

```

last14 = { (-15 + x) (-12 + x) (-9 + x)14 (-7 + x) (5 + x)32, (-15 + x) (-11 + x)2 (-9 + x)12
          (-8 + x) (-7 + x) (5 + x)32, (-11 + x)2 (-9 + x)13 (5 + x)32 (92 - 21 x + x2),
          (-11 + x) (-9 + x)12 (5 + x)32 (9140 - 3919 x + 611 x2 - 41 x3 + x4),
          (-9 + x)12 (5 + x)32 (-100 508 + 52 249 x - 10 640 x2 + 1062 x3 - 52 x4 + x5),
          (-11 + x)2 (-9 + x)11 (-7 + x)2 (5 + x)32 (152 - 25 x + x2),
          (-9 + x)12 (5 + x)32 (-100 376 + 52 193 x - 10 636 x2 + 1062 x3 - 52 x4 + x5),
          (-9 + x)12 (5 + x)32 (-99 248 + 52 001 x - 10 628 x2 + 1062 x3 - 52 x4 + x5),
          (-13 + x)2 (-11 + x)2 (-9 + x)10 (-8 + x) (-7 + x)2 (5 + x)32,
          (-13 + x)2 (-9 + x)13 (5 + x)32 (64 - 17 x + x2),
          (-11 + x)3 (-9 + x)12 (5 + x)32 (72 - 19 x + x2),
          (-11 + x)2 (-9 + x)11 (5 + x)32 (7160 - 3321 x + 551 x2 - 39 x3 + x4),
          (-11 + x)4 (-9 + x)10 (-7 + x) (5 + x)32 (76 - 19 x + x2),
          (-11 + x)6 (-9 + x)10 (-4 + x) (5 + x)32};

```

```

interlacingpolylist = Array[list, 14];

```

```

interlacinglist = Array[A, 14];

```

```

glist = Array[g, 14];

```

```

anglesquaredlist = Array[anglesq, 14];

```

```

last14[[1]]

```

```

(-15 + x) (-12 + x) (-9 + x)14 (-7 + x) (5 + x)32

```

```
list[1] = {(-15 + x) (-7 + x) (51 - 16 x + x2), (-15 + x) (-349 + 163 x - 23 x2 + x3),
5251 - 2794 x + 508 x2 - 38 x3 + x4, 5267 - 2794 x + 508 x2 - 38 x3 + x4,
5283 - 2794 x + 508 x2 - 38 x3 + x4, (-7 + x) (-757 + 291 x - 31 x2 + x3),
(-15 + x) (-11 + x) (31 - 12 x + x2), 5131 - 2786 x + 508 x2 - 38 x3 + x4,
5147 - 2786 x + 508 x2 - 38 x3 + x4, 5163 - 2786 x + 508 x2 - 38 x3 + x4,
5179 - 2786 x + 508 x2 - 38 x3 + x4, 5195 - 2786 x + 508 x2 - 38 x3 + x4,
(-15 + x) (-9 + x) (37 - 14 x + x2), 5011 - 2778 x + 508 x2 - 38 x3 + x4,
(-11 + x) (-457 + 211 x - 27 x2 + x3), 5043 - 2778 x + 508 x2 - 38 x3 + x4,
5059 - 2778 x + 508 x2 - 38 x3 + x4, 5075 - 2778 x + 508 x2 - 38 x3 + x4,
5091 - 2778 x + 508 x2 - 38 x3 + x4, 5107 - 2778 x + 508 x2 - 38 x3 + x4,
(-9 + x) (-547 + 247 x - 29 x2 + x3), (-11 + x) (-449 + 211 x - 27 x2 + x3),
4955 - 2770 x + 508 x2 - 38 x3 + x4, 4971 - 2770 x + 508 x2 - 38 x3 + x4,
4987 - 2770 x + 508 x2 - 38 x3 + x4, 5003 - 2770 x + 508 x2 - 38 x3 + x4,
(-11 + x) (-9 + x) (49 - 18 x + x2), 4867 - 2762 x + 508 x2 - 38 x3 + x4,
4883 - 2762 x + 508 x2 - 38 x3 + x4, 4899 - 2762 x + 508 x2 - 38 x3 + x4,
4915 - 2762 x + 508 x2 - 38 x3 + x4, (-9 + x) (-531 + 247 x - 29 x2 + x3),
4795 - 2754 x + 508 x2 - 38 x3 + x4, 4811 - 2754 x + 508 x2 - 38 x3 + x4,
(-9 + x) (-523 + 247 x - 29 x2 + x3), 4723 - 2746 x + 508 x2 - 38 x3 + x4};
```

$$A[1] = \begin{pmatrix} 5355 & -2802 & 508 & -38 & 1 \\ 5235 & -2794 & 508 & -38 & 1 \\ 5251 & -2794 & 508 & -38 & 1 \\ 5267 & -2794 & 508 & -38 & 1 \\ 5283 & -2794 & 508 & -38 & 1 \\ 5299 & -2794 & 508 & -38 & 1 \\ 5115 & -2786 & 508 & -38 & 1 \\ 5131 & -2786 & 508 & -38 & 1 \\ 5147 & -2786 & 508 & -38 & 1 \\ 5163 & -2786 & 508 & -38 & 1 \\ 5179 & -2786 & 508 & -38 & 1 \\ 5195 & -2786 & 508 & -38 & 1 \\ 4995 & -2778 & 508 & -38 & 1 \\ 5011 & -2778 & 508 & -38 & 1 \\ 5027 & -2778 & 508 & -38 & 1 \\ 5043 & -2778 & 508 & -38 & 1 \\ 5059 & -2778 & 508 & -38 & 1 \\ 5075 & -2778 & 508 & -38 & 1 \\ 5091 & -2778 & 508 & -38 & 1 \\ 5107 & -2778 & 508 & -38 & 1 \\ 4923 & -2770 & 508 & -38 & 1 \\ 4939 & -2770 & 508 & -38 & 1 \\ 4955 & -2770 & 508 & -38 & 1 \\ 4971 & -2770 & 508 & -38 & 1 \\ 4987 & -2770 & 508 & -38 & 1 \\ 5003 & -2770 & 508 & -38 & 1 \\ 4851 & -2762 & 508 & -38 & 1 \\ 4867 & -2762 & 508 & -38 & 1 \\ 4883 & -2762 & 508 & -38 & 1 \\ 4899 & -2762 & 508 & -38 & 1 \\ 4915 & -2762 & 508 & -38 & 1 \\ 4779 & -2754 & 508 & -38 & 1 \\ 4795 & -2754 & 508 & -38 & 1 \\ 4811 & -2754 & 508 & -38 & 1 \\ 4707 & -2746 & 508 & -38 & 1 \\ 4723 & -2746 & 508 & -38 & 1 \end{pmatrix};$$

Dimensions[A[1]]

{36, 5}

g[1] = CoefficientList[D[last14[[1]], x] / mu[last14[[1]]] // Factor, x]

{258 075, -136 818, 24 892, -1862, 49}

anglesq[1] =

<u>78</u>	0	<u>2</u>	<u>1</u>	0
119		7	17	
<u>233</u>	<u>1</u>	<u>4</u>	<u>23</u>	0
357	15	21	255	
<u>111</u>	<u>1</u>	<u>2</u>	<u>53</u>	<u>1</u>
170	20	9	765	180
<u>1166</u>	<u>1</u>	<u>16</u>	<u>37</u>	<u>1</u>
1785	30	63	765	90
<u>2333</u>	<u>1</u>	<u>2</u>	<u>7</u>	<u>1</u>
3570	60	7	255	60
<u>389</u>	0	<u>20</u>	<u>1</u>	<u>1</u>
595		63	153	45
<u>232</u>	<u>2</u>	<u>2</u>	<u>31</u>	0
357	15	21	255	
<u>2321</u>	<u>7</u>	<u>8</u>	<u>77</u>	<u>1</u>
3570	60	63	765	180
<u>387</u>	<u>1</u>	<u>10</u>	<u>61</u>	<u>1</u>
595	10	63	765	90
<u>2323</u>	<u>1</u>	<u>4</u>	<u>1</u>	<u>1</u>
3570	12	21	17	60
<u>166</u>	<u>1</u>	<u>2</u>	<u>29</u>	<u>1</u>
255	15	9	765	45
<u>155</u>	<u>1</u>	<u>16</u>	<u>13</u>	<u>1</u>
238	20	63	765	36
<u>11</u>	<u>1</u>	0	<u>13</u>	0
17	5		85	
<u>2311</u>	<u>11</u>	<u>2</u>	<u>101</u>	<u>1</u>
3570	60	63	765	180
<u>68</u>	<u>1</u>	<u>4</u>	<u>1</u>	<u>1</u>
105	6	63	9	90
<u>771</u>	<u>3</u>	<u>2</u>	<u>23</u>	<u>1</u>
1190	20	21	255	60
<u>1157</u>	<u>2</u>	<u>8</u>	<u>53</u>	<u>1</u>
1785	15	63	765	45
<u>463</u>	<u>7</u>	<u>10</u>	<u>37</u>	<u>1</u>
714	60	63	765	36
<u>386</u>	<u>1</u>	<u>4</u>	<u>7</u>	<u>1</u>
595	10	21	255	30
<u>331</u>	<u>1</u>	<u>2</u>	<u>1</u>	<u>7</u>
510	12	9	153	180
<u>329</u>	<u>13</u>	0	<u>31</u>	<u>1</u>
510	60		255	60
<u>384</u>	<u>1</u>	<u>2</u>	<u>77</u>	<u>1</u>
595	5	63	765	45
<u>461</u>	<u>11</u>	<u>4</u>	<u>61</u>	<u>1</u>
714	60	63	765	36
<u>1153</u>	<u>1</u>	<u>2</u>	<u>1</u>	<u>1</u>
1785	6	21	17	30
<u>769</u>	<u>3</u>	<u>8</u>	<u>29</u>	<u>7</u>
1190	20	63	765	180
<u>1154</u>	<u>2</u>	<u>10</u>	<u>13</u>	<u>2</u>
1785	15	63	765	45
<u>164</u>	<u>7</u>	0	<u>23</u>	<u>1</u>
255	30		255	30
<u>2297</u>	<u>13</u>	<u>2</u>	<u>53</u>	<u>7</u>
3570	60	63	765	180
<u>383</u>	<u>1</u>	<u>4</u>	<u>37</u>	<u>2</u>
595	5	63	765	45
<u>2299</u>	<u>11</u>	<u>2</u>	<u>7</u>	<u>1</u>
3570	60	21	255	20
<u>230</u>	<u>1</u>	<u>8</u>	<u>1</u>	<u>1</u>
357	6	63	153	18
<u>109</u>	<u>1</u>	0	<u>1</u>	<u>1</u>
170	4		17	20
<u>229</u>	<u>7</u>	<u>2</u>	<u>29</u>	<u>1</u>
357	30	63	765	18
<u>2291</u>	<u>13</u>	<u>4</u>	<u>13</u>	<u>11</u>
3570	60	63	765	180
<u>163</u>	<u>4</u>	0	<u>7</u>	<u>1</u>
255	15		255	15
<u>761</u>	<u>1</u>	<u>2</u>	<u>1</u>	<u>13</u>
1190	4	63	153	180

;

last14[[1]]

$$(-15 + x) (-12 + x) (-9 + x)^{14} (-7 + x) (5 + x)^{32}$$

listrefined1 = list[1][[1, 6, 32]] * mu[last14[[1]]] // Factor

$$\left\{ (-15 + x) (-9 + x)^{13} (-7 + x) (5 + x)^{31} (51 - 16x + x^2), \right. \\ (-9 + x)^{13} (-7 + x) (5 + x)^{31} (-757 + 291x - 31x^2 + x^3), \\ \left. (-9 + x)^{14} (5 + x)^{31} (-531 + 247x - 29x^2 + x^3) \right\}$$

CoefficientList[list[1][[1, 6, 32]], x]

$$\{\{5355, -2802, 508, -38, 1\}, \{5299, -2794, 508, -38, 1\}, \{4779, -2754, 508, -38, 1\}\}$$

Array[n, 3] /. Flatten[

Solve[Array[n, 3].CoefficientList[list[1][[1, 6, 32]], x] == g[1], Array[n, 3]]]

$$\{9, 36, 4\}$$

anglesq[1][[1, 6, 32], {2, 4, 5}] // MatrixForm

$$\begin{pmatrix} 0 & \frac{1}{17} & 0 \\ 0 & \frac{1}{153} & \frac{1}{45} \\ \frac{1}{4} & \frac{1}{17} & \frac{1}{20} \end{pmatrix}$$

