 20x^{14} - 25x^{13} + 45x^{12} - 10x^{10} + 25x^9 - 50x^8 + 50x^7 + 25x^6 - 40x^5 - 50x^4 + 25x^2 - 50x - 20$ | $x^{15} - 1045x^{13} - 5445x^{12} + 342705x^{11} + 3365098x^{10} - 29838600x^9 - 457790190x^8 - 40449090x^7 + 19086389960x^6 + 61537280123x^5 - 180618829600x^4 - 1237872352420x^3 - 2077660014320x^2 - 1103366417120x - 183061565984$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{15} - 30x^{14} + 25x^{13} + 5x^{12} -$ $50x^{11} + 10x^{10} - 25x^8 + 25x^7 -$ $50x^6 + 35x^5 + 25x^3 + 50x^2 +$ $25x + 45$ | $x^{15} - 1045x^{13} - 3080x^{12} + 364705x^{11} +$ $1550802x^{10} - 54401600x^9 -$ $259921310x^8 + 3665230360x^7 +$ $19457612515x^6 - 99718996377x^5 -$ $635640212900x^4 + 440703656580x^3 +$ $6520016528520x^2 +$ $7876097839280x - 1196817013216$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^2 \left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^2$ | T: 15, 25 | $\frac{722}{375}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|-----------|-------------------|
| $x^{15} - 1045x^{13} - 10340x^{12} + 288475x^{11} + 5523342x^{10} + 3971825x^9 - 598346210x^8 - 4948494045x^7 - 3156641950x^6 + 135270246683x^5 + 610804950800x^4 + 382749520780x^3 - 2433697350040x^2 - 2412805388400x + 3110781554144$ | | | | |
| $x^{15} - 60x^{14} + 55x^{13} + 40x^{12} - 50x^{11} - 60x^{10} + 25x^8 + 25x^7 + 50x^6 - 10x^5 - 25x^4 + 25x^3 + 50x^2 - 50x + 35$ | | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 165x^{13} - 715x^{12} + 9460x^{11} + 96107x^{10} - 139150x^9 - 4427995x^8 - 5141895x^7 + 113023680x^6 + 189208063x^5 - 1643252600x^4 - 2979829490x^3 + 14302606560x^2 + 2023632435x - 18945668291$ | | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} + 10x^{14} - 45x^{13} + 20x^{12} +$ $25x^{11} + 25x^{10} + 50x^9 - 50x^8 -$ $50x^7 - 50x^6 + 50x^5 + 50x^2 +$ $50x - 45$ | $x^{15} - 95x^{13} - 275x^{12} + 1645x^{11} +$ $6278x^{10} - 9100x^9 - 47415x^8 +$ $8150x^7 + 132665x^6 + 30023x^5 -$ $120725x^4 - 17820x^3 + 28875x^2 +$ $2145x - 1859$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} + 45x^{14} + 30x^{13} - 30x^{12} +$ $40x^{10} + 25x^9 - 50x^8 + 50x^6 -$ $55x^5 - 50x^4 + 50x^3 + 25x^2 -$ $25x - 20$ | $x^{15} - 330x^{13} - 440x^{12} + 40480x^{11} +$ $99022x^{10} - 2211275x^9 - 7407015x^8 +$ $50097630x^7 + 210075965x^6 -$ $296931822x^5 - 1780844725x^4 -$ $688799155x^3 + 2182354185x^2 +$ $1674271555x + 160290999$ | $\begin{bmatrix} 4 & 4 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{698}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{15} - 5x^{14} - 10x^{13} + 20x^{12} - 25x^{11} - 25x^{10} - 50x^9 + 50x^8 - 25x^6 - 40x^5 - 20$ | $x^{15} - 330x^{13} - 110x^{12} + 40755x^{11} + 25003x^{10} - 2332275x^9 - 1743610x^8 + 62497105x^7 + 39096310x^6 - 749798522x^5 - 305165025x^4 + 3735943970x^3 + 803611215x^2 - 5443916445x - 1307014049$ | $\left[\begin{array}{c} 4 \\ 3 \end{array} \quad \begin{array}{c} 4 \\ 3 \end{array} \quad \begin{array}{c} 2 \\ 2 \end{array} \right]_3^2$ | T: 15, 25 | $\frac{698}{375}$ |
| $x^{15} + 10x^{14} + 10x^{12} - 10x^{10} + 5x^5 - 10$ | $x^{15} - 1045x^{13} - 4950x^{12} + 326370x^{11} + 2318272x^{10} - 38777475x^9 - 358061385x^8 + 1700963550x^7 + 22904296910x^6 - 4114816387x^5 - 582269109400x^4 - 1053101069020x^3 + 4596937523200x^2 + 13256878618720x + 3186120413344$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \quad \begin{array}{c} 5 \\ 3 \end{array} \quad \begin{array}{c} 2 \\ 2 \end{array} \right]_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|-----------|-------------------|
| $x^{15} - 220x^{13} - 14135x^{12} -$ $360525x^{11} + 2009843x^{10} -$ $62547925x^9 + 4617194835x^8 +$ $3807949255x^7 - 222355680250x^6 +$ $6565543388723x^5 -$ $367709231827300x^4 +$ $3442924360169580x^3 -$ $36602212492300510x^2 +$ $472569543947213350x -$ 1279839595092222439 | | $\left[\begin{array}{ccc} 4 & 4 & 2 \\ 3 & 3 & 2 \end{array} \right]_3^2$ | T: 15, 25 | $\frac{698}{375}$ |
| $x^{15} - 25x^{14} - 55x^{13} + 15x^{12} +$ $25x^{11} - 45x^{10} + 25x^9 + 25x^7 -$ $45x^5 - 50x^4 + 50x^3 + 50x^2 +$ $25x + 60$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{15} + 20x^{14} - 35x^{13} + 20x^{12} +$ $50x^{11} - 20x^{10} + 25x^9 - 25x^7 -$ $50x^6 - 60x^5 + 25x^3 + 50x^2 + 55$ | $x^{15} - 55x^{13} - 55x^{12} + 5060x^{11} +$ $20702x^{10} - 411400x^9 - 2479290x^8 +$ $8716235x^7 + 76018855x^6 +$ $6597888x^5 - 492270350x^4 -$ $2136627680x^3 - 5440535705x^2 +$ $20226687910x + 42358847399$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 55x^{14} + 60x^{13} - 35x^{12} -$ $50x^{11} - 50x^{10} + 50x^9 + 25x^8 -$ $50x^6 - 45x^5 - 25x^3 + 50x^2 +$ $50x + 35$ | $x^{15} - 5x^{13} - 15x^{12} + 20x^{11} + 58x^{10} -$ $75x^9 - 335x^8 + 95x^7 + 915x^6 - 2x^5 -$ $575x^4 - 2355x^3 - 2690x^2 + 1245x +$ 1521 | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|----------|-------------------|
| $x^{15} + 275x^{13} - 6765x^{12} -$ $457875x^{11} - 5128959x^{10} -$ $302778300x^9 - 1908917175x^8 -$ $73423484860x^7 - 374277717275x^6 -$ $7434639994903x^5 -$ $37227589808475x^4 -$ $229777054595275x^3 -$ $1314021962232485x^2 -$ $1801324133573525x -$ 423872620258307 | | $\left[\begin{array}{c} 5 \\ 3 \end{array} \ 5 \ 2 \right]_3^2$ | T: 15,25 | $\frac{722}{375}$ |
| $x^{15} - 5x^{14} + 10x^{13} + 10x^{12} +$ $50x^{11} - 40x^{10} + 50x^9 - 50x^8 +$ $50x^7 + 50x^6 + 25x^5 + 50x^3 -$ $25x^2 - 50x + 40$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{15} + 40x^{14} + 55x^{13} - 5x^{12} -$ $50x^{11} - 5x^{10} + 50x^9 - 25x^8 -$ $25x^7 - 25x^6 - 50x^5 - 25x^4 +$ $25x^3 - 25x^2 - 25x - 20$ | $x^{15} - 550x^{13} - 5115x^{12} + 26565x^{11} +$ $401357x^{10} - 187550x^9 - 10986800x^8 -$ $4424970x^7 + 137754870x^6 +$ $42738773x^5 - 782727825x^4 +$ $87746175x^3 + 1481682510x^2 -$ $561395835x - 226856971$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 2 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--------------------------------------|------------------------|--|----------|-------------------|
| $x^{15} + 275x^{13} - 13200x^{12} -$ | | | | |
| $475365x^{11} - 4656531x^{10} -$ | | | | |
| $179322000x^9 - 955234500x^8 +$ | | | | |
| $1936792550x^7 - 103062986015x^6 +$ | | | | |
| $1779180209312x^5 +$ | | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 2 \end{bmatrix}_3^2$ | T: 15,25 | $\frac{722}{375}$ |
| $60x^{10} - 50x^8 - 25x^7 - 60x^5 -$ | | | | |
| $25x^4 - 50x^3 + 25x^2 + 50x + 40$ | | | | |
| | $14839964535000x^4$ | | | |
| | $28995541714150x^3 +$ | | | |
| | $161857369413025x^2 -$ | | | |
| | $839075383918310x +$ | | | |
| | 986242155189577 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} - 40x^{14} + 50x^{13} + 15x^{12} - 25x^{11} + 55x^{10} - 25x^9 + 50x^8 - 25x^7 + 25x^6 - 55x^5 + 50x^4 + 50x^3 + 50x^2 - 50x - 40$ | $x^{15} - 205x^{13} - 150x^{12} + 13070x^{11} + 696x^{10} - 371525x^9 + 342430x^8 + 4582050x^7 - 8675645x^6 - 14598298x^5 + 46896575x^4 - 33005170x^3 + 5665825x^2 + 650980x + 12463$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 2 \end{bmatrix}_3$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} + 20x^{14} + 15x^{13} - 30x^{12} + 50x^{11} + 20x^{10} + 50x^9 - 50x^8 - 50x^7 + 50x^6 + 25x^5 + 50x^4 + 50x^3 + 25x^2 + 55$ | $x^{15} + 25x^{13} - 160x^{12} - 4225x^{11} + 13859x^{10} - 89300x^9 - 19950x^8 + 1315940x^7 - 2230125x^6 + 12860872x^5 - 12869650x^4 + 26028100x^3 - 15979665x^2 + 8772300x - 3596643$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 2 \end{bmatrix}_3$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|---------|-----------------|
| $x^{15} - 55x^{13} - 330x^{12} + 2750x^{11} -$ $x^{15} + 15x^{14} + 15x^{13} + 10x^{12} -$ | $10219x^{10} - 251075x^9 + 1201530x^8 +$ $16707680x^7 + 21901000x^6 -$ | $\left[\begin{matrix} 2 \\ 2 \end{matrix} \right]_3$ | T: 15,1 | $\frac{26}{15}$ |
| $50x^{11} + 35x^{10} - 25x^9 + 25x^8 -$ $50x^7 - 25x^6 - 15x^5 + 50x^2 +$ | $586431703x^5 - 483519025x^4 -$ $1219588645x^3 - 7560206445x^2 +$ | | | |
| $50x + 40$ | $228001564450x - 316546801307$ | | | |
| | | | | |
| | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} - 25x^{14} + 55x^{13} + 30x^{12} - 50x^{11} - 25x^{10} + 25x^9 - 50x^8 - 50x^6 - 20x^5 + 25x^4 + 50x^2 + 25x - 55$ | $x^{15} + 275x^{13} - 8745x^{12} - 386760x^{11} + 280929x^{10} - 80867325x^9 + 1186111575x^8 + 48502336355x^7 + 23007782765x^6 + 556219859987x^5 + 12246646497525x^4 + 31572138664825x^3 + 256563740743145x^2 + 304059144536840x + 1353869701656857$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|----------|-------------------|
| $x^{15} - 55x^{13} - 55x^{12} + 3410x^{11} + 10252x^{10} - 63525x^9 + 167585x^8 - 7951515x^7 - 81114770x^6 - 320032537x^5 - 1179232725x^4 - 2178554180x^3 + 6307702170x^2 + 19727097060x - 10079291651$ | $x^{15} - 55x^{13} - 55x^{12} + 3410x^{11} + 10252x^{10} - 63525x^9 + 167585x^8 - 7951515x^7 - 81114770x^6 - 320032537x^5 - 1179232725x^4 - 2178554180x^3 + 6307702170x^2 + 19727097060x - 10079291651$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15,25 | $\frac{722}{375}$ |
| $x^{15} + 5x^{14} + 5x^{13} - 10x^{12} + 10x^{10} - 10x^5 + 10$ | $x^{15} - 55x^{13} - 1375x^{12} + 10670x^{11} + 42801x^{10} - 260150x^9 - 2386120x^8 - 6479550x^7 + 92269155x^6 + 44783552x^5 - 1058710675x^4 + 1367642430x^3 + 627865975x^2 - 1902924045x + 860029643$ | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}_3$ | T: 15,1 | $\frac{26}{15}$ |
| $x^{15} - 35x^{14} - 60x^{13} - 40x^{12} + 25x^{11} - 40x^{10} - 50x^9 + 25x^7 + 50x^6 + 60x^5 + 25x^4 - 50x^3 + 25x^2 + 25x + 15$ | $x^{15} - 35x^{14} - 60x^{13} - 40x^{12} + 25x^{11} - 40x^{10} - 50x^9 + 25x^7 + 50x^6 + 60x^5 + 25x^4 - 50x^3 + 25x^2 + 25x + 15$ | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} + 5x^{14} + 5x^{13} + 35x^{12} - 50x^{11} + 35x^{10} - 50x^9 + 25x^8 - 25x^7 + 50x^5 - 50x^3 - 50x^2 + 25x + 15$ | $x^{15} + 25x^{13} - 145x^{12} - 3495x^{11} + 11721x^{10} - 133950x^9 + 449825x^8 - 739480x^7 + 3668045x^6 + 12287357x^5 + 18762975x^4 + 111142875x^3 + 135355145x^2 + 259882095x + 460471023$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} + 55x^{14} - 50x^{13} - 45x^{12} + 35x^{10} + 50x^9 + 50x^8 - 25x^5 + 50x^4 - 25x^3 - 25x^2 - 25x - 55$ | $x^{15} - 330x^{13} - 385x^{12} + 37730x^{11} + 83303x^{10} - 1772650x^9 - 5781985x^8 + 30604530x^7 + 137823235x^6 - 79446422x^5 - 869509025x^4 - 539893530x^3 + 1061425915x^2 + 703906005x + 78690051$ | $\begin{bmatrix} 4 & 4 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{698}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} - 1045x^{13} - 3850x^{12} + 373945x^{11} +$ $1967922x^{10} - 62266600x^9 -$ $378465010x^8 + 5167631700x^7 +$ $33729026485x^6 - 203281627087x^5 -$ $1373143319900x^4 +$ $3042743969980x^3 +$ $20821658486200x^2 -$ $5615179249680x - 44295326188256$ | | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} + 25x^{14} - 15x^{12} + 50x^{11} -$ $25x^{10} - 50x^9 - 50x^8 - 50x^7 -$ $50x^6 + 30x^5 + 50x^3 - 50x^2 +$ $25x - 35$ | $x^{15} - 295x^{13} - 580x^{12} + 32805x^{11} +$ $110457x^{10} - 1703350x^9 - 7570860x^8 +$ $42287410x^7 + 237912015x^6 -$ $415747552x^5 - 3469723400x^4 -$ $554732970x^3 + 18806569595x^2 +$ $24338300580x + 3537440929$ | $\begin{bmatrix} 4 & 4 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{698}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} - 15x^{13} + 45x^{12} - 50x^{11} -$ $25x^{10} - 25x^9 + 50x^8 + 50x^7 +$ $35x^5 - 25x^2 - 25x + 55$ | $x^{15} - 550x^{13} - 2860x^{12} + 40700x^{11} +$ $152724x^{10} - 1231175x^9 - 1932975x^8 +$ $15734840x^7 - 5935050x^6 -$ $50018133x^5 + 66516725x^4 -$ $11047300x^3 - 24011240x^2 +$ $13542925x - 1933943$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 25x^{14} + 55x^{13} + 35x^{12} +$ $50x^{10} + 25x^9 - 50x^8 - 50x^6 -$ $45x^5 + 50x^4 - 25x^3 + 25x - 35$ | $x^{15} - 1045x^{13} - 2090x^{12} + 399190x^{11} +$ $1391808x^{10} - 66716375x^9 -$ $288665465x^8 + 4632687070x^7 +$ $20524979530x^6 - 113316602487x^5 -$ $535406729000x^4 + 335206999380x^3 +$ $2532703678560x^2 - 162495081760x -$ 3120582825184 | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} - 5x^{14} - 10x^{13} + 10x^{12} + 10x^{10} - 10$ | $x^{15} - 5x^{13} - 5x^{12} - 60x^{11} - 137x^{10} - 500x^9 - 1185x^8 - 1435x^7 - 1820x^6 - 2067x^5 - 1000x^4 - 230x^3 + 20x^2 + 415x + 191$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 5x^{14} + 10x^{13} - 5x^{12} + 5$ | $x^{15} - 550x^{13} - 2255x^{12} + 45980x^{11} + 274054x^{10} - 750200x^9 - 6515850x^8 + 1902120x^7 + 56628605x^6 + 28057117x^5 - 173495850x^4 - 135628900x^3 + 71780830x^2 + 43151020x - 6126593$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-------------------|
| $x^{15} - 1045x^{13} - 5335x^{12} + 338965x^{11} +$ $3201792x^{10} - 29070250x^9 -$ $448179160x^8 - 803613030x^7 +$ $8941279270x^6 + 34947395813x^5 -$ $15278549000x^4 - 198686382620x^3 -$ $194293204160x^2 + 28163747040x +$ 64660065184 | | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^2 \left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} - 45x^{14} + 20x^{13} - 15x^{12} -$ $25x^{11} + 55x^{10} - 25x^9 + 25x^8 +$ $15x^5 + 50x^4 - 50x^2 - 35$ | | | | |
| $x^{15} - 50x^{14} + 5x^{13} - 20x^{12} -$ $50x^{11} - 5x^{10} + 25x^9 - 50x^8 +$ $50x^6 - 10x^5 - 25x^4 + 50x^2 +$ $25x + 20$ | $x^{15} - 330x^{13} - 990x^{12} + 36905x^{11} +$ $218812x^{10} - 1213025x^9 -$ $13160565x^8 - 22366245x^7 +$ $109615715x^6 + 498488298x^5 +$ $717608650x^4 + 348615520x^3 -$ $55489390x^2 - 65578370x - 2037761$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^2 \left[\begin{array}{c} 5 \\ 3 \end{array} \right]_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---------------------------------------|--|-----------|-------------------|
| $x^{15} - 220x^{13} - 3520x^{12} -$ | $363550x^{11} + 5519800x^{10} -$ | | | |
| $151939700x^9 + 6230580400x^8 -$ | $73624346675x^7 + 1633730747000x^6 -$ | | | |
| $25x^{11} + 10x^{10} - 50x^9 + 25x^8 +$ | $21456982262320x^5 -$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 2 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $50x^7 - 25x^6 + 30x^5 + 25x^4 -$ | $87740776464000x^4 +$ | | | |
| $50x^3 - 25x^2 - 55$ | $1439814231666800x^3 -$ | | | |
| | $53222247577734400x^2 +$ | | | |
| | $1108283768151507200x -$ | | | |
| | 3842281406732257280 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} - 165x^{13} - 110x^{12} + 9185x^{11} - 4807x^{10} - 169400x^9 + 1750870x^8 + 4365680x^7 - 48461105x^6 - 142462012x^5 - 1084132775x^4 - 7922664365x^3 - 6605400285x^2 + 30772200910x + 7199393641$ | | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 2 \end{bmatrix}_3$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} + 35x^{14} - 35x^{13} + 5x^{12} - 25x^{11} - 40x^{10} - 50x^9 + 25x^8 + 25x^7 - 50x^6 - 45x^5 + 25x^4 + 50x^3 + 50x^2 + 50x - 30$ | $x^{15} - 165x^{13} - 880x^{12} + 8195x^{11} + 104203x^{10} + 238975x^9 - 2012230x^8 - 15519460x^7 - 40121785x^6 - 134310847x^5 - 881321650x^4 - 2675463065x^3 + 2014029270x^2 + 6646375120x - 4021468759$ | | | |
| $x^{15} + 5x^{14} + 5x^{13} - 5x^{12} + 10x^{10} + 5x^5 + 5$ | | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 2 \end{bmatrix}_3$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|----------|-------------------|
| $x^{15} + 275x^{13} - 5610x^{12} - 414975x^{11} -$ $916641x^{10} - 247889675x^9 +$ $415141925x^8 - 46015151710x^7 +$ $77968056100x^6 - 2288882496428x^5 +$ $402639445725x^4$ | $+ 156980902290850x^3$ $+ 56413444083810x^2$ $+ 6734471751925225x$ $+ 37018677547975607$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15,25 | $\frac{722}{375}$ |
| $x^{15} - 25x^{14} - 20x^{13} + 10x^{12} +$ $10x^{10} + 25x^9 + 25x^7 + 50x^6 -$ $20x^5 + 50x^3 + 25x^2 + 25x - 35$ | | | | |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} - 10x^{14} + 10x^{13} + 5x^{12} + 5x^5 - 5$ | $x^{15} - 165x^{13} - 275x^{12} + 11330x^{11} +$ $41987x^{10} - 414425x^9 - 610445x^8 +$ $15388175x^7 + 9687865x^6 -$ $329530432x^5 + 188735800x^4 +$ $2046359260x^3 - 404490900x^2 -$ $9581496320x + 9436875184$ | $\left[\begin{array}{c} 5 \\ 3 \end{array} \frac{5}{3} \frac{2}{3} \right]_3^2$ | T: 15, 25 | $\frac{722}{375}$ |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|----------|-------------------|
| $x^{15} - 220x^{13} - 31680x^{12} -$ $702350x^{11} + 13718760x^{10} +$ $276158300x^9 + 2671050800x^8 -$ $58287209475x^7 - 1691949267800x^6 -$ $6432297931840x^5 +$ $51173164636000x^4 +$ $632162085759600x^3 +$ $5842969758524800x^2 +$ $36164688415820800x +$ 111480749099540480 | | $\left[\begin{array}{c} 5 \\ 3 \end{array} \begin{array}{c} 5 \\ 3 \end{array} \begin{array}{c} 2 \\ 2 \end{array} \right]_3^2$ | T: 15,25 | $\frac{722}{375}$ |
| $x^{15} + 10x^{14} - 40x^{13} - 45x^{12} +$ $25x^{11} + 40x^{10} - 50x^9 + 25x^8 -$ $25x^6 + 5x^5 + 50x^2 + 50x + 20$ | | | | |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} - 40x^{14} + 5x^{13} - 55x^{12} + 50x^{11} - 55x^{10} + 50x^9 + 25x^6 + 50x^5 + 25x^4 - 50x^3 + 25x + 30$ | $x^{15} - 220x^{13} - 16060x^{12} - 752950x^{11} - 7219740x^{10} + 29124700x^9 + 6496913500x^8 + 183176203925x^7 + 525186064700x^6 - 38849768018160x^5 - 552127507008000x^4 - 1024694153071600x^3 + 37073239768171200x^2 + 339102053730704000x + 952697928989058560$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 2 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} - 20x^{14} + 10x^{13} + 45x^{12} - 25x^{11} + 50x^{10} + 25x^8 - 25x^7 + 25x^6 - 35x^5 - 50x^4 + 50x^3 - 25x^2 - 25x + 30$ | $x^{15} - 330x^{13} - 165x^{12} + 36630x^{11} + 36597x^{10} - 1621400x^9 - 2960265x^8 + 26774880x^7 + 76673465x^6 - 84377172x^5 - 561315975x^4 - 845358030x^3 - 581001465x^2 - 186333345x - 22322201$ | $\begin{bmatrix} 4 & 4 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{698}{375}$ |
| $x^{15} - 55x^{14} - 5x^{13} - 10x^{12} + 25x^{11} - 5x^{10} - 50x^9 + 25x^8 - 25x^7 - 50x^6 - 45x^5 + 25x^3 - 50x^2 + 35$ | $x^{15} - 75x^{13} - 140x^{12} + 1750x^{11} + 5991x^{10} - 8925x^9 - 59125x^8 - 32860x^7 + 167200x^6 + 241407x^5 - 16225x^4 - 154275x^3 - 24860x^2 + 26400x + 3113$ | $\begin{bmatrix} 4 & 4 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{698}{375}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} - 550x^{13} - 5115x^{12} + 25850x^{11} + 401126x^{10} + 84700x^9 - 8760400x^8 - 7872260x^7 + 80879425x^6 + 65379567x^5 - 304932100x^4 - 226669300x^3 + 365678940x^2 + 329355950x + 45457643$ | $x^{15} - 550x^{13} - 5115x^{12} + 25850x^{11} + 401126x^{10} + 84700x^9 - 8760400x^8 - 7872260x^7 + 80879425x^6 + 65379567x^5 - 304932100x^4 - 226669300x^3 + 365678940x^2 + 329355950x + 45457643$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |
| $x^{15} + 5x^{14} + 35x^{13} + 45x^{12} - 30x^{10} - 50x^9 - 25x^8 - 25x^6 + 60x^5 + 25x^4 - 50x^3 + 25x^2 + 25x + 30$ | $x^{15} - 165x^{13} - 770x^{12} + 7095x^{11} + 89122x^{10} + 269225x^9 - 105270x^8 - 7382210x^7 - 51810990x^6 - 120873797x^5 - 20763600x^4 + 864664185x^3 + 2643006630x^2 - 3562394880x + 931785184$ | $\begin{bmatrix} 5 & 5 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15, 25 | $\frac{722}{375}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|----------|-------------------|
| $x^{15} - 20x^{14} + 40x^{13} - 15x^{12} +$ $50x^{11} + 20x^{10} + 25x^9 - 50x^8 +$ $25x^7 + 25x^6 - 40x^5 + 50x^4 +$ $50x^3 - 50x^2 + 25x - 35$ | $x^{15} - 5x^{13} - 40x^{12} + 80x^{11} + 39x^{10} -$ $25x^9 - 330x^8 - 340x^7 + 1530x^6 +$ $717x^5 - 1825x^4 - 845x^3 - 35x^2 -$ $230x + 7$ | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}_3$ | T: 15,1 | $\frac{26}{15}$ |
| $x^{15} + 10x^{14} - 35x^{13} + 20x^{12} -$ $50x^{11} - 5x^{10} + 25x^9 + 50x^8 -$ $25x^7 + 10x^5 - 25x^4 - 25x^3 + 30$ | $x^{15} - 330x^{13} - 110x^{12} + 36905x^{11} +$ $24178x^{10} - 1636525x^9 - 1365485x^8 +$ $26783955x^7 + 32383835x^6 -$ $121336622x^5 - 132634150x^4 +$ $161876220x^3 + 169356440x^2 -$ $49872570x - 53677899$ | $\begin{bmatrix} 4 & 4 & 2 \\ 3 & 3 & 3 \end{bmatrix}_3^2$ | T: 15,25 | $\frac{698}{375}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-------------------|
| $x^{15} - 585x^{13} + 136890x^{11} -$ $29328x^{10} - 16312725x^9 +$ $11437920x^8 + 1041048450x^7 -$ $1561276080x^6 - 33612300657x^5 +$ $86985381600x^4 + 396597046365x^3 -$ $1696214941200x^2 +$ $1686591026640x - 185420753856$ | | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $x^{15} + 35x^{14} - 5x^{13} - 25x^{12} -$ $25x^{11} - 25x^{10} - 25x^7 + 25x^6 +$ $40x^5 + 25x^4 - 50x^3 + 40$ | $x^{15} + 15x^{13} + 90x^{11} - 2x^{10} + 275x^9 -$ $20x^8 + 450x^7 - 70x^6 + 383x^5 - 100x^4 +$ $165x^3 - 50x^2 + 40x - 4$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $x^{15} - 5x^{14} - 20x^{13} - 25x^{12} -$ $50x^{10} - 25x^9 - 25x^8 - 25x^7 -$ $50x^6 - 50x^5 - 50x^4 + 50x^3 +$ $25x^2 - 25x + 20$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-------------------|
| $x^{15} + 10x^{14} - 10x^{13} - 10x^{10} + 5x^5 + 10$ | $x^{15} + 210x^{13} - 2940x^{12} +$ $26425x^{11} - 370972x^{10} + 2905700x^9 -$ $16019080x^8 + 171914295x^7 -$ $547477000x^6 + 2450325458x^5 -$ $19554464300x^4 + 66866321935x^3 -$ $115554566540x^2 - 477111490800x +$ 5366977153216 | $\left[\begin{array}{c} 7 \\ 4 \end{array} \frac{25}{12} \frac{25}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------------------|--|-----------|-------------------|
| $x^{15} - 1410x^{13} - 42300x^{12} +$ | $1138575x^{11} + 46215100x^{10} -$ | | | |
| $20985500x^9 - 25595683000x^8 -$ | $152599100625x^7 +$ | | | |
| $x^{15} - 45x^{14} + 10x^{13} + 25x^{12} -$ | $9224230424600x^6 +$ | | | |
| $50x^{11} + 45x^{10} + 50x^9 + 50x^8 +$ | $83510272045950x^5 -$ | $\left[\begin{matrix} 25 & 25 \\ 12 & 12 \end{matrix} \right]_{12}^2$ | T: 15, 19 | $\frac{611}{300}$ |
| $50x^7 + 50x^6 + 35x^5 - 50x^4 +$ | $2209233057231500x^4 -$ | | | |
| $50x^2 + 25x + 30$ | $42924366063633375x^3 -$ | | | |
| | $253461714650159700x^2 -$ | | | |
| | $432761578585424000x +$ | | | |
| | 334744652645864960 | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{15} + 10x^{14} + 5x^{13} + 10x^5 - 5$ | $x^{15} - 585x^{13} + 136890x^{11} - 11232x^{10} -$ | $\left[\begin{array}{cc} 25 & 25 \\ 12 & 12 \end{array} \right]_{12}^2$ | T: 15, 19 | $\frac{611}{300}$ |
| | $16312725x^9 + 4380480x^8 +$ | | | |
| | $1041048450x^7 - 597935520x^6 -$ | | | |
| | $34133861697x^5 + 33313550400x^4 +$ | | | |
| | $498301449165x^3 - 649614232800x^2 -$ | | | |
| $2279880682560x + 3659507677696$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|----------------------------------|--|-----------|-------------------|
| $x^{15} - 1765x^{13} + 1119515x^{11} -$ | $1291561x^{10} - 330021900x^9 +$ | | | |
| $1013939810x^8 + 47471960575x^7 -$ | $255032945960x^6 -$ | | | |
| $x^{15} + 35x^{14} + 30x^{13} - 25x^{11} +$ | $2898365898103x^5 +$ | $\left[\begin{matrix} 25 & 25 \\ 12 & 12 \end{matrix} \right]_{12}^2$ | T: 15, 19 | $\frac{611}{300}$ |
| $10x^{10} - 50x^9 + 25x^8 + 50x^7 +$ | $24417941648425x^4 -$ | | | |
| $25x^6 - 55x^5 - 25x^4 - 50x^2 + 15$ | $25414427981540x^3 -$ | | | |
| | $740168584766650x^2 +$ | | | |
| | $2366746882227585x -$ | | | |
| | 2225017432534923 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-------------------|
| $x^{15} - 10x^{14} - 10x^{13} + 10x^{10} + 10x^5 - 10$ | $x^{15} - 100110x^{13} - 19020900x^{12} +$ $4730447775x^{11} + 1819790703580x^{10} +$ $84647027753500x^9 -$ $37764386989656200x^8 -$ $6421625689323714225x^7 +$ $616480975355256515800x^6 +$ $128948953881700098182770x^5 -$ $19442911545012129604436500x^4 -$ $2597001901637977093747221775x^3 +$ $66628533029078556264135402700x^2 +$ $4754630604623110835989934692000x -$ $119080599080914198095838973061760$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \frac{25}{12} \frac{25}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{15} - 20x^{13} - 25x^{12} + 25x^{11} -$ $40x^{10} - 25x^7 + 25x^6 + 5x^5 -$ $50x^4 + 50x^3 + 25x^2 + 50x + 5$ | $x^{15} - 15x^{13} + 90x^{11} - 4x^{10} - 275x^9 +$ $40x^8 + 450x^7 - 140x^6 - 368x^5 +$ $200x^4 + 90x^3 - 100x^2 + 35x - 7$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $x^{15} - 10x^{14} - 60x^{13} - 50x^{12} +$ $10x^{10} + 50x^9 + 50x^8 - 50x^6 -$ $30x^5 - 25x^3 + 25x^2 - 50x + 30$ | $x^{15} - 10x^{13} - 900x^{12} + 8725x^{11} -$ $26820x^{10} + 21000x^9 - 137200x^8 -$ $233800x^7 + 13826400x^6 -$ $37580200x^5 - 23618000x^4 -$ $36372700x^3 - 315383600x^2 +$ $519870400x - 118478080$ | $\left[\begin{array}{c} 25 \\ 12 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 19 | $\frac{611}{300}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-------------------|
| $x^{15} + 420x^{13} - 5460x^{12} + 110460x^{11} -$ | $x^{15} + 420x^{13} - 5460x^{12} + 110460x^{11} -$ | | | |
| $1682016x^{10} + 29926750x^9 -$ | $1682016x^{10} + 29926750x^9 -$ | | | |
| $26171880x^8 + 5003067090x^7 -$ | $26171880x^8 + 5003067090x^7 -$ | | | |
| $25x^{11} - 40x^{14} + 35x^{13} + 25x^{12} -$ | $7210823340x^6 - 244261812648x^5 +$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $25x^{11} - 25x^{10} - 50x^9 + 25x^8 +$ | $3988696236000x^4 -$ | | | |
| $25x^7 + 25x^6 + 60x^5 + 25x^4 +$ | $2023061562095x^3 -$ | | | |
| $25x^3 - 50x - 55$ | $23081673888840x^2 +$ | | | |
| | $29584482812640x + 75752413394112$ | | | |
| $x^{15} + 15x^{13} + 90x^{11} - 8x^{10} + 275x^9 -$ | $x^{15} + 15x^{13} + 90x^{11} - 8x^{10} + 275x^9 -$ | | | |
| $80x^8 + 450x^7 - 280x^6 + 398x^5 -$ | $80x^8 + 450x^7 - 280x^6 + 398x^5 -$ | | | |
| $400x^4 + 240x^3 - 200x^2 + 115x - 31$ | $400x^4 + 240x^3 - 200x^2 + 115x - 31$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|-------------------------------------|--|-----------|-------------------|
| x^{15} | $- 7060x^{13} +$ | | | |
| $17912240x^{11} - 30190732x^{10} -$ | $21121401600x^9 + 68528607680x^8 +$ | | | |
| $12152821907200x^7 -$ | $43912811496320x^6 -$ | | | |
| $x^{15} + 5x^{14} - 5x^{13} - 5x^{10} + 5$ | $3449018645577232x^5 +$ | $\left[\begin{matrix} 7 & 25 \\ 4 & 12 \end{matrix} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| | $11168705519046400x^4 +$ | | | |
| | $449320913682155840x^3 -$ | | | |
| | $1296567876749516800x^2 -$ | | | |
| | $21170154019403900160x +$ | | | |
| | 54905929314559317696 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{15} - 55x^{14} - 60x^{13} + 25x^{12} -$ $25x^{11} - 55x^{10} + 50x^8 + 25x^7 -$ $50x^6 - 5x^5 - 25x^4 + 50x + 10$ | $x^{15} - 40x^{13} + 450x^{11} - 600x^{10} -$ $1000x^9 - 600x^8 - 25175x^7 + 96600x^6 +$ $35800x^5 - 3000x^4 - 2121450x^3 -$ $2728400x^2 + 474400x + 926720$ | $\left[\begin{array}{cc} 25 & 25 \\ 12 & 12 \end{array} \right]_{12}^2$ | T: 15, 19 | $\frac{611}{300}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| | $x^{15} - 2840x^{13} - 14200x^{12} +$ $2637650x^{11} + 19215440x^{10} +$ $862011000x^9 - 44987900400x^8 -$ $2686975874375x^7 +$ $94342244426000x^6 -$ | | | |
| $x^{15} + 5x^{14} - 10x^{13} - 5x^{10} - 10$ | $140221806383080x^5 -$ $33329354140455000x^4 +$ $683587215167380950x^3 -$ $6832773020045705600x^2 +$ $37187540423218638400x -$ 91453411648365829120 | $\left[\begin{array}{c} 7 \\ 4 \end{array} \frac{25}{12} \frac{25}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|-----------|-------------------|
| $x^{15} - 2940x^{13} - 90440x^{12} +$ $2004800x^{11} + 131773488x^{10} +$ $1142057700x^9 - 67004311080x^8 -$ $1120608041630x^7 +$ $4168078101600x^6 +$ $492712685112928x^5 -$ $5639022154866800x^4 -$ $14820574282098340x^3 -$ $261712485067579840x^2 +$ $8878019976447647200x -$ 59473552781486577664 | | $\left[\begin{array}{c} 7 \\ 4 \end{array} \frac{25}{12} \frac{25}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $x^{15} - 20x^{14} + 35x^{13} + 25x^{12} -$ $25x^{11} - 45x^{10} + 50x^9 - 50x^8 +$ $50x^7 - 50x^6 - 55x^5 + 25x^4 -$ $25x + 40$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-------------------|
| $x^{15} - 10x^{14} - 10x^{13} + 10x^{10} + 10x^5 - 5$ | $x^{15} + 2940x^{13} - 95200x^{12} +$ $5214650x^{11} - 237656720x^{10} +$ $8038621500x^9 - 280975672600x^8 +$ $9589878197550x^7 -$ $223754193233200x^6 +$ $5245097778931080x^5 -$ $109619460825028000x^4 +$ $1637481328062108200x^3 -$ $24252757251407910400x^2 +$ $256694112400351819200x -$ 893026341417076590080 | $\left[\begin{array}{c} 7 \\ 4 \end{array} \frac{25}{12} \frac{25}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| | Continued on next page | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|-----------------------------------|---|-----------|-------------------|
| x^{15} | $-$ | | | |
| | $7060x^{13}$ | | | |
| | $+$ | | | |
| | $17912240x^{11}$ | | | |
| | $-$ | | | |
| | $15719488x^{10}$ | | | |
| | $-$ | | | |
| | $21121401600x^9 + 45727778720x^8$ | | | |
| | $+$ | | | |
| | $12152821907200x^7$ | | | |
| | $-$ | | | |
| | $42775931569280x^6$ | | | |
| | $-$ | | | |
| | $3198123000135232x^5$ | | | |
| | $+$ | | | |
| | $15920992968025600x^4$ | | | |
| | $+$ | | | |
| | $279686624258762240x^3$ | | | |
| | $-$ | | | |
| | $2026217166955571200x^2$ | | | |
| | $+$ | | | |
| | $4006751578246410240x$ | | | |
| | $-$ | | | |
| | 2323160133340340736 | | | |
| $x^{15} - 50x^{14} - 55x^{13} - 25x^{11} -$ $50x^{10} + 50x^9 - 25x^7 + 25x^6 +$ $10x^5 - 25x^4 + 25x^3 - 50x^2 -$ $25x - 30$ | | $\left[\begin{array}{c} 7 \\ 4 \end{array} \frac{25}{12} \frac{25}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|-------------------------------------|---|-----------|-------------------|
| $x^{15} - 7060x^{13} + 17912240x^{11} -$ | $49671328x^{10} - 21121401600x^9 +$ | | | |
| $150728570720x^8 +$ | $12152821907200x^7 -$ | | | |
| $x^{15} - 45x^{14} + 5x^{13} + 25x^{12} -$ | $145651422250880x^6 -$ | | | |
| $25x^{11} + 25x^{10} + 50x^9 - 50x^8 -$ | $2935972704014272x^5 +$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \frac{25}{12} \frac{25}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $50x^7 - 50x^6 + 50x^4 + 50x^3 -$ | $53275553300569600x^4 +$ | | | |
| $50x^2 + 25x + 35$ | $94336940861296640x^3 -$ | | | |
| | $6001785771402803200x^2 +$ | | | |
| | $32935831272837642240x -$ | | | |
| | 34208825364147872256 | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{15} - 20x^{14} + 45x^{13} - 25x^{12} +$ $50x^{11} + 45x^{10} + 25x^9 - 25x^8 -$ $50x^7 + 25x^6 + 25x^4 - 25x^3 -$ $50x^2 + 25x - 55$ | $x^{15} - 340x^{13} + 37940x^{11} -$ $33116x^{10} - 1882400x^9 + 3204760x^8 +$ $45089200x^7 - 114846160x^6 -$ $470276768x^5 + 1785856800x^4 +$ $701039040x^3 - 9744134400x^2 +$ $13717229760x - 5913355968$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|---|-----------|-------------------|
| $x^{15} - 210x^{13} - 4200x^{12} - 19425x^{11} +$ $1104180x^{10} + 23091250x^9 +$ $94770900x^8 - 3042822825x^7 -$ $22357185900x^6 + 281900162460x^5 -$ $1240352484000x^4 +$ $22158031267750x^3 -$ $5404533762600x^2 +$ $203414164716000x -$ 211545044309760 | | $\left[\begin{array}{c} 7 \\ 4 \end{array} \frac{25}{12} \frac{25}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---------------------------------------|--------------------------------------|---|-----------|-------------------|
| $x^{15} - 710x^{13} - 106500x^{12} +$ | $12742725x^{11} - 371785820x^{10} +$ | | | |
| $100391515000x^9 -$ | $1204175932400x^8 -$ | | | |
| $24826740499400x^7 -$ | $829633334510400x^6 -$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \frac{25}{12} \frac{25}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $40x^5 - 25x^4 + 50x^3 - 25x^2 -$ | $179531958271830360x^5 -$ | | | |
| $50x - 30$ | $1374918663419518000x^4 -$ | | | |
| | $1396253280182393500x^3 -$ | | | |
| | $615356464263193808400x^2 +$ | | | |
| | $3670555273942093790400x -$ | | | |
| | 5350446477586463384320 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-------------------|
| $x^{15} - 5x^{13} - 5x^{10} - 10x^5 - 10$ | $x^{15} - 52260x^{13} + 921748815x^{11} -$ $7217312427x^{10} - 6839034818850x^9 +$ $107226208937055x^8 +$ $20330815095071325x^7 -$ $321340406480119845x^6 -$ $26128191384448016097x^5 +$ $286312135210736962275x^4 +$ $14430920605641596723940x^3 -$ $67603700413611461007675x^2 -$ $2658714523857120463327710x +$ 379786585739691682360341 | $\left[\begin{array}{c} 7 \\ 4 \end{array} \frac{25}{12} \frac{25}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|-------------------|
| $x^{15} - 5x^{14} + 40x^{13} - 50x^{11} +$ $50x^{10} + 50x^9 + 50x^8 - 25x^7 -$ $25x^6 + 20x^5 - 50x^4 + 25x^3 +$ $50x^2 + 25x + 10$ | $x^{15} + 90x^{13} - 420x^{12} + 4875x^{11} -$ $15684x^{10} + 299300x^9 + 32160x^8 +$ $8897820x^7 + 1779600x^6 +$ $111044592x^5 + 25401600x^4 +$ $596939760x^3 + 653728320x^2 -$ $1819584000x - 4069896192$ | $\left[\begin{array}{cc} 25 & 25 \\ 12 & 12 \end{array} \right]_{12}^2$ | T: 15, 19 | $\frac{611}{300}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{15} - 78390x^{13} + 2457996840x^{11} -$ $511280484x^{10} - 39250112873400x^9 +$ $26719518093840x^8 +$ $335652692524999200x^7 -$ $488726705454427440x^6 -$ $1471796726678961911163x^5 +$ $3648693946721196859200x^4 +$ $2808463264741166206481190x^3 -$ $9534037282782487393089600x^2 -$ $1369548144904159795833626940x +$ $8793151925841574293848161563$ | $x^{15} - 78390x^{13} + 2457996840x^{11} -$ $511280484x^{10} - 39250112873400x^9 +$ $26719518093840x^8 +$ $335652692524999200x^7 -$ $488726705454427440x^6 -$ $1471796726678961911163x^5 +$ $3648693946721196859200x^4 +$ $2808463264741166206481190x^3 -$ $9534037282782487393089600x^2 -$ $1369548144904159795833626940x +$ $8793151925841574293848161563$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \frac{25}{12} \frac{25}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $x^{15} + 45x^{14} - 20x^{13} + 25x^{12} +$ $25x^{11} - 10x^{10} + 25x^7 - 50x^6 +$ $20x^5 - 50x^4 - 25x^3 - 25x^2 +$ $25x + 55$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-------------------|
| $x^{15} + 20x^{14} + 35x^{13} - 25x^{12} -$ $50x^{11} - 50x^{10} - 25x^9 - 25x^8 +$ $50x^7 + 25x^6 - 50x^5 - 25x^4 +$ $25x^2 - 25x + 15$ | $x^{15} + 280x^{13} - 130480x^{12} +$ $1328460x^{11} + 11352208x^{10} +$ $7865896500x^9 - 230470606240x^8 +$ $1501876013365x^7 -$ $67640845909280x^6 +$ $1323525758709028x^5 +$ $7979072990210000x^4 -$ $44804388724146870x^3 -$ $4400144800158101680x^2 -$ $36942559257690690240x -$ 206708725372740580864 | $\left[\begin{array}{c} 7 \\ 4 \end{array} \frac{25}{12} \frac{25}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|-----------|-------------------|
| $x^{15} - 33370x^{13} - 4471580x^{12} -$ $1124552315x^{11} - 95383593332x^{10} +$ $13329276093000x^9 +$ $4421663187439160x^8 +$ $565444275460696165x^7 +$ $3312682563993359320x^6 -$ $7382987922077888218442x^5 -$ $1100083733980366822676500x^4 -$ $84906181366071347586570495x^3 -$ $1631925653907581086264052780x^2 +$ $135435988067674474975128697160x +$ $3679826763129063392433098539936$ | | $\left[\begin{array}{ccc} 7 & 25 & 25 \\ 4 & 12 & 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $x^{15} - 5x^{14} - 15x^{13} - 50x^{12} -$ $50x^{11} + 50x^{10} - 50x^9 - 50x^8 +$ $25x^7 + 50x^6 - 45x^5 - 25x^4 -$ $50x^3 + 25x^2 + 25x + 20$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} + 30x^{14} - 30x^{13} - 50x^{12} +$ $50x^{11} - 50x^9 + 50x^8 + 50x^7 -$ $50x^6 - 60x^5 + 25x^4 + 50x^3 -$ $25x^2 - 50x + 15$ | $x^{15} + 15x^{13} + 90x^{11} - 2x^{10} + 275x^9 -$ $20x^8 + 450x^7 - 70x^6 + 388x^5 - 100x^4 +$ $190x^3 - 50x^2 + 65x + 1$ | $\left[\begin{array}{cc} 25 & 25 \\ 12 & 12 \end{array} \right]_{12}^2$ | T: 15, 19 | $\frac{611}{300}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|-------------------------------------|--|-----------|-------------------|
| $x^{15} + 1860x^{13} - 57660x^{12} -$ | $3831600x^{11} + 204219072x^{10} -$ | | | |
| $11734819050x^9 + 554512645080x^8 -$ | $25287243209280x^7 +$ | | | |
| $x^{15} + 35x^{14} + 10x^{13} - 25x^{12} -$ | $406980484478100x^6 +$ | | | |
| $50x^{11} - 10x^{10} + 50x^9 - 50x^8 -$ | $4790467360480428x^5 -$ | $\left[\begin{matrix} 7 & 25 \\ 4 & 12 \end{matrix} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $50x^7 + 5x^5 - 50x^4 + 25x^3 +$ | $204783235874404200x^4 +$ | | | |
| $25x^2 - 25x + 40$ | $1939807274725571985x^3 -$ | | | |
| | $735189553042745760x^2 +$ | | | |
| | $46985725577553883200x -$ | | | |
| | 1450944390485990488896 | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-------------------|