listn45 =

```
feasiblecharpolylist[45, (x + 5) ^ 28 (x - 9) ^ 14] * (x + 5) ^ 28 (x - 9) ^ 14 // Factor
{ (-9 + x) ^ 14 (-8 + x) (5 + x) ^ 28 (-23 - 6 x + x^2), (-9 + x) ^ 15 (5 + x) ^ 28 (-20 - 5 x + x^2),
  (-9 + x) ^ 14 (5 + x) ^ 28 (176 + 25 x - 14 x^2 + x^3), (-9 + x) ^ 14 (5 + x) ^ 28 (172 + 25 x - 14 x^2 + x^3),
  (-9 + x) ^ 14 (-7 + x) (5 + x) ^ 28 (-24 - 7 x + x^2), (-9 + x) ^ 14 (5 + x) ^ 28 (164 + 25 x - 14 x^2 + x^3),
  (-9 + x) ^ 14 (5 + x) ^ 28 (160 + 25 x - 14 x^2 + x^3), (-9 + x) ^ 14 (5 + x) ^ 28 (156 + 25 x - 14 x^2 + x^3),
  (-9 + x) ^ 14 (5 + x) ^ 28 (152 + 25 x - 14 x^2 + x^3), (-9 + x) ^ 14 (5 + x) ^ 28 (148 + 25 x - 14 x^2 + x^3),
  (-9 + x) ^ 14 (5 + x) ^ 28 (144 + 25 x - 14 x^2 + x^3), (-9 + x) ^ 14 (5 + x) ^ 28 (140 + 25 x - 14 x^2 + x^3),
  (-9 + x) ^ 14 (5 + x) ^ 28 (136 + 25 x - 14 x^2 + x^3), (-9 + x) ^ 14 (5 + x) ^ 28 (132 + 25 x - 14 x^2 + x^3),
  (-9 + x) ^ 14 (5 + x) ^ 28 (128 + 25 x - 14 x^2 + x^3), (-9 + x) ^ 14 (5 + x) ^ 28 (124 + 25 x - 14 x^2 + x^3),
  (-9 + x) ^ 14 (5 + x) ^ 28 (120 + 25 x - 14 x^2 + x^3), (-9 + x) ^ 14 (5 + x) ^ 28 (116 + 25 x - 14 x^2 + x^3),
  (-9 + x) ^ 14 (5 + x) ^ 28 (112 + 25 x - 14 x^2 + x^3), (-9 + x) ^ 14 (5 + x) ^ 28 (108 + 25 x - 14 x^2 + x^3),
  (-9 + x) ^ 14 (5 + x) ^ 28 (104 + 25 x - 14 x^2 + x^3), (-9 + x) ^ 14 (-5 + x) (5 + x) ^ 28 (-20 - 9 x + x^2),
  (-9 + x) ^ 14 (5 + x) ^ 28 (96 + 25 x - 14 x^2 + x^3), (-9 + x) ^ 14 (5 + x) ^ 28 (92 + 25 x - 14 x^2 + x^3),
  (-11 + x) (-9 + x) ^ 14 (5 + x) ^ 28 (-8 - 3 x + x^2), (-9 + x) ^ 14 (5 + x) ^ 28 (84 + 25 x - 14 x^2 + x^3),
  (-9 + x) ^ 14 (5 + x) ^ 28 (80 + 25 x - 14 x^2 + x^3), (-9 + x) ^ 14 (5 + x) ^ 28 (76 + 25 x - 14 x^2 + x^3),
  (-9 + x) ^ 14 (5 + x) ^ 28 (72 + 25 x - 14 x^2 + x^3), (-9 + x) ^ 14 (5 + x) ^ 28 (68 + 25 x - 14 x^2 + x^3),
  (-9 + x) ^ 14 (5 + x) ^ 28 (64 + 25 x - 14 x^2 + x^3), (-9 + x) ^ 14 (-4 + x) (5 + x) ^ 28 (-15 - 10 x + x^2),
  (-9 + x) ^ 14 (5 + x) ^ 28 (56 + 25 x - 14 x^2 + x^3), (-9 + x) ^ 14 (5 + x) ^ 28 (52 + 25 x - 14 x^2 + x^3),
  (-9 + x) ^ 14 (5 + x) ^ 28 (48 + 25 x - 14 x^2 + x^3), (-9 + x) ^ 14 (5 + x) ^ 28 (44 + 25 x - 14 x^2 + x^3),
  (-9 + x) ^ 14 (1 + x) (5 + x) ^ 28 (40 - 15 x + x^2), (-9 + x) ^ 14 (5 + x) ^ 28 (36 + 25 x - 14 x^2 + x^3),
  (-9 + x) ^ 14 (5 + x) ^ 28 (32 + 25 x - 14 x^2 + x^3), (-9 + x) ^ 14 (5 + x) ^ 28 (28 + 25 x - 14 x^2 + x^3),
  (-9 + x) ^ 14 (-3 + x) (5 + x) ^ 28 (-8 - 11 x + x^2), (-9 + x) ^ 14 (5 + x) ^ 28 (20 + 25 x - 14 x^2 + x^3),
  (-9 + x) ^ 14 (5 + x) ^ 28 (16 + 25 x - 14 x^2 + x^3), (-9 + x) ^ 14 (5 + x) ^ 28 (12 + 25 x - 14 x^2 + x^3),
  (-9 + x) ^ 14 (5 + x) ^ 28 (8 + 25 x - 14 x^2 + x^3), (-9 + x) ^ 14 (5 + x) ^ 28 (4 + 25 x - 14 x^2 + x^3),
  (-9 + x) ^ 14 x (5 + x) ^ 28 (25 - 14 x + x^2), (-9 + x) ^ 14 (5 + x) ^ 28 (-4 + 25 x - 14 x^2 + x^3),
  (-9 + x) ^ 14 (5 + x) ^ 28 (-8 + 25 x - 14 x^2 + x^3), (-12 + x) (-9 + x) ^ 14 (-1 + x) ^ 2 (5 + x) ^ 28 }
```

Length[listn45]

50

listn45mod64 = modfilter[listn45, chiSmod64n45, 64]

{}

Length[listn45mod64]

0

last14[[2]]

$(-15 + x) (-11 + x)^2 (-9 + x)^{12} (-8 + x) (-7 + x) (5 + x)^{32}$

```

list[2] = {(-15 + x) (-9 + x) (-7 + x) (41 - 14 x + x2),
-38 713 + 25 653 x - 6458 x2 + 778 x3 - 45 x4 + x5,
(-7 + x) (5551 - 2874 x + 512 x2 - 38 x3 + x4), -38 825 + 25 669 x -
6458 x2 + 778 x3 - 45 x4 + x5, (-7 + x) (5567 - 2874 x + 512 x2 - 38 x3 + x4),
(-7 + x) (5583 - 2874 x + 512 x2 - 38 x3 + x4), (-9 + x)
(4201 - 2364 x + 454 x2 - 36 x3 + x4), (-9 + x) (4217 - 2364 x + 454 x2 - 36 x3 + x4),
(-9 + x) (4233 - 2364 x + 454 x2 - 36 x3 + x4), -38 065 + 25 509 x - 6450 x2 +
778 x3 - 45 x4 + x5, (-9 + x) (-7 + x) (-607 + 251 x - 29 x2 + x3),
-38 209 + 25 525 x - 6450 x2 + 778 x3 - 45 x4 + x5,
(-7 + x) (5479 - 2866 x + 512 x2 - 38 x3 + x4),
-38 321 + 25 541 x - 6450 x2 + 778 x3 - 45 x4 + x5,
(-7 + x) (5495 - 2866 x + 512 x2 - 38 x3 + x4),
(-11 + x) (-7 + x) (-501 + 215 x - 27 x2 + x3),
(-9 + x) (4129 - 2356 x + 454 x2 - 36 x3 + x4), (-9 + x)
(4145 - 2356 x + 454 x2 - 36 x3 + x4), (-9 + x) (4161 - 2356 x + 454 x2 - 36 x3 + x4),
(31 - 12 x + x2) (-1207 + 351 x - 33 x2 + x3), (-9 + x) (4177 - 2356 x + 454 x2 - 36 x3 + x4),
-37 561 + 25 381 x - 6442 x2 + 778 x3 - 45 x4 + x5,
(-9 + x) (-7 + x) (-599 + 251 x - 29 x2 + x3), -37 705 + 25 397 x - 6442 x2 +
778 x3 - 45 x4 + x5, -37 673 + 25 397 x - 6442 x2 + 778 x3 - 45 x4 + x5,
(-7 + x) (5407 - 2858 x + 512 x2 - 38 x3 + x4), -37 817 + 25 413 x - 6442 x2 +
778 x3 - 45 x4 + x5, (-11 + x) (-7 + x) (-493 + 215 x - 27 x2 + x3), (-9 + x)
(4073 - 2348 x + 454 x2 - 36 x3 + x4), (-9 + x) (4089 - 2348 x + 454 x2 - 36 x3 + x4),
(-9 + x) (4105 - 2348 x + 454 x2 - 36 x3 + x4), -36 913 + 25 237 x - 6434 x2 +
778 x3 - 45 x4 + x5, (-9 + x) (4121 - 2348 x + 454 x2 - 36 x3 + x4),
-37 057 + 25 253 x - 6434 x2 + 778 x3 - 45 x4 + x5, (-9 + x) (-7 + x)
(-591 + 251 x - 29 x2 + x3), -37 201 + 25 269 x - 6434 x2 + 778 x3 - 45 x4 + x5,
(-11 + x) (109 - 22 x + x2) (31 - 12 x + x2), (-11 + x) (-7 + x) (-485 + 215 x - 27 x2 + x3),
(-9 + x) (4001 - 2340 x + 454 x2 - 36 x3 + x4),
(-9 + x) (4017 - 2340 x + 454 x2 - 36 x3 + x4), (-9 + x) (109 - 22 x + x2) (37 - 14 x + x2),
-36 265 + 25 093 x - 6426 x2 + 778 x3 - 45 x4 + x5,
(-9 + x) (4049 - 2340 x + 454 x2 - 36 x3 + x4), -36 409 + 25 109 x -
6426 x2 + 778 x3 - 45 x4 + x5, (-9 + x) (4065 - 2340 x + 454 x2 - 36 x3 + x4),
(-11 + x) (3323 - 1982 x + 404 x2 - 34 x3 + x4), (-11 + x) (-9 + x) (-7 + x) (53 - 18 x + x2),
(-9 + x) (3945 - 2332 x + 454 x2 - 36 x3 + x4),
(-9 + x) (3961 - 2332 x + 454 x2 - 36 x3 + x4),
(-9 + x) (3977 - 2332 x + 454 x2 - 36 x3 + x4),
(-11 + x) (3251 - 1974 x + 404 x2 - 34 x3 + x4), (-11 + x) (-9 + x)
(-363 + 179 x - 25 x2 + x3), (-9 + x) (3873 - 2324 x + 454 x2 - 36 x3 + x4),
(-9 + x) (3889 - 2324 x + 454 x2 - 36 x3 + x4), (-11 + x) (-9 + x)
(-355 + 179 x - 25 x2 + x3), (-11 + x) (-9 + x) (-347 + 179 x - 25 x2 + x3) };

{
-38 745 25 653 -6458 778 -45 1
-38 713 25 653 -6458 778 -45 1
-38 857 25 669 -6458 778 -45 1
-38 825 25 669 -6458 778 -45 1
}

```

```

A[2] = {
-38929 25885 -6450 778 -45 1
-38969 25685 -6458 778 -45 1
-39081 25701 -6458 778 -45 1
-37809 25477 -6450 778 -45 1
-37953 25493 -6450 778 -45 1
-38097 25509 -6450 778 -45 1
-38065 25509 -6450 778 -45 1
-38241 25525 -6450 778 -45 1
-38209 25525 -6450 778 -45 1
-38353 25541 -6450 778 -45 1
-38321 25541 -6450 778 -45 1
-38465 25557 -6450 778 -45 1
-38577 25573 -6450 778 -45 1
-37161 25333 -6442 778 -45 1
-37305 25349 -6442 778 -45 1
-37449 25365 -6442 778 -45 1
-37417 25365 -6442 778 -45 1
-37593 25381 -6442 778 -45 1
-37561 25381 -6442 778 -45 1
-37737 25397 -6442 778 -45 1
-37705 25397 -6442 778 -45 1
-37673 25397 -6442 778 -45 1
-37849 25413 -6442 778 -45 1
-37817 25413 -6442 778 -45 1
-37961 25429 -6442 778 -45 1
-36657 25205 -6434 778 -45 1
-36801 25221 -6434 778 -45 1
-36945 25237 -6434 778 -45 1
-36913 25237 -6434 778 -45 1
-37089 25253 -6434 778 -45 1
-37057 25253 -6434 778 -45 1
-37233 25269 -6434 778 -45 1
-37201 25269 -6434 778 -45 1
-37169 25269 -6434 778 -45 1
-37345 25285 -6434 778 -45 1
-36009 25061 -6426 778 -45 1
-36153 25077 -6426 778 -45 1
-36297 25093 -6426 778 -45 1
-36265 25093 -6426 778 -45 1
-36441 25109 -6426 778 -45 1
-36409 25109 -6426 778 -45 1
-36585 25125 -6426 778 -45 1
-36553 25125 -6426 778 -45 1
-36729 25141 -6426 778 -45 1
-35505 24933 -6418 778 -45 1
-35649 24949 -6418 778 -45 1
-35793 24965 -6418 778 -45 1
-35761 24965 -6418 778 -45 1
-35937 24981 -6418 778 -45 1
-34857 24789 -6410 778 -45 1
-35001 24805 -6410 778 -45 1
-35145 24821 -6410 778 -45 1
-34353 24661 -6402 778 -45 1

```

```
Dimensions[A[2]]
```


{56, 6}

`g[2] = CoefficientList[D[last14[[2]], x] / mu[last14[[2]]] // Factor, x]`

`{-1892025, 1254277, -316170, 38122, -2205, 49}`

`anglesq[2] =`

$\frac{17}{26}$	0	$\frac{7}{39}$	0	$\frac{1}{6}$	0
$\frac{14279}{21840}$	$\frac{1}{24}$	$\frac{17}{273}$	$\frac{2}{21}$	$\frac{7}{48}$	$\frac{1}{840}$
$\frac{2381}{3640}$	0	$\frac{11}{91}$	$\frac{2}{21}$	$\frac{1}{8}$	$\frac{1}{210}$
$\frac{2857}{4368}$	$\frac{1}{24}$	$\frac{1}{273}$	$\frac{4}{21}$	$\frac{5}{48}$	$\frac{1}{168}$
$\frac{1191}{1820}$	0	$\frac{17}{273}$	$\frac{4}{21}$	$\frac{1}{12}$	$\frac{1}{105}$
$\frac{2383}{3640}$	0	$\frac{1}{273}$	$\frac{2}{7}$	$\frac{1}{24}$	$\frac{1}{70}$
$\frac{677}{1040}$	$\frac{1}{8}$	$\frac{3}{91}$	0	$\frac{3}{16}$	$\frac{1}{280}$
$\frac{127}{195}$	$\frac{1}{12}$	$\frac{25}{273}$	0	$\frac{1}{6}$	$\frac{1}{140}$
$\frac{2033}{3120}$	$\frac{1}{24}$	$\frac{41}{273}$	0	$\frac{7}{48}$	$\frac{3}{280}$
$\frac{1423}{2184}$	$\frac{1}{12}$	$\frac{3}{91}$	$\frac{2}{21}$	$\frac{1}{8}$	$\frac{1}{84}$
$\frac{339}{520}$	0	$\frac{19}{91}$	0	$\frac{1}{8}$	$\frac{1}{70}$
$\frac{14237}{21840}$	$\frac{1}{24}$	$\frac{25}{273}$	$\frac{2}{21}$	$\frac{5}{48}$	$\frac{13}{840}$
$\frac{1187}{1820}$	0	$\frac{41}{273}$	$\frac{2}{21}$	$\frac{1}{12}$	$\frac{2}{105}$
$\frac{14243}{21840}$	$\frac{1}{24}$	$\frac{3}{91}$	$\frac{4}{21}$	$\frac{1}{16}$	$\frac{17}{840}$
$\frac{475}{728}$	0	$\frac{25}{273}$	$\frac{4}{21}$	$\frac{1}{24}$	$\frac{1}{42}$
$\frac{297}{455}$	0	$\frac{3}{91}$	$\frac{2}{7}$	0	$\frac{1}{35}$
$\frac{253}{390}$	$\frac{1}{6}$	$\frac{1}{273}$	0	$\frac{1}{6}$	$\frac{1}{70}$
$\frac{135}{208}$	$\frac{1}{8}$	$\frac{17}{273}$	0	$\frac{7}{48}$	$\frac{1}{56}$
$\frac{1013}{1560}$	$\frac{1}{12}$	$\frac{11}{91}$	0	$\frac{1}{8}$	$\frac{3}{140}$
$\frac{4727}{7280}$	$\frac{1}{8}$	$\frac{1}{273}$	$\frac{2}{21}$	$\frac{5}{48}$	$\frac{19}{840}$
$\frac{2027}{3120}$	$\frac{1}{24}$	$\frac{7}{39}$	0	$\frac{5}{48}$	$\frac{1}{40}$
$\frac{3547}{5460}$	$\frac{1}{12}$	$\frac{17}{273}$	$\frac{2}{21}$	$\frac{1}{12}$	$\frac{11}{420}$
$\frac{13}{20}$	0	$\frac{5}{21}$	0	$\frac{1}{12}$	$\frac{1}{35}$
$\frac{2839}{4368}$	$\frac{1}{24}$	$\frac{11}{91}$	$\frac{2}{21}$	$\frac{1}{16}$	$\frac{5}{168}$
$\frac{7097}{10920}$	$\frac{1}{12}$	$\frac{1}{273}$	$\frac{4}{21}$	$\frac{1}{24}$	$\frac{13}{420}$
$\frac{2367}{3640}$	0	$\frac{7}{39}$	$\frac{2}{21}$	$\frac{1}{24}$	$\frac{1}{30}$
$\frac{14201}{21840}$	$\frac{1}{24}$	$\frac{17}{273}$	$\frac{4}{21}$	$\frac{1}{48}$	$\frac{29}{840}$
$\frac{296}{455}$	0	$\frac{11}{91}$	$\frac{4}{21}$	0	$\frac{4}{105}$
$\frac{1009}{1560}$	$\frac{1}{6}$	$\frac{3}{91}$	0	$\frac{1}{8}$	$\frac{1}{35}$
$\frac{673}{1040}$	$\frac{1}{8}$	$\frac{25}{273}$	0	$\frac{5}{48}$	$\frac{9}{280}$
$\frac{101}{156}$	$\frac{1}{12}$	$\frac{41}{273}$	0	$\frac{1}{12}$	$\frac{1}{28}$
$\frac{4713}{7280}$	$\frac{1}{8}$	$\frac{3}{91}$	$\frac{2}{21}$	$\frac{1}{16}$	$\frac{31}{840}$
$\frac{2021}{3120}$	$\frac{1}{24}$	$\frac{19}{91}$	0	$\frac{1}{16}$	$\frac{11}{280}$
$\frac{7073}{10920}$	$\frac{1}{12}$	$\frac{25}{273}$	$\frac{2}{21}$	$\frac{1}{24}$	$\frac{17}{420}$

;

$\frac{10920}{337}$	12	$\frac{273}{73}$	21	24	$\frac{420}{3}$
$\frac{520}{520}$	0	$\frac{273}{273}$	0	$\frac{1}{24}$	$\frac{3}{70}$
$\frac{14153}{21840}$	$\frac{1}{24}$	$\frac{41}{273}$	$\frac{2}{21}$	$\frac{1}{48}$	$\frac{37}{840}$
$\frac{1769}{2730}$	$\frac{1}{12}$	$\frac{3}{91}$	$\frac{4}{21}$	0	$\frac{19}{420}$
$\frac{59}{91}$	0	$\frac{19}{91}$	$\frac{2}{21}$	0	$\frac{1}{21}$
$\frac{2011}{3120}$	$\frac{5}{24}$	$\frac{1}{273}$	0	$\frac{5}{48}$	$\frac{11}{280}$
$\frac{503}{780}$	$\frac{1}{6}$	$\frac{17}{273}$	0	$\frac{1}{12}$	$\frac{3}{70}$
$\frac{671}{1040}$	$\frac{1}{8}$	$\frac{11}{91}$	0	$\frac{1}{16}$	$\frac{13}{280}$
$\frac{1409}{2184}$	$\frac{1}{6}$	$\frac{1}{273}$	$\frac{2}{21}$	$\frac{1}{24}$	$\frac{1}{21}$
$\frac{1007}{1560}$	$\frac{1}{12}$	$\frac{7}{39}$	0	$\frac{1}{24}$	$\frac{1}{20}$
$\frac{4699}{7280}$	$\frac{1}{8}$	$\frac{17}{273}$	$\frac{2}{21}$	$\frac{1}{48}$	$\frac{43}{840}$
$\frac{31}{48}$	$\frac{1}{24}$	$\frac{5}{21}$	0	$\frac{1}{48}$	$\frac{3}{56}$
$\frac{1763}{2730}$	$\frac{1}{12}$	$\frac{11}{91}$	$\frac{2}{21}$	0	$\frac{23}{420}$
$\frac{42}{65}$	0	$\frac{27}{91}$	0	0	$\frac{2}{35}$
$\frac{401}{624}$	$\frac{5}{24}$	$\frac{3}{91}$	0	$\frac{1}{16}$	$\frac{3}{56}$
$\frac{1003}{1560}$	$\frac{1}{6}$	$\frac{25}{273}$	0	$\frac{1}{24}$	$\frac{2}{35}$
$\frac{669}{1040}$	$\frac{1}{8}$	$\frac{41}{273}$	0	$\frac{1}{48}$	$\frac{17}{280}$
$\frac{878}{1365}$	$\frac{1}{6}$	$\frac{3}{91}$	$\frac{2}{21}$	0	$\frac{13}{210}$
$\frac{251}{390}$	$\frac{1}{12}$	$\frac{19}{91}$	0	0	$\frac{9}{140}$
$\frac{333}{520}$	$\frac{1}{4}$	$\frac{1}{273}$	0	$\frac{1}{24}$	$\frac{9}{140}$
$\frac{1999}{3120}$	$\frac{5}{24}$	$\frac{17}{273}$	0	$\frac{1}{48}$	$\frac{19}{280}$
$\frac{25}{39}$	$\frac{1}{6}$	$\frac{11}{91}$	0	0	$\frac{1}{14}$
$\frac{83}{130}$	$\frac{1}{4}$	$\frac{3}{91}$	0	0	$\frac{11}{140}$

last14[[2]]

$$(-15 + x) (-11 + x)^2 (-9 + x)^{12} (-8 + x) (-7 + x) (5 + x)^{32}$$

listrefined2 = list[2][[6, 47, 49]] * mu[last14[[2]]] // Factor

$$\left\{ (-11 + x) (-9 + x)^{11} (-7 + x) (5 + x)^{31} (5583 - 2874 x + 512 x^2 - 38 x^3 + x^4), \right. \\ (-11 + x)^2 (-9 + x)^{12} (-7 + x) (5 + x)^{31} (53 - 18 x + x^2), \\ \left. (-11 + x) (-9 + x)^{12} (5 + x)^{31} (3961 - 2332 x + 454 x^2 - 36 x^3 + x^4) \right\}$$

CoefficientList[list[2][[6, 47, 49]], x]

$$\{\{-39081, 25701, -6458, 778, -45, 1\}, \\ \{-36729, 25141, -6426, 778, -45, 1\}, \{-35649, 24949, -6418, 778, -45, 1\}\}$$

Array[n, 3] /. Flatten[

$$\text{Solve}[\text{Array}[n, 3].\text{CoefficientList}[\text{list}[2][[6, 47, 49]], x] = g[2], \text{Array}[n, 3]]]$$

$$\{42, 1, 6\}$$

`anglesq[2][{6, 47, 49}, {2, 3, 6}] // MatrixForm`

$$\begin{pmatrix} 0 & \frac{1}{273} & \frac{1}{70} \\ 0 & \frac{27}{91} & \frac{2}{35} \\ \frac{1}{6} & \frac{25}{273} & \frac{2}{35} \end{pmatrix}$$

$$\text{Sqrt}\left[\frac{1}{273} * \frac{1}{70}\right]$$

$$\frac{1}{7 \sqrt{390}}$$

$$\text{Sqrt}\left[\frac{27}{91} * \frac{2}{35}\right]$$

$$\frac{3 \sqrt{\frac{6}{65}}}{7}$$

$$\text{Sqrt}\left[\frac{25}{273} * \frac{2}{35}\right]$$

$$\frac{\sqrt{\frac{10}{39}}}{7}$$

`last14[[3]]`

$$(-11 + x)^2 (-9 + x)^{13} (5 + x)^{32} (92 - 21 x + x^2)$$

```
list[3] = {(-9 + x)2 (49 - 18 x + x2),
  3985 - 2340 x + 454 x2 - 36 x3 + x4, 4001 - 2340 x + 454 x2 - 36 x3 + x4,
  4017 - 2340 x + 454 x2 - 36 x3 + x4, (109 - 22 x + x2) (37 - 14 x + x2),
  4049 - 2340 x + 454 x2 - 36 x3 + x4, 4065 - 2340 x + 454 x2 - 36 x3 + x4,
  (-11 + x) (-7 + x) (53 - 18 x + x2), 4281 - 2364 x + 454 x2 - 36 x3 + x4,
  4297 - 2364 x + 454 x2 - 36 x3 + x4, 4177 - 2356 x + 454 x2 - 36 x3 + x4,
  (-7 + x) (-599 + 251 x - 29 x2 + x3), 4209 - 2356 x + 454 x2 - 36 x3 + x4,
  4225 - 2356 x + 454 x2 - 36 x3 + x4, 4241 - 2356 x + 454 x2 - 36 x3 + x4,
  4057 - 2348 x + 454 x2 - 36 x3 + x4, 4073 - 2348 x + 454 x2 - 36 x3 + x4,
  4089 - 2348 x + 454 x2 - 36 x3 + x4, 4105 - 2348 x + 454 x2 - 36 x3 + x4,
  4121 - 2348 x + 454 x2 - 36 x3 + x4, (-7 + x) (-591 + 251 x - 29 x2 + x3),
  4153 - 2348 x + 454 x2 - 36 x3 + x4, (-11 + x) (-379 + 179 x - 25 x2 + x3),
  (-9 + x) (-433 + 211 x - 27 x2 + x3), 3913 - 2332 x + 454 x2 - 36 x3 + x4,
  3929 - 2332 x + 454 x2 - 36 x3 + x4, 3945 - 2332 x + 454 x2 - 36 x3 + x4,
  3961 - 2332 x + 454 x2 - 36 x3 + x4, 3977 - 2332 x + 454 x2 - 36 x3 + x4,
  (-11 + x) (-363 + 179 x - 25 x2 + x3), (-9 + x) (-425 + 211 x - 27 x2 + x3),
  3841 - 2324 x + 454 x2 - 36 x3 + x4, 3857 - 2324 x + 454 x2 - 36 x3 + x4,
  3873 - 2324 x + 454 x2 - 36 x3 + x4, 3889 - 2324 x + 454 x2 - 36 x3 + x4,
  (-11 + x) (-355 + 179 x - 25 x2 + x3), (-9 + x) (-3 + x) (139 - 24 x + x2),
  3769 - 2316 x + 454 x2 - 36 x3 + x4, 3785 - 2316 x + 454 x2 - 36 x3 + x4,
  3801 - 2316 x + 454 x2 - 36 x3 + x4, (-11 + x) (-347 + 179 x - 25 x2 + x3),
  (-9 + x) (-409 + 211 x - 27 x2 + x3), 3697 - 2308 x + 454 x2 - 36 x3 + x4,
  3713 - 2308 x + 454 x2 - 36 x3 + x4, (-11 + x) (-3 + x) (113 - 22 x + x2),
  (-9 + x) (-401 + 211 x - 27 x2 + x3), 3625 - 2300 x + 454 x2 - 36 x3 + x4,
  (-11 + x) (-331 + 179 x - 25 x2 + x3), (-9 + x) (-393 + 211 x - 27 x2 + x3),
  (-11 + x) (-323 + 179 x - 25 x2 + x3), (-11 + x) (-9 + x) (35 - 16 x + x2)};
```

$$A[3] = \begin{pmatrix} 3969 & -2340 & 454 & -36 & 1 \\ 3985 & -2340 & 454 & -36 & 1 \\ 4001 & -2340 & 454 & -36 & 1 \\ 4017 & -2340 & 454 & -36 & 1 \\ 4033 & -2340 & 454 & -36 & 1 \\ 4049 & -2340 & 454 & -36 & 1 \\ 4065 & -2340 & 454 & -36 & 1 \\ 4081 & -2340 & 454 & -36 & 1 \\ 4281 & -2364 & 454 & -36 & 1 \\ 4297 & -2364 & 454 & -36 & 1 \\ 4177 & -2356 & 454 & -36 & 1 \\ 4193 & -2356 & 454 & -36 & 1 \\ 4209 & -2356 & 454 & -36 & 1 \\ 4225 & -2356 & 454 & -36 & 1 \\ 4241 & -2356 & 454 & -36 & 1 \\ 4057 & -2348 & 454 & -36 & 1 \\ 4073 & -2348 & 454 & -36 & 1 \\ 4089 & -2348 & 454 & -36 & 1 \\ 4105 & -2348 & 454 & -36 & 1 \\ 4121 & -2348 & 454 & -36 & 1 \\ 4137 & -2348 & 454 & -36 & 1 \\ 4153 & -2348 & 454 & -36 & 1 \\ 4169 & -2348 & 454 & -36 & 1 \\ 3897 & -2332 & 454 & -36 & 1 \\ 3913 & -2332 & 454 & -36 & 1 \\ 3929 & -2332 & 454 & -36 & 1 \\ 3945 & -2332 & 454 & -36 & 1 \\ 3961 & -2332 & 454 & -36 & 1 \\ 3977 & -2332 & 454 & -36 & 1 \\ 3993 & -2332 & 454 & -36 & 1 \\ 3825 & -2324 & 454 & -36 & 1 \\ 3841 & -2324 & 454 & -36 & 1 \\ 3857 & -2324 & 454 & -36 & 1 \\ 3873 & -2324 & 454 & -36 & 1 \\ 3889 & -2324 & 454 & -36 & 1 \\ 3905 & -2324 & 454 & -36 & 1 \\ 3753 & -2316 & 454 & -36 & 1 \\ 3769 & -2316 & 454 & -36 & 1 \\ 3785 & -2316 & 454 & -36 & 1 \\ 3801 & -2316 & 454 & -36 & 1 \\ 3817 & -2316 & 454 & -36 & 1 \\ 3681 & -2308 & 454 & -36 & 1 \\ 3697 & -2308 & 454 & -36 & 1 \\ 3713 & -2308 & 454 & -36 & 1 \\ 3729 & -2308 & 454 & -36 & 1 \\ 3609 & -2300 & 454 & -36 & 1 \\ 3625 & -2300 & 454 & -36 & 1 \\ 3641 & -2300 & 454 & -36 & 1 \\ 3537 & -2292 & 454 & -36 & 1 \\ 3553 & -2292 & 454 & -36 & 1 \\ 3465 & -2284 & 454 & -36 & 1 \end{pmatrix} ;$$

Dimensions[A[3]]

{51, 5}

g[3] = CoefficientList[D[last14[[3]], x] / mu[last14[[3]]] // Factor, x]