| $x^{15} - 10x^{13} + 10x^{10} - 10x^5 - 10$ | $x^{15} - 100110x^{13} - 29031900x^{12} -$ $141572225x^{11} + 1573253810980x^{10} +$ $417466914025500x^9 +$ $4771324285553800x^8 -$ $364125215914195825x^7 -$ $1047324398673368048600x^6 -$ $189772115814149962692110x^5 -$ $14338630061931023438867500x^4 +$ $205275657560840023932463825x^3 +$ $249198702905785187733051989300x^2 +$ $13653147684024253396709981844000x -$ $130632036354216914418924747207040$ | $\left[\begin{array}{ccc} 7 & 25 & 25 \\ 4 & 12 & 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{15} - 10x^{14} - 10x^{13} + 5x^{10} - 5x^5 - 5$ | $x^{15} + 7210x^{13} - 100940x^{12} +$ $17419325x^{11} - 474039132x^{10} +$ $19604057200x^9 - 569826131280x^8 +$ $15341652455920x^7 -$ $327256752769800x^6 +$ $6225774123792328x^5 -$ $115484037307550800x^4 +$ $1475659391155461610x^3 -$ $11276750476532602040x^2 +$ $51961127607211796400x -$ 114127902612296085184 | $\left[\begin{array}{c} 7 \\ 4 \end{array} \frac{25}{12} \frac{25}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| | Continued on next page | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--------------------------------------|---|-----------|-------------------|
| $x^{15} - 710x^{13} - 49700x^{12} +$ | $5472325x^{11} + 2388273860x^{10} +$ | | | |
| $138219179000x^9 +$ | $1871467217200x^8 -$ | | | |
| $26296147638600x^7 -$ | $1446168673628000x^6 -$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \frac{25}{12} \frac{25}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $50x^{11} - 30x^{10} - 50x^9 + 25x^8 -$ | $53535764429954520x^5 +$ | | | |
| $50x^7 - 50x^6 + 30x^5 - 50x^4 -$ | $669150895938070000x^4 -$ | | | |
| $50x^3 - 25x^2 - 60$ | $5063513671712614300x^3 +$ | | | |
| | $385988897377897399600x^2 -$ | | | |
| | $4687755822455368577600x +$ | | | |
| | 13491250817044213095680 | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-------------------|
| $x^{15} - 52260x^{13} + 921748815x^{11} -$ $694010187x^{10} - 6839034818850x^9 +$ $30462853827705x^8 +$ $20330815095071325x^7 -$ $262094145193762245x^6 -$ $18884026382787813117x^5 +$ $296210781744923281275x^4 +$ $4851614897883974583090x^3 -$ $50833979092337810004675x^2 -$ $614780023038788665255860x -$ 628315406933669903906289 | $x^{15} - 52260x^{13} + 921748815x^{11} -$ $694010187x^{10} - 6839034818850x^9 +$ $30462853827705x^8 +$ $20330815095071325x^7 -$ $262094145193762245x^6 -$ $18884026382787813117x^5 +$ $296210781744923281275x^4 +$ $4851614897883974583090x^3 -$ $50833979092337810004675x^2 -$ $614780023038788665255860x -$ 628315406933669903906289 | $\left[\begin{array}{c} 7 \\ 4 \end{array} \frac{25}{12} \frac{25}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|------------------------|---|---|-----------|-------------------|
| | $x^{15} - 1860x^{13} - 61380x^{12} +$ $1129950x^{11} + 152535624x^{10} -$ $2455787450x^9 - 124916123160x^8 +$ $3226918951320x^7$ $+ 90314723012700x^6 -$ $1593894861509748x^5 -$ $64322387045451600x^4 -$ $145858446815651615x^3 +$ $18483593484614980680x^2 +$ $268523192252507498400x +$ 1007754578556254624832 | $\left[\begin{array}{c} 7 \\ 4 \end{array} \frac{25}{12} \frac{25}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{15} - 55x^{14} + 15x^{13} + 25x^{12} -$ $25x^{11} - 30x^{10} - 50x^9 + 25x^8 -$ $50x^7 + 25x^6 + 35x^5 + 50x^3 +$ $50x^2 + 50x - 55$ | $x^{15} - 20x^{13} - 120x^{12} - 240x^{11} + 32x^{10} +$ $6500x^9 + 30040x^8 + 103490x^7 +$ $258480x^6 + 516128x^5 + 718000x^4 +$ $789980x^3 + 245280x^2 - 204640x -$ 413696 | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|-------------------|
| $x^{15} - 1765x^{13} + 1119515x^{11} -$ $1269719x^{10} - 330021900x^9 +$ $925690090x^8 + 47471960575x^7 -$ $210395659240x^6$ | $3015747018778x^5 +$ $17286924874700x^4 +$ $57267449716490x^3 -$ $367457706547100x^2$ | $\left[\begin{smallmatrix} 25 & 25 \\ 12 & 12 \end{smallmatrix} \right]_{12}^2$ | T: 15, 19 | $\frac{611}{300}$ |
| $40x^{14} + 55x^{13} + 25x^{11} -$ $15x^{10} - 50x^9 + 25x^8 - 25x^7 +$ $50x^6 - 55x^5 - 25x^4 + 50x^3 -$ $25x + 10$ | $302360819979465x +$ 1732013091748563 | | | |
| $x^{15} - 20x^{13} - 50x^{11} + 35x^{10} +$ $25x^9 + 25x^8 - 50x^6 + 35x^5 +$ $50x^4 - 50x^3 - 50x^2 - 20$ | $x^{15} - 15x^{13} + 90x^{11} - x^{10} - 275x^9 +$ $10x^8 + 450x^7 - 35x^6 - 368x^5 + 50x^4 +$ $90x^3 - 25x^2 + 35x + 27$ | $\left[\begin{smallmatrix} 7 & 25 \\ 4 & 12 \end{smallmatrix} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{15} - 55x^{14} + 30x^{13} - 50x^{12} +$ $25x^{11} + 55x^{10} + 25x^8 - 25x^7 -$ $50x^6 - 10x^5 + 25x^4 + 50x^3 -$ $25x^2 - 25x + 35$ | $x^{15} - 15x^{13} + 315x^{11} - 9x^{10} - 5400x^9 -$ $2385x^8 + 26325x^7 + 33885x^6 -$ $180108x^5 - 115425x^4 + 813240x^3 -$ $382725x^2 + 211410x - 38637$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---------------------------------------|--|-----------|-------------------|
| x^{15} | – | | | |
| | $52260x^{13}$ | | | |
| | $1092443040x^{11} - 1390218778x^{10}$ | | | |
| | $11629663073600x^9$ | | | |
| | $48435222225520x^8$ | | | |
| | $66301766424691200x^7$ | | | |
| $x^{15} - 30x^{13} + 25x^{12} + 50x^{11} +$ | | | | |
| $5x^{10} + 50x^9 + 50x^8 - 50x^7 +$ | | | | |
| $25x^6 - 25x^5 - 25x^4 + 25x^3 +$ | | $\left[\begin{matrix} 25 & 25 \\ 12 & 12 \end{matrix} \right]_{12}^2$ | T: 15, 19 | $\frac{611}{300}$ |
| $50x + 40$ | | | | |
| | $2939595633951257465600x^4$ | | | |
| | $214716198141200576082340x^3$ | | | |
| | $5120775594343090505075200x^2$ | | | |
| | $30784528003010267598695440x$ | | | |
| | $16716284236084437520042631$ | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|-------------------------------------|--|-----------|-------------------|
| $x^{15} - 2840x^{13} - 71000x^{12} +$ | $1501650x^{11} + 150872160x^{10} +$ | | | |
| $4451203000x^9 - 5307164800x^8 -$ | $4740888979975x^7 -$ | | | |
| $x^{15} + 50x^{14} + 40x^{13} - 25x^{12} -$ | $150887115212800x^6 -$ | | | |
| $50x^{11} + 50x^9 + 50x^8 + 50x^7 -$ | $2069965091930920x^5 -$ | $\left[\begin{matrix} 7 & 25 \\ 4 & 12 \end{matrix} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $50x^6 + 45x^5 - 25x^4 - 50x^3 -$ | $9259727006401000x^4 +$ | | | |
| $25x - 60$ | $115348354022528150x^3 +$ | | | |
| | $2422825718905225600x^2 +$ | | | |
| | $20407508524591262400x +$ | | | |
| | 55286592069020856320 | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{15} + 30x^{14} - 45x^{13} + 25x^{12} -$ $50x^{11} - 25x^9 + 50x^7 - 50x^6 -$ $15x^5 + 50x^4 - 50x^3 - 25x^2 -$ $25x - 15$ | $x^{15} + 10x^{13} - 10x^{11} - 16x^{10} - 400x^9 +$ $10x^8 - 800x^7 + 340x^6 + 1612x^5 -$ $1200x^4 + 3840x^3 - 900x^2 + 1260x - 108$ | $\begin{bmatrix} 7 & 25 \\ 4 & 12 \end{bmatrix}_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $x^{15} - 20x^{14} - 40x^{13} + 25x^{11} -$ $55x^{10} - 25x^9 + 25x^8 - 25x^6 +$ $5x^5 - 50x^2 + 40$ | $x^{15} - 30x^{13} - 240x^{12} - 1545x^{11} -$ $17148x^{10} + 119350x^9 + 2043660x^8 -$ $1336695x^7 - 60222660x^6 -$ $81472032x^5 + 429173400x^4 +$ $708478870x^3 - 1596442440x^2 -$ $3892621920x - 1980554496$ | $\begin{bmatrix} 25 & 25 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 15, 19 | $\frac{611}{300}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-------------------|
| $x^{15} - 5x^{14} - 5x^{13} - 10x^{10} + 5x^5 + 10$ | $x^{15} - 585x^{13} + 136890x^{11} - 16887x^{10} - 16312725x^9 + 6585930x^8 + 1041048450x^7 - 898979445x^6 - 33841667457x^5 + 50085997650x^4 + 441323572365x^3 - 976676954175x^2 - 57743487360x + 799596926271$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $x^{15} + 50x^{14} - 5x^{13} - 50x^{12} - 50x^{11} - 50x^9 - 25x^8 + 25x^7 - 50x^6 + 55x^5 + 50x^4 - 50x^3 - 50x^2 + 25x + 35$ | $x^{15} + 15x^{13} + 90x^{11} - 3x^{10} + 275x^9 - 30x^8 + 450x^7 - 105x^6 + 378x^5 - 150x^4 + 140x^3 - 75x^2 + 15x - 11$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $x^{15} - 55x^{14} + 5x^{13} + 25x^{12} - 25x^{11} + 20x^{10} - 25x^9 - 50x^8 - 50x^6 + 25x^5 + 25x - 60$ | $x^{15} - 10x^{13} + 140x^{11} - 12x^{10} - 600x^9 - 20x^8 + 2200x^7 + 680x^6 - 3952x^5 - 1600x^4 + 1840x^3 + 1200x^2 + 240x + 16$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{15} - 5x^{14} + 5x^{13} - 5x^{10} + 5x^5 + 10$ | $x^{15} - 7060x^{13} + 17912240x^{11} -$ | | | |
| | $44009792x^{10} - 21121401600x^9 +$ | | | |
| | $120289698880x^8 +$ | | | |
| | $12152821907200x^7 -$ | | | |
| | $100898188568320x^6 -$ | | | |
| | $3207359838908992x^5 +$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \frac{25}{12} \frac{25}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| | $30558525589030400x^4 +$ | | | |
| | $317239251797411840x^3 -$ | | | |
| | $2293927781941452800x^2 -$ | | | |
| | $14654338116063759360x +$ | | | |
| | 11306812930639888896 | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-------------------|
| | $x^{15} - 3710x^{13} - 88900x^{12} +$ $8709225x^{11} + 268767380x^{10} -$ $13161645000x^9 - 353291254400x^8 +$ $16242706641000x^7 -$ $33479884608800x^6 -$ $1468235372815680x^5 -$ $9936058796664000x^4 -$ $299435623580578800x^3 +$ $8855132934389627200x^2 -$ $25606742300776179200x +$ 446411673721090631680 | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $x^{15} - 10x^{14} - 10x^{13} - 5x^{10} - 5$ | $x^{15} - 15x^{13} + 90x^{11} - 4x^{10} - 275x^9 +$ $40x^8 + 450x^7 - 140x^6 - 363x^5 +$ $200x^4 + 65x^3 - 100x^2 + 60x - 12$ | $\left[\begin{array}{c} 25 \\ 12 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 19 | $\frac{611}{300}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-------------------|
| $x^{15} - 5x^{14} + 5x^{13} - 5x^{10} + 5$ | $x^{15} - 585x^{13} + 136890x^{11} - 6552x^{10} - 16312725x^9 + 2555280x^8 + 1041048450x^7 - 348795720x^6 - 34186265217x^5 + 19432904400x^4 + 508520135565x^3 - 378941635800x^2 - 2678409452160x + 2404103210496$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $x^{15} + 10x^{14} - 60x^{13} - 25x^{12} - 5x^{10} + 25x^9 + 25x^8 + 50x^7 + 25x^6 - 30x^5 - 25x^4 + 25x^2 + 45$ | $x^{15} + 20x^{13} - 40x^{12} + 410x^{11} - 264x^{10} - 500x^9 + 7080x^8 - 99735x^7 + 45040x^6 + 402992x^5 + 943000x^4 - 3117770x^3 + 971040x^2 - 2183760x + 5801728$ | $\left[\begin{array}{c} 25 \\ 12 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 19 | $\frac{611}{300}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{15} - 20x^{14} - 55x^{13} + 50x^{12} + 25x^{10} + 50x^9 - 25x^8 + 50x^7 + 40x^5 - 25x^4 + 50x^3 - 50x - 20$ | $x^{15} - 340x^{13} + 37940x^{11} - 17516x^{10} - 1882400x^9 + 1395160x^8 + 45089200x^7 - 29919760x^6 - 519011168x^5 + 58000800x^4 + 2798802240x^3 + 1645113600x^2 - 4359551040x - 3997626048$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $x^{15} - 5x^{14} - 5x^{13} - 10x^{10} - 5$ | $x^{15} + 10x^{13} - 10x^{11} - 14x^{10} - 400x^9 + 140x^8 - 800x^7 + 1460x^6 + 1522x^5 + 1200x^4 + 2490x^3 + 900x^2 + 1260x + 918$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{15} - 3720x^{13} - 42780x^{12} +$ $5921310x^{11} + 123933288x^{10} -$ $3519422250x^9 - 1756666610040x^8 -$ $680466331110x^7 +$ $148902343561820x^6 +$ $1537250281325268x^5 -$ $66316753923639000x^4 -$ $869869206448773345x^3 +$ $10768482720804644520x^2 +$ $238363233563196250560x +$ 1054941452560099893696 | $x^{15} - 3720x^{13} - 42780x^{12} +$ $5921310x^{11} + 123933288x^{10} -$ $3519422250x^9 - 1756666610040x^8 -$ $680466331110x^7 +$ $148902343561820x^6 +$ $1537250281325268x^5 -$ $66316753923639000x^4 -$ $869869206448773345x^3 +$ $10768482720804644520x^2 +$ $238363233563196250560x +$ 1054941452560099893696 | $\left[\begin{array}{c} 7 \\ 4 \end{array} \frac{25}{12} \frac{25}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|-------------------------------------|---|-----------|-------------------|
| $x^{15} - 710x^{13} - 63900x^{12} -$ | $9636475x^{11} - 356594660x^{10} +$ | | | |
| $2152507000x^9 + 2256462502000x^8 +$ | $260642944051000x^7 +$ | | | |
| $x^{15} - 5x^{14} - 15x^{13} - 50x^{12} +$ | $841444570920800x^6 -$ | | | |
| $25x^{11} + 35x^{10} - 50x^9 + 25x^8 -$ | $368790463174123480x^5 -$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $50x^7 + 50x^6 - 50x^5 + 25x^4 -$ | $5132540771819566000x^4 +$ | | | |
| $50x^3 - 50x^2 - 60$ | $27089138619790412900x^3 +$ | | | |
| | $964419272332496856400x^2 +$ | | | |
| | $6852705180557431742400x +$ | | | |
| | 15413471402369642443520 | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{15} - 15x^{14} + 30x^{13} + 50x^{12} +$ $25x^{11} - 40x^{10} - 50x^9 - 25x^8 -$ $50x^7 + 30x^5 - 25x^4 - 50x^3 +$ $25x^2 - 50x - 60$ | $x^{15} - 340x^{13} + 37940x^{11} -$ $33404x^{10} - 1882400x^9 + 3045640x^8 +$ $45089200x^7 - 96762640x^6 -$ $500191328x^5 + 1260199200x^4 +$ $2007882240x^3 - 5757897600x^2 +$ $575789760x + 49353408$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|-----------|-------------------|
| $x^{15} - 100110x^{13} - 24360100x^{12} -$ $128224225x^{11} + 1213487169180x^{10} +$ $397155636169500x^9 +$ $45719775564311800x^8 -$ $79732992743855025x^7 -$ $1234453118726246937000x^6 -$ $244310353882510582096270x^5 -$ $19296130655756406650780500x^4 -$ $338974456867555563251576975x^3 +$ $193252103758117383988949442700x^2 +$ $19747517560628740311443001924000x +$ $81771303296089237273707101843840$ | | $\left[\begin{matrix} 7 & 25 & 25 \\ 4 & 12 & 12 \end{matrix} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $x^{15} - 40x^{14} + 15x^{13} - 25x^{12} +$ $30x^{10} + 50x^9 - 50x^8 - 50x^7 +$ $50x^6 - 10x^5 + 25x^4 + 50x + 35$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| | $x^{15} - 7060x^{13} + 17912240x^{11} -$ | | | |
| | $48846328x^{10} - 21121401600x^9 +$ | | | |
| | $147007658720x^8 +$ | | | |
| | $12152821907200x^7 -$ | | | |
| $x^{15} + 5x^{14} - 55x^{13} + 25x^{11} +$ | $139377462922880x^6 -$ | | | |
| $60x^{10} + 50x^8 + 25x^7 + 50x^6 +$ | $2958910943327872x^5 +$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \frac{25}{12} \frac{25}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $45x^5 - 50x^4 + 25x^3 + 25x^2 - 20$ | $48621017654809600x^4 +$ | | | |
| | $140273442397936640x^3 -$ | | | |
| | $4783842874967603200x^2 +$ | | | |
| | $10402727951255178240x +$ | | | |
| | 652865672866667410944 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{15} + 20x^{14} + 10x^{13} - 25x^{12} +$ $50x^{11} - 50x^{10} + 50x^9 - 25x^7 -$ $50x^6 - 60x^5 + 25x^3 - 50x^2 -$ $50x + 55$ | $x^{15} - 140x^{13} - 560x^{12} +$ $31500x^{11} - 223048x^{10} - 622300x^9 +$ $20291880x^8 - 144020555x^7 +$ $161357000x^6 + 6455194928x^5 -$ $73304382200x^4 + 445716759110x^3 -$ $1681878383360x^2 +$ $3729322928800x - 3874780623616$ | $\left[\begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 19 | $\frac{611}{300}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|------------------------------------|--|---|-----------|-------------------|
| $x^{15} + 10x^{14} + 10x^{13} + 5$ | $x^{15} - 33370x^{13} - 8475980x^{12} -$ | | | |
| | $467830715x^{11} + 270578789628x^{10} +$ | | | |
| | $28473649933000x^9 +$ | | | |
| | $1565336288207960x^8 -$ | | | |
| | $451035442167684635x^7 -$ | | | |
| | $79566404332290930280x^6 -$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| | $5087907090599600673162x^5 -$ | | | |
| | $75029018510363798658500x^4 +$ | | | |
| | $4562064870344392163449905x^3 +$ | | | |
| | $4127587753176773733853861220x^2 +$ | | | |
| | $258479690750145286190375505160x +$ | | | |
| | $6258518642031939992657045745056$ | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} - 5x^{14} - 55x^{13} - 50x^{12} +$ $50x^{11} + 35x^{10} - 50x^9 + 50x^8 +$ $50x^7 + 25x^6 - 40x^5 - 25x^4 -$ $50x^3 + 50x^2 - 50x - 10$ | $x^{15} - 15x^{13} + 90x^{11} - x^{10} - 275x^9 +$ $10x^8 + 450x^7 - 35x^6 - 378x^5 + 50x^4 +$ $140x^3 - 25x^2 - 15x - 3$ | $\left[\begin{array}{cc} 25 & 25 \\ 12 & 12 \end{array} \right]_{12}^2$ | T: 15, 19 | $\frac{611}{300}$ |
| $x^{15} + 5x^{13} - 5x^{10} - 10x^5 - 10$ | $x^{15} - 15x^{13} + 315x^{11} - 9x^{10} - 5400x^9 +$ $3915x^8 + 26325x^7 - 41715x^6 -$ $178848x^5 + 97200x^4 + 827415x^3 +$ $893025x^2 + 594135x + 165483$ | $\left[\begin{array}{cc} 7 & 25 \\ 4 & 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|---|-----------|-------------------|
| $x^{15} - 33370x^{13} - 6206820x^{12} -$ $315663515x^{11} + 98768112212x^{10} +$ $17872588245000x^9 +$ $2160870081710040x^8 +$ $76392516470889765x^7 -$ $26951346301546034920x^6 -$ $6515923408222568204362x^5 -$ $772923169362902493673500x^4 -$ $15995350064222093571795295x^3 +$ $6811698375482696084462641980x^2 +$ $924828053508080095004667930760x +$ $42386116038350028550553186631904$ | | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $x^{15} - 10x^{13} - 25x^{11} + 15x^{10} -$ $25x^9 - 25x^8 - 25x^7 - 35x^5 -$ $50x^4 - 25x^2 + 25x + 40$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{15} - 10x^{14} + 5x^{13} + 5x^{10} +$ $5x^5 + 10$ | $x^{15} - 15x^{13} + 315x^{11} - 54x^{10} -$ $5400x^9 + 4590x^8 + 26325x^7 -$ $23490x^6 - 181683x^5 - 54675x^4 +$ $827415x^3 + 1530900x^2 + 1104435x +$ 303993 | $\left[\begin{array}{c} 7 \\ 4 \end{array} \frac{25}{12} \frac{25}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|-------------------------------------|---|-----------|-------------------|
| $x^{15} - 7060x^{13} + 17912240x^{11} -$ | $45594872x^{10} - 21121401600x^9 +$ | | | |
| $133990703080x^8 -$ | $12152821907200x^7 -$ | | | |
| $124313120607520x^6 -$ | $3044987435635132x^5 +$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $50x^6 - 15x^5 - 25x^4 - 25x^3 +$ | $43224273780022400x^4 +$ | | | |
| $25x^2 - 25x + 55$ | $185834507676496640x^3 -$ | | | |
| | $4439664053546508800x^2 +$ | | | |
| | $11501831492659847040x +$ | | | |
| | 15991523810003284296 | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|-------------------|
| $x^{15} - 100110x^{13} - 26362300x^{12} +$ | $3408995775x^{11} + 1585525962180x^{10} +$ | | | |
| $156983683977500x^9 -$ | $22092253992470200x^8 -$ | | | |
| $2146451856375805425x^7 +$ | $487221528853065757800x^6 -$ | $\left[\begin{matrix} 7 & 25 & 25 \\ 4 & 12 & 12 \end{matrix} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $30x^{14} + 60x^{13} + 50x^{12} -$ | $54575002099111079493390x^5 -$ | | | |
| $25x^{11} - 30x^{10} - 50x^7 + 25x^6 +$ | $36532648255572932904015500x^4 -$ | | | |
| $30x^5 - 25x^4 + 50x^3 - 50x^2 - 55$ | $4329513521298147647544782575x^3 -$ | | | |
| | $140687952343383048038805814700x^2 +$ | | | |
| | $2674743909860881552093886804000x +$ | | | |
| | $29455895614319031929679087416960$ | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-------------------|