{207 001, -115 404, 22 246, -1764, 49}

$$\text{anglesq}[3] = \left(\begin{array}{ccc} \frac{287}{444} & \frac{53}{666} + \frac{385}{666\sqrt{73}} & 0 \\ \frac{335}{518} & \frac{67}{888} + \frac{449}{888\sqrt{73}} & \frac{1}{28} \\ \frac{2011}{3108} & \frac{6935+577\sqrt{73}}{97236} & \frac{1}{14} \\ \frac{503}{777} & \frac{13067+961\sqrt{73}}{194472} & \frac{3}{28} \\ \frac{671}{1036} & \frac{511+32\sqrt{73}}{8103} & \frac{1}{7} \\ \frac{1007}{1554} & \frac{11461+575\sqrt{73}}{194472} & \frac{5}{28} \\ \frac{2015}{3108} & \frac{5329+191\sqrt{73}}{97236} & \frac{1}{36} \\ \frac{24}{37} & \frac{3(365+7\sqrt{73})}{21608} & \frac{1}{4} \\ \frac{509}{777} & \frac{949+107\sqrt{73}}{97236} & \frac{3}{14} \\ \frac{97}{148} & \frac{5}{888} + \frac{7}{888\sqrt{73}} & \frac{1}{4} \\ \frac{2027}{3108} & \frac{803+82\sqrt{73}}{24309} & \frac{1}{7} \\ \frac{169}{259} & \frac{5621+463\sqrt{73}}{194472} & \frac{5}{28} \\ \frac{2029}{3108} & \frac{803+45\sqrt{73}}{32412} & \frac{1}{12} \\ \frac{145}{222} & \frac{11(365+7\sqrt{73})}{194472} & \frac{1}{4} \\ \frac{677}{1036} & \frac{803-29\sqrt{73}}{48618} & \frac{2}{7} \\ \frac{2017}{3108} & \frac{11753+1291\sqrt{73}}{194472} & \frac{1}{28} \\ \frac{1009}{1554} & \frac{25}{444} + \frac{61}{148\sqrt{73}} & \frac{1}{14} \\ \frac{673}{1036} & \frac{10147+905\sqrt{73}}{194472} & \frac{3}{28} \\ \frac{505}{777} & \frac{16}{333} + \frac{89}{333\sqrt{73}} & \frac{1}{7} \\ \frac{2021}{3108} & \frac{13}{296} + \frac{173}{888\sqrt{73}} & \frac{5}{28} \\ \frac{337}{518} & \frac{3869+163\sqrt{73}}{97236} & \frac{3}{14} \\ \frac{289}{444} & \frac{19(365+7\sqrt{73})}{194472} & \frac{1}{4} \\ \frac{506}{777} & \frac{7}{222} - \frac{5}{222\sqrt{73}} & \frac{2}{7} \\ \frac{143}{222} & \frac{7}{74} + \frac{133}{222\sqrt{73}} & 0 \\ \frac{2003}{3108} & \frac{17593+1403\sqrt{73}}{194472} & \frac{1}{28} \\ \frac{167}{259} & \frac{5(1679+121\sqrt{73})}{97236} & \frac{1}{14} \\ \frac{2005}{3108} & \frac{73}{888} + \frac{113}{296\sqrt{73}} & \frac{3}{28} \\ \frac{1003}{1554} & \frac{26}{333} + \frac{103}{333\sqrt{73}} & \frac{1}{7} \\ \frac{669}{1036} & \frac{14381+631\sqrt{73}}{194472} & \frac{5}{28} \\ \frac{502}{777} & \frac{1}{444} (31 + \sqrt{73}) & \frac{3}{14} \end{array} \right) - \left(\begin{array}{ccc} \frac{53}{666} - \frac{385}{666\sqrt{73}} & & \frac{7}{36} \\ \frac{67}{888} - \frac{449}{888\sqrt{73}} & & \frac{1}{6} \\ \frac{6935-577\sqrt{73}}{97236} & & \frac{5}{36} \\ \frac{13067-961\sqrt{73}}{194472} & & \frac{1}{9} \\ \frac{511-32\sqrt{73}}{8103} & & \frac{1}{12} \\ \frac{11461-575\sqrt{73}}{194472} & & \frac{1}{18} \\ \frac{5329-191\sqrt{73}}{97236} & & \frac{1}{36} \\ \frac{3(365-7\sqrt{73})}{21608} & & 0 \\ \frac{949-107\sqrt{73}}{97236} & & \frac{1}{9} \\ \frac{5}{888} - \frac{7}{888\sqrt{73}} & & \frac{1}{12} \\ \frac{803-82\sqrt{73}}{24309} & & \frac{5}{36} \\ \frac{5621-463\sqrt{73}}{194472} & & \frac{1}{9} \\ \frac{803-45\sqrt{73}}{32412} & & \frac{1}{12} \\ \frac{11(365-7\sqrt{73})}{194472} & & \frac{1}{18} \\ \frac{803+29\sqrt{73}}{48618} & & \frac{1}{36} \\ \frac{11753-1291\sqrt{73}}{194472} & & \frac{7}{36} \\ \frac{25}{444} - \frac{61}{148\sqrt{73}} & & \frac{1}{6} \\ \frac{10147-905\sqrt{73}}{194472} & & \frac{5}{36} \\ \frac{16}{333} - \frac{89}{333\sqrt{73}} & & \frac{1}{9} \\ \frac{13}{296} - \frac{173}{888\sqrt{73}} & & \frac{1}{12} \\ \frac{3869-163\sqrt{73}}{97236} & & \frac{1}{18} \\ \frac{19(-365+7\sqrt{73})}{194472} & & -\frac{1}{36} \\ \frac{7}{222} + \frac{5}{222\sqrt{73}} & & 0 \\ \frac{7}{74} - \frac{133}{222\sqrt{73}} & & \frac{1}{6} \\ \frac{17593-1403\sqrt{73}}{194472} & & \frac{5}{36} \\ \frac{5(-1679+121\sqrt{73})}{97236} & & -\frac{1}{9} \\ \frac{73}{888} - \frac{113}{296\sqrt{73}} & & \frac{1}{12} \\ \frac{26}{333} - \frac{103}{333\sqrt{73}} & & \frac{1}{18} \\ \frac{14381-631\sqrt{73}}{194472} & & \frac{1}{36} \\ \frac{1}{444} (31 - \sqrt{73}) & & 0 \end{array} \right);$$

$\frac{95}{148}$	$\frac{73}{666} + \frac{413}{666\sqrt{73}}$	0	$\frac{5}{36}$	$\frac{73}{666} - \frac{413}{666\sqrt{73}}$
$\frac{499}{777}$	$\frac{20513+1459\sqrt{73}}{194472}$	$\frac{1}{28}$	$\frac{1}{9}$	$\frac{20513-1459\sqrt{73}}{194472}$
$\frac{1997}{3108}$	$\frac{15}{148} + \frac{211}{444\sqrt{73}}$	$\frac{1}{14}$	$\frac{1}{12}$	$\frac{15}{148} - \frac{211}{444\sqrt{73}}$
$\frac{9}{14}$	$\frac{7}{72} + \frac{29}{72\sqrt{73}}$	$\frac{3}{28}$	$\frac{1}{18}$	$\frac{7}{72} - \frac{29}{72\sqrt{73}}$
$\frac{1999}{3108}$	$\frac{31}{333} + \frac{110}{333\sqrt{73}}$	$\frac{1}{7}$	$\frac{1}{36}$	$\frac{31}{333} - \frac{110}{333\sqrt{73}}$
$\frac{500}{777}$	$\frac{79}{888} + \frac{229}{888\sqrt{73}}$	$\frac{5}{28}$	0	$\frac{79}{888} - \frac{229}{888\sqrt{73}}$
$\frac{71}{111}$	$\frac{83}{666} + \frac{427}{666\sqrt{73}}$	0	$\frac{1}{9}$	$\frac{83}{666} - \frac{427}{666\sqrt{73}}$
$\frac{663}{1036}$	$\frac{7811+505\sqrt{73}}{64824}$	$\frac{1}{28}$	$\frac{1}{12}$	$\frac{7811-505\sqrt{73}}{64824}$
$\frac{995}{1554}$	$\frac{11315+661\sqrt{73}}{97236}$	$\frac{1}{14}$	$\frac{1}{18}$	$\frac{11315-661\sqrt{73}}{97236}$
$\frac{1991}{3108}$	$\frac{21827+1129\sqrt{73}}{194472}$	$\frac{3}{28}$	$\frac{1}{36}$	$\frac{21827-1129\sqrt{73}}{194472}$
$\frac{166}{259}$	$\frac{4}{37} + \frac{13}{37\sqrt{73}}$	$\frac{1}{7}$	0	$\frac{4}{37} - \frac{13}{37\sqrt{73}}$
$\frac{283}{444}$	$\frac{31}{222} + \frac{49}{74\sqrt{73}}$	0	$\frac{1}{12}$	$\frac{31}{222} - \frac{49}{74\sqrt{73}}$
$\frac{991}{1554}$	$\frac{26353+1571\sqrt{73}}{194472}$	$\frac{1}{28}$	$\frac{1}{18}$	$\frac{26353-1571\sqrt{73}}{194472}$
$\frac{661}{1036}$	$\frac{12775+689\sqrt{73}}{97236}$	$\frac{1}{14}$	$\frac{1}{36}$	$\frac{12775-689\sqrt{73}}{97236}$
$\frac{496}{777}$	$\frac{8249+395\sqrt{73}}{64824}$	$\frac{3}{28}$	0	$\frac{8249-395\sqrt{73}}{64824}$
$\frac{47}{74}$	$\frac{7519+455\sqrt{73}}{48618}$	0	$\frac{1}{18}$	$\frac{7519-455\sqrt{73}}{48618}$
$\frac{1975}{3108}$	$\frac{29273+1627\sqrt{73}}{194472}$	$\frac{1}{28}$	$\frac{1}{36}$	$\frac{29273-1627\sqrt{73}}{194472}$
$\frac{494}{777}$	$\frac{65}{444} + \frac{239}{444\sqrt{73}}$	$\frac{1}{14}$	0	$\frac{65}{444} - \frac{239}{444\sqrt{73}}$
$\frac{281}{444}$	$\frac{8249+469\sqrt{73}}{48618}$	0	$\frac{1}{36}$	$\frac{8249-469\sqrt{73}}{48618}$
$\frac{164}{259}$	$\frac{49}{296} + \frac{187}{296\sqrt{73}}$	$\frac{1}{28}$	0	$\frac{49}{296} - \frac{187}{296\sqrt{73}}$
$\frac{70}{111}$	$\frac{41}{222} + \frac{161}{222\sqrt{73}}$	0	0	$\frac{41}{222} - \frac{161}{222\sqrt{73}}$

interlacepoly3compatiblew15 = {1, 9, 15, 23, 37}

{1, 9, 15, 23, 37}

last14[[3]]

$$(-11+x)^2 (-9+x)^{13} (5+x)^{32} (92-21x+x^2)$$

listrefined3 = list[3][{1, 9, 15, 23, 37}] * mu[last14[[3]]] // Factor

$$\begin{aligned} & \{ (-11+x) (-9+x)^{14} (5+x)^{31} (49-18x+x^2), \\ & (-11+x) (-9+x)^{12} (5+x)^{31} (4281-2364x+454x^2-36x^3+x^4), \\ & (-11+x) (-9+x)^{12} (5+x)^{31} (4241-2356x+454x^2-36x^3+x^4), \\ & (-11+x)^2 (-9+x)^{12} (5+x)^{31} (-379+179x-25x^2+x^3), \\ & (-11+x) (-9+x)^{13} (-3+x) (5+x)^{31} (139-24x+x^2) \} \end{aligned}$$

Array[n, 51] /.

```
Solve[n[1] ≥ 0 && n[2] == 0 && n[3] == 0 && n[4] == 0 && n[5] == 0 && n[6] == 0 && n[7] == 0 &&
n[8] == 0 && n[9] ≥ 0 && n[10] == 0 && n[11] == 0 && n[12] == 0 && n[13] == 0 &&
n[14] == 0 && n[15] ≥ 0 && n[16] == 0 && n[17] == 0 && n[18] == 0 && n[19] == 0 &&
n[20] == 0 && n[21] == 0 && n[22] == 0 && n[23] ≥ 0 && n[24] == 0 && n[25] == 0 &&
n[26] == 0 && n[27] == 0 && n[28] == 0 && n[29] == 0 && n[30] == 0 &&
n[31] == 0 && n[32] == 0 && n[33] == 0 && n[34] == 0 && n[35] == 0 && n[36] == 0 &&
n[37] ≥ 0 && n[38] == 0 && n[39] == 0 && n[40] == 0 && n[41] == 0 && n[42] == 0 &&
n[43] == 0 && n[44] == 0 && n[45] == 0 && n[46] == 0 && n[47] == 0 && n[48] == 0 &&
n[49] == 0 && n[50] == 0 && n[51] == 0 && Array[n, 51].A[3] == g[3],
```

Array[n, 51], Integers] // MatrixForm

```
( 0 0 0 0 0 0 0 0 6 0 0 0 0 0 40 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 10 0 0 0 0 0 28 0 0 0 0 0 0 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 14 0 0 0 0 0 16 0 0 0 0 0 0 0 19 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1 0 0 0 0 0 0 0 6 0 0 0 0 0 37 0 0 0 0 0 0 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1 0 0 0 0 0 0 0 10 0 0 0 0 0 25 0 0 0 0 0 0 0 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2 0 0 0 0 0 0 0 6 0 0 0 0 0 34 0 0 0 0 0 0 0 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0
3 0 0 0 0 0 0 0 2 0 0 0 0 0 43 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0)
```

anglesq[3][{1, 9, 15, 23, 37}, {2, 5}] // MatrixForm

```
( 53/666 + 385/(666*sqrt(73)) 53/666 - 385/(666*sqrt(73))
949+107*sqrt(73)/97236 949-107*sqrt(73)/97236
803-29*sqrt(73)/48618 803+29*sqrt(73)/48618
7/222 - 5/(222*sqrt(73)) 7/222 + 5/(222*sqrt(73))
83/666 + 427/(666*sqrt(73)) 83/666 - 427/(666*sqrt(73)) )
```

```
combinations[(-11 + x)^2 (-9 + x)^13 (5 + x)^32 (92 - 21 x + x^2), (x + 5) (x - 9) (x - 11),
list[3][[23]], list[3][[37]], list[3], anglesq[3]] // FullSimplify
```

```
{29, -55/sqrt(73)}
```

last14[[4]]

```
(-11 + x) (-9 + x)^12 (5 + x)^32 (9140 - 3919 x + 611 x^2 - 41 x^3 + x^4)
```

```
list[4] = {415 699 - 317 328 x + 96 275 x^2 - 15 000 x^3 + 1273 x^4 - 56 x^5 + x^6,
415 763 - 317 328 x + 96 275 x^2 - 15 000 x^3 + 1273 x^4 - 56 x^5 + x^6,
(-11 + x) (-37 993 + 25 429 x - 6442 x^2 + 778 x^3 - 45 x^4 + x^5),
(-9 + x) (-46 443 + 30 141 x - 7350 x^2 + 850 x^3 - 47 x^4 + x^5),
(-11 + x)^2 (-7 + x) (-493 + 215 x - 27 x^2 + x^3),
417 635 - 317 680 x + 96 291 x^2 - 15 000 x^3 + 1273 x^4 - 56 x^5 + x^6,
```


$$\begin{aligned}
& (-9+x) (-46411 + 30141x - 7350x^2 + 850x^3 - 47x^4 + x^5), \\
& 417283 - 317648x + 96291x^2 - 15000x^3 + 1273x^4 - 56x^5 + x^6, \\
& (-7+x) (-59621 + 36861x - 8490x^2 + 930x^3 - 49x^4 + x^5), \\
& (-11+x) (-38105 + 25445x - 6442x^2 + 778x^3 - 45x^4 + x^5), \\
& 419219 - 318000x + 96307x^2 - 15000x^3 + 1273x^4 - 56x^5 + x^6, \\
& (-11+x) (-7+x) (5439 - 2858x + 512x^2 - 38x^3 + x^4), \\
& 418867 - 317968x + 96307x^2 - 15000x^3 + 1273x^4 - 56x^5 + x^6, \\
& (-11+x) (-38217 + 25461x - 6442x^2 + 778x^3 - 45x^4 + x^5), \\
& 420451 - 318288x + 96323x^2 - 15000x^3 + 1273x^4 - 56x^5 + x^6, \\
& (-11+x) (-38329 + 25477x - 6442x^2 + 778x^3 - 45x^4 + x^5), \\
& (-9+x) (-45123 + 29933x - 7342x^2 + 850x^3 - 47x^4 + x^5), \\
& (-9+x) (-45091 + 29933x - 7342x^2 + 850x^3 - 47x^4 + x^5), \\
& (-9+x) (-45059 + 29933x - 7342x^2 + 850x^3 - 47x^4 + x^5), \\
& (-11+x) (-9+x) (4121 - 2348x + 454x^2 - 36x^3 + x^4), \\
& (-11+x) (-37057 + 25253x - 6434x^2 + 778x^3 - 45x^4 + x^5), \\
& (-9+x) (-45299 + 29949x - 7342x^2 + 850x^3 - 47x^4 + x^5), \\
& 407339 - 314808x + 96027x^2 - 14992x^3 + 1273x^4 - 56x^5 + x^6, \\
& (-9+x) (-45267 + 29949x - 7342x^2 + 850x^3 - 47x^4 + x^5), \\
& 407051 - 314776x + 96027x^2 - 14992x^3 + 1273x^4 - 56x^5 + x^6, \\
& (-11+x) (-9+x) (-7+x) (-591 + 251x - 29x^2 + x^3), \\
& (-11+x) (-37201 + 25269x - 6434x^2 + 778x^3 - 45x^4 + x^5), \\
& (-9+x) (-45475 + 29965x - 7342x^2 + 850x^3 - 47x^4 + x^5), \\
& (-11+x)^2 (109 - 22x + x^2) (31 - 12x + x^2), \\
& 408923 - 315128x + 96043x^2 - 14992x^3 + 1273x^4 - 56x^5 + x^6, \\
& (-9+x) (-45443 + 29965x - 7342x^2 + 850x^3 - 47x^4 + x^5), \\
& 408635 - 315096x + 96043x^2 - 14992x^3 + 1273x^4 - 56x^5 + x^6, \\
& (-11+x) (-9+x) (4153 - 2348x + 454x^2 - 36x^3 + x^4), \\
& (-11+x)^2 (-7+x) (-485 + 215x - 27x^2 + x^3), \\
& (-9+x) (-45651 + 29981x - 7342x^2 + 850x^3 - 47x^4 + x^5), \\
& (-11+x) (-37313 + 25285x - 6434x^2 + 778x^3 - 45x^4 + x^5), \\
& 410507 - 315448x + 96059x^2 - 14992x^3 + 1273x^4 - 56x^5 + x^6, \\
& 410155 - 315416x + 96059x^2 - 14992x^3 + 1273x^4 - 56x^5 + x^6, \\
& (-11+x)^2 (-9+x) (-379 + 179x - 25x^2 + x^3), \\
& (-11+x) (-37489 + 25301x - 6434x^2 + 778x^3 - 45x^4 + x^5), \\
& (-9+x) (-45827 + 29997x - 7342x^2 + 850x^3 - 47x^4 + x^5), \\
& (-11+x) (-7+x) (5351 - 2850x + 512x^2 - 38x^3 + x^4), \\
& 412091 - 315768x + 96075x^2 - 14992x^3 + 1273x^4 - 56x^5 + x^6, \\
& (-11+x) (-37425 + 25301x - 6434x^2 + 778x^3 - 45x^4 + x^5), \\
& 411739 - 315736x + 96075x^2 - 14992x^3 + 1273x^4 - 56x^5 + x^6, \\
& (-11+x) (-37633 + 25317x - 6434x^2 + 778x^3 - 45x^4 + x^5), \\
& (-11+x) (-37601 + 25317x - 6434x^2 + 778x^3 - 45x^4 + x^5), \\
& 413675 - 316088x + 96091x^2 - 14992x^3 + 1273x^4 - 56x^5 + x^6, \\
& (-11+x) (-7+x) (5367 - 2850x + 512x^2 - 38x^3 + x^4), \\
& (-11+x) (-37713 + 25333x - 6434x^2 + 778x^3 - 45x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)(-9+x)(4001-2340x+454x^2-36x^3+x^4), \\
& (-11+x)(-9+x)(4017-2340x+454x^2-36x^3+x^4), \\
& (-9+x)(-44155+29757x-7334x^2+850x^3-47x^4+x^5), \\
& (-9+x)(-44123+29757x-7334x^2+850x^3-47x^4+x^5), \\
& (-11+x)(-9+x)(109-22x+x^2)(37-14x+x^2), \\
& (-11+x)(-36265+25093x-6426x^2+778x^3-45x^4+x^5), \\
& (-9+x)(-44331+29773x-7334x^2+850x^3-47x^4+x^5), \\
& (-9+x)(-44299+29773x-7334x^2+850x^3-47x^4+x^5), \\
& (-11+x)(-9+x)(4049-2340x+454x^2-36x^3+x^4), \\
& (-11+x)(-36409+25109x-6426x^2+778x^3-45x^4+x^5), \\
& (-9+x)(-44507+29789x-7334x^2+850x^3-47x^4+x^5), \\
& 400211-312576x+95795x^2-14984x^3+1273x^4-56x^5+x^6, \\
& (-9+x)(-44475+29789x-7334x^2+850x^3-47x^4+x^5), \\
& (-11+x)(-9+x)(4065-2340x+454x^2-36x^3+x^4), \\
& (-11+x)^2(3323-1982x+404x^2-34x^3+x^4), \\
& (-9+x)(-44683+29805x-7334x^2+850x^3-47x^4+x^5), \\
& 401795-312896x+95811x^2-14984x^3+1273x^4-56x^5+x^6, \\
& (-11+x)^2(-9+x)(-7+x)(53-18x+x^2), \\
& (-11+x)(-36697+25141x-6426x^2+778x^3-45x^4+x^5), \\
& (-9+x)(-44859+29821x-7334x^2+850x^3-47x^4+x^5), \\
& (-11+x)(-36665+25141x-6426x^2+778x^3-45x^4+x^5), \\
& 403379-313216x+95827x^2-14984x^3+1273x^4-56x^5+x^6, \\
& (-11+x)(-9+x)(4097-2340x+454x^2-36x^3+x^4), \\
& (-11+x)(-7+x)(5263-2842x+512x^2-38x^3+x^4), \\
& (-9+x)(-45035+29837x-7334x^2+850x^3-47x^4+x^5), \\
& (-11+x)(-36809+25157x-6426x^2+778x^3-45x^4+x^5), \\
& (-11+x)(-9+x)(4113-2340x+454x^2-36x^3+x^4), \\
& (-11+x)(-36985+25173x-6426x^2+778x^3-45x^4+x^5), \\
& (-11+x)(-7+x)(5279-2842x+512x^2-38x^3+x^4), \\
& (-11+x)(31-12x+x^2)(-1191+351x-33x^2+x^3), \\
& (-11+x)(-37129+25189x-6426x^2+778x^3-45x^4+x^5), \\
& (-11+x)(-9+x)(3929-2332x+454x^2-36x^3+x^4), \\
& (-11+x)(-9+x)(3945-2332x+454x^2-36x^3+x^4), \\
& (-9+x)(-43363+29597x-7326x^2+850x^3-47x^4+x^5), \\
& (-11+x)(-9+x)(3961-2332x+454x^2-36x^3+x^4), \\
& (-9+x)(-43539+29613x-7326x^2+850x^3-47x^4+x^5), \\
& (-9+x)(139-24x+x^2)(-313+159x-23x^2+x^3), \\
& (-11+x)(-9+x)(3977-2332x+454x^2-36x^3+x^4), \\
& (-11+x)^2(3251-1974x+404x^2-34x^3+x^4), \\
& (-9+x)(-43715+29629x-7326x^2+850x^3-47x^4+x^5), \\
& 393083-310344x+95563x^2-14976x^3+1273x^4-56x^5+x^6, \\
& (-11+x)^2(-9+x)(-363+179x-25x^2+x^3), \\
& (-11+x)(-35905+24981x-6418x^2+778x^3-45x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-9+x) (-43\,891 + 29\,645 x - 7326 x^2 + 850 x^3 - 47 x^4 + x^5), \\
& 394\,667 - 310\,664 x + 95\,579 x^2 - 14\,976 x^3 + 1273 x^4 - 56 x^5 + x^6, \\
& (-11+x) (-9+x) (4009 - 2332 x + 454 x^2 - 36 x^3 + x^4), \\
& (-11+x) (-36\,049 + 24\,997 x - 6418 x^2 + 778 x^3 - 45 x^4 + x^5), \\
& (-9+x) (37 - 14 x + x^2) (-1191 + 351 x - 33 x^2 + x^3), \\
& (-11+x) (-36\,017 + 24\,997 x - 6418 x^2 + 778 x^3 - 45 x^4 + x^5), \\
& (-11+x) (-9+x) (-7+x) (-575 + 251 x - 29 x^2 + x^3), \\
& (-11+x) (-36\,193 + 25\,013 x - 6418 x^2 + 778 x^3 - 45 x^4 + x^5), \\
& (-11+x) (-36\,161 + 25\,013 x - 6418 x^2 + 778 x^3 - 45 x^4 + x^5), \\
& (-11+x) (-9+x) (4041 - 2332 x + 454 x^2 - 36 x^3 + x^4), \\
& (-11+x) (-7+x) (5191 - 2834 x + 512 x^2 - 38 x^3 + x^4), \\
& (-11+x) (-9+x) (3873 - 2324 x + 454 x^2 - 36 x^3 + x^4), \\
& (-11+x) (-9+x) (3889 - 2324 x + 454 x^2 - 36 x^3 + x^4), \\
& (-9+x) (-42\,747 + 29\,453 x - 7318 x^2 + 850 x^3 - 47 x^4 + x^5), \\
& (-11+x)^2 (-9+x) (-355 + 179 x - 25 x^2 + x^3), \\
& (-11+x) (-35\,113 + 24\,821 x - 6410 x^2 + 778 x^3 - 45 x^4 + x^5), \\
& (-9+x) (-42\,923 + 29\,469 x - 7318 x^2 + 850 x^3 - 47 x^4 + x^5), \\
& (-11+x) (-9+x) (3921 - 2324 x + 454 x^2 - 36 x^3 + x^4), \\
& (-11+x) (-35\,257 + 24\,837 x - 6410 x^2 + 778 x^3 - 45 x^4 + x^5), \\
& (-11+x) (-9+x) (3937 - 2324 x + 454 x^2 - 36 x^3 + x^4), \\
& (-11+x) (-35\,401 + 24\,853 x - 6410 x^2 + 778 x^3 - 45 x^4 + x^5), \\
& (-11+x) (113 - 22 x + x^2) (-313 + 159 x - 23 x^2 + x^3), \\
& (-11+x) (-9+x) (3953 - 2324 x + 454 x^2 - 36 x^3 + x^4), \\
& (-11+x) (-9+x) (3801 - 2316 x + 454 x^2 - 36 x^3 + x^4), \\
& (-11+x)^2 (-9+x) (-347 + 179 x - 25 x^2 + x^3), \\
& (-9+x) (-41\,955 + 29\,293 x - 7310 x^2 + 850 x^3 - 47 x^4 + x^5), \\
& (-11+x) (-9+x) (3833 - 2316 x + 454 x^2 - 36 x^3 + x^4), \\
& (-11+x) (-9+x) (3849 - 2316 x + 454 x^2 - 36 x^3 + x^4), \\
& (-11+x) (-34\,609 + 24\,693 x - 6402 x^2 + 778 x^3 - 45 x^4 + x^5), \\
& (-11+x) (-9+x) (3865 - 2316 x + 454 x^2 - 36 x^3 + x^4), \\
& (-11+x) (-9+x) (3745 - 2308 x + 454 x^2 - 36 x^3 + x^4), \\
& (-11+x) (-9+x) (3761 - 2308 x + 454 x^2 - 36 x^3 + x^4), \\
& (-11+x) (-9+x) (3673 - 2300 x + 454 x^2 - 36 x^3 + x^4) \};
\end{aligned}$$

$$\begin{pmatrix}
415\,699 & -317\,328 & 96\,275 & -15\,000 & 1273 & -56 & 1 \\
415\,763 & -317\,328 & 96\,275 & -15\,000 & 1273 & -56 & 1 \\
417\,923 & -317\,712 & 96\,291 & -15\,000 & 1273 & -56 & 1 \\
417\,987 & -317\,712 & 96\,291 & -15\,000 & 1273 & -56 & 1 \\
417\,571 & -317\,680 & 96\,291 & -15\,000 & 1273 & -56 & 1 \\
417\,635 & -317\,680 & 96\,291 & -15\,000 & 1273 & -56 & 1 \\
417\,699 & -317\,680 & 96\,291 & -15\,000 & 1273 & -56 & 1 \\
417\,283 & -317\,648 & 96\,291 & -15\,000 & 1273 & -56 & 1 \\
417\,347 & -317\,648 & 96\,291 & -15\,000 & 1273 & -56 & 1 \\
419\,155 & -318\,000 & 96\,307 & -15\,000 & 1273 & -56 & 1 \\
419\,219 & -318\,000 & 96\,307 & -15\,000 & 1273 & -56 & 1 \\
418\,803 & -317\,968 & 96\,307 & -15\,000 & 1273 & -56 & 1
\end{pmatrix}$$

```

A[4] =
418 867 -317 968 96 307 -15 000 1273 -56 1
420 387 -318 288 96 323 -15 000 1273 -56 1
420 451 -318 288 96 323 -15 000 1273 -56 1
421 619 -318 576 96 339 -15 000 1273 -56 1
406 107 -314 520 96 011 -14 992 1273 -56 1
405 819 -314 488 96 011 -14 992 1273 -56 1
405 531 -314 456 96 011 -14 992 1273 -56 1
407 979 -314 872 96 027 -14 992 1273 -56 1
407 627 -314 840 96 027 -14 992 1273 -56 1
407 691 -314 840 96 027 -14 992 1273 -56 1
407 339 -314 808 96 027 -14 992 1273 -56 1
407 403 -314 808 96 027 -14 992 1273 -56 1
407 051 -314 776 96 027 -14 992 1273 -56 1
409 563 -315 192 96 043 -14 992 1273 -56 1
409 211 -315 160 96 043 -14 992 1273 -56 1
409 275 -315 160 96 043 -14 992 1273 -56 1
408 859 -315 128 96 043 -14 992 1273 -56 1
408 923 -315 128 96 043 -14 992 1273 -56 1
408 987 -315 128 96 043 -14 992 1273 -56 1
408 635 -315 096 96 043 -14 992 1273 -56 1
411 147 -315 512 96 059 -14 992 1273 -56 1
410 795 -315 480 96 059 -14 992 1273 -56 1
410 859 -315 480 96 059 -14 992 1273 -56 1
410 443 -315 448 96 059 -14 992 1273 -56 1
410 507 -315 448 96 059 -14 992 1273 -56 1
410 155 -315 416 96 059 -14 992 1273 -56 1
412 731 -315 832 96 075 -14 992 1273 -56 1
412 379 -315 800 96 075 -14 992 1273 -56 1
412 443 -315 800 96 075 -14 992 1273 -56 1
412 027 -315 768 96 075 -14 992 1273 -56 1
412 091 -315 768 96 075 -14 992 1273 -56 1
411 675 -315 736 96 075 -14 992 1273 -56 1
411 739 -315 736 96 075 -14 992 1273 -56 1
413 963 -316 120 96 091 -14 992 1273 -56 1
413 611 -316 088 96 091 -14 992 1273 -56 1
413 675 -316 088 96 091 -14 992 1273 -56 1
413 259 -316 056 96 091 -14 992 1273 -56 1
414 843 -316 376 96 107 -14 992 1273 -56 1
396 099 -311 680 95 747 -14 984 1273 -56 1
397 683 -312 000 95 763 -14 984 1273 -56 1
397 395 -311 968 95 763 -14 984 1273 -56 1
397 107 -311 936 95 763 -14 984 1273 -56 1
399 267 -312 320 95 779 -14 984 1273 -56 1
398 915 -312 288 95 779 -14 984 1273 -56 1
398 979 -312 288 95 779 -14 984 1273 -56 1
398 691 -312 256 95 779 -14 984 1273 -56 1
400 851 -312 640 95 795 -14 984 1273 -56 1
400 499 -312 608 95 795 -14 984 1273 -56 1
400 563 -312 608 95 795 -14 984 1273 -56 1
400 211 -312 576 95 795 -14 984 1273 -56 1
400 275 -312 576 95 795 -14 984 1273 -56 1
402 435 -312 960 95 811 -14 984 1273 -56 1
402 083 -312 928 95 811 -14 984 1273 -56 1
402 147 -312 928 95 811 -14 984 1273 -56 1
401 795 -312 896 95 811 -14 984 1273 -56 1