| $x^{15} - 10x^{14} - 5x^{13} + 5x^{10} - 10x^5 + 10$ | $x^{15} - 15x^{13} + 90x^{11} - 4x^{10} - 275x^9 + 40x^8 + 450x^7 - 140x^6 - 383x^5 + 200x^4 + 165x^3 - 100x^2 - 40x - 12$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| | $x^{15} - 52260x^{13} + 921748815x^{11} - 4392481743x^{10} - 6839034818850x^9 + 97549507803345x^8 + 20330815095071325x^7 - 566592595854312105x^6 - 14909235725350545267x^5 + 612129893055223569975x^4 - 316338532604707454010x^3 - 129795815817313125798825x^2 + 317046070975059280655190x + 8346686146250653074762369$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{15} - 65325x^{13} + 1536248025x^{11} -$ $811715385x^{10} - 16354213697250x^9 -$ $4630365343500x^8 +$ $80934773467640625x^7 +$ $289493370388521000x^6 -$ $173817581010187181925x^5 -$ $1326187485867943164375x^4 +$ $129762589601091527876250x^3 +$ $1829747135689815734437500x^2 -$ $8977397789271011038745625x -$ $153130875633247290725217375$ | $x^{15} - 65325x^{13} + 1536248025x^{11} -$ $811715385x^{10} - 16354213697250x^9 -$ $4630365343500x^8 +$ $80934773467640625x^7 +$ $289493370388521000x^6 -$ $173817581010187181925x^5 -$ $1326187485867943164375x^4 +$ $129762589601091527876250x^3 +$ $1829747135689815734437500x^2 -$ $8977397789271011038745625x -$ $153130875633247290725217375$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \frac{25}{12} \frac{25}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $x^{15} + 45x^{14} - 45x^{13} + 25x^{12} +$ $10x^{10} + 50x^9 - 50x^8 + 25x^7 +$ $50x^6 - 15x^5 + 50x^4 + 50x^3 +$ $50x + 55$ | | | | |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|-------------------------------------|-------------------------------------|--|-----------|-------------------|
| x^{15} | $- 7060x^{13} +$ | | | |
| $17912240x^{11} - 23903152x^{10} -$ | $21121401600x^9 + 73746246080x^8 +$ | | | |
| $12152821907200x^7 -$ | $70579617854720x^6 -$ | | | |
| $x^{15} + 10x^{14} + 5x^{13} - 10$ | $3137706432420352x^5 +$ | $\left[\begin{matrix} 7 & 25 \\ 4 & 12 \end{matrix} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| | $23479737454950400x^4 +$ | | | |
| | $260282476191395840x^3 -$ | | | |
| | $1784759987737292800x^2 -$ | | | |
| | $5524869529255464960x +$ | | | |
| | 35515419547170041856 | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|-----------|-------------------|
| $x^{15} + 210x^{13} - 7560x^{12} + 321825x^{11} +$ $6488412x^{10} + 109811450x^9 +$ $1682200380x^8 + 14208209295x^7 +$ $83737241700x^6 + 372730310568x^5 +$ $1050584509800x^4$ $3603638560410x^3$ $5448954210840x^2$ $23987908879200x + 14682567803904$ | | $\left[\begin{array}{ccc} 7 & 25 & 25 \\ 4 & 12 & 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $x^{15} + 55x^{14} - 40x^{13} - 50x^{12} +$ $50x^{11} - 40x^{10} - 50x^9 + 25x^6 +$ $55x^5 - 50x^4 + 25x^3 - 50x^2 +$ $25x + 5$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|---|-----------|-------------------|
| $x^{15} - 33370x^{13} - 4872020x^{12} -$ $1025777115x^{11} + 136544820932x^{10} +$ $26157451581000x^9 +$ $1909722912711640x^8 -$ $2678162223999356635x^7 -$ $90627617131054781320x^6 -$ $12879129149980335197322x^5 -$ $865976187252783707171500x^4 -$ $19137765771786778250936095x^3 +$ $572520559658729703568102380x^2 +$ $28741457406890235102574036360x -$ $60254131770443495570091450656$ | | $\left[\begin{array}{c} 7 & 25 & 25 \\ 4 & 12 & 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $x^{15} + 5x^{14} + 10x^{13} - 10x^{10} +$ $5x^5 - 5$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|------------------------|---|---|-----------|-------------------|
| | $x^{15} - 1860x^{13} - 163680x^{12} -$ $2483100x^{11} + 202867224x^{10} +$ $6097833300x^9 + 223661640840x^8 -$ $10130761195905x^7 -$ $87420035426800x^6 -$ $8422035860045748x^5 +$ $29098710795716400x^4 -$ $3468588329125312740x^3 -$ $69121226669559229920x^2 -$ $313325759572316222400x -$ 270784522022424411648 | $\left[\begin{array}{c} 7 \\ 4 \end{array} \frac{25}{12} \frac{25}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|-------------------|
| $x^{15} - 30x^{14} - 15x^{13} - 25x^{12} +$ $50x^{11} - 55x^{10} - 25x^8 + 50x^6 -$ $45x^5 - 25x^2 + 25x - 45$ | $x^{15} - 70x^{13} - 20x^{12} + 1435x^{11} +$ $332x^{10} + 19000x^9 - 156160x^8 -$ $46360x^7 + 656080x^6 + 1844328x^5 +$ $8722000x^4 - 46211620x^3 +$ $645680x^2 - 127424640x + 698668544$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $x^{15} - 40x^{14} - 30x^{13} + 25x^{12} -$ $25x^{11} - 35x^{10} - 50x^9 - 25x^8 +$ $50x^7 - 50x^6 + 15x^5 - 25x^4 -$ $25x^2 + 25x - 10$ | $x^{15} - 15x^{13} + 90x^{11} - 6x^{10} - 275x^9 +$ $60x^8 + 450x^7 - 210x^6 - 368x^5 +$ $300x^4 + 90x^3 - 150x^2 + 35x - 3$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|-----------|-------------------|
| $x^{15} - 770x^{13} - 52780x^{12} +$ $1892835x^{11} + 45111948x^{10} -$ $2309909000x^9 - 14762414240x^8 +$ $7195457169565x^7 -$ $461546368473680x^6 +$ $16077480391181118x^5 -$ $365075413818321500x^4 +$ $5575512109106488255x^3 -$ $55254475827933522980x^2 +$ $350712469786055804560x -$ 1060885886372010134464 | | $\left[\begin{array}{c} 7 \\ 4 \end{array} \frac{25}{12} \frac{25}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-------------------|
| $x^{15} - 25x^{14} + 20x^{13} - 60x^{10} + 50x^9 - 50x^8 - 50x^7 - 25x^6 + 30x^5 + 25x^4 + 50x^2 + 25x + 45$ | $x^{15} - 15x^{13} + 315x^{11} - 51x^{10} - 5400x^9 + 3285x^8 + 26325x^7 - 9585x^6 - 182628x^5 - 87075x^4 + 813240x^3 + 1233225x^2 + 665010x + 128817$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $x^{15} + 15x^{13} + 50x^{12} + 25x^{11} - 60x^{10} + 25x^8 + 25x^6 - 10x^5 - 50x^4 - 50x^3 - 25x + 30$ | $x^{15} - 770x^{13} - 7980x^{12} + 3318035x^{11} + 51970828x^{10} - 1665069000x^9 - 13103333040x^8 + 2929127560765x^7 + 32394786178720x^6 - 922574604354802x^5 + 11822521749062500x^4 + 561514253575440655x^3 - 198658390760713380x^2 + 21989022615599253760x - 73602671346952638464$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-------------------|
| $x^{15} - 60x^{14} - 55x^{13} - 25x^{12} - 25x^{11} - 10x^{10} - 50x^8 + 50x^7 + 25x^6 + 5x^5 + 25x^4 + 25x^3 + 25x^2 + 25x + 45$ | $x^{15} - 340x^{13} + 37940x^{11} - 814x^{10} - 1882400x^9 - 127660x^8 + 45089200x^7 + 18461560x^6 - 502503248x^5 - 572098800x^4 + 2079065040x^3 + 4524062400x^2 + 2118083760x - 413334792$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $x^{15} - 20x^{14} - 35x^{13} - 25x^{12} + 25x^{11} - 60x^{10} + 50x^9 - 50x^8 - 50x^7 + 25x^6 + 25x^5 + 50x^4 - 50x^3 - 25x^2 + 25x - 10$ | $x^{15} - 130x^{13} - 140x^{12} + 11185x^{11} - 33284x^{10} - 395500x^9 + 3000480x^8 + 5805940x^7 - 91078960x^6 - 12492648x^5 + 1225882000x^4 - 575898470x^3 - 6473901560x^2 + 6777374240x + 10947707008$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-------------------|
| $x^{15} - 2840x^{13} - 42600x^{12} +$ $1104050x^{11} + 116848960x^{10} +$ $3906775000x^9 - 20865707200x^8 -$ $3756405876775x^7$ $- 80768029167600x^6$ $- 349040096015560x^5$ $+ 20102662941883000x^4$ $+ 506741705881379350x^3$ $+ 4887512142584742400x^2$ $+ 14898217730048502400x$ $- 24226642138399262720$ | $x^{15} - 2840x^{13} - 42600x^{12} +$ $1104050x^{11} + 116848960x^{10} +$ $3906775000x^9 - 20865707200x^8 -$ $3756405876775x^7$ $- 80768029167600x^6$ $- 349040096015560x^5$ $+ 20102662941883000x^4$ $+ 506741705881379350x^3$ $+ 4887512142584742400x^2$ $+ 14898217730048502400x$ $- 24226642138399262720$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \frac{25}{12} \frac{25}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-------------------|
| $x^{15} - 20x^{14} - 60x^{13} - 50x^{11} -$ $45x^{10} - 25x^9 - 25x^8 - 25x^7 -$ $50x^6 - 55x^5 - 25x^4 - 50x^2 -$ $25x - 45$ | $x^{15} - 60x^{13} - 120x^{12} + 1200x^{11} +$ $4576x^{10} - 4200x^9 - 46040x^8 -$ $62355x^7 + 89600x^6 + 367092x^5 +$ $309600x^4 - 445590x^3 - 1151280x^2 -$ $871600x - 225152$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $x^{15} + 40x^{14} - 60x^{13} - 50x^{12} +$ $25x^{11} - 10x^{10} + 50x^9 + 50x^8 -$ $50x^6 - 20x^5 - 25x^3 - 25x^2 - 55$ | $x^{15} - 420x^{13} - 2080x^{12} +$ $78160x^{11} + 617888x^{10} - 6274500x^9 -$ $79172440x^8 + 136406690x^7 +$ $4691397120x^6 + 14087595008x^5 -$ $179560774000x^4 - 531025442020x^3 +$ $2873227921120x^2 +$ $4509448712160x + 6921491297536$ | $\left[\begin{array}{c} 25 \\ 12 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 19 | $\frac{611}{300}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--------------------------------------|--|-----------|-------------------|
| $x^{15} - 470x^{13} - 6580x^{12} -$ | $86715x^{11} - 1955012x^{10} +$ | | | |
| $64061000x^9 + 2331025160x^8 -$ | $13199912635x^7 - 589394158280x^6 +$ | | | |
| $x^{15} + 10x^{14} - 35x^{13} + 50x^{12} -$ | $1453310912378x^5 +$ | $\left[\begin{matrix} 25 & 25 \\ 12 & 12 \end{matrix} \right]_{12}^2$ | T: 15, 19 | $\frac{611}{300}$ |
| $50x^{11} + 5x^{10} + 50x^9 - 50x^8 -$ | $65245851270500x^4 -$ | | | |
| $50x^7 + 40x^5 + 25x - 60$ | $68424887132095x^3 -$ | | | |
| | $3381790973940380x^2 +$ | | | |
| | $445261310463560x +$ | | | |
| | 78291669623131936 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|-------------------|
| $x^{15} - 60x^{14} + 10x^{13} + 25x^{11} +$ $30x^{10} - 50x^9 - 25x^8 - 25x^6 -$ $25x^5 - 25x^4 + 50x^3 - 50x^2 -$ $25x - 60$ | $x^{15} - 30x^{13} - 60x^{12} + 635x^{11} + 164x^{10} -$ $2000x^9 - 26080x^8 + 111765x^7 -$ $143040x^6 + 51882x^5 - 221500x^4 +$ $652255x^3 - 568540x^2 - 21360x -$ 31808 | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $x^{15} - 30x^{14} - 55x^{13} - 25x^{12} -$ $50x^{11} - 20x^{10} + 50x^9 - 50x^8 -$ $50x^6 - 20x^5 + 50x^4 - 50x^3 +$ $50x^2 + 50x - 5$ | $x^{15} - 160x^{13} + 7265x^{11} - 6548x^{10} -$ $122850x^9 + 166270x^8 + 916825x^7 -$ $1456780x^6 - 3018847x^5 +$ $5053100x^4 + 3833765x^3 -$ $5712200x^2 - 1713660x + 685464$ | $\left[\begin{array}{c} 25 \\ 12 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 19 | $\frac{611}{300}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|---|-----------|-------------------|
| $x^{15} - 2840x^{13} - 14200x^{12} +$ $2467250x^{11} + 1914160x^{10} -$ $408321000x^9 + 37531253200x^8 -$ $774335785575x^7 -$ $98355523657600x^6 -$ $2616204034482440x^5 -$ $37615875947777000x^4 -$ $293579508407854250x^3 +$ $1394676271309774400x^2 +$ $57684529089228038400x +$ 371437233908224737280 | | $\left[\begin{array}{c} 7 \\ 4 \end{array} \frac{25}{12} \frac{25}{12} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $x^{15} + 10x^{14} + 15x^{13} - 40x^{10} +$ $25x^9 - 25x^8 - 50x^6 + 50x^5 -$ $50x^2 + 25x - 15$ | | | | |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{15} + 15x^{14} - 20x^{13} + 50x^{12} - 50x^{11} - 40x^{10} - 25x^9 - 25x^7 - 50x^6 - 55x^5 - 50x^4 - 25x^3 + 25x + 30$ | $x^{15} + 15x^{13} + 90x^{11} - 2x^{10} + 275x^9 - 20x^8 + 450x^7 - 70x^6 + 378x^5 - 100x^4 + 140x^3 - 50x^2 + 15x - 9$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $x^{15} + 10x^{14} + 40x^{13} - 25x^{12} + 50x^{11} - 30x^{10} - 25x^9 - 25x^7 + 25x^6 - 50x^5 - 50x^3 + 50x + 10$ | $x^{15} - 210x^{13} - 10920x^{12} - 140175x^{11} - 916524x^{10} + 7592550x^9 + 41833260x^8 - 4080663405x^7 - 129489923500x^6 - 2689981489188x^5 + 37795714958400x^4 + 415202294861340x^3 + 3439109140372080x^2 + 20546139454344000x + 76983641298289152$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{15} - 5x^{13} - 5$ | $x^{15} - 15x^{13} + 90x^{11} - x^{10} - 275x^9 + 10x^8 + 450x^7 - 35x^6 - 368x^5 + 50x^4 + 90x^3 - 25x^2 + 35x + 17$ | $\begin{bmatrix} 25 & 25 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 15, 19 | $\frac{611}{300}$ |
| $x^{15} - 25x^{14} - 40x^{13} + 25x^{12} - 25x^{11} + 10x^{10} + 50x^9 + 50x^8 + 50x^7 - 50x^5 - 50x^4 - 25x^3 - 50x^2 + 50x - 60$ | $x^{15} - 270x^{13} - 4220x^{12} - 44515x^{11} - 603388x^{10} + 258500x^9 - 171487960x^8 - 4171529885x^7 - 20777889720x^6 - 90576498662x^5 - 1058772595500x^4 + 928403147855x^3 - 28635452511820x^2 - 99916003905440x + 161891436958336$ | $\begin{bmatrix} 25 & 25 \\ 12 & 12 \end{bmatrix}_{12}^2$ | T: 15, 19 | $\frac{611}{300}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|-------------------|
| $x^{15} + 60x^{14} - 10x^{13} + 25x^{12} +$ $50x^{11} + 50x^9 + 50x^8 - 25x^7 -$ $25x^6 + 40x^5 - 50x^4 - 50x^3 -$ $25x^2 + 30$ | $x^{15} - 20x^{13} - 80x^{12} + 410x^{11} -$ $192x^{10} + 2500x^9 - 3040x^8 - 18135x^7 -$ $53880x^6 + 87888x^5 + 295000x^4 +$ $146230x^3 - 713680x^2 - 925040x -$ 431104 | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---------------------|---------------------------------------|---|-----------|-------------------|
| x^{15} | – | | | |
| | $78390x^{13}$ | | | |
| | + | | | |
| | $2457996840x^{11} - 7156884189x^{10}$ | | | |
| | – | | | |
| | $39250112873400x^9$ | | | |
| | + | | | |
| | $374018767717140x^8$ | | | |
| | + | | | |
| | $335652692524999200x^7$ | | | |
| | – | | | |
| | $6841177280314207740x^6$ | | | |
| | – | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| | $1445990283626505828588x^5$ | | | |
| | + | | | |
| | $51074274952745785213200x^4$ | | | |
| | + | | | |
| | $2134140907780488768796440x^3$ | | | |
| | – | | | |
| | $133457080451524736762091600x^2$ | | | |
| | + | | | |
| | $2154460492572340493506876560x$ | | | |
| | – | | | |
| | $10789204335367999344066671967$ | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-------------------|
| $x^{15} + 10x^{14} + 10x^{13} + 25x^{12} +$ $45x^{10} + 25x^9 - 25x^7 + 25x^6 -$ $20x^5 - 25x^4 + 50x^3 - 25x^2 - 20$ | $x^{15} + 140x^{13} - 5250x^{11} - 88760x^{10} +$ $931000x^9 - 156800x^8 - 1625575x^7 -$ $122764600x^6 + 936402740x^5 -$ $9568328000x^4 + 46490545850x^3 -$ $319368260400x^2 + 1824646672800x -$ 2223801699840 | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--------------------------------------|--|-----------|-------------------|
| $x^{15} - 13065x^{13} + 68277690x^{11} -$ | $27454791x^{10} - 181713485525x^9 +$ | | | |
| $239131229610x^8 +$ | $258991275096450x^7 -$ | | | |
| $728991553466085x^6 -$ | $188672032871233743x^5 +$ | $\left[\begin{matrix} 25 & 25 \\ 12 & 12 \end{matrix} \right]_{12}^2$ | T: 15, 19 | $\frac{611}{300}$ |
| $5x^5 - 10$ | $907073775812800050x^4 +$ | | | |
| | $57572370091377689015x^3 -$ | | | |
| | $395030629366474421775x^2 -$ | | | |
| | $2607951199751522633190x +$ | | | |
| | 18845676808759084878737 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|-------------------|
| $x^{15} - 585x^{13} + 136890x^{11} - 16887x^{10} -$ $16312725x^9 + 6585930x^8 +$ $1041048450x^7 - 898979445x^6 -$ $34076616327x^5 + 50085997650x^4 +$ $487138602015x^3 - 976676954175x^2 -$ $1844529643710x + 4109436964971$ | | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $x^{15} + 25x^{14} + 55x^{13} + 50x^{12} -$ $25x^{11} + 35x^{10} + 25x^9 + 50x^8 -$ $25x^7 + 40x^5 + 50x^4 - 25x^2 + 15$ | $x^{15} - 10x^{13} + 140x^{11} - 48x^{10} - 600x^9 +$ $370x^8 + 2200x^7 + 620x^6 - 3412x^5 -$ $3400x^4 + 340x^3 + 1800x^2 + 540x - 146$ | $\left[\begin{array}{c} 7 \\ 4 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \begin{array}{c} 25 \\ 12 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|--|-----------|-------------------|
| $x^{15} + 3220x^{13} - 36960x^{12} +$ $8816360x^{11} - 194551896x^{10} +$ $15691490500x^9 - 440078335480x^8 +$ $19921313021890x^7 -$ $517289086750240x^6 +$ $14660188337237912x^5 -$ $384106375717512000x^4 +$ $8848700398262578980x^3 -$ $167781379954845834240x^2 +$ $1765194004542672863040x -$ 7121750332655453705728 | | $\left[\begin{matrix} 7 & 25 \\ 4 & 12 \end{matrix} \right]_{12}^2$ | T: 15, 38 | $\frac{619}{300}$ |
| $x^{15} + 30x^{14} - 10x^{13} - 50x^{12} -$ $25x^{11} + 40x^{10} - 50x^9 - 25x^7 -$ $25x^6 - 5x^5 - 50x^4 + 25x^3 +$ $50x + 5$ | | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|----------|-------------------|
| $x^{15} + 15x^{14} + 50x^{13} - 50x^{12} +$ $50x^{11} - 20x^{10} + 50x^9 + 25x^8 +$ $25x^4 + 50x^3 + 50x^2 - 25x + 10$ | $x^{15} - 45x^{13} - 180x^{12} + 830x^{11} +$ $2926x^{10} + 17775x^9 - 30830x^8 -$ $325620x^7 - 1102030x^6 + 1404577x^5 +$ $19647800x^4 + 29361395x^3 -$ $86279520x^2 - 74836380x - 257830772$ | $\left[\frac{13}{6} \frac{13}{6} \right]_6^2$ | T: 15,12 | $\frac{317}{150}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{15} - 5x^{14} + 25x^{13} - 50x^{11} + 20x^{10} - 25x^9 - 50x^8 + 50x^7 + 40x^5 - 50x^4 - 50x^2 + 25x - 10$ | $x^{15} - 2695x^{13} - 1045x^{12} + 1659680x^{11} - 24621091x^{10} - 9737475x^9 + 17476469230x^8 - 369940904245x^7 - 145308760245x^6 + 91381304935602x^5 - 1758462635887925x^4 + 14497473754476020x^3 + 134233466355511820x^2 - 3425597665802453680x + 17393192017466229712$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} - 5x^{14} + 25x^{13} + 25x^{11} - 50x^{10} - 25x^9 + 25x^8 - 50x^6 + 30x^5 - 50x^3 + 50x^2 - 25x + 45$ | $x^{15} + 80x^{13} - 45x^{12} + 855x^{11} - 3006x^{10} - 3225x^9 + 4430x^8 - 6645x^7 - 27745x^6 + 48777x^5 + 106325x^4 - 16555x^3 + 115920x^2 - 483080x - 2158$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{15} - 5x^{14} - 50x^{13} + 25x^{12} +$ $25x^{11} + 55x^{10} + 50x^9 + 25x^8 +$ $50x^7 - 50x^6 - 15x^5 + 50x^4 -$ $50x - 15$ | $x^{15} - 5x^{13} - 40x^{12} - 145x^{11} + 27x^{10} +$ $725x^9 + 460x^8 - 1220x^7 - 2285x^6 -$ $5657x^5 - 17850x^4 - 30405x^3 -$ $24790x^2 - 8870x - 1341$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} + 35x^{14} - 25x^{13} + 25x^{12} +$ $50x^{10} - 25x^8 + 25x^6 + 60x^5 +$ $25x^4 + 50x^3 - 50x^2 - 45$ | $x^{15} - 330x^{13} - 1265x^{12} + 32780x^{11} +$ $274692x^{10} - 426525x^9 - 12915540x^8 -$ $51161220x^7 + 649165x^6 +$ $578990808x^5 + 2195684150x^4 +$ $4648277920x^3 + 6132795460x^2 +$ $2599283280x + 161615344$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{15} - 20x^{14} - 25x^{13} + 25x^{12} -$ $50x^{11} + 25x^{10} + 25x^6 - 50x^5 -$ $50x^3 + 25x^2 + 50x + 5$ | $x^{15} - 70x^{13} - 20x^{12} + 2705x^{11} +$ $8354x^{10} - 62100x^9 - 172720x^8 +$ $902255x^7 - 547820x^6 + 2591102x^5 -$ $2038300x^4 + 554695x^3 - 363230x^2 +$ $72020x - 3848$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{15} - 23430x^{13} - 652135x^{12} +$ $164423930x^{11} + 10000664388x^{10} -$ $196117710525x^9$ $33203934589760x^8$ $907285159735020x^7$ $7432541081717235x^6$ $851645411394633878x^5$ $14293139949823260350x^4$ $53094793221308691380x^3$ $4504043157271002666860x^2$ $53672537665633427931720x$ 213418171441898829626704 | $+$ $-$ $-$ $-$ $+$ $+$ $+$ $-$ $-$ $-$ $-$ $-$ $-$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} + 20x^{14} + 50x^{12} - 50x^{11} -$ $5x^{10} + 25x^9 - 25x^8 - 50x^7 -$ $45x^5 + 50x^4 - 25x^3 - 50x + 40$ | | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{15} - 23430x^{13} - 675565x^{12} +$ $184768980x^{11} + 10463706792x^{10} -$ $405944294525x^9$ $44904682261340x^8$ $696431645395420x^7$ $40000387742294265x^6$ $1896531796874641168x^5$ $32925425084615422150x^4$ $262059496700771907720x^3$ $587611853887688463460x^2$ $3861253501317670879520x$ 21592865274697597340416 | $+$ $-$ $-$ $-$ $+$ $+$ $+$ $+$ $+$ $-$ $-$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} - 35x^{14} - 25x^{13} - 25x^{12} +$ $55x^{10} + 50x^9 - 25x^8 + 25x^7 +$ $50x^6 - 45x^5 - 50x^4 + 25x^3 +$ $25x^2 + 50x + 45$ | $+$ $+$ $+$ $+$ | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{15} + 30x^{14} + 25x^{13} + 60x^{10} +$ $25x^9 + 50x^8 + 50x^7 + 50x^6 +$ $35x^5 - 25x^4 + 25x - 55$ | $x^{15} + 30x^{13} - 45x^{12} - 895x^{11} -$ $5416x^{10} - 19725x^9 - 38220x^8 -$ $96745x^7 - 220445x^6 - 418333x^5 -$ $906675x^4 - 1607205x^3 - 1930280x^2 -$ $2300480x - 1825408$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} - 40x^{14} + 25x^{13} + 50x^{12} -$ $50x^{11} + 15x^{10} - 25x^9 + 25x^8 +$ $50x^7 - 50x^6 - 50x^4 + 25x^3 +$ $50x^2 - 40$ | $x^{15} - 55x^{13} - 40x^{12} + 1530x^{11} +$ $1577x^{10} - 29775x^9 + 3810x^8 +$ $353380x^7 - 564285x^6 - 2704672x^5 +$ $920400x^4 + 15618070x^3 +$ $22370985x^2 + 11526255x - 9504391$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{15} + 40x^{14} + 25x^{13} - 25x^{11} -$ $60x^{10} + 25x^9 - 50x^8 - 50x^6 +$ $25x^5 + 25x^4 + 25x^3 - 50x^2 +$ $25x + 60$ | $x^{15} + 45x^{13} - 110x^{12} + 1130x^{11} -$ $3227x^{10} + 32725x^9 - 74810x^8 +$ $272630x^7 - 455165x^6 + 297788x^5 -$ $2378400x^4 + 4980220x^3 -$ $2987735x^2 + 637205x - 51719$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} - 35x^{14} - 25x^{13} - 25x^{12} +$ $50x^{11} + 20x^{10} + 25x^9 + 50x^8 +$ $25x^7 - 25x^6 - 35x^5 - 25x^4 +$ $50x^3 - 25x^2 + 60$ | $x^{15} + 20x^{13} - 90x^{12} - 1120x^{11} -$ $5468x^{10} - 25900x^9 + 4960x^8 +$ $352480x^7 + 773240x^6 + 5050928x^5 +$ $6644400x^4 + 6252720x^3 +$ $92270560x^2 + 297796480x +$ 296204224 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|----------|-------------------|