```

404 019	- 313 280	95 827	- 14 984	1273	- 56	1
403 667	- 313 248	95 827	- 14 984	1273	- 56	1
403 731	- 313 248	95 827	- 14 984	1273	- 56	1
403 315	- 313 216	95 827	- 14 984	1273	- 56	1
403 379	- 313 216	95 827	- 14 984	1273	- 56	1
405 603	- 313 600	95 843	- 14 984	1273	- 56	1
405 251	- 313 568	95 843	- 14 984	1273	- 56	1
405 315	- 313 568	95 843	- 14 984	1273	- 56	1
404 899	- 313 536	95 843	- 14 984	1273	- 56	1
407 187	- 313 920	95 859	- 14 984	1273	- 56	1
406 835	- 313 888	95 859	- 14 984	1273	- 56	1
406 483	- 313 856	95 859	- 14 984	1273	- 56	1
406 131	- 313 824	95 859	- 14 984	1273	- 56	1
408 419	- 314 208	95 875	- 14 984	1273	- 56	1
388 971	- 309 448	95 515	- 14 976	1273	- 56	1
390 555	- 309 768	95 531	- 14 976	1273	- 56	1
390 267	- 309 736	95 531	- 14 976	1273	- 56	1
392 139	- 310 088	95 547	- 14 976	1273	- 56	1
391 851	- 310 056	95 547	- 14 976	1273	- 56	1
391 563	- 310 024	95 547	- 14 976	1273	- 56	1
393 723	- 310 408	95 563	- 14 976	1273	- 56	1
393 371	- 310 376	95 563	- 14 976	1273	- 56	1
393 435	- 310 376	95 563	- 14 976	1273	- 56	1
393 083	- 310 344	95 563	- 14 976	1273	- 56	1
395 307	- 310 728	95 579	- 14 976	1273	- 56	1
394 955	- 310 696	95 579	- 14 976	1273	- 56	1
395 019	- 310 696	95 579	- 14 976	1273	- 56	1
394 667	- 310 664	95 579	- 14 976	1273	- 56	1
396 891	- 311 048	95 595	- 14 976	1273	- 56	1
396 539	- 311 016	95 595	- 14 976	1273	- 56	1
396 603	- 311 016	95 595	- 14 976	1273	- 56	1
396 187	- 310 984	95 595	- 14 976	1273	- 56	1
398 475	- 311 368	95 611	- 14 976	1273	- 56	1
398 123	- 311 336	95 611	- 14 976	1273	- 56	1
397 771	- 311 304	95 611	- 14 976	1273	- 56	1
400 059	- 311 688	95 627	- 14 976	1273	- 56	1
399 707	- 311 656	95 627	- 14 976	1273	- 56	1
383 427	- 307 536	95 299	- 14 968	1273	- 56	1
385 011	- 307 856	95 315	- 14 968	1273	- 56	1
384 723	- 307 824	95 315	- 14 968	1273	- 56	1
386 595	- 308 176	95 331	- 14 968	1273	- 56	1
386 243	- 308 144	95 331	- 14 968	1273	- 56	1
386 307	- 308 144	95 331	- 14 968	1273	- 56	1
388 179	- 308 496	95 347	- 14 968	1273	- 56	1
387 827	- 308 464	95 347	- 14 968	1273	- 56	1
389 763	- 308 816	95 363	- 14 968	1273	- 56	1
389 411	- 308 784	95 363	- 14 968	1273	- 56	1
389 059	- 308 752	95 363	- 14 968	1273	- 56	1
391 347	- 309 136	95 379	- 14 968	1273	- 56	1
376 299	- 305 304	95 067	- 14 960	1273	- 56	1
377 883	- 305 624	95 083	- 14 960	1273	- 56	1
377 595	- 305 592	95 083	- 14 960	1273	- 56	1
379 467	- 305 944	95 099	- 14 960	1273	- 56	1
381 051	- 306 264	95 115	- 14 960	1273	- 56	1
380 699	- 306 232	95 115	- 14 960	1273	- 56	1

$$\begin{pmatrix} 382\,635 & -306\,584 & 95\,131 & -14\,960 & 1273 & -56 & 1 \\ 370\,755 & -303\,392 & 94\,851 & -14\,952 & 1273 & -56 & 1 \\ 372\,339 & -303\,712 & 94\,867 & -14\,952 & 1273 & -56 & 1 \\ 363\,627 & -301\,160 & 94\,619 & -14\,944 & 1273 & -56 & 1 \end{pmatrix}$$

Dimensions[A[4]]

{126, 7}

g[4] = CoefficientList[D[last14[[4]], x] / mu[last14[[4]]] // Factor, x]

{20 571 915, -15 587 928, 4 718 875, -734 960, 62 377, -2744, 49}

$$\begin{aligned} & \frac{113\,601}{174\,160} \text{Root}[1 - 9557 \#1 + 2\,231\,720 \#1^2 - 58\,917\,628 \#1^3 + 413\,853\,920 \#1^4 \\ & \frac{56\,801}{87\,080} \text{Root}[211 - 188\,711 \#1 + 12\,151\,996 \#1^2 - 250\,441\,504 \#1^3 + 1\,655\,415\,680 \#1^4 \\ & \frac{14\,209}{21\,770} \text{Root}[149 - 273\,939 \#1 + 17\,659\,574 \#1^2 - 228\,351\,552 \#1^3 + 827\,707\,840 \#1^4 \\ & \frac{16\,239}{24\,880} \text{Root}[29 - 20\,483 \#1 + 1\,900\,601 \#1^2 - 29\,467\,131 \#1^3 + 103\,463\,480 \#1^4 \\ & \frac{7104}{10\,885} \text{Root}[32 - 14\,265 \#1 + 679\,853 \#1^2 - 10\,579\,224 \#1^3 + 51\,731\,740 \#1^4 \\ & \frac{22\,733}{34\,832} \text{Root}[527 - 175\,327 \#1 + 8\,907\,272 \#1^2 - 141\,322\,464 \#1^3 + 662\,166\,272 \#1^4 \\ & \frac{8119}{12\,440} \text{Root}[173 - 52\,793 \#1 + 3\,868\,460 \#1^2 - 92\,019\,288 \#1^3 + 413\,853\,920 \#1^4 \\ & \frac{113\,657}{174\,160} \text{Root}[431 - 105\,463 \#1 + 5\,746\,392 \#1^2 - 117\,569\,112 \#1^3 + 827\,707\,840 \#1^4 \\ & \frac{56\,829}{87\,080} \text{Root}[433 - 121\,669 \#1 + 10\,120\,860 \#1^2 - 249\,909\,216 \#1^3 + 1\,655\,415\,680 \#1^4 \\ & \frac{2843}{4354} \text{Root}[43 - 8985 \#1 + 517\,806 \#1^2 - 8\,450\,072 \#1^3 + 41\,385\,392 \#1^4 \& \\ & \frac{113\,721}{174\,160} \text{Root}[1543 - 416\,391 \#1 + 33\,256\,168 \#1^2 - 705\,547\,744 \#1^3 + 3\,310\,831\,360 \#1^4 \\ & \frac{7107}{10\,885} \text{Root}[193 - 37\,492 \#1 + 2\,328\,563 \#1^2 - 54\,958\,736 \#1^3 + 413\,853\,920 \#1^4 \\ & \frac{113\,713}{174\,160} \text{Root}[271 - 47\,299 \#1 + 2\,663\,128 \#1^2 - 58\,651\,484 \#1^3 + 413\,853\,920 \#1^4 \\ & \frac{14\,221}{21\,770} \text{Root}[433 - 79\,583 \#1 + 4\,832\,422 \#1^2 - 109\,651\,328 \#1^3 + 827\,707\,840 \#1^4 \\ & \frac{113\,769}{174\,160} \text{Root}[71 - 28\,975 \#1 + 3\,203\,032 \#1^2 - 117\,036\,824 \#1^3 + 827\,707\,840 \#1^4 \\ & \frac{14\,227}{21\,770} \text{Root}[1 - 309 \#1 + 34\,015 \#1^2 - 1\,571\,913 \#1^3 + 25\,865\,870 \#1^4 \&, \\ & \frac{16\,159}{24\,880} \text{Root}[361 - 717\,953 \#1 + 22\,711\,264 \#1^2 - 238\,398\,488 \#1^3 + 827\,707\,840 \#1^4 \\ & \frac{8079}{12\,440} \text{Root}[61 - 19\,815 \#1 + 825\,277 \#1^2 - 11\,668\,751 \#1^3 + 51\,731\,740 \#1^4 \\ & \frac{16\,157}{24\,880} \text{Root}[43 - 28\,355 \#1 + 4\,149\,424 \#1^2 - 135\,001\,544 \#1^3 + 827\,707\,840 \#1^4 \\ & \frac{2021}{3110} \text{Root}[833 - 306\,747 \#1 + 8\,237\,330 \#1^2 - 72\,457\,704 \#1^3 + 206\,926\,960 \#1^4 \\ & \frac{7073}{10\,885} \text{Root}[1333 - 319\,656 \#1 + 10\,424\,195 \#1^2 - 115\,373\,424 \#1^3 + 413\,853\,920 \#1^4 \\ & \frac{16\,167}{24\,880} \text{Root}[502 - 99\,722 \#1 + 2\,886\,507 \#1^2 - 29\,766\,543 \#1^3 + 103\,463\,480 \#1^4 \\ & \frac{113\,161}{174\,160} \text{Root}[6583 - 1\,175\,519 \#1 + 49\,541\,416 \#1^2 - 716\,193\,504 \#1^3 + 3\,310\,831\,360 \#1^4 \\ & \frac{8083}{12\,440} \text{Root}[1091 - 174\,791 \#1 + 6\,843\,308 \#1^2 - 93\,216\,936 \#1^3 + 413\,853\,920 \#1^4 \\ & \frac{56\,577}{87\,080} \text{Root}[419 - 105\,727 \#1 + 8\,748\,284 \#1^2 - 254\,699\,808 \#1^3 + 1\,655\,415\,680 \#1^4 \\ & \frac{1011}{1555} \text{Root}[113 - 17\,220 \#1 + 492\,588 \#1^2 - 4\,524\,448 \#1^3 + 12\,932\,935 \#1^4 \\ & \frac{14\,153}{21\,770} \text{Root}[5857 - 765\,271 \#1 + 21\,824\,614 \#1^2 - 230\,480\,704 \#1^3 + 827\,707\,840 \#1^4 \\ & \frac{3235}{4976} \text{Root}[1165 - 145\,189 \#1 + 4\,353\,952 \#1^2 - 47\,573\,240 \#1^3 + 165\,541\,568 \#1^4 \\ & \frac{7076}{10\,885} \text{Root}[142 - 25\,105 \#1 + 1\,350\,827 \#1^2 - 21\,424\,592 \#1^3 + 103\,463\,480 \#1^4 \\ & \frac{113\,217}{174\,160} \text{Root}[12\,221 - 1\,502\,267 \#1 + 52\,051\,000 \#1^2 - 715\,120\,020 \#1^3 + 3\,310\,831\,360 \#1^4 \end{aligned}$$

anglesq[4] =

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174160 Root[13331 - 1392207 #1 + 55831880 #1^2 - 713128928 #1^3 + 33108313
8087 Root[227 - 33659 #1 + 1558214 #1^2 - 23270966 #1^3 + 103463480 #
12440 Root[85 - 29489 #1 + 2221260 #1^2 - 50833504 #1^3 + 331083136 #
11321 Root[1699 - 207293 #1 + 7099714 #1^2 - 72324632 #1^3 + 206926960 #
17416 Root[692 - 71539 #1 + 2109775 #1^2 - 23021456 #1^3 + 82770784 #1
2023 Root[1237 - 136229 #1 + 4686094 #1^2 - 59400014 #1^3 + 206926960 #
3110 Root[439 - 46185 #1 + 1559958 #1^2 - 21391324 #1^3 + 103463480 #
1416 Root[13687 - 1460863 #1 + 51349992 #1^2 - 714064352 #1^3 + 33108313
2177 Root[151 - 21767 #1 + 1122728 #1^2 - 23886424 #1^3 + 165541568 #
16183 Root[58 - 14085 #1 + 736531 #1^2 - 9032262 #1^3 + 25865870 #1^4
24880 Root[4919 - 532125 #1 + 18667798 #1^2 - 229948416 #1^3 + 827707846
14159 Root[2081 - 297145 #1 + 14015904 #1^2 - 237333912 #1^3 + 827707846
21770 Root[493 - 47112 #1 + 1556203 #1^2 - 21358056 #1^3 + 103463480 #
113273 Root[7363 - 951131 #1 + 42035752 #1^2 - 712999776 #1^3 + 331083136
174160 Root[49 - 15183 #1 + 982894 #1^2 - 22356096 #1^3 + 165541568 #1^4
22653 Root[197 - 48617 #1 + 2842496 #1^2 - 59582988 #1^3 + 413853920 #
34832 Root[227 - 128966 #1 + 7267379 #1^2 - 114841136 #1^3 + 413853920 #
1012 Root[283 - 33193 #1 + 1339562 #1^2 - 21324788 #1^3 + 103463480 #
1555 Root[43 - 46579 #1 + 5181832 #1^2 - 142387040 #1^3 + 662166272 #
14167 Root[502 - 61449 #1 + 2790627 #1^2 - 55757168 #1^3 + 413853920 #
21770 Root[283 - 65729 #1 + 4544950 #1^2 - 111248192 #1^3 + 827707840 #
16191 Root[43 - 27181 #1 + 1771292 #1^2 - 18280766 #1^3 + 51731740 #1^4
24880 Root[838 - 142635 #1 + 4064717 #1^2 - 36528264 #1^3 + 103463480 #
7083 Root[89 - 13331 #1 + 518073 #1^2 - 6013191 #1^3 + 20692696 #1^4
10885 Root[137 - 57189 #1 + 4689964 #1^2 - 94414584 #1^3 + 413853920 #
113329 Root[458 - 48334 #1 + 1093491 #1^2 - 9123749 #1^3 + 25865870 #1^4
174160 Root[151 - 32966 #1 + 1865471 #1^2 - 23287600 #1^3 + 82770784 #1
2833 Root[8653 - 857629 #1 + 23298288 #1^2 - 240261496 #1^3 + 827707846
4354 Root[307 - 36999 #1 + 1507086 #1^2 - 23570378 #1^3 + 103463480 #
113321 Root[2591 - 211772 #1 + 4470325 #1^2 - 36461728 #1^3 + 103463480 #
174160 Root[8389 - 767491 #1 + 21825510 #1^2 - 232609856 #1^3 + 827707846
2833 Root[2927 - 240675 #1 + 6042642 #1^2 - 59998838 #1^3 + 206926960 #
4354 Root[8771 - 1109283 #1 + 46510824 #1^2 - 723645536 #1^3 + 331083136
113321 Root[193 - 29709 #1 + 1303036 #1^2 - 18829688 #1^3 + 82770784 #1
174160 Root[283 - 20325 #1 + 435380 #1^2 - 3642846 #1^3 + 10346348 #1^4
2833 Root[6466 - 480909 #1 + 11646611 #1^2 - 116171856 #1^3 + 413853926
4354 Root[11309 - 890909 #1 + 23339760 #1^2 - 239729208 #1^3 + 82770784
113321 Root[3299 - 314547 #1 + 10557448 #1^2 - 144516192 #1^3 + 662166272
174160

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<u>34 832</u>	
<u>1008</u>	Root [2456 - 173 077 #1 + 4 024 389 #1 ² - 36 395 192 #1 ³ + 103 463 480 #1 ⁴ &
<u>1555</u>	
<u>14 111</u>	Root [13 627 - 955 097 #1 + 23 057 846 #1 ² - 232 077 568 #1 ³ + 827 707 84
<u>21 770</u>	
<u>16 127</u>	Root [947 - 85 589 #1 + 2 600 733 #1 ² - 29 932 883 #1 ³ + 103 463 480 #1 ⁴ &
<u>24 880</u>	
<u>1411</u>	Root [53 - 4822 #1 + 157 545 #1 ² - 2 162 420 #1 ³ + 10 346 348 #1 ⁴ &
<u>2177</u>	
<u>112 881</u>	Root [10 627 - 1 387 203 #1 + 52 251 304 #1 ² - 721 516 384 #1 ³ + 3 310 831 3
<u>174 160</u>	
<u>2017</u>	Root [392 - 31 640 #1 + 870 523 #1 ² - 9 090 481 #1 ³ + 25 865 870 #1 ⁴
<u>3110</u>	
<u>7059</u>	Root [5249 - 394 892 #1 + 10 559 691 #1 ² - 115 905 712 #1 ³ + 413 853 926
<u>10 885</u>	
<u>3227</u>	Root [433 - 77 313 #1 + 3 313 776 #1 ² - 47 839 384 #1 ³ + 165 541 568 #1 ⁴ &
<u>4976</u>	
<u>14 117</u>	Root [1237 - 105 691 #1 + 3 266 262 #1 ² - 43 181 864 #1 ³ + 206 926 960 #1 ⁴ &
<u>21 770</u>	
<u>1009</u>	Root [457 - 69 006 #1 + 2 726 909 #1 ² - 36 328 656 #1 ³ + 103 463 480 #1 ⁴ &
<u>1555</u>	
<u>2825</u>	Root [1021 - 101 667 #1 + 3 495 566 #1 ² - 46 309 056 #1 ³ + 165 541 568 #1 ⁴ &
<u>4354</u>	
<u>7062</u>	Root [162 - 19 737 #1 + 738 963 #1 ² - 10 778 832 #1 ³ + 51 731 740 #1 ⁴ &
<u>10 885</u>	
<u>14 123</u>	Root [71 - 65 301 #1 + 4 852 006 #1 ² - 113 377 344 #1 ³ + 827 707 840 #1 ⁴ &
<u>21 770</u>	
<u>7066</u>	Root [272 - 76 603 #1 + 6 066 595 #1 ² - 115 639 568 #1 ³ + 413 853 920 #1 ⁴ &
<u>10 885</u>	
<u>1002</u>	Root [8 - 6737 #1 + 440 647 #1 ² - 4 599 301 #1 ³ + 12 932 935 #1 ⁴ &
<u>1555</u>	
<u>401</u>	Root [725 - 62 167 #1 + 1 643 498 #1 ² - 14 704 456 #1 ³ + 41 385 392 #1 ⁴ &
<u>622</u>	
<u>16 039</u>	Root [853 - 120 973 #1 + 4 835 094 #1 ² - 60 597 662 #1 ³ + 206 926 960 #1 ⁴ &
<u>24 880</u>	
<u>1003</u>	Root [823 - 54 054 #1 + 1 119 857 #1 ² - 9 181 968 #1 ³ + 25 865 870 #1 ⁴ &
<u>1555</u>	
<u>16 047</u>	Root [10 729 - 832 369 #1 + 22 407 232 #1 ² - 242 124 504 #1 ³ + 827 707 84
<u>24 880</u>	
<u>8023</u>	Root [31 - 9205 #1 + 589 429 #1 ² - 11 901 627 #1 ³ + 51 731 740 #1 ⁴ &
<u>12 440</u>	
<u>2007</u>	Root [8291 - 483 197 #1 + 9 274 450 #1 ² - 73 389 208 #1 ³ + 206 926 960 #1 ⁴ &
<u>3110</u>	
<u>7024</u>	Root [4352 - 371 939 #1 + 10 662 275 #1 ² - 117 236 432 #1 ³ + 413 853 926
<u>10 885</u>	
<u>3211</u>	Root [320 - 23 408 #1 + 594 275 #1 ² - 6 046 459 #1 ³ + 20 692 696 #1 ⁴ &
<u>4976</u>	
<u>112 377</u>	Root [1327 - 584 967 #1 + 37 567 912 #1 ² - 731 097 568 #1 ³ + 3 310 831 36
<u>174 160</u>	
<u>1004</u>	Root [526 - 29 609 #1 + 572 767 #1 ² - 4 582 667 #1 ³ + 12 932 935 #1 ⁴ &
<u>1555</u>	
<u>2811</u>	Root [2971 - 196 041 #1 + 4 656 750 #1 ² - 46 841 344 #1 ³ + 165 541 568 #1 ⁴ &
<u>4354</u>	
<u>16 063</u>	Root [9169 - 838 201 #1 + 23 431 680 #1 ² - 241 592 216 #1 ³ + 827 707 846
<u>24 880</u>	
<u>112 433</u>	Root [4651 - 989 651 #1 + 45 810 280 #1 ² - 730 032 992 #1 ³ + 3 310 831 36
<u>174 160</u>	
<u>2009</u>	Root [7013 - 414 687 #1 + 8 628 322 #1 ² - 73 256 136 #1 ³ + 206 926 960 #1 ⁴ &
<u>3110</u>	
<u>7031</u>	Root [7399 - 495 138 #1 + 11 769 931 #1 ² - 116 970 288 #1 ³ + 413 853 926
<u>10 885</u>	
<u>16 071</u>	Root [229 - 145 117 #1 + 5 347 318 #1 ² - 60 331 518 #1 ³ + 206 926 960 #1 ⁴ &
<u>24 880</u>	
<u>14 061</u>	Root [277 - 34 287 #1 + 1 406 182 #1 ² - 21 857 076 #1 ³ + 103 463 480 #1 ⁴ &
<u>21 770</u>	
<u>201</u>	Root [113 - 7916 #1 + 191 665 #1 ² - 1 829 740 #1 ³ + 5 173 174 #1 ⁴ &
<u>311</u>	
<u>14 069</u>	Root [9517 - 816 547 #1 + 22 092 886 #1 ² - 233 674 432 #1 ³ + 827 707 846
<u>21 770</u>	
<u>7034</u>	Root [232 - 39 315 #1 + 1 525 299 #1 ² - 21 823 808 #1 ³ + 103 463 480 #1 ⁴ &
<u>10 885</u>	
<u>2011</u>	Root [1759 - 190 217 #1 + 6 279 106 #1 ² - 73 123 064 #1 ³ + 206 926 960 #1 ⁴ &
<u>3110</u>	
<u>7038</u>	Root [766 - 250 737 #1 + 9 471 411 #1 ² - 116 704 144 #1 ³ + 413 853 920 #1 ⁴ &
<u>10 885</u>	

$\frac{999}{1555}$	$\text{Root}\left[1627 - 145\,872\,x + 3\,968\,013\,x^2 - 36\,994\,016\,x^3 + 103\,463\,480\,x^4\right]$
$\frac{1999}{3110}$	$\text{Root}\left[908 - 53\,368\,x + 1\,100\,033\,x^2 - 9\,240\,187\,x^3 + 25\,865\,870\,x^4\right]$
$\frac{15991}{24880}$	$\text{Root}\left[7069 - 639\,389\,x + 20\,038\,096\,x^2 - 243\,987\,512\,x^3 + 827\,707\,840\,x^4\right]$
$\frac{200}{311}$	$\text{Root}\left[908 - 48\,501\,x + 923\,873\,x^2 - 7\,385\,496\,x^3 + 20\,692\,696\,x^4\right]$
$\frac{13999}{21770}$	$\text{Root}\left[4283 - 565\,689\,x + 19\,345\,510\,x^2 - 236\,335\,872\,x^3 + 827\,707\,840\,x^4\right]$
$\frac{15999}{24880}$	$\text{Root}\left[1559 - 178\,963\,x + 5\,473\,338\,x^2 - 60\,930\,342\,x^3 + 206\,926\,960\,x^4\right]$
$\frac{2001}{3110}$	$\text{Root}\left[2153 - 119\,139\,x + 2\,312\,856\,x^2 - 18\,447\,106\,x^3 + 51\,731\,740\,x^4\right]$
$\frac{7003}{10885}$	$\text{Root}\left[5381 - 408\,824\,x + 10\,898\,099\,x^2 - 118\,034\,864\,x^3 + 413\,853\,920\,x^4\right]$
$\frac{1001}{1555}$	$\text{Root}\left[3077 - 206\,098\,x + 4\,419\,173\,x^2 - 36\,860\,944\,x^3 + 103\,463\,480\,x^4\right]$
$\frac{14013}{21770}$	$\text{Root}\left[8033 - 818\,143\,x + 22\,543\,798\,x^2 - 235\,803\,584\,x^3 + 827\,707\,840\,x^4\right]$
$\frac{7006}{10885}$	$\text{Root}\left[2 - 2019\,x + 526\,077\,x^2 - 11\,044\,976\,x^3 + 51\,731\,740\,x^4\right]$
$\frac{2003}{3110}$	$\text{Root}\left[298 - 37\,818\,x + 999\,937\,x^2 - 9\,206\,919\,x^3 + 25\,865\,870\,x^4\right]$
$\frac{1991}{3110}$	$\text{Root}\left[1019 - 227\,301\,x + 7\,285\,042\,x^2 - 74\,453\,784\,x^3 + 206\,926\,960\,x^4\right]$
$\frac{996}{1555}$	$\text{Root}\left[722 - 46\,189\,x + 1\,034\,019\,x^2 - 9\,298\,406\,x^3 + 25\,865\,870\,x^4\right]$
$\frac{3187}{4976}$	$\text{Root}\left[245 - 55\,181\,x + 3\,238\,176\,x^2 - 49\,170\,104\,x^3 + 165\,541\,568\,x^4\right]$
$\frac{1993}{3110}$	$\text{Root}\left[7237 - 428\,287\,x + 8\,833\,490\,x^2 - 74\,320\,712\,x^3 + 206\,926\,960\,x^4\right]$
$\frac{997}{1555}$	$\text{Root}\left[347 - 25\,890\,x + 560\,566\,x^2 - 4\,640\,886\,x^3 + 12\,932\,935\,x^4\right]$
$\frac{13957}{21770}$	$\text{Root}\left[2861 - 471\,363\,x + 18\,830\,566\,x^2 - 237\,932\,736\,x^3 + 827\,707\,840\,x^4\right]$
$\frac{399}{622}$	$\text{Root}\left[251 - 67\,597\,x + 1\,735\,770\,x^2 - 14\,837\,528\,x^3 + 41\,385\,392\,x^4\right]$
$\frac{397}{622}$	$\text{Root}\left[74 - 6486\,x + 184\,363\,x^2 - 1\,871\,325\,x^3 + 5\,173\,174\,x^4\right]$
$\frac{993}{1555}$	$\text{Root}\left[1609 - 156\,166\,x + 4\,029\,365\,x^2 - 37\,393\,232\,x^3 + 103\,463\,480\,x^4\right]$
$\frac{989}{1555}$	$\text{Root}\left[53 - 12\,004\,x + 763\,421\,x^2 - 9\,414\,844\,x^3 + 25\,865\,870\,x^4\right]$

Dimensions[anglesq[4]]

{126, 7}

last14[[4]]

$$(-11 + x) (-9 + x)^{12} (5 + x)^{32} (9140 - 3919 x + 611 x^2 - 41 x^3 + x^4)$$

poly4warranted = list[4][[16]] * mu[last14[[4]]] // Factor

$$(-11 + x) (-9 + x)^{11} (5 + x)^{31} (-38\,329 + 25\,477 x - 6442 x^2 + 778 x^3 - 45 x^4 + x^5)$$

last14[[5]]

$$(-9 + x)^{12} (5 + x)^{32} (-100\,508 + 52\,249 x - 10\,640 x^2 + 1062 x^3 - 52 x^4 + x^5)$$

$$\text{list}[5] = \left\{ (-9 + x) (-47\,251 + 30\,317 x - 7358 x^2 + 850 x^3 - 47 x^4 + x^5), \right. \\ \left. 426\,779 - 320\,424 x + 96\,555 x^2 - 15\,008 x^3 + 1273 x^4 - 56 x^5 + x^6, \right.$$