| $x^{15} - 2130x^{13} - 8165x^{12} +$ $1745180x^{11} + 11653372x^{10} -$ $676880275x^9 - 5809450040x^8 +$ $124304909980x^7 +$ $1173862962715x^6 -$ $9968268043092x^5 -$ $93196033692350x^4 +$ $174608284361120x^3 +$ $876842601264660x^2 -$ $199234279133920x +$ 77308426678864 | | $\left[\frac{13}{6} \frac{13}{6} \right]_6^2$ | T: 15,12 | $\frac{317}{150}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{15} + 35x^{14} + 50x^{12} - 50x^{11} + 60x^{10} - 25x^9 - 25x^8 - 50x^6 - 25x^5 - 25x^4 + 50x^2 - 15$ | $x^{15} + 20x^{13} - 390x^{12} + 430x^{11} - 893x^{10} + 41600x^9 - 113190x^8 - 272570x^7 - 495860x^6 + 4634643x^5 + 5360650x^4 - 1750280x^3 + 10425160x^2 - 260120x + 195739$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} + 15x^{14} - 25x^{13} + 25x^{12} + 25x^{11} + 25x^9 - 50x^7 + 50x^6 - 10x^5 - 50x^4 - 25x^3 + 15$ | $x^{15} + 80x^{13} - 180x^{12} + 2180x^{11} - 5719x^{10} + 3150x^9 + 4120x^8 - 140870x^7 - 339230x^6 - 5261593x^5 + 9472300x^4 + 32733120x^3 - 16004270x^2 + 59604070x - 44070497$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|---|-----------|--------------------|
| $x^{15} - 6270x^{13} - 110770x^{12} +$ $14430405x^{11} + 466826789x^{10} -$ $10809955475x^9 - 595953860920x^8 -$ $1232235331470x^7 +$ $225865402699255x^6 +$ $2585401837824432x^5 +$ $36046123257623325x^4 +$ $1902357552369954295x^3 +$ $30943561503224671070x^2 +$ $181690031924925214845x +$ 240882939589706905337 | | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{15} - 23430x^{13} - 714615x^{12} +$ $170125230x^{11} + 11035508132x^{10} -$ $193220395775x^9$ $38872045979140x^8$ $1344932970184320x^7$ $9794142212450035x^6$ $496684168129691938x^5$ $13538117821564255150x^4$ $94431567013401066020x^3$ $1010561834166252899740x^2$ $20164728871716247584920x$ 95839786366151947600976 | $+$ $-$ $-$ $-$ $+$ $+$ $+$ $-$ $-$ $-$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} + 45x^{14} + 50x^{13} + 25x^{12} -$ $50x^{11} - 20x^{10} - 25x^9 - 25x^8 +$ $50x^6 - 60x^5 - 25x^4 - 25x^3 -$ $25x^2 + 25x - 60$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{15} - 30x^{14} - 25x^{13} - 25x^{12} +$ $50x^{10} + 25x^9 + 25x^7 + 50x^6 +$ $60x^5 + 25x^4 - 25x^2 - 50x - 5$ | $x^{15} + 20x^{13} - 290x^{12} - 2120x^{11} +$ $13617x^{10} + 17850x^9 - 181290x^8 +$ $231680x^7 + 282440x^6 + 226503x^5 -$ $573850x^4 - 1778380x^3 - 1312890x^2 -$ $296920x - 2561$ | $\left[\begin{array}{c} \frac{13}{6} \\ \frac{13}{6} \end{array} \right]_6^2$ | T: 15, 12 | $\frac{317}{150}$ |
| $x^{15} - 5x^{14} - 50x^{13} - 50x^{12} -$ $50x^{11} + 10x^{10} + 50x^9 - 50x^8 +$ $50x^7 + 50x^6 + 30x^5 - 50x^4 -$ $25x^3 - 15$ | $x^{15} - 195x^{13} - 3370x^{12} +$ $3230x^{11} + 534104x^{10} + 7856150x^9 -$ $7541620x^8 - 946284095x^7 -$ $6536751320x^6 + 32963881917x^5 +$ $479529913950x^4 + 599273676720x^3 -$ $9828645792480x^2 -$ $10047832505280x - 42066130992768$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{13}{6} \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{15} + 55x^{14} + 25x^{13} + 25x^{12} -$ $25x^{11} - 5x^{10} - 25x^9 - 50x^7 +$ $45x^5 + 50x^4 + 25x^3 + 25x^2 -$ $25x + 45$ | $x^{15} + 30x^{13} - 355x^{12} + 2205x^{11} -$ $10474x^{10} + 67775x^9 - 371830x^8 +$ $1603305x^7 - 5982255x^6 +$ $16614687x^5 - 37637325x^4 +$ $47354545x^3 + 1873080x^2 -$ $56510980x + 39621158$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} - 5x^{14} - 25x^{13} + 50x^{12} -$ $25x^{11} - 40x^{10} - 50x^9 + 50x^8 -$ $25x^7 - 25x^6 + 50x^5 + 50x^3 -$ $50x^2 + 45$ | $x^{15} + 30x^{13} - 220x^{12} - 20x^{11} +$ $3129x^{10} - 17350x^9 + 52780x^8 -$ $327770x^7 + 967430x^6 - 1519243x^5 -$ $274300x^4 - 738380x^3 + 2240670x^2 -$ $1306280x + 245467$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{15} + 570x^{13} - 2090x^{12} + 133380x^{11} -$ $837653x^{10} + 15062725x^9 -$ $82006565x^8 + 740972355x^7 -$ $1915234960x^6 + 12603511053x^5 +$ $45x^5 + 25x^4 - 50x^2 - 25x + 15$ | $x^{15} + 570x^{13} - 2090x^{12} + 133380x^{11} -$ $837653x^{10} + 15062725x^9 -$ $82006565x^8 + 740972355x^7 -$ $1915234960x^6 + 12603511053x^5 +$ $7550730150x^4 + 147977300620x^3 -$ $347212937090x^2 - 892407205320x -$ 1790907665021 | $\left[\begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 12 | $\frac{317}{150}$ |
| $x^{15} - 35x^{14} + 50x^{13} + 50x^{12} +$ $25x^{11} - 35x^{10} - 25x^9 - 50x^7 -$ $25x^6 + 30x^5 + 50x^3 - 25x^2 -$ $50x - 55$ | $x^{15} - 330x^{13} - 385x^{12} + 32230x^{11} +$ $87428x^{10} - 850025x^9 - 2681360x^8 +$ $5091680x^7 + 39226385x^6 -$ $21835902x^5 + 81656850x^4 -$ $316218980x^3 - 1009244060x^2 -$ $6552938920x + 20363895376$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_6^2 \left[\begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{15} - 60x^{14} - 50x^{13} - 25x^{12} +$ $50x^{11} - 55x^{10} + 50x^9 + 50x^8 +$ $25x^7 + 50x^6 + 45x^5 + 25x^4 -$ $25x^3 - 50x^2 + 25x + 15$ | $x^{15} - 45x^{13} - 30x^{12} + 480x^{11} - 869x^{10} +$ $6275x^9 + 36620x^8 - 174570x^7 -$ $235905x^6 + 2880192x^5 - 4815450x^4 -$ $34158880x^3 + 71289905x^2 +$ $196492195x - 385541077$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} - 60x^{14} + 50x^{10} + 25x^9 -$ $25x^8 + 50x^6 - 15x^5 - 50x^4 -$ $50x^3 + 50x^2 + 25x - 20$ | $x^{15} - 30x^{13} - 15x^{12} + 380x^{11} + 307x^{10} -$ $2525x^9 - 2440x^8 + 9230x^7 + 8965x^6 -$ $17777x^5 - 13975x^4 + 15070x^3 +$ $4585x^2 + 880x - 1$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|-------------------|
| $x^{15} - 5x^{14} + 50x^{13} - 50x^{12} -$ $50x^{11} + 30x^{10} - 50x^9 + 50x^8 +$ $25x^7 + 50x^6 + 20x^5 + 50x^4 +$ $50x^2 - 50x + 15$ | $x^{15} - 180x^{13} - 390x^{12} + 12655x^{11} +$ $84087x^{10} - 37525x^9 - 2273065x^8 -$ $8975695x^7 - 6668335x^6 +$ $47928393x^5 + 146484775x^4 +$ $105590695x^3 - 190216315x^2 -$ $385672545x - 194904261$ | $\left[\begin{array}{c} \frac{13}{6} \\ \frac{13}{6} \end{array} \right]_6^2$ | T: 15, 12 | $\frac{317}{150}$ |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{15} - 1980x^{13} - 13035x^{12} + 1611830x^{11} + 30739643x^{10} - 220646525x^9 - 12073750260x^8 - 129362787345x^7 - 331478924040x^6 + 3623390498178x^5 + 36589437699100x^4 + 165250642501670x^3 + 437841605003990x^2 + 519118875119955x - 82575308864609$ | $x^{15} - 1980x^{13} - 13035x^{12} + 1611830x^{11} + 30739643x^{10} - 220646525x^9 - 12073750260x^8 - 129362787345x^7 - 331478924040x^6 + 3623390498178x^5 + 36589437699100x^4 + 165250642501670x^3 + 437841605003990x^2 + 519118875119955x - 82575308864609$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} + 15x^{14} - 25x^{13} + 50x^{12} - 50x^{11} - 35x^{10} + 50x^8 - 50x^7 + 50x^6 - 55x^5 - 25x^4 + 25x^3 - 25x^2 - 25x + 45$ | $x^{15} - 5x^{13} - 10x^{12} - 95x^{11} - 42x^{10} + 225x^9 - 1810x^8 - 3370x^7 + 8110x^6 + 17408x^5 - 8400x^4 - 32080x^3 - 6560x^2 + 19680x + 10656$ | $\left[\frac{13}{6} \frac{13}{6} \right]_6^2$ | T: 15, 12 | $\frac{317}{150}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{15} + 15x^{14} - 25x^{13} - 25x^{11} -$ $55x^{10} + 50x^9 - 25x^6 + 35x^5 -$ $25x^2 - 50x + 60$ | $x^{15} + 70x^{13} - 290x^{12} + 105x^{11} +$ $872x^{10} - 9400x^9 + 50060x^8 +$ $13055x^7 - 292760x^6 - 77942x^5 +$ $845150x^4 + 822495x^3 - 2688840x^2 +$ $407680x + 1141504$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} - 5x^{14} - 50x^{13} + 25x^{12} -$ $50x^{11} + 60x^{10} - 25x^7 - 25x^6 +$ $50x^3 + 50x^2 + 50x - 30$ | $x^{15} + 30x^{13} - 470x^{12} - 20x^{11} +$ $10459x^{10} - 48100x^9 - 4320x^8 +$ $673630x^7 - 1161120x^6 - 2411503x^5 +$ $8104450x^4 - 6865080x^3 +$ $2028020x^2 - 280530x + 126517$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|-----------|--------------------|
| $x^{15} - 2695x^{13} - 20680x^{12} + 1891505x^{11} + 10459856x^{10} - 315020475x^9 + 10069882570x^8 - 77021865745x^7 - 7447458684930x^6 + 46050047595387x^5 + 1451504102862550x^4 - 22870652494281130x^3 + 21411922851754620x^2 + 4291952809478118620x + 38754043063729643848$ | | | | |
| $x^{15} + 10x^{14} + 50x^{13} + 50x^{12} + 20x^{10} - 50x^9 + 50x^8 + 50x^7 + 50x^6 - 25x^5 - 50x^4 + 25x^2 - 50x + 5$ | | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{15} + 20x^{14} + 50x^{12} + 50x^{11} - 10x^{10} - 50x^9 - 50x^8 - 25x^7 - 25x^6 + 35x^5 + 50x^3 + 50x^2 - 50x + 5$ | $x^{15} - 30x^{13} - 140x^{12} - 20x^{11} + 2812x^{10} + 15600x^9 + 65760x^8 - 95320x^7 + 206240x^6 + 2133888x^5 - 7089600x^4 - 14355680x^3 + 70376960x^2 + 68958880x - 333341536$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} + 55x^{14} - 25x^{13} + 25x^{12} + 10x^{10} + 25x^8 - 50x^7 - 25x^6 + 5x^5 + 50x^4 + 25x^3 + 50x^2 - 25x - 15$ | $x^{15} - 245x^{13} - 255x^{12} + 11930x^{11} + 126071x^{10} - 268975x^9 - 3125330x^8 - 16981095x^7 - 26442055x^6 - 14880828x^5 + 597046925x^4 - 519552980x^3 + 125964980x^2 - 10832080x + 578608$ | $\left[\frac{13}{6} \right]_6^2$ | T: 15, 12 | $\frac{317}{150}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|----------|-------------------|
| $x^{15} - 5x^{14} + 25x^{13} - 50x^{12} -$ $25x^{11} + 20x^{10} - 50x^9 + 50x^8 -$ $25x^7 + 50x^6 - 30x^5 + 25x^4 -$ $50x^3 + 25x^2 + 25x - 55$ | $x^{15} - 70x^{13} - 5x^{12} + 1955x^{11} + 446x^{10} -$ $34975x^9 + 29870x^8 + 328405x^7 -$ $1193505x^6 + 2154667x^5 - 809575x^4 -$ $2574905x^3 + 1456930x^2 + 1038820x +$ 158728 | $\left[\begin{array}{c} 13 \\ 6 \end{array} \right]^2 \left[\begin{array}{c} 13 \\ 6 \end{array} \right]_6$ | T: 15,12 | $\frac{317}{150}$ |
| $x^{15} - 35x^{14} + 25x^{13} - 50x^{11} +$ $50x^{10} + 50x^9 - 25x^8 - 25x^7 +$ $25x^6 + 15x^5 - 50x^4 + 50x^3 -$ $50x^2 + 50x + 10$ | $x^{15} + 20x^{13} - 65x^{12} + 405x^{11} -$ $1828x^{10} + 15225x^9 + 16260x^8 +$ $183105x^7 + 218415x^6 + 310383x^5 -$ $2592975x^4 - 7048405x^3 -$ $3342690x^2 + 14318330x + 21775754$ | $\left[\begin{array}{c} 13 \\ 6 \end{array} \right]^2 \left[\begin{array}{c} 13 \\ 6 \end{array} \right]_6$ | T: 15,12 | $\frac{317}{150}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---------------------------------------|---|-----------|--------------------|
| x^{15} | $+ 870x^{13} - 5510x^{12} +$ | | | |
| $239105x^{11}$ | $- 3288252x^{10} +$ | | | |
| $29203725x^9$ | $- 524540110x^8 +$ | | | |
| $50x^{15} - 5x^{14} - 25x^{13} + 25x^{12} -$ | $3026616030x^7 - 18910086840x^6 +$ | $\left[\begin{array}{c} 3 & 13 \\ 2 & 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $50x^{11} - 30x^{10} + 25x^9 + 25x^8 -$ | $263823947993x^5 - 963794746400x^4 +$ | | | |
| $25x^6 + 45x^5 - 50x^3 + 50x^2 -$ | $3695059835020x^3$ | | | |
| $25x + 35$ | $818354359360x^2$ | | | |
| | $54878159119920x - 72949846587584$ | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|---|-----------|--------------------|
| $x^{15} + 1045x^{13} - 211090x^{12} +$ $2109855x^{11} - 73405398x^{10} -$ $1185939150x^9 - 93790314365x^8 +$ $2893936358005x^7 +$ $20244205810840x^6 +$ $45300361164278x^5 -$ $5535164894574975x^4 +$ $365205156289692620x^3 -$ $1081463460082766365x^2 -$ $80494478850702146395x -$ 1248579295969967641801 | | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} + 60x^{14} + 25x^{13} - 50x^{12} +$ $50x^{11} + 15x^{10} + 50x^9 + 50x^8 +$ $50x^7 + 50x^6 + 55x^5 + 50x^3 -$ $50x^2 - 50x + 20$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{15} - 195x^{13} - 680x^{12} + 13580x^{11} -$ $393814x^{10} + 7581025x^9 -$ $22825080x^8 + 269495055x^7 -$ $6591514330x^6 + 24500134862x^5 +$ $37703151300x^4 - 122666668580x^3 +$ $557233551480x^2 - 1064197847680x +$ 948128056448 | | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} - 20x^{14} + 50x^{13} + 25x^{11} +$ $35x^{10} + 25x^9 + 50x^8 - 50x^7 -$ $25x^6 + 5x^5 + 25x^4 - 50x^3 +$ $25x - 30$ | $x^{15} + 30x^{13} - 220x^{12} + 1230x^{11} -$ $5071x^{10} + 18400x^9 - 67820x^8 +$ $253430x^7 + 377480x^6 - 7450243x^5 +$ $34522450x^4 - 83165880x^3 +$ $110545270x^2 - 86805480x + 22391507$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{15} + 40x^{14} + 50x^{13} - 25x^{12} +$ $25x^{11} + 25x^{10} + 50x^9 + 25x^8 -$ $50x^7 - 35x^5 - 25x^4 + 25x^3 -$ $50x - 60$ | $x^{15} - 70x^{13} - 305x^{12} - 545x^{11} -$ $2764x^{10} - 11725x^9 - 8630x^8 +$ $26705x^7 - 19305x^6 - 78253x^5 +$ $252425x^4 - 45905x^3 - 1310520x^2 +$ $195520x + 2025088$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} + 20x^{14} - 25x^{13} - 25x^{11} -$ $50x^{10} + 25x^9 + 25x^8 - 25x^7 +$ $25x^6 - 20x^5 - 50x^3 - 50x^2 +$ $50x + 30$ | $x^{15} - 30x^{13} - 110x^{12} + 255x^{11} +$ $1658x^{10} + 2100x^9 - 9860x^8 -$ $60045x^7 - 46440x^6 + 506118x^5 +$ $867350x^4 - 2020755x^3 - 4747010x^2 +$ $49380x + 122396$ | $\left[\frac{13}{6} \right]_6^2$ | T: 15, 12 | $\frac{317}{150}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---------------------------------|---------------------------------------|---|-----------|--------------------|
| $x^{15} + 5x^{14} - 10x^5 + 10$ | $x^{15} - 1980x^{13} - 12485x^{12} +$ | | | |
| | $1534005x^{11} + 27949933x^{10} -$ | | | |
| | $212600025x^9 - 9366562810x^8 -$ | | | |
| | $59091380920x^7 + 561794767160x^6 +$ | | | |
| | $10177773850233x^5 +$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| | $59309875063725x^4 +$ | | | |
| | $148308986308120x^3 +$ | | | |
| | $110017106532190x^2 -$ | | | |
| | $347958102024995x -$ | | | |
| | 856765043995619 | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{15} - 30x^{13} + 50x^{12} + 1030x^{11} -$ $1867x^{10} - 33900x^9 - 137110x^8 -$ $378320x^7 - 209690x^6 + 6713223x^5 +$ $24236850x^4 + 46922170x^3 +$ $93571290x^2 + 110192430x + 33468301$ | $x^{15} - 30x^{13} - 10x^{12} + 1030x^{11} -$ $1867x^{10} - 33900x^9 - 137110x^8 -$ $378320x^7 - 209690x^6 + 6713223x^5 +$ $24236850x^4 + 46922170x^3 +$ $93571290x^2 + 110192430x + 33468301$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} + 35x^{14} - 25x^{13} + 25x^{12} +$ $50x^{11} - 15x^{10} - 25x^9 - 50x^8 -$ $50x^7 + 50x^6 - 25x^5 - 50x^4 -$ $25x^3 - 25x^2 + 50x - 10$ | $x^{15} + 55x^{13} - 30x^{12} + 330x^{11} +$ $5556x^{10} - 17725x^9 + 99420x^8 -$ $19120x^7 + 154820x^6 + 2095457x^5 -$ $4239950x^4 + 15301495x^3 -$ $23183270x^2 + 23871220x - 18766732$ | $\left[\begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 12 | $\frac{317}{150}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{15} + 870x^{13} - 5510x^{12} + 346405x^{11} -$ $3568972x^{10} + 68940975x^9 -$ $475005210x^8 + 4775475530x^7 -$ $9189136040x^6 + 121979517163x^5 -$ $103070352900x^4 - 838033355680x^3 -$ $15737086148160x^2 -$ $39308816611520x -$ 154725632882944 | | $\left[\begin{array}{c} \frac{13}{6} \\ \frac{13}{6} \\ \frac{13}{6} \end{array} \right]_6^2$ | T: 15, 12 | $\frac{317}{150}$ |
| $x^{15} - 60x^{14} + 25x^{13} + 50x^{12} -$ $20x^{10} - 50x^8 - 50x^7 - 50x^6 -$ $20x^5 - 50x^3 + 50x - 20$ | $x^{15} + 25x^{13} - 250x^{12} - 150x^{11} -$ $4520x^{10} + 28875x^9 - 84450x^8 -$ $26300x^7 + 238250x^6 - 184025x^5 -$ $1357500x^4 + 671125x^3 + 958750x^2 -$ $4556500x - 3122600$ | $\left[\begin{array}{c} \frac{3}{2} \\ \frac{13}{6} \\ \frac{13}{6} \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{15} + 40x^{14} - 25x^{13} + 25x^{12} + 45x^{10} + 50x^9 - 50x^8 - 50x^7 + 25x^6 - 60x^5 + 50x^4 - 25x^3 + 50x^2 - 25x - 45$ | $x^{15} + 145x^{13} - 3190x^{12} - 75545x^{11} - 1415548x^{10} - 25881775x^9 - 450262990x^8 - 5677881145x^7 - 55079158860x^6 - 339782053747x^5 - 896116490850x^4 + 2643526880570x^3 + 14816618460260x^2 - 17526371475320x - 168277192644976$ | $\left[\begin{array}{c} \frac{3}{2} \quad \frac{13}{6} \\ \frac{13}{6} \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} + 60x^{14} + 50x^{12} + 50x^{11} + 40x^{10} + 25x^7 - 25x^6 - 45x^5 - 50x^4 + 50x^3 - 25x - 60$ | $x^{15} - 55x^{13} - 410x^{12} - 320x^{11} + 6423x^{10} + 30725x^9 + 5440x^8 - 246620x^7 - 485565x^6 + 196118x^5 + 704600x^4 + 5079920x^3 + 14394865x^2 - 8978095x - 37685789$ | $\left[\begin{array}{c} \frac{3}{2} \quad \frac{13}{6} \\ \frac{13}{6} \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{15} + 40x^{14} - 50x^{13} - 25x^{12} -$ $25x^{11} - 35x^{10} + 50x^9 - 25x^8 +$ $25x^7 + 15x^5 + 25x^4 + 25x^2 -$ $25x + 30$ | $x^{15} + 445x^{13} - 2390x^{12} +$ $60730x^{11} - 639728x^{10} + 4036350x^9 -$ $49042540x^8 + 114065405x^7 -$ $897692760x^6 + 8218944593x^5 -$ $24294343350x^4 + 435942252120x^3 -$ $692552945640x^2 + 2343087953380x -$ 3717571630936 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} + 30x^{14} + 25x^{13} + 25x^{12} +$ $25x^{11} - 15x^{10} - 25x^9 - 25x^8 +$ $50x^7 + 20x^5 + 25x^4 + 25x^3 +$ $25x^2 + 25x + 45$ | $x^{15} - 30x^{13} - 60x^{12} - 70x^{11} + 83x^{10} -$ $5400x^9 - 105360x^8 - 351720x^7 +$ $547110x^6 + 4217793x^5 + 3543350x^4 -$ $10456880x^3 - 18462360x^2 -$ $5760370x - 340079$ | $\left[\begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 12 | $\frac{317}{150}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{15} + 40x^{14} + 50x^{13} + 50x^{12} +$ $25x^{11} - 20x^{10} - 25x^9 + 25x^8 +$ $50x^7 + 35x^5 + 50x^4 - 25x^2 +$ $25x - 60$ | $x^{15} + 55x^{13} - 70x^{12} + 630x^{11} -$ $1691x^{10} - 2225x^9 + 27780x^8 +$ $5530x^7 + 154105x^6 - 862148x^5 -$ $1879050x^4 + 7090920x^3 +$ $3513895x^2 - 22009555x + 14203547$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} - 20x^{14} - 50x^{13} + 25x^{12} +$ $25x^{10} - 25x^9 + 50x^8 - 50x^6 +$ $50x^5 + 25x^4 - 25x^2 - 50x + 60$ | $x^{15} - 1980x^{13} - 385x^{12} + 1605230x^{11} -$ $13626547x^{10} - 302261025x^9 +$ $3498986040x^8 + 16817518355x^7 -$ $320507636240x^6 - 34688112052x^5 +$ $11660723759850x^4$ $2294623209780x^3$ $59693131502510x^2$ $618979771311495x$ 4854904674847249 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{15} - 330x^{13} - 1210x^{12} + 30305x^{11} +$ $260568x^{10} - 154275x^9 - 10128910x^8 -$ $42691220x^7 + 7581860x^6 +$ $562491853x^5 + 1663883100x^4 +$ $1012052470x^3 - 3688680160x^2 -$ $6647306820x + 2241851216$ | $x^{15} - 330x^{13} - 1210x^{12} + 30305x^{11} +$ $260568x^{10} - 154275x^9 - 10128910x^8 -$ $42691220x^7 + 7581860x^6 +$ $562491853x^5 + 1663883100x^4 +$ $1012052470x^3 - 3688680160x^2 -$ $6647306820x + 2241851216$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} + 35x^{14} + 25x^{13} + 50x^{12} +$ $50x^{11} - 20x^{10} + 50x^9 - 25x^8 +$ $25x^6 - 25x^5 - 50x^4 + 25x^2 +$ $25x - 5$ | $x^{15} + 5x^{13} - 30x^{12} + 105x^{11} + 26x^{10} -$ $725x^9 + 1345x^8 - 345x^7 - 3055x^6 +$ $6512x^5 - 4450x^4 - 480x^3 - 1720x^2 +$ $9345x - 6587$ | $\left[\begin{array}{c} 13 \\ 6 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 12 | $\frac{317}{150}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{15} - 55x^{14} + 25x^{13} - 25x^{11} + 10x^{10} + 25x^8 - 50x^7 + 50x^6 - 30x^5 - 25x^4 - 25x^3 - 50x^2 + 50x + 60$ | $x^{15} - 870x^{13} - 2030x^{12} + 213005x^{11} + 1215796x^{10} - 15537475x^9 - 30974030x^8 + 1182008680x^7 - 33875480x^6 - 28843695423x^5 + 212555012800x^4 + 19955811470x^3 - 2506537525920x^2 + 37921504441220x + 147157357811488$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} - 15x^{14} - 50x^{12} - 25x^{11} - 30x^{10} - 50x^8 + 50x^6 - 55x^5 - 50x^4 + 25x^3 - 25x^2 + 45$ | $x^{15} + 445x^{13} - 440x^{12} + 59980x^{11} - 114178x^{10} + 3139975x^9 - 9239940x^8 + 17249805x^7 + 506896690x^6 - 4743791302x^5 + 24549165900x^4 + 60317682220x^3 - 3598044197640x^2 + 22809520227880x - 32999854826416$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{15} - 45x^{14} - 25x^{13} - 25x^{12} - 25x^{11} - 25x^{10} - 25x^9 - 25x^8 + 50x^7 - 25x^6 - 25x^5 - 50x^2 + 50x + 20$ | $x^{15} + 100x^{13} - 350x^{12} + 2625x^{11} - 15070x^{10} + 53750x^9 - 243250x^8 + 919375x^7 - 1532500x^6 + 676300x^5 - 1131250x^4 + 2624375x^3 + 5216250x^2 - 11618750x + 5112250$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} - 40x^{14} - 25x^{13} + 50x^{12} + 50x^{11} - 15x^{10} - 50x^7 + 25x^4 - 50x^3 - 25x^2 - 50x - 40$ | $x^{15} - 50x^{12} + 350x^{11} + 2985x^{10} - 27000x^9 + 8400x^8 + 497550x^7 - 1072750x^6 - 3112475x^5 + 6697500x^4 - 3348000x^3 - 14392500x^2 + 39042500x - 24594325$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{15} + 55x^{14} - 50x^{13} - 25x^{12} +$ $25x^{11} + 20x^{10} - 25x^9 - 50x^8 +$ $50x^7 + 50x^6 + 25x^5 + 25x^3 +$ $25x^2 - 50x - 15$ | $x^{15} - 55x^{13} - 165x^{12} - 9295x^{11} -$ $79563x^{10} - 774400x^9 - 11381865x^8 -$ $52489195x^7 + 205983140x^6 +$ $2133070643x^5 + 101189275x^4 -$ $41142148355x^3 - 107049687965x^2 +$ $41166871680x + 284541005639$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|---|-----------|--------------------|
| $x^{15} - 1980x^{13} - 3410x^{12} +$ $1616505x^{11} + 20734923x^{10} -$ $223520275x^9 - 5584305485x^8 -$ $19751410195x^7 + 289372922960x^6 +$ $3100114797813x^5 +$ $6453402547350x^4 -$ $64937928610555x^3 -$ $419145229312810x^2 -$ $768023214540120x +$ 4003403986826321 | | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} - 35x^{14} + 25x^{13} + 50x^{12} +$ $25x^{11} + 40x^{10} - 50x^9 + 25x^8 +$ $50x^7 + 50x^6 - 40x^5 + 25x^3 +$ $25x^2 - 25x - 30$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{15} + 5x^{14} + 10x^{10} - 5x^5 - 5$ | $x^{15} + 5x^{13} - 70x^{12} - 20x^{11} + 4514x^{10} +$ $11525x^9 + 89680x^8 - 46470x^7 +$ $1377380x^6 + 821257x^5 + 9019950x^4 -$ $3719005x^3 + 32745420x^2 +$ $22843570x - 17553058$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{15} - 23430x^{13} - 597465x^{12} +$ $186955780x^{11} + 9338723152x^{10} -$ $415703670525x^9$ $37860974625540x^8$ $710148631351720x^7$ $1753498172582365x^6$ $32792930649221248x^5$ $1932445207908323350x^4$ $6336962680591484920x^3$ $113168059239083077460x^2$ $831648629538467777520x$ 1606367164051466193344 | $+$ $-$ $-$ $-$ $+$ $+$ $-$ $+$ $+$ $-$ $+$ $-$ $+$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} - 60x^{14} - 25x^{12} + 40x^{10} -$ $50x^9 + 50x^8 - 25x^7 + 5x^5 +$ $50x^3 + 50x^2 + 50x - 30$ | | | | |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{15} - 55x^{14} + 25x^{13} + 25x^{12} + 25x^{11} - 15x^{10} + 50x^9 + 50x^8 - 25x^7 - 25x^5 + 25x^4 - 50x^3 + 50x + 55$ | $x^{15} + 30x^{13} - 45x^{12} + 55x^{11} + 4x^{10} - 22725x^9 + 164480x^8 - 1032895x^7 + 5531055x^6 - 22532033x^5 + 87234575x^4 - 294935655x^3 + 668636420x^2 - 841746080x + 432919312$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} - 10x^{14} - 10x^{10} - 5$ | $x^{15} - 55x^{13} - 440x^{12} - 14520x^{11} - 66968x^{10} + 57475x^9 - 2763640x^8 + 15449280x^7 + 484676390x^6 + 1383029153x^5 - 9761021600x^4 - 61706896955x^3 - 71866865840x^2 + 230580416880x + 491497323834$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{15} + 5x^{14} - 25x^{12} - 50x^{11} -$ $45x^{10} + 50x^9 + 25x^8 - 25x^6 +$ $40x^5 - 50x^4 + 25x^3 - 25x^2 - 45$ | $x^{15} + 30x^{13} - 30x^{12} + 255x^{11} -$ $854x^{10} - 2100x^9 - 7180x^8 - 28845x^7 -$ $27280x^6 + 23762x^5 + 93550x^4 +$ $184045x^3 + 70630x^2 - 213180x -$ 202132 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} - 35x^{14} - 50x^{13} + 50x^{11} +$ $45x^{10} - 25x^9 - 50x^8 - 50x^7 -$ $50x^6 + 20x^5 + 50x^4 - 50x^2 +$ $25x - 60$ | $x^{15} + 30x^{13} - 355x^{12} - 395x^{11} -$ $10864x^{10} - 36225x^9 - 113130x^8 -$ $513095x^7 - 42555x^6 - 1432823x^5 +$ $5343925x^4 + 6993445x^3 +$ $8946380x^2 + 19222470x + 20384798$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{15} + 30x^{14} - 25x^{13} - 25x^{12} +$ $25x^{10} + 25x^9 - 50x^8 - 50x^7 +$ $25x^6 + 25x^4 - 25x^3 - 25x^2 -$ $25x - 45$ | $x^{15} - 55x^{13} - 90x^{12} - 20x^{11} -$ $3258x^{10} - 17275x^9 - 86390x^8 -$ $2920x^7 - 858210x^6 - 1989727x^5 -$ $2449350x^4 + 34896295x^3 -$ $18668690x^2 - 48123820x + 15038344$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|-----------|--------------------|
| $x^{15} - 1045x^{13} - 35530x^{12} +$ $3698255x^{11} + 245562251x^{10} +$ $7486923400x^9 + 131679432170x^8 +$ $2686878589780x^7 +$ $13710588785520x^6 -$ $3014007579407583x^5 -$ $35872149058368700x^4 +$ $302639565887650420x^3 -$ $28004988402422553445x^2 +$ $43816333091522606120x -$ 6606865883145344689477 | | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} + 15x^{14} + 25x^{13} + 25x^{12} +$ $25x^{11} - 25x^{10} - 50x^9 + 50x^7 -$ $50x^6 - 15x^5 + 25x^3 + 25x^2 -$ $50x - 20$ | | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{15} - 20x^{14} + 50x^{13} - 25x^{12} +$ $25x^{11} - 5x^{10} + 50x^9 + 25x^8 -$ $25x^6 + 40x^5 - 25x^3 + 25x^2 -$ $25x + 45$ | $x^{15} - 30x^{13} - 60x^{12} + 580x^{11} +$ $2813x^{10} - 15150x^9 - 3960x^8 +$ $171530x^7 - 253690x^6 - 623537x^5 +$ $2126350x^4 - 816080x^3 - 4235810x^2 +$ $9154530x - 2001089$ | $\left[\frac{13}{6} \frac{13}{6} \right]_6^2$ | T: 15, 12 | $\frac{317}{150}$ |
| $x^{15} - 35x^{14} - 25x^{13} - 5x^{10} -$ $50x^7 + 25x^6 - 35x^5 - 25x^4 -$ $25x^3 + 50x^2 - 25x - 15$ | $x^{15} + 25x^{13} - 300x^{12} - 1050x^{11} +$ $3820x^{10} + 36375x^9 - 16700x^8 -$ $554300x^7 - 4750x^6 + 4652575x^5 -$ $4043750x^4 - 7734375x^3 +$ $9106750x^2 + 2181500x - 3754300$ | $\left[\frac{3}{2} \frac{13}{6} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|---|-----------|--------------------|
| $x^{15} - 2695x^{13} - 1980x^{12} +$ $1217205x^{11} - 48709364x^{10} -$ $364146475x^9 + 21077264670x^8 -$ $258854736745x^7 -$ $2367338323130x^6 +$ $76716445623807x^5 -$ $5633312335378450x^4 -$ $1980852163758930x^3 -$ $65670518125255780x^2 -$ $432141911442141780x +$ 940760179631440168 | | $\left[\begin{array}{c} 3 & 13 \\ 2 & 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} - 40x^{14} + 50x^{13} - 50x^{12} +$ $50x^{11} + 10x^{10} - 25x^9 + 25x^7 -$ $25x^6 - 35x^5 - 25x^4 - 50x^2 -$ $50x + 55$ | | | | |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|--------------------|
| $x^{15} + 60x^{14} + 25x^{11} - 20x^{10} +$ $25x^9 + 25x^8 + 50x^6 - 50x^5 +$ $25x^4 - 25x^3 + 50x^2 + 25x + 35$ | $x^{15} - 30x^{13} - 110x^{12} + 580x^{11} +$ $2893x^{10} - 4400x^9 - 41060x^8 -$ $18120x^7 + 281160x^6 + 578203x^5 -$ $832400x^4 - 5440730x^3 - 9323010x^2 -$ $6858820x - 1799329$ | $\left[\begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 12 | $\frac{317}{150}$ |
| $x^{15} + 20x^{14} + 50x^{13} + 25x^{12} -$ $30x^{10} + 50x^9 - 25x^7 + 25x^6 +$ $55x^5 - 50x^4 + 25x^3 + 25x + 45$ | $x^{15} + 20x^{13} - 190x^{12} + 105x^{11} -$ $3478x^{10} + 12850x^9 - 3590x^8 +$ $142755x^7 - 82960x^6 - 1445392x^5 +$ $2286650x^4 - 15203205x^3 +$ $62376110x^2 - 118076270x +$ 129597154 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \right]_6^2 \left[\begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{15} - 145x^{13} - 4930x^{12} - 36395x^{11} +$ $1364856x^{10} + 10954025x^9 -$ $227011130x^8 - 588758870x^7 +$ $47051780220x^6 - 208354022688x^5 -$ $2490136411200x^4 +$ $35933086343520x^3 -$ $193113577046720x^2 +$ $533777451083520x -$ 600491038956032 | | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} - 60x^{14} - 25x^{13} - 50x^{12} +$ $50x^{11} - 25x^8 - 25x^6 - 60x^5 +$ $25x^4 + 50x^2 - 25x + 30$ | | | | |
| $x^{15} + 5x^{14} + 50x^{13} + 50x^{12} -$ $25x^{11} + 30x^{10} - 50x^9 - 50x^8 +$ $25x^7 + 25x^6 + 20x^5 - 50x^2 -$ $50x + 5$ | $x^{15} - 80x^{13} - 485x^{12} - 1095x^{11} +$ $418x^{10} - 3275x^9 - 6060x^8 + 8955x^7 +$ $92185x^6 - 174227x^5 + 511475x^4 -$ $1179405x^3 + 328190x^2 + 250380x -$ 197704 | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|--------------------|
| $x^{15} + 45x^{14} + 25x^{13} + 25x^{12} + 25x^{11} - 10x^{10} + 50x^9 + 25x^8 - 25x^7 + 50x^6 - 50x^5 + 25x^4 - 25x^3 - 25x^2 - 30$ | $x^{15} - 55x^{13} - 110x^{12} + 630x^{11} + 11043x^{10} - 11275x^9 - 162760x^8 - 378070x^7 + 1814185x^6 + 8007098x^5 - 2651650x^4 - 103366980x^3 - 351656685x^2 - 568918545x - 417517529$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} - 20x^{14} - 25x^{13} - 25x^{11} - 30x^{10} + 50x^9 - 25x^8 + 25x^7 - 50x^6 - 60x^5 - 50x^4 - 50x^3 + 25x^2 + 50x - 45$ | $x^{15} - 20x^{13} - 105x^{12} + 405x^{11} + 3226x^{10} - 2725x^9 - 58280x^8 - 9495x^7 + 849445x^6 + 1004397x^5 - 6332325x^4 - 15673255x^3 + 11692980x^2 + 75117120x + 64676768$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|--------------------|
| $x^{15} - 30x^{13} - 110x^{12} + 580x^{11} + 3283x^{10} - 23900x^9 + 68140x^8 + 44280x^7 - 937590x^6 + 1055563x^5 + 7396600x^4 - 20139830x^3 + 5972790x^2 + 22057730x - 11671009$ | $x^{15} - 30x^{13} - 110x^{12} + 580x^{11} + 3283x^{10} - 23900x^9 + 68140x^8 + 44280x^7 - 937590x^6 + 1055563x^5 + 7396600x^4 - 20139830x^3 + 5972790x^2 + 22057730x - 11671009$ | $\left[\frac{13}{6} \frac{13}{6} \right]_6^2$ | T: 15, 12 | $\frac{317}{150}$ |
| $x^{15} + 5x^{14} - 25x^{13} - 50x^{12} + 50x^{11} + 25x^{10} - 25x^9 - 25x^8 - 50x^6 + 25x^2 + 20$ | $x^{15} - 20x^{13} - 370x^{12} + 1830x^{11} - 1151x^{10} + 19400x^9 - 246970x^8 + 1586180x^7 - 6903720x^6 + 18704247x^5 - 29208800x^4 + 12037870x^3 + 76875470x^2 - 207704830x + 201369197$ | $\left[\frac{3}{2} \frac{13}{6} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{15} + 60x^{14} - 50x^{13} - 25x^{11} - 35x^{10} - 25x^9 + 50x^8 + 25x^7 + 50x^6 - 10x^5 + 50x^4 + 50x^2 - 55$ | $x^{15} - 220x^{13} - 55x^{12} + 9680x^{11} - 114169x^{10} - 117975x^9 + 6025195x^8 + 25634455x^7 - 37259530x^6 - 1422586473x^5 - 5046586325x^4 - 692459405x^3 - 4944491970x^2 - 10930844155x - 604993627777$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} - 45x^{14} - 25x^{13} + 25x^{12} - 25x^{10} + 25x^9 - 50x^8 - 25x^6 - 45x^5 + 50x^4 - 50x^2 - 25x - 10$ | $x^{15} + 195x^{13} - 3940x^{12} + 3180x^{11} - 169398x^{10} - 481025x^9 + 14403060x^8 - 309137195x^7 + 202867590x^6 + 8944854628x^5 - 6115395600x^4 - 66605623980x^3 - 558668018440x^2 + 961573169680x - 523485346976$ | $\left[\frac{13}{6} \right]_6^2$ | T: 15, 12 | $\frac{317}{150}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{15} - 55x^{14} - 50x^{13} - 25x^{12} -$ $25x^{11} - 25x^{10} - 25x^9 + 50x^8 +$ $25x^7 - 25x^5 - 50x^4 + 25x^3 +$ $50x^2 + 25x - 15$ | $x^{15} + 55x^{13} - 1045x^{12} + 3080x^{11} -$ $54461x^{10} - 1070850x^9 - 3792745x^8 +$ $2698905x^7 - 54013795x^6 -$ $233682823x^5 + 2363789450x^4 +$ $3615521745x^3 - 58468707055x^2 -$ $166035135805x - 149712161753$ | $\left[\begin{array}{c} 3 & 13 \\ 2 & 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------|---|-----------|--------------------|
| $x^{15} + 1045x^{13} - 70015x^{12} +$ $4581280x^{11} - 112807123x^{10} -$ $2119620525x^9 + 32495824735x^8 +$ $880764245955x^7 +$ $14842974811115x^6 +$ $727263688405188x^5 -$ $1647726572622350x^4 +$ $185053744462347420x^3 -$ $8853448674547030840x^2 +$ $33226802389771150380x +$ 5880938348072167672039 | | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{15} + 60x^{14} - 50x^{13} - 50x^{12} -$ $50x^{11} + 10x^{10} + 25x^9 - 25x^8 +$ $25x^7 + 50x^5 + 50x^4 - 50x^3 -$ $25x^2 - 15$ | $x^{15} - 45x^{13} - 120x^{12} + 1130x^{11} +$ $3079x^{10} - 12975x^9 - 35270x^8 +$ $145080x^7 + 204105x^6 - 1991988x^5 +$ $3058700x^4 + 632020x^3 - 9337705x^2 +$ $8259095x - 5892953$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} - 35x^{14} - 25x^{13} - 50x^{12} +$ $25x^{11} - 30x^{10} - 50x^9 + 50x^8 +$ $25x^6 - 5x^5 - 50x^3 + 50x^2 -$ $50x - 35$ | $x^{15} + 20x^{13} - 190x^{12} - 220x^{11} -$ $3933x^{10} + 3100x^9 + 4860x^8 +$ $159330x^7 + 704190x^6 + 988923x^5 +$ $5832400x^4 + 5201920x^3 -$ $2961240x^2 + 28962180x - 59300451$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} + 35x^{14} - 25x^{13} - 50x^{12} -$ $25x^{11} + 45x^{10} - 25x^9 + 50x^7 +$ $25x^6 - 30x^5 + 25x^4 + 50x^3 +$ $50x - 30$ | $x^{15} + 30x^{13} - 5x^{12} + 280x^{11} - 79x^{10} +$ $775x^9 - 430x^8 - 70x^7 + 1645x^6 -$ $3833x^5 + 5925x^4 - 6030x^3 + 4005x^2 -$ $1530x + 243$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|--------------------|
| $x^{15} + 30x^{14} + 25x^{13} - 45x^{10} -$ $50x^9 + 25x^8 - 15x^5 + 25x^4 +$ $25x^3 - 50x - 45$ | $x^{15} - 225x^{12} - 1575x^{11} + 2530x^{10} -$ $15625x^9 + 37500x^8 - 86625x^7 +$ $631625x^6 + 3258175x^5 + 2284375x^4 +$ $18083125x^3 + 22306250x^2 +$ $20117500x + 112021000$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} + 30x^{14} + 50x^{13} + 50x^{12} -$ $25x^{11} - 45x^{10} - 25x^9 + 25x^8 -$ $50x^5 - 50x^4 + 50x^2 + 25x + 30$ | $x^{15} + 20x^{13} - 135x^{12} - 1945x^{11} -$ $10722x^{10} - 46525x^9 - 110610x^8 +$ $177055x^7 + 1996135x^6 + 5447413x^5 +$ $6201975x^4 + 2516345x^3 +$ $6567340x^2 + 20359430x + 16604926$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------|--|-----------|--------------------|
| $x^{15} - 2695x^{13} - 4620x^{12} +$ $1893705x^{11} + 16212724x^{10} +$ $51670025x^9 - 5696264970x^8 -$ $422400629695x^7 -$ $4319384355770x^6 +$ $38878558215717x^5 +$ $1185759718670450x^4 +$ $29044866172120920x^3 +$ $369778290974350720x^2 -$ $417591365241479220x$ 13068886118326260728 | | | | |
| $x^{15} + 40x^{14} - 25x^{13} - 50x^{12} -$ $35x^{10} - 25x^9 + 50x^8 - 25x^7 +$ $35x^5 + 25x^4 + 50x^3 + 25x^2 -$ $50x - 30$ | | $\left[\begin{matrix} 3 & 13 \\ 2 & 6 \end{matrix} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|--------------------|
| $x^{15} + 10x^{14} - 25x^{13} - 50x^{10} + 50x^7 + 50x^6 + 30x^5 + 50x^4 - 25x^3 - 30$ | $x^{15} + 330x^{13} - 1045x^{12} + 47905x^{11} - 239151x^{10} + 3950650x^9 - 21730995x^8 + 191849130x^7 - 949332120x^6 + 5059645492x^5 - 18742875800x^4 + 54838125045x^3 - 101897806230x^2 - 21356999730x - 2716082523$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} - 20x^{14} + 50x^{13} + 25x^{12} - 25x^{10} + 25x^9 + 25x^8 + 50x^7 + 20x^5 + 25x^3 + 25x + 60$ | $x^{15} - 30x^{13} - 35x^{12} + 305x^{11} + 713x^{10} - 650x^9 - 3585x^8 - 3820x^7 - 1240x^6 - 932x^5 - 1650x^4 + 245x^3 + 1840x^2 + 1130x + 211$ | $\left[\begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 12 | $\frac{317}{150}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|--------------------|
| $x^{15} + 5x^{14} + 10x^{10} + 10$ | $x^{15} - 55x^{13} - 110x^{12} - 11220x^{11} -$ $130922x^{10} - 1031525x^9 - 8967310x^8 -$ $8145720x^7 + 390038660x^6 +$ $1330735373x^5 - 8025464150x^4 -$ $61381068155x^3 - 143808307610x^2 -$ $120723723120x - 31464512574$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} - 55x^{14} - 50x^{13} - 25x^{12} -$ $55x^{10} + 25x^9 + 50x^8 - 25x^6 -$ $30x^5 + 25x^4 + 25x^3 - 25x^2 +$ $50x - 40$ | $x^{15} - 55x^{13} - 440x^{12} + 1980x^{11} +$ $30382x^{10} + 1101100x^9 - 13063765x^8 +$ $62367030x^7 - 476795660x^6 +$ $3251512968x^5 - 6114747100x^4 +$ $26699720245x^3 - 186307377190x^2 +$ $98728928155x - 78988781971$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{15} + 55x^{14} - 25x^{12} - 25x^{11} +$ $15x^{10} - 50x^9 - 50x^8 + 25x^7 -$ $50x^6 - 45x^5 + 25x - 45$ | $x^{15} - 20x^{13} - 195x^{12} + 405x^{11} +$ $5914x^{10} - 11975x^9 - 59070x^8 +$ $135005x^7 + 242005x^6 - 512533x^5 -$ $800175x^4 + 1476995x^3 - 358930x^2 +$ $2321020x - 3308968$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} + 15x^{14} - 25x^{13} + 50x^{12} +$ $25x^9 + 50x^8 - 25x^7 + 25x^6 -$ $20x^5 - 50x^4 + 25x^3 + 25x^2 +$ $25x + 15$ | $x^{15} - 105x^{13} - 60x^{12} + 4580x^{11} +$ $1098x^{10} - 111275x^9 + 108690x^8 +$ $1729630x^7 - 4502640x^6 -$ $13624607x^5 + 67933600x^4 -$ $32750705x^3 - 410184060x^2 +$ $951033980x - 965308994$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|--------------------|
| $x^{15} - 20x^{14} + 50x^{13} + 50x^{12} - 50x^{11} - 45x^{10} + 25x^8 + 25x^7 + 25x^6 + 30x^5 + 25x^3 - 25x^2 + 50x - 60$ | $x^{15} + 30x^{13} - 20x^{12} + 355x^{11} - 436x^{10} + 1900x^9 - 2620x^8 + 3755x^7 - 4520x^6 + 442x^5 - 3300x^4 - 2655x^3 - 3780x^2 - 180x - 108$ | $\left[\begin{array}{c} 13 \\ 6 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 12 | $\frac{317}{150}$ |
| $x^{15} + 15x^{14} + 25x^{13} + 25x^{11} - 60x^{10} + 50x^9 + 50x^8 + 50x^7 - 50x^6 - 35x^5 + 25x^4 - 50x^3 - 50x^2 + 50x + 5$ | $x^{15} + 30x^{13} - 5x^{12} + 280x^{11} - 79x^{10} + 775x^9 - 430x^8 + 230x^7 - 2255x^6 + 6757x^5 - 8325x^4 + 6870x^3 - 3645x^2 + 1170x - 27$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} + 30x^{14} + 25x^{13} - 50x^{11} - 10x^{10} - 50x^9 - 25x^7 + 10x^5 - 50x^4 - 25x^3 - 25x + 55$ | $x^{15} - 30x^{13} - 10x^{12} - 670x^{11} - 217x^{10} + 9100x^9 - 93360x^8 + 8680x^7 + 745610x^6 - 1055727x^5 - 6567650x^4 + 3992520x^3 + 80409190x^2 - 172473870x - 119669519$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \quad \begin{array}{c} 13 \\ 6 \end{array} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|--------------------|
| $x^{15} - 35x^{14} + 25x^{13} - 30x^{10} -$ $50x^9 + 50x^8 - 50x^7 + 25x^6 +$ $60x^5 + 50x + 45$ | $x^{15} - 55x^{13} - 165x^{12} - 14245x^{11} -$ $126423x^{10} + 42350x^9 + 7276335x^8 +$ $70458905x^7 + 114186490x^6 -$ $2613030937x^5 - 16092754975x^4 -$ $18500440805x^3 + 95543618885x^2 +$ $320276174130x + 296681176429$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |
| $x^{15} + 35x^{14} - 25x^{12} + 50x^{11} -$ $35x^{10} + 50x^9 + 25x^8 + 50x^6 +$ $20x^5 + 50x^4 - 50x^3 - 50x + 55$ | $x^{15} - 330x^{13} - 715x^{12} + 31130x^{11} +$ $153252x^{10} - 653400x^9 - 5346990x^8 -$ $4089195x^7 + 60420140x^6 +$ $165791538x^5 + 72240025x^4 -$ $1475386880x^3 - 1392545440x^2 -$ $1248371520x + 11654214704$ | $\left[\begin{array}{c} 3 \\ 2 \end{array} \frac{13}{6} \right]_6^2$ | T: 15, 30 | $\frac{1601}{750}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|---------------------|
| $x^{15} + 25x^{14} - 50x^{13} + 50x^{12} - 50x^{11} - 25x^8 + 50x^7 + 50x^6 - 45x^5 - 50x^4 - 25x - 60$ | $x^{15} - 10x^{10} + 75x^5 - 500$ | $\left[\begin{array}{c} 23 \\ 12 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} + 50x^{14} - 50x^{13} + 25x^{11} - 30x^{10} - 25x^8 - 25x^7 - 25x^6 - 15x^5 + 50x^4 + 25x^3 - 25x + 60$ | $x^{15} - 20x^{10} + 140x^5 + 160$ | $\left[\begin{array}{c} 23 \\ 12 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} + 25x^{14} + 50x^{13} - 25x^{12} - 15x^{10} + 25x^9 + 50x^8 + 50x^7 - 50x^6 - 30x^5 - 25x^4 - 50x^3 + 25x^2 + 50x - 20$ | $x^{15} - 360x^{10} + 28800x^5 - 691200$ | $\left[\begin{array}{c} 23 \\ 12 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 50x^{13} - 50x^{12} - 25x^{11} - 55x^{10} - 50x^9 - 50x^8 - 50x^7 + 40x^5 + 25x^4 - 50x^3 - 50x^2 + 25x + 40$ | $x^{15} - 45x^{10} + 810x^5 + 135$ | $\left[\begin{array}{c} 23 \\ 12 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|---------------------|
| $x^{15} - 50x^{13} - 25x^{12} + 25x^{11} -$ $50x^{10} + 25x^9 - 50x^8 - 25x^6 +$ $15x^5 - 50x^4 + 50x^3 - 50x - 60$ | $x^{15} - 3520x^{10} + 3726800x^5 -$ 644204000 | $\left[\begin{array}{c} 19 \\ 12 \end{array} \right] \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3167}{1500}$ |
| $x^{15} + 25x^{14} + 50x^{13} - 25x^{12} -$ $25x^{11} + 55x^{10} + 50x^9 + 25x^8 -$ $50x^7 + 25x^6 - 35x^5 + 25x^4 -$ $50x^3 + 50x^2 - 50x + 15$ | $x^{15} - 3700x^{10} - 147200x^5 - 10240$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 8 | $\frac{119}{60}$ |
| $x^{15} + 25x^{14} + 25x^{13} - 25x^{12} -$ $50x^{11} + 30x^{10} + 50x^9 - 25x^8 +$ $50x^7 + 50x^6 - 40x^5 + 25x^3 -$ $50x^2 + 50x - 55$ | $x^{15} - 25x^{10} + 225x^5 - 5$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 8 | $\frac{119}{60}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|---------------------|
| $x^{15} - 50x^{14} - 50x^{13} - 50x^{12} - 50x^{11} + 5x^{10} + 25x^9 - 25x^8 - 25x^7 + 50x^6 + 55x^5 - 25x^4 - 50x^3 + 50x^2 + 25x - 60$ | $x^{15} - 3960x^{10} + 3194400x^5 - 2087220960$ | $\left[\begin{array}{ccc} \frac{19}{12} & \frac{9}{4} & \\ & \frac{9}{4} & \\ & & \frac{12}{12} \end{array} \right]^2$ | T: 15, 38 | $\frac{3167}{1500}$ |
| $x^{15} + 25x^{14} - 50x^{12} - 25x^{11} + 25x^{10} - 50x^9 - 25x^8 + 50x^6 - 30x^5 - 50x^3 - 25x^2 - 50x - 35$ | $x^{15} - 90x^{10} + 7200x^5 - 21600$ | $\left[\begin{array}{ccc} \frac{23}{12} & \frac{9}{4} & \\ & \frac{9}{4} & \\ & & \frac{12}{12} \end{array} \right]^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 25x^{14} + 25x^{13} - 50x^{12} + 20x^{10} - 25x^9 - 25x^8 + 25x^7 + 50x^6 - 45x^5 - 25x^4 - 25x^3 + 50x^2 + 25x + 5$ | $x^{15} - 55x^{10} + 33275x^5 + 805255$ | $\left[\begin{array}{ccc} \frac{19}{12} & \frac{9}{4} & \\ & \frac{9}{4} & \\ & & \frac{12}{12} \end{array} \right]^2$ | T: 15, 38 | $\frac{3167}{1500}$ |
| $x^{15} - 25x^{14} - 50x^{13} - 50x^{11} - 15x^{10} + 50x^9 - 25x^8 - 25x^6 + 10x^5 + 50x^3 - 50x^2 - 50x + 45$ | $x^{15} - 180x^{10} + 9900x^5 - 172800$ | $\left[\begin{array}{ccc} \frac{23}{12} & \frac{9}{4} & \\ & \frac{9}{4} & \\ & & \frac{12}{12} \end{array} \right]^2$ | T: 15, 38 | $\frac{3263}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|---------------------|
| $x^{15} - 50x^{14} + 50x^{13} - 25x^{12} - 25x^{11} + 55x^{10} - 50x^8 - 50x^7 + 25x^6 + 35x^5 + 25x^3 + 50x^2 + 5$ | $x^{15} - 30x^{10} + 585x^5 - 4320$ | $\left[\begin{array}{cc} 23 & 9 \\ 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 50x^{14} - 25x^{13} + 50x^{12} + 50x^{11} + 25x^9 - 25x^8 + 50x^5 + 25x^4 - 50x^3 + 25x^2 - 50x + 20$ | $x^{15} + 2160x^5 - 4320$ | $\left[\begin{array}{cc} 23 & 9 \\ 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 25x^{14} - 25x^{13} - 25x^{12} - 50x^{11} - 60x^{10} - 50x^8 + 25x^7 + 25x^6 + 30x^5 + 50x^4 + 50x^3 - 25x^2 + 25x + 45$ | $x^{15} - 1760x^{10} + 931700x^5 - 80525500$ | $\left[\begin{array}{cc} 19 & 9 \\ 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3167}{1500}$ |
| $x^{15} - 25x^{13} + 50x^{12} + 50x^{11} + 20x^{10} + 50x^9 - 5x^5 - 50x^4 + 50x^3 + 25x + 45$ | $x^{15} - 180x^{10} + 10440x^5 + 4320$ | $\left[\begin{array}{cc} 23 & 9 \\ 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|---------------------|
| $x^{15} + 25x^{14} - 25x^{13} + 25x^{12} +$ $50x^{11} - 10x^{10} + 25x^8 - 50x^7 -$ $50x^6 - 45x^5 + 50x^4 - 25x^3 -$ $50x^2 + 50x - 15$ | $x^{15} - 5x^{10} + 5x^5 - 5$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \right] \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} + 50x^{14} + 25x^{12} - 50x^{11} +$ $15x^{10} + 25x^8 + 50x^6 - 15x^5 +$ $25x^4 - 25x^3 + 25x^2 + 25x - 45$ | $x^{15} - 180x^{10} + 8100x^5 - 691200$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \right] \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 25x^{14} - 25x^{12} - 25x^{11} +$ $25x^{10} - 50x^9 + 50x^7 + 25x^6 +$ $35x^5 + 25x^4 - 25x^3 + 50x^2 - 30$ | $x^{15} - 60x^{10} - 2250x^5 + 172800$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \right] \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 25x^{14} + 25x^{13} + 50x^{12} -$ $25x^{11} + 40x^{10} - 25x^9 + 50x^8 -$ $50x^7 + 50x^6 + 40x^5 - 25x^4 -$ $50x^2 + 5$ | $x^{15} - 240x^{10} - 12600x^5 - 691200$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \right] \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--------------------------------------|---|-----------|---------------------|
| $x^{15} + 50x^{14} + 25x^{12} - 25x^{11} - 35x^{10} + 25x^9 - 50x^8 - 50x^7 - 25x^6 + 5x^5 + 25x^3 + 25x^2 - 25x - 45$ | $x^{15} - 60x^{10} + 1260x^5 + 4320$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 25x^{14} - 25x^{13} - 50x^{11} + 25x^{10} - 25x^9 - 50x^7 + 30x^5 + 25x^4 + 50x^3 - 25x^2 - 25x - 10$ | $x^{15} - 15x^{10} + 165x^5 - 405$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} + 25x^{14} + 25x^{13} - 50x^{11} - 30x^{10} + 50x^7 + 25x^6 + 35x^5 + 50x^4 + 25x^3 - 25x^2 - 50x - 55$ | $x^{15} - 45x^5 - 135$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 50x^{14} + 25x^{13} + 25x^{11} - 30x^{10} + 25x^9 + 50x^8 - 25x^7 - 25x^6 + 10x^5 + 25x^4 - 25x + 35$ | $x^{15} - 570x^{10} - 21600$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 5x^{10} + 5x^5 + 10$ | $x^{15} - 45x^{10} + 1755x^5 - 135$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|--|-----------|---------------------|
| $x^{15} - 25x^{14} + 25x^{12} - 50x^{11} + 55x^{10} - 25x^9 - 50x^8 + 50x^7 - 25x^6 - 50x^3 - 25x^2 - 25x - 20$ | $x^{15} - 20x^{10} + 120x^5 - 160$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \right] \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 25x^{14} + 25x^{12} - 25x^{11} - 40x^{10} + 50x^9 + 25x^8 + 20x^5 - 50x^4 + 50x^2 + 25x + 30$ | $x^{15} - 150x^{10} + 1440x^5 - 4320$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \right] \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 25x^{14} - 25x^{13} + 50x^{12} - 50x^{11} - 50x^{10} - 25x^9 + 50x^8 + 25x^7 + 50x^6 + 30x^5 - 25x^4 - 50x^2 - 50x - 35$ | $x^{15} - 1080x^{10} + 43740x^5 - 1574640$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \right] \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 25x^{14} + 25x^{13} - 25x^{12} - 50x^{11} - 50x^{10} + 50x^9 - 50x^7 - 25x^6 + 5x^5 + 25x^4 - 25x^2 - 5$ | $x^{15} - 1005x^{10} + 336675x^5 - 7519075$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \right] \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|---------------------|
| $x^{15} - 50x^{14} + 25x^{12} - 60x^{10} - 50x^9 + 25x^8 + 50x^6 - 5x^5 + 50x^4 - 25x^3 + 50x^2 - 55$ | $x^{15} - 60x^{10} + 450x^5 - 5400$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 25x^{14} - 50x^{12} - 50x^{11} + 25x^{10} + 50x^9 + 25x^8 - 50x^7 - 25x^6 - 20x^5 + 25x^4 - 50x^2 - 50x + 40$ | $x^{15} - 60x^{10} + 1110x^5 - 5120$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 25x^{14} + 50x^{13} - 50x^{11} - 40x^{10} - 25x^9 - 25x^8 + 25x^7 + 35x^5 + 50x^4 - 50x^3 - 50x^2 + 25x + 30$ | $x^{15} - 30x^{10} + 45x^5 - 135$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 50x^{14} - 50x^{13} + 25x^{12} + 25x^{11} + 35x^{10} + 25x^8 - 25x^6 - 35x^5 + 50x^4 - 50x^3 - 50x - 40$ | $x^{15} - 1485x^{10} - 63525x^5 - 805255$ | $\left[\begin{array}{c} 19 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3167}{1500}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|---------------------|
| $x^{15} - 50x^{14} + 50x^{13} - 25x^{12} - 25x^{11} + 50x^8 - 25x^7 - 25x^6 + 30x^5 - 50x^4 - 25x^3 + 50x - 60$ | $x^{15} - 15x^{10} + 45x^5 - 135$ | $\begin{bmatrix} 23 & 23 & 9 \\ 12 & 12 & 4 \end{bmatrix}_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} + 50x^{14} - 50x^{13} + 25x^{12} + 50x^{11} - 20x^{10} - 50x^7 - 25x^6 + 25x^5 - 25x^4 + 25x^3 + 50x^2 + 25x - 55$ | $x^{15} - 120x^{10} + 34200x^5 - 691200$ | $\begin{bmatrix} 23 & 23 & 9 \\ 12 & 12 & 4 \end{bmatrix}_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} + 50x^{14} + 25x^{13} + 50x^{12} - 50x^{11} + 35x^{10} - 25x^9 + 25x^8 - 25x^6 + 40x^5 + 50x^4 + 25x^3 - 25x^2 + 50x - 20$ | $x^{15} - 60x^{10} - 2250x^5 - 21600$ | $\begin{bmatrix} 23 & 23 & 9 \\ 12 & 12 & 4 \end{bmatrix}_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|---------------------|
| $x^{15} - 25x^{14} - 25x^{13} + 25x^{12} - 25x^{11} - 50x^{10} - 25x^9 + 50x^8 + 25x^7 - 50x^6 - 10x^5 + 25x^4 + 50x^3 - 50x^2 - 25x + 35$ | $x^{15} - 10x^{10} + 5x^5 - 5$ | $\left[\begin{array}{ccc} 23 & 23 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 25x^{13} - 50x^{12} + 50x^{11} + 40x^{10} + 25x^9 - 25x^8 + 25x^7 + 45x^5 - 50x^4 + 50x^3 - 50x^2 - 25x + 5$ | $x^{15} - 1320x^{10} + 580800x^5 + 33395535360$ | $\left[\begin{array}{ccc} 19 & 19 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3167}{1500}$ |
| $x^{15} - 25x^{14} - 25x^{13} - 25x^{11} + 35x^{10} - 25x^9 - 25x^8 - 25x^6 + 60x^5 - 25x^4 - 25x^3 - 25x - 20$ | $x^{15} - 195x^{10} + 1800x^5 - 5400$ | $\left[\begin{array}{ccc} 23 & 23 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 50x^{14} + 25x^{13} + 25x^{12} + 50x^{11} - 60x^{10} + 25x^9 - 50x^8 + 10x^5 - 25x^4 + 25x^3 - 50x - 20$ | $x^{15} - 80x^{10} + 2080x^5 - 19440$ | $\left[\begin{array}{ccc} 23 & 23 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------------------|---|-----------|---------------------|
| $x^{15} - 50x^{14} - 50x^{13} - 50x^{12} +$ $5x^{10} - 25x^9 - 25x^8 + 50x^7 -$ $25x^6 - 30x^5 + 50x^4 - 50x^3 -$ $50x^2 - 50x - 10$ | $x^{15} - 20x^{10} + 100x^5 - 200$ | $\left[\begin{array}{ccc} 23 & 23 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 25x^{14} + 50x^{13} + 50x^{12} +$ $25x^{11} + 25x^9 - 50x^8 - 25x^7 -$ $50x^6 + 20x^5 - 50x^3 + 50x^2 +$ $50x - 15$ | $x^{15} - 40x^{10} + 440x^5 - 80$ | $\left[\begin{array}{ccc} 23 & 23 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} + 25x^{14} - 25x^{13} + 25x^{11} -$ $30x^{10} - 50x^9 + 50x^8 - 50x^7 -$ $25x^6 + 20x^5 + 25x^4 + 25x^3 +$ $50x + 30$ | $x^{15} - 10x^{10} + 200x^5 - 200$ | $\left[\begin{array}{ccc} 23 & 23 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|------------------------------------|--|-----------|---------------------|
| $x^{15} + 50x^{14} - 25x^{13} + 25x^{12} -$ $50x^{11} + 40x^{10} - 25x^9 - 25x^8 +$ $25x^7 - 25x^6 - 35x^5 + 50x^4 +$ $50x^3 + 25x^2 + 25x - 40$ | $x^{15} - 45x^{10} + 135x^5 - 135$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \right. \left. \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 25x^{14} + 50x^{13} - 50x^{12} -$ $25x^{11} - 35x^{10} + 25x^9 - 50x^7 +$ $25x^5 + 25x^4 + 50x^2 - 50x - 60$ | $x^{15} - 30x^{10} + 5400$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \right. \left. \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 50x^{14} + 50x^{12} + 25x^{11} -$ $15x^{10} - 50x^8 - 50x^7 + 25x^6 -$ $50x^5 - 50x^3 - 50x^2 - 50x - 45$ | $x^{15} - 40x^{10} + 60x^5 - 80$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \right. \left. \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 50x^{14} - 25x^{13} - 25x^{12} -$ $25x^{11} + 40x^{10} - 25x^9 - 25x^8 -$ $25x^7 + 25x^6 - 45x^5 + 50x^4 -$ $50x^3 + 25x^2 + 60$ | $x^{15} - 20x^{10} + 50x^5 - 200$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \right. \left. \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|---------------------|
| $x^{15} + 50x^{14} + 50x^{13} + 25x^{12} -$ $50x^{11} + 25x^9 + 50x^8 + 50x^7 -$ $25x^6 - 10x^5 - 25x^4 + 25x^3 -$ $25x^2 + 55$ | $x^{15} - 420x^{10} + 44550x^5 + 21600$ | $\left[\begin{array}{ccc} 23 & 23 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} + 50x^{14} + 25x^{11} - 5x^{10} -$ $50x^9 - 50x^6 - 5x^5 - 25x^4 +$ $25x^3 - 50x^2 + 50x + 60$ | $x^{15} - 15x^{10} + 2475x^5 + 675$ | $\left[\begin{array}{ccc} 23 & 23 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 50x^{14} + 50x^{13} + 50x^{11} -$ $20x^{10} + 25x^9 - 25x^8 - 25x^6 -$ $15x^5 - 50x^3 + 25x^2 + 5$ | $x^{15} - 15x^{10} - 225x^5 - 675$ | $\left[\begin{array}{ccc} 23 & 23 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 25x^{14} - 25x^{13} - 50x^{12} -$ $25x^{11} - 60x^{10} + 25x^9 - 50x^8 -$ $50x^6 + 15x^5 + 25x^4 + 25x^2 -$ $50x + 15$ | $x^{15} - 16830x^{10} + 94416300x^5 -$ 176109268500 | $\left[\begin{array}{ccc} 19 & 19 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3167}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|-------------------------------------|---|-----------|---------------------|
| $x^{15} - 25x^{14} + 50x^{13} + 25x^{12} -$ $50x^{11} + 10x^{10} + 25x^9 + 50x^7 -$ $50x^6 + 50x^5 - 25x^4 - 50x^3 +$ $50x^2 + 50x + 45$ | $x^{15} - 20x^{10} - 10x^5 - 80$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} + 50x^{14} - 50x^{13} + 25x^{12} +$ $25x^{11} - 60x^{10} - 50x^9 - 50x^7 -$ $25x^6 - 40x^5 + 25x^4 - 25x^3 -$ $25x^2 - 50x + 45$ | $x^{15} - 45x^{10} + 720x^5 - 4320$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} + 50x^{14} + 50x^{13} + 50x^{12} +$ $50x^{11} + 25x^{10} - 25x^7 + 25x^6 +$ $60x^5 - 50x^4 + 25x^3 - 50x + 20$ | $x^{15} - 5x^5 - 5$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|---------------------|
| $x^{15} - 25x^{14} + 50x^{13} + 50x^{12} +$ $25x^{11} - 40x^{10} + 25x^9 - 50x^8 +$ $50x^7 + 25x^6 - 40x^5 - 25x^4 -$ $50x^3 - 25x^2 - 35$ | $x^{15} - 15x^{10} + 135x^5 + 135$ | $\left[\begin{array}{ccc} 23 & 23 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} + 50x^{14} + 50x^{12} + 25x^{11} -$ $25x^{10} + 50x^9 + 50x^8 - 50x^6 -$ $20x^5 - 25x^4 + 50x^2 + 25x - 10$ | $x^{15} - 2200x^{10} + 12003200x^5 -$ 1030726400 | $\left[\begin{array}{ccc} 19 & 19 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3167}{1500}$ |
| $x^{15} - 50x^{14} + 25x^{13} + 50x^{12} -$ $25x^{11} - 45x^{10} - 25x^9 - 25x^8 -$ $25x^7 - 50x^6 - 45x^5 + 50x^4 +$ $50x^3 + 25x^2 + 50x - 60$ | $x^{15} - 45x^{10} - 225x^5 - 675$ | $\left[\begin{array}{ccc} 23 & 23 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|---|-----------|---------------------|
| $x^{15} + 50x^{14} + 25x^{12} + 50x^{11} -$ $45x^{10} - 50x^9 + 50x^8 - 25x^7 +$ $50x^6 - 25x^5 + 25x^4 - 25x^3 -$ $50x^2 + 50x - 35$ | $x^{15} - 180x^{10} + 9990x^5 - 138240$ | $\left[\begin{array}{ccc} 23 & 23 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 50x^{14} - 25x^{13} - 50x^{12} -$ $25x^{11} - 60x^{10} - 50x^9 - 50x^8 -$ $50x^7 - 25x^6 + 10x^5 - 25x^4 +$ $50x^3 + 50x + 55$ | $x^{15} - 3300x^{10} + 27007200x^5 -$ 3478701600 | $\left[\begin{array}{ccc} 19 & 19 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3167}{1500}$ |
| $x^{15} - 50x^{14} - 25x^{13} + 50x^{12} -$ $25x^{11} - 30x^{10} - 25x^8 + 45x^5 +$ $25x^4 + 25x^3 + 50x + 40$ | $x^{15} - 30x^{10} + 9900x^5 + 5400$ | $\left[\begin{array}{ccc} 23 & 23 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|---------------------|
| $x^{15} + 25x^{14} + 50x^{13} + 25x^{12} -$ $25x^{11} + 55x^{10} + 50x^9 - 25x^8 -$ $50x^7 + 50x^6 - 55x^5 + 50x^4 +$ $25x^3 + 50x^2 + 50x - 20$ | $x^{15} - 15x^{10} + 450x^5 - 675$ | $\left[\begin{array}{ccc} 23 & 23 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 50x^{13} - 25x^{12} - 25x^{11} -$ $10x^{10} + 50x^9 + 50x^8 + 25x^7 +$ $25x^6 - 60x^5 + 25x^4 - 25x - 15$ | $x^{15} - 45x^{10} + 675x^5 - 675$ | $\left[\begin{array}{ccc} 23 & 23 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} + 50x^{14} + 25x^{13} - 50x^{11} +$ $5x^{10} + 25x^8 + 25x^7 + 25x^6 -$ $20x^5 + 25x^4 + 25x^3 - 25x^2 +$ $25x + 15$ | $x^{15} - 66825x^{10} - 128638125x^5 -$ 73378861875 | $\left[\begin{array}{ccc} 19 & 19 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3167}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|--|-----------|---------------------|
| $x^{15} - 25x^{14} + 50x^{13} + 25x^{12} - 20x^{10} + 25x^9 - 50x^8 + 25x^7 - 25x^6 + 30x^5 + 50x^4 - 25x^3 + 50x^2 - 50x - 15$ | $x^{15} - 5x^{10} - 25x^5 - 25$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \right] \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} + 25x^{14} + 50x^{13} - 25x^{12} - 30x^{10} + 50x^9 + 30x^5 - 25x^4 + 50x^2 + 60$ | $x^{15} - 180x^{10} + 19620x^5 - 4320$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \right] \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 25x^{14} + 25x^{12} - 50x^{11} - 20x^{10} + 25x^9 + 50x^8 - 25x^6 + 5x^5 - 50x^3 + 50x^2 + 50x + 60$ | $x^{15} - 15x^{10} + 45x^5 + 135$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \right] \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 25x^{14} + 25x^{13} - 50x^{11} - 55x^{10} - 25x^8 - 25x^7 + 50x^6 - 20x^5 - 50x^4 + 25x^3 + 50x^2 + 50x - 10$ | $x^{15} - 45x^{10} + 1575x^5 - 675$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \right] \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|------------------------------------|---|-----------|---------------------|
| $x^{15} + 25x^{13} - 25x^{12} + 50x^{11} - 40x^{10} - 25x^9 + 50x^8 - 50x^7 + 50x^6 + 55x^5 - 25x^4 - 50x^3 - 25x^2 + 50x - 45$ | $x^{15} - 30x^{10} + 800x^5 - 800$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \begin{array}{c} 23 \\ 12 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 50x^{14} - 50x^{13} + 50x^{12} - 25x^{11} - 55x^{10} + 25x^9 + 50x^8 - 25x^6 - 50x^5 - 25x^4 - 50x^3 - 50x^2 - 50x + 15$ | $x^{15} - 5x^{10} + 25$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \begin{array}{c} 23 \\ 12 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} + 25x^{14} - 50x^{13} + 50x^{12} + 10x^{10} + 25x^9 - 50x^8 - 25x^7 - 25x^6 - 60x^5 + 25x^4 - 25x^3 + 50x^2 + 25x - 45$ | $x^{15} - 5x^{10} + 25x^5 - 25$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \begin{array}{c} 23 \\ 12 \end{array} \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|---------------------|
| $x^{15} + 25x^{14} + 25x^{13} - 50x^{11} - 40x^{10} + 50x^9 - 25x^8 + 25x^7 - 60x^5 + 50x^3 - 25x^2 + 25x + 15$ | $x^{15} - 15x^{10} + 15x^5 - 5$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 25x^{14} - 50x^{13} - 25x^{12} - 50x^{11} + 20x^{10} - 25x^9 - 20x^5 + 50x^4 + 50x^2 + 50x + 10$ | $x^{15} - 360x^{10} + 32400x^5 - 5529600$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 50x^{12} + 60x^{10} - 50x^9 + 50x^8 - 25x^6 - 60x^5 + 25x^4 + 50x^3 - 20$ | $x^{15} - 15x^{10} + 675$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 50x^{14} + 50x^{13} - 25x^{12} - 25x^{11} - 60x^{10} + 50x^9 + 50x^8 + 50x^6 - 60x^5 + 50x^4 + 50x^3 - 50x + 5$ | $x^{15} - 275x^{10} + 831875x^5 + 100656875$ | $\left[\begin{array}{c} 19 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3167}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|---------------------|
| $x^{15} - 25x^{14} + 25x^{11} - 25x^{10} + 50x^9 - 50x^8 + 25x^7 - 20x^5 - 25x^4 + 25x^3 + 25x^2 + 25x + 60$ | $x^{15} - 1850x^{10} - 36800x^5 - 1280$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 8 | $\frac{119}{60}$ |
| $x^{15} - 25x^{14} - 50x^{13} - 50x^{11} - 25x^8 + 25x^7 - 50x^6 + 50x^5 - 50x^2 - 25x - 40$ | $x^{15} - 30x^{10} + 225x^5 - 675$ | $\left[\begin{array}{c} 23 \\ 12 \\ 12 \\ 12 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} + 50x^{14} + 50x^{13} + 50x^{12} - 50x^{11} - 35x^{10} + 50x^9 + 25x^8 - 50x^6 + 25x^5 + 25x^4 - 25x^3 - 50x^2 + 25x - 55$ | $x^{15} - 15x^{10} + 80x^5 - 160$ | $\left[\begin{array}{c} 23 \\ 12 \\ 12 \\ 12 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 25x^{14} - 25x^{13} + 25x^{12} - 60x^{10} - 25x^9 + 25x^8 + 50x^7 + 50x^6 - 55x^5 - 50x^4 + 25x^3 - 25x - 35$ | $x^{15} - 6600x^{10} + 108028800x^5 - 27829612800$ | $\left[\begin{array}{c} 19 \\ 12 \\ 12 \\ 12 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3167}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--------------------------------------|---|-----------|---------------------|
| $x^{15} + 25x^{14} - 50x^{13} - 25x^{11} +$ $20x^{10} - 25x^9 + 50x^8 - 25x^7 +$ $25x^6 + 55x^5 - 25x^4 + 50x^3 +$ $50x^2 - 50x - 15$ | $x^{15} - 15x^{10} + 90x^5 - 135$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 50x^{14} + 50x^{12} - 50x^{11} +$ $55x^{10} + 25x^9 + 25x^8 - 25x^6 +$ $5x^5 - 50x^4 - 25x^3 - 50x^2 -$ $50x + 55$ | $x^{15} - 30x^{10} + 2475x^5 + 5400$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 50x^{14} - 50x^{13} - 25x^{12} -$ $25x^{11} + 10x^{10} - 50x^9 - 50x^8 +$ $50x^7 - 25x^6 + 50x^5 - 50x^3 -$ $25x^2 - 25x + 15$ | $x^{15} - 60x^{10} + 900x^5 - 5400$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|---------------------|
| $x^{15} - 50x^{13} + 50x^{12} + 25x^{11} - 55x^{10} + 50x^9 - 50x^8 + 25x^6 - 15x^5 + 50x^3 + 50x^2 + 50x + 40$ | $x^{15} - 165x^{10} + 299475x^5 + 21741885$ | $\left[\begin{array}{c} 19 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3167}{1500}$ |
| $x^{15} + 25x^{14} - 50x^{13} + 25x^{12} + 50x^{11} - 25x^9 - 25x^8 + 25x^6 - 35x^5 - 25x^4 + 50x^3 - 25x^2 + 5$ | $x^{15} - 60x^{10} + 1160x^5 + 160$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 50x^{13} - 50x^{11} + 45x^{10} - 50x^9 - 25x^8 + 50x^7 - 15x^5 - 25x^4 - 25x^3 + 50x^2 + 25x + 5$ | $x^{15} - 10x^{10} - 50x^5 - 500$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 25x^{13} - 50x^{12} + 10x^{10} + 50x^8 + 25x^7 - 25x^6 + 25x^5 - 25x^4 - 50x^3 - 50x^2 + 50x + 40$ | $x^{15} - 5x^{10} + 10x^5 - 5$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|--|-----------|---------------------|
| $x^{15} - 50x^{14} + 25x^{12} - 25x^{11} + 45x^{10} + 25x^9 - 50x^8 - 50x^7 - 50x^6 + 45x^5 - 25x^4 - 50x^2 - 15$ | $x^{15} - 30x^{10} + 700x^5 - 200$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \right] \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} + 25x^{14} + 25x^{13} + 25x^{12} + 25x^{11} + 10x^{10} - 25x^9 - 50x^7 - 30x^5 + 50x^4 - 30$ | $x^{15} - 120x^{10} + 4080x^5 - 12960$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \right] \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} + 50x^{14} - 25x^{13} + 50x^{12} + 50x^{11} - 50x^{10} + 50x^9 + 25x^7 - 50x^6 + 30x^5 + 25x^4 - 25x^3 - 50x^2 - 45$ | $x^{15} - 90x^{10} + 6300x^5 - 5400$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \right] \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} + 50x^{14} - 50x^{13} - 50x^{12} + 25x^{11} + 40x^{10} + 50x^9 - 50x^8 + 25x^7 - 50x^6 + 25x^4 + 50x^3 - 25x^2 - 25x + 30$ | $x^{15} - 270x^5 - 4320$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \right] \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|---------------------|
| $x^{15} + 25x^{13} + 25x^{11} + 15x^{10} -$ $25x^9 + 50x^8 + 25x^7 - 25x^6 +$ $5x^5 - 25x^4 - 50x^3 + 50x^2 +$ $50x - 40$ | $x^{15} - 120x^{10} - 9000x^5 - 172800$ | $\left[\begin{array}{ccc} 23 & 23 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} + 50x^{13} + 60x^{10} + 50x^9 -$ $25x^8 - 25x^7 - 50x^6 + 40x^5 +$ $50x^4 + 25x^3 - 50x^2 + 50x + 10$ | $x^{15} - 15x^{10} + 195x^5 - 5$ | $\left[\begin{array}{ccc} 23 & 23 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 25x^{14} - 50x^{13} + 25x^{12} -$ $50x^{11} + 55x^{10} + 50x^9 - 25x^8 +$ $50x^7 - 50x^6 - 45x^5 - 50x^3 +$ $50x^2 - 25x + 5$ | $x^{15} - 30x^{10} + 900x^5 - 5400$ | $\left[\begin{array}{ccc} 23 & 23 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 50x^{14} - 50x^{13} + 30x^{10} -$ $25x^9 + 50x^8 + 25x^6 + 55x^5 +$ $25x^3 - 25x^2 + 50x - 45$ | $x^{15} - 1340x^{10} + 8978000x^5 +$ 240610400 | $\left[\begin{array}{ccc} 23 & 23 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|---------------------|
| $x^{15} + 25x^{14} + 25x^{13} - 25x^{12} - 25x^{11} + 30x^{10} - 25x^9 - 50x^7 - 40x^5 - 50x^4 + 50x^3 + 50x^2 - 50x + 35$ | $x^{15} - 35x^{10} + 1480x^5 + 80$ | $\begin{bmatrix} 23 & 23 & 9 \\ 12 & 12 & 4 \end{bmatrix}_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} + 50x^{14} + 50x^{13} - 25x^{11} - 60x^{10} + 25x^9 - 50x^7 + 50x^5 + 50x^4 + 25x^3 - 25x^2 - 25x + 5$ | $x^{15} - 30x^5 - 160$ | $\begin{bmatrix} 23 & 23 & 9 \\ 12 & 12 & 4 \end{bmatrix}_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 50x^{14} - 50x^{13} + 25x^{12} + 10x^{10} + 25x^9 - 50x^8 - 50x^6 + 30x^5 + 25x^3 + 25x^2 + 25x + 5$ | $x^{15} - 34650x^{10} + 306281250x^5 + 146757723750$ | $\begin{bmatrix} 19 & 19 & 9 \\ 12 & 12 & 4 \end{bmatrix}_{12}^2$ | T: 15, 38 | $\frac{3167}{1500}$ |
| $x^{15} + 50x^{14} - 50x^{13} + 25x^{12} + 50x^{11} - 35x^{10} + 25x^9 - 25x^8 + 25x^7 + 25x^6 - 40x^5 - 25x^4 + 50x^2 - 25x - 15$ | $x^{15} - 30x^{10} + 1800x^5 - 5400$ | $\begin{bmatrix} 23 & 23 & 9 \\ 12 & 12 & 4 \end{bmatrix}_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|---------------------|
| $x^{15} + 50x^{14} + 25x^{12} + 50x^{11} + 25x^{10} + 25x^9 - 25x^8 + 25x^6 + 60x^5 + 25x^4 - 35$ | $x^{15} - 50x^{10} + 160x^5 - 160$ | $\begin{bmatrix} 23 & 23 & 9 \\ 12 & 12 & 4 \end{bmatrix}_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 50x^{14} + 25x^{13} + 30x^{10} - 25x^9 - 25x^8 + 25x^7 - 50x^6 - 25x^5 + 25x^4 - 50x^3 - 50x^2 - 50x + 15$ | $x^{15} - 13065x^{10} + 336675x^5 - 7519075$ | $\begin{bmatrix} 23 & 23 & 9 \\ 12 & 12 & 4 \end{bmatrix}_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} + 50x^{14} + 25x^{13} - 25x^{12} - 50x^{11} - 20x^{10} + 25x^9 + 50x^7 - 10x^5 + 50x^2 - 25x + 30$ | $x^{15} - 10x^{10} - 5x^5 - 80$ | $\begin{bmatrix} 23 & 23 & 9 \\ 12 & 12 & 4 \end{bmatrix}_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 50x^{14} + 50x^{13} + 50x^{12} - 50x^{11} + 60x^{10} + 25x^8 - 50x^7 - 30x^5 - 25x^4 + 25x^3 - 25x + 60$ | $x^{15} - 9900x^{10} + 243064800x^5 - 93924943200$ | $\begin{bmatrix} 19 & 19 & 9 \\ 12 & 12 & 4 \end{bmatrix}_{12}^2$ | T: 15, 38 | $\frac{3167}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|--|---|-----------|---------------------|
| $x^{15} + 50x^{14} - 25x^{13} - 25x^{11} - 45x^{10} + 25x^9 + 50x^8 - 25x^7 + 50x^6 - 55x^5 - 50x^3 - 25x^2 - 50x + 15$ | $x^{15} - 120x^{10} - 720x^5 - 138240$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} + 50x^{14} + 25x^{11} + 40x^{10} + 25x^8 + 25x^7 + 45x^5 - 50x^4 + 25x^3 - 50x^2 - 25x - 60$ | $x^{15} - 1540x^{10} + 605000x^5 + 12884080$ | $\left[\begin{array}{c} 19 \\ 12 \end{array} \quad \begin{array}{c} 19 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3167}{1500}$ |
| $x^{15} + 50x^{14} + 50x^{13} - 50x^{12} + 50x^{11} + 45x^{10} + 25x^9 + 50x^8 + 25x^7 - 25x^6 - 35x^5 + 25x^4 + 25x^3 + 50x^2 - 25x - 10$ | $x^{15} - 5x^{10} + 5x^5 + 5$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 23 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---|---|-----------|---------------------|
| $x^{15} - 25x^{14} + 50x^{13} - 25x^{12} - 5x^{10} - 25x^9 + 25x^8 - 50x^7 + 25x^6 + 20x^5 + 25x^3 + 50x^2 - 50x + 5$ | $x^{15} - 60x^{10} + 1080x^5 - 4320$ | $\left[\begin{array}{ccc} 23 & 23 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 25x^{14} + 50x^{13} - 25x^{12} + 25x^{11} + 10x^{10} - 25x^9 - 25x^8 - 25x^6 - 25x^5 - 50x^4 - 25x^3 - 25x^2 + 15$ | $x^{15} - 440x^{10} + 2129600x^5 + 412290560$ | $\left[\begin{array}{ccc} 19 & 19 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3167}{1500}$ |
| $x^{15} + 25x^{14} + 50x^{12} - 45x^{10} - 50x^9 + 50x^8 - 50x^6 - 45x^5 - 25x^4 - 25x^3 + 25x^2 - 25x - 55$ | $x^{15} - 335x^{10} - 112225x^5 - 7519075$ | $\left[\begin{array}{ccc} 23 & 23 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|-------------------------------------|---|-----------|---------------------|
| $x^{15} - 25x^{14} + 25x^{13} - 50x^{12} - 50x^{10} - 25x^9 - 25x^8 - 25x^6 + 25x^5 + 50x^4 - 50x^3 + 50x^2 + 50x + 35$ | $x^{15} - 10x^{10} - 100x^5 - 200$ | $\left[\begin{array}{ccc} 23 & 23 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 50x^{13} + 25x^{12} + 25x^{11} - 25x^{10} + 25x^8 + 25x^7 + 50x^6 + 35x^5 + 25x^4 + 50x^2 + 25x - 60$ | $x^{15} - 40x^{10} - 80x^5 - 5120$ | $\left[\begin{array}{ccc} 23 & 23 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} + 25x^{14} - 50x^{13} + 50x^{12} + 35x^{10} + 25x^7 + 10x^5 + 25x^4 + 25x^3 + 50x^2 - 25x + 40$ | $x^{15} - 15x^{10} + 225x^5 - 675$ | $\left[\begin{array}{ccc} 23 & 23 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 25x^{14} + 50x^{13} + 50x^{12} + 45x^{10} + 25x^9 + 25x^8 + 25x^7 - 25x^6 + 15x^5 + 25x^4 + 25x^3 + 50x^2 + 50x - 10$ | $x^{15} - 40x^{10} + 530x^5 - 2560$ | $\left[\begin{array}{ccc} 23 & 23 & 9 \\ 12 & 12 & 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|---------------------|
| $x^{15} - 25x^{14} + 50x^{13} + 50x^{12} +$ $50x^{11} + 35x^{10} - 50x^9 + 50x^8 +$ $50x^7 + 5x^5 + 50x^3 + 50x^2 -$ $50x + 40$ | $x^{15} - 80x^{10} + 840x^5 - 2560$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \frac{23}{12} \frac{9}{4} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} + 25x^{14} - 25x^{13} - 25x^{12} -$ $50x^{11} + 35x^{10} - 50x^9 - 50x^8 -$ $25x^7 + 25x^6 + 40x^5 - 50x^3 -$ $50x^2 + 25x - 35$ | $x^{15} - 15x^{10} + 200x^5 + 500$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \frac{23}{12} \frac{9}{4} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 50x^{14} + 50x^{13} - 50x^{12} +$ $50x^{11} + 15x^{10} + 25x^9 - 50x^8 +$ $25x^6 - 50x^5 - 25x^4 + 25x^3 +$ $25x^2 - 30$ | $x^{15} - 2475x^{10} + 2041875x^5 +$ 220136585625 | $\left[\begin{array}{c} 19 \\ 12 \end{array} \frac{19}{12} \frac{9}{4} \right]_{12}^2$ | T: 15, 38 | $\frac{3167}{1500}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|--|---------------------------------------|--|-----------|---------------------|
| $x^{15} - 25x^{14} + 25x^{12} - 25x^{11} +$ $35x^{10} + 50x^9 - 25x^8 - 50x^7 +$ $25x^6 + 20x^5 - 50x^3 + 25x^2 -$ $25x - 10$ | $x^{15} - 2300x^{10} + 9250x^5 + 400$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 8 | $\frac{119}{60}$ |
| $x^{15} - 25x^{14} + 50x^{13} + 25x^{11} -$ $20x^{10} - 50x^8 + 25x^7 - 25x^6 +$ $5x^5 + 50x^4 + 25x^3 - 50x^2 - 15$ | $x^{15} - 90x^{10} + 2475x^5 - 21600$ | $\left[\begin{array}{c} 23 \\ 12 \\ 12 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 50x^{14} - 25x^{13} - 25x^{12} +$ $25x^{10} - 50x^9 - 50x^7 + 50x^6 -$ $50x^5 + 25x^4 + 25x^3 + 50x - 20$ | $x^{15} - 5x^{10} + 15x^5 + 5$ | $\left[\begin{array}{c} 23 \\ 12 \\ 12 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} + 25x^{14} + 25x^{13} + 25x^{12} -$ $25x^{11} - 25x^9 - 50x^8 - 25x^7 +$ $15x^5 - 25x^4 - 25x^3 + 50x^2 + 45$ | $x^{15} - 10x^{10} + 200$ | $\left[\begin{array}{c} 23 \\ 12 \\ 12 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |

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Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|-----------|---------------------|
| $x^{15} - 25x^{14} - 50x^{13} - 50x^{12} +$ $50x^{11} - 35x^{10} + 25x^9 - 25x^8 +$ $50x^7 - 50x^6 + 10x^5 + 25x^4 +$ $25x^2 - 50x - 10$ | $x^{15} - 90x^{10} - 900x^5 - 5400$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \right]_{12} \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} + 25x^{14} - 25x^{12} - 60x^{10} -$ $50x^8 - 25x^7 - 25x^6 + 10x^5 +$ $25x^4 + 50x^3 - 50x^2 - 25x - 35$ | $x^{15} - 10x^{10} + 100x^5 - 200$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \right]_{12} \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 50x^{13} - 50x^{12} + 25x^{11} +$ $40x^{10} + 50x^9 + 50x^8 - 25x^7 -$ $50x^6 - 25x^4 - 50x^3 + 25x^2 -$ $25x - 60$ | $x^{15} - 210x^{10} + 34425x^5 - 5400$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \right]_{12} \left[\begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| Continued on next page | | | | |

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|---|--|-----------|---------------------|
| $x^{15} - 25x^{14} - 50x^{13} - 25x^{12} -$ $50x^{11} + 25x^{10} + 50x^9 - 50x^8 +$ $50x^7 - 50x^6 + 50x^5 + 50x^4 +$ $50x^3 - 25x - 30$ | $x^{15} - 30x^{10} - 100x^5 - 200$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \right. \left. \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} + 50x^{13} - 50x^{12} + 25x^{11} +$ $10x^{10} + 25x^9 - 25x^8 + 50x^7 +$ $25x^6 - 20x^5 - 50x^4 + 25x^2 - 55$ | $x^{15} - 30x^{10} + 300x^5 - 200$ | $\left[\begin{array}{c} 23 \\ 12 \end{array} \right. \left. \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3263}{1500}$ |
| $x^{15} - 25x^{14} + 50x^{13} - 50x^{12} -$ $50x^{11} + 15x^{10} + 50x^9 - 50x^8 -$ $25x^7 - 25x^6 - 45x^5 + 25x^4 -$ $50x^2 + 25x + 10$ | $x^{15} - 165x^{10} + 9075x^5 + 65225655$ | $\left[\begin{array}{c} 19 \\ 12 \end{array} \right. \left. \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15, 38 | $\frac{3167}{1500}$ |

Continued on next page

Table 3.6 – continued from previous page

| Defining Polynomial | Global splitting model | GSC | Inertia | GMS |
|---|--|---|----------|---------------------|
| $x^{15} + 25x^{14} - 50x^{13} - 50x^{12} -$ $25x^{11} + 50x^9 - 25x^7 + 50x^6 -$ $60x^5 + 50x^4 - 25x^3 + 50x^2 -$ $50x + 45$ | $x^{15} - 2850x^{10} - 561500x^5 + 32210200$ | $\left[\begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15,8 | $\frac{119}{60}$ |
| $x^{15} + 50x^{14} + 25x^{13} - 25x^{12} +$ $25x^{11} + 45x^{10} + 50x^9 - 25x^8 -$ $50x^7 + 25x^6 + 30x^5 - 25x^4 +$ $50x^3 - 25x^2 + 25x - 10$ | $x^{15} - 4455x^{10} - 571725x^5 - 21741885$ | $\left[\begin{array}{c} 19 \\ 12 \end{array} \quad \begin{array}{c} 9 \\ 4 \end{array} \right]_{12}^2$ | T: 15,38 | $\frac{3167}{1500}$ |

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