$$\begin{aligned}
& (-9+x) (-46139+30125x-7350x^2+850x^3-47x^4+x^5), \\
& (-9+x)^2 (109-22x+x^2) (47-16x+x^2), \\
& (-9+x) (-46379+30141x-7350x^2+850x^3-47x^4+x^5), \\
& 417059-317616x+96291x^2-15000x^3+1273x^4-56x^5+x^6, \\
& (-9+x) (-7+x) (6621-3360x+570x^2-40x^3+x^4), \\
& 416771-317584x+96291x^2-15000x^3+1273x^4-56x^5+x^6, \\
& (-9+x) (-46315+30141x-7350x^2+850x^3-47x^4+x^5), \\
& (-9+x) (-46283+30141x-7350x^2+850x^3-47x^4+x^5), \\
& (-9+x) (-46587+30157x-7350x^2+850x^3-47x^4+x^5), \\
& 418931-317968x+96307x^2-15000x^3+1273x^4-56x^5+x^6, \\
& (-9+x) (-46555+30157x-7350x^2+850x^3-47x^4+x^5), \\
& 418643-317936x+96307x^2-15000x^3+1273x^4-56x^5+x^6, \\
& (-9+x) (-46523+30157x-7350x^2+850x^3-47x^4+x^5), \\
& (-7+x) (-59765+36877x-8490x^2+930x^3-49x^4+x^5), \\
& (-9+x) (-46491+30157x-7350x^2+850x^3-47x^4+x^5), \\
& 418067-317872x+96307x^2-15000x^3+1273x^4-56x^5+x^6, \\
& 420515-318288x+96323x^2-15000x^3+1273x^4-56x^5+x^6, \\
& 420227-318256x+96323x^2-15000x^3+1273x^4-56x^5+x^6, \\
& (-9+x) (41-14x+x^2) (-1139+347x-33x^2+x^3), \\
& 419939-318224x+96323x^2-15000x^3+1273x^4-56x^5+x^6, \\
& 421459-318544x+96339x^2-15000x^3+1273x^4-56x^5+x^6, \\
& (-9+x)^2 (5003-2770x+508x^2-38x^3+x^4), \\
& 407339-314808x+96027x^2-14992x^3+1273x^4-56x^5+x^6, \\
& (-9+x) (-45267+29949x-7342x^2+850x^3-47x^4+x^5), \\
& (-9+x) (109-22x+x^2) (-415+191x-25x^2+x^3), \\
& (-9+x) (-45203+29949x-7342x^2+850x^3-47x^4+x^5), \\
& (-9+x)^2 (5019-2770x+508x^2-38x^3+x^4), \\
& (-9+x) (-45475+29965x-7342x^2+850x^3-47x^4+x^5), \\
& (-9+x) (-45443+29965x-7342x^2+850x^3-47x^4+x^5), \\
& 408635-315096x+96043x^2-14992x^3+1273x^4-56x^5+x^6, \\
& (-9+x) (-45411+29965x-7342x^2+850x^3-47x^4+x^5), \\
& (-9+x) (-45379+29965x-7342x^2+850x^3-47x^4+x^5), \\
& (-9+x) (-45347+29965x-7342x^2+850x^3-47x^4+x^5), \\
& (-9+x) (-45651+29981x-7342x^2+850x^3-47x^4+x^5), \\
& (-9+x) (-7+x) (6517-3352x+570x^2-40x^3+x^4), \\
& 410219-315416x+96059x^2-14992x^3+1273x^4-56x^5+x^6, \\
& (-9+x) (-45587+29981x-7342x^2+850x^3-47x^4+x^5), \\
& 409931-315384x+96059x^2-14992x^3+1273x^4-56x^5+x^6, \\
& (-9+x) (-45555+29981x-7342x^2+850x^3-47x^4+x^5), \\
& (-9+x) (-45523+29981x-7342x^2+850x^3-47x^4+x^5), \\
& (-9+x) (-45795+29997x-7342x^2+850x^3-47x^4+x^5), \\
& (-7+x) (-58829+36701x-8482x^2+930x^3-49x^4+x^5), \\
& (-9+x) (-45763+29997x-7342x^2+850x^3-47x^4+x^5), \\
& 411515-315704x+96075x^2-14992x^3+1273x^4-56x^5+x^6,
\end{aligned}$$

$$\begin{aligned}
& (-9+x)(-7+x)(139-24x+x^2)(47-16x+x^2), \\
& 411\,227 - 315\,672x + 96\,075x^2 - 14\,992x^3 + 1273x^4 - 56x^5 + x^6, \\
& (-9+x)(-45\,971 + 30\,013x - 7342x^2 + 850x^3 - 47x^4 + x^5), \\
& (-9+x)(-45\,939 + 30\,013x - 7342x^2 + 850x^3 - 47x^4 + x^5), \\
& 413\,099 - 316\,024x + 96\,091x^2 - 14\,992x^3 + 1273x^4 - 56x^5 + x^6, \\
& (-9+x)(-46\,115 + 30\,029x - 7342x^2 + 850x^3 - 47x^4 + x^5), \\
& (-11+x)(-9+x)(4017 - 2340x + 454x^2 - 36x^3 + x^4), \\
& (-9+x)(-44\,155 + 29\,757x - 7334x^2 + 850x^3 - 47x^4 + x^5), \\
& (-9+x)(-44\,123 + 29\,757x - 7334x^2 + 850x^3 - 47x^4 + x^5), \\
& (-9+x)^2(4899 - 2762x + 508x^2 - 38x^3 + x^4), \\
& (-9+x)(-44\,331 + 29\,773x - 7334x^2 + 850x^3 - 47x^4 + x^5), \\
& (-9+x)(-44\,299 + 29\,773x - 7334x^2 + 850x^3 - 47x^4 + x^5), \\
& (-9+x)(-44\,267 + 29\,773x - 7334x^2 + 850x^3 - 47x^4 + x^5), \\
& (-9+x)^2(4915 - 2762x + 508x^2 - 38x^3 + x^4), \\
& (-9+x)(-44\,507 + 29\,789x - 7334x^2 + 850x^3 - 47x^4 + x^5), \\
& (-9+x)(-44\,475 + 29\,789x - 7334x^2 + 850x^3 - 47x^4 + x^5), \\
& (-9+x)(-44\,443 + 29\,789x - 7334x^2 + 850x^3 - 47x^4 + x^5), \\
& (-9+x)(-44\,411 + 29\,789x - 7334x^2 + 850x^3 - 47x^4 + x^5), \\
& (-9+x)^2(4931 - 2762x + 508x^2 - 38x^3 + x^4), \\
& (-9+x)(-44\,683 + 29\,805x - 7334x^2 + 850x^3 - 47x^4 + x^5), \\
& (-9+x)(-44\,651 + 29\,805x - 7334x^2 + 850x^3 - 47x^4 + x^5), \\
& 401\,507 - 312\,864x + 95\,811x^2 - 14\,984x^3 + 1273x^4 - 56x^5 + x^6, \\
& (-9+x)(139 - 24x + x^2)(-321 + 159x - 23x^2 + x^3), \\
& (-9+x)(-44\,587 + 29\,805x - 7334x^2 + 850x^3 - 47x^4 + x^5), \\
& (-9+x)(-44\,827 + 29\,821x - 7334x^2 + 850x^3 - 47x^4 + x^5), \\
& 403\,091 - 313\,184x + 95\,827x^2 - 14\,984x^3 + 1273x^4 - 56x^5 + x^6, \\
& (-9+x)(-44\,795 + 29\,821x - 7334x^2 + 850x^3 - 47x^4 + x^5), \\
& 402\,803 - 313\,152x + 95\,827x^2 - 14\,984x^3 + 1273x^4 - 56x^5 + x^6, \\
& (-9+x)(-44\,763 + 29\,821x - 7334x^2 + 850x^3 - 47x^4 + x^5), \\
& (-9+x)(-7+x)(6429 - 3344x + 570x^2 - 40x^3 + x^4), \\
& (-9+x)(-44\,971 + 29\,837x - 7334x^2 + 850x^3 - 47x^4 + x^5), \\
& 404\,387 - 313\,472x + 95\,843x^2 - 14\,984x^3 + 1273x^4 - 56x^5 + x^6, \\
& (-9+x)(-45\,179 + 29\,853x - 7334x^2 + 850x^3 - 47x^4 + x^5), \\
& (-11+x)(-9+x)(3913 - 2332x + 454x^2 - 36x^3 + x^4), \\
& (-11+x)(-9+x)(3929 - 2332x + 454x^2 - 36x^3 + x^4), \\
& (-9+x)(-43\,187 + 29\,581x - 7326x^2 + 850x^3 - 47x^4 + x^5), \\
& (-9+x)(-43\,363 + 29\,597x - 7326x^2 + 850x^3 - 47x^4 + x^5), \\
& (-9+x)(-43\,331 + 29\,597x - 7326x^2 + 850x^3 - 47x^4 + x^5), \\
& (-9+x)(-43\,539 + 29\,613x - 7326x^2 + 850x^3 - 47x^4 + x^5), \\
& (-9+x)(139 - 24x + x^2)(-313 + 159x - 23x^2 + x^3), \\
& (-9+x)(-43\,475 + 29\,613x - 7326x^2 + 850x^3 - 47x^4 + x^5), \\
& (-9+x)(-43\,715 + 29\,629x - 7326x^2 + 850x^3 - 47x^4 + x^5), \\
& (-9+x)(-43\,683 + 29\,629x - 7326x^2 + 850x^3 - 47x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-9+x) (-43\,651 + 29\,629\,x - 7326\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-43\,619 + 29\,629\,x - 7326\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-43\,859 + 29\,645\,x - 7326\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-43\,827 + 29\,645\,x - 7326\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-44\,035 + 29\,661\,x - 7326\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& 395\,963 - 310\,952\,x + 95\,595\,x^2 - 14\,976\,x^3 + 1273\,x^4 - 56\,x^5 + x^6, \\
& (-9+x) (-44\,003 + 29\,661\,x - 7326\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-44\,211 + 29\,677\,x - 7326\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-11+x) (-9+x) (3857 - 2324\,x + 454\,x^2 - 36\,x^3 + x^4), \\
& (-9+x) (139 - 24\,x + x^2) (-305 + 159\,x - 23\,x^2 + x^3), \\
& (-9+x) (-42\,571 + 29\,437\,x - 7318\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-42\,539 + 29\,437\,x - 7318\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-42\,747 + 29\,453\,x - 7318\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-42\,715 + 29\,453\,x - 7318\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-42\,683 + 29\,453\,x - 7318\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-42\,923 + 29\,469\,x - 7318\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-42\,891 + 29\,469\,x - 7318\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-42\,859 + 29\,469\,x - 7318\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-43\,067 + 29\,485\,x - 7318\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-43\,243 + 29\,501\,x - 7318\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-41\,779 + 29\,277\,x - 7310\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-41\,747 + 29\,277\,x - 7310\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-41\,955 + 29\,293\,x - 7310\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (113 - 22\,x + x^2) (-371 + 187\,x - 25\,x^2 + x^3), \\
& (-9+x) (-41\,891 + 29\,293\,x - 7310\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-42\,099 + 29\,309\,x - 7310\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-40\,987 + 29\,117\,x - 7302\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-41\,131 + 29\,133\,x - 7302\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-40\,195 + 28\,957\,x - 7294\,x^2 + 850\,x^3 - 47\,x^4 + x^5) \};
\end{aligned}$$

$$\begin{pmatrix}
425\,259 & -320\,104 & 96\,539 & -15\,008 & 1273 & -56 & 1 \\
426\,779 & -320\,424 & 96\,555 & -15\,008 & 1273 & -56 & 1 \\
415\,251 & -317\,264 & 96\,275 & -15\,000 & 1273 & -56 & 1 \\
414\,963 & -317\,232 & 96\,275 & -15\,000 & 1273 & -56 & 1 \\
417\,411 & -317\,648 & 96\,291 & -15\,000 & 1273 & -56 & 1 \\
417\,059 & -317\,616 & 96\,291 & -15\,000 & 1273 & -56 & 1 \\
417\,123 & -317\,616 & 96\,291 & -15\,000 & 1273 & -56 & 1 \\
416\,771 & -317\,584 & 96\,291 & -15\,000 & 1273 & -56 & 1 \\
416\,835 & -317\,584 & 96\,291 & -15\,000 & 1273 & -56 & 1 \\
416\,547 & -317\,552 & 96\,291 & -15\,000 & 1273 & -56 & 1 \\
419\,283 & -318\,000 & 96\,307 & -15\,000 & 1273 & -56 & 1 \\
418\,931 & -317\,968 & 96\,307 & -15\,000 & 1273 & -56 & 1 \\
418\,995 & -317\,968 & 96\,307 & -15\,000 & 1273 & -56 & 1 \\
418\,643 & -317\,936 & 96\,307 & -15\,000 & 1273 & -56 & 1 \\
418\,707 & -317\,936 & 96\,307 & -15\,000 & 1273 & -56 & 1 \\
418\,355 & -317\,904 & 96\,307 & -15\,000 & 1273 & -56 & 1 \\
418\,419 & -317\,904 & 96\,307 & -15\,000 & 1273 & -56 & 1
\end{pmatrix}$$

A[5] =

418 067	-317 872	96 307	-15 000	1273	-56	1
420 515	-318 288	96 323	-15 000	1273	-56	1
420 227	-318 256	96 323	-15 000	1273	-56	1
420 291	-318 256	96 323	-15 000	1273	-56	1
419 939	-318 224	96 323	-15 000	1273	-56	1
421 459	-318 544	96 339	-15 000	1273	-56	1
405 243	-314 424	96 011	-14 992	1273	-56	1
407 339	-314 808	96 027	-14 992	1273	-56	1
407 403	-314 808	96 027	-14 992	1273	-56	1
407 115	-314 776	96 027	-14 992	1273	-56	1
406 827	-314 744	96 027	-14 992	1273	-56	1
406 539	-314 712	96 027	-14 992	1273	-56	1
409 275	-315 160	96 043	-14 992	1273	-56	1
408 987	-315 128	96 043	-14 992	1273	-56	1
408 635	-315 096	96 043	-14 992	1273	-56	1
408 699	-315 096	96 043	-14 992	1273	-56	1
408 411	-315 064	96 043	-14 992	1273	-56	1
408 123	-315 032	96 043	-14 992	1273	-56	1
410 859	-315 480	96 059	-14 992	1273	-56	1
410 571	-315 448	96 059	-14 992	1273	-56	1
410 219	-315 416	96 059	-14 992	1273	-56	1
410 283	-315 416	96 059	-14 992	1273	-56	1
409 931	-315 384	96 059	-14 992	1273	-56	1
409 995	-315 384	96 059	-14 992	1273	-56	1
409 707	-315 352	96 059	-14 992	1273	-56	1
412 155	-315 768	96 075	-14 992	1273	-56	1
411 803	-315 736	96 075	-14 992	1273	-56	1
411 867	-315 736	96 075	-14 992	1273	-56	1
411 515	-315 704	96 075	-14 992	1273	-56	1
411 579	-315 704	96 075	-14 992	1273	-56	1
411 227	-315 672	96 075	-14 992	1273	-56	1
413 739	-316 088	96 091	-14 992	1273	-56	1
413 451	-316 056	96 091	-14 992	1273	-56	1
413 099	-316 024	96 091	-14 992	1273	-56	1
415 035	-316 376	96 107	-14 992	1273	-56	1
397 683	-312 000	95 763	-14 984	1273	-56	1
397 395	-311 968	95 763	-14 984	1273	-56	1
397 107	-311 936	95 763	-14 984	1273	-56	1
396 819	-311 904	95 763	-14 984	1273	-56	1
398 979	-312 288	95 779	-14 984	1273	-56	1
398 691	-312 256	95 779	-14 984	1273	-56	1
398 403	-312 224	95 779	-14 984	1273	-56	1
398 115	-312 192	95 779	-14 984	1273	-56	1
400 563	-312 608	95 795	-14 984	1273	-56	1
400 275	-312 576	95 795	-14 984	1273	-56	1
399 987	-312 544	95 795	-14 984	1273	-56	1
399 699	-312 512	95 795	-14 984	1273	-56	1
399 411	-312 480	95 795	-14 984	1273	-56	1
402 147	-312 928	95 811	-14 984	1273	-56	1
401 859	-312 896	95 811	-14 984	1273	-56	1
401 507	-312 864	95 811	-14 984	1273	-56	1
401 571	-312 864	95 811	-14 984	1273	-56	1
401 283	-312 832	95 811	-14 984	1273	-56	1
403 443	-313 216	95 827	-14 984	1273	-56	1
403 091	-313 184	95 827	-14 984	1273	-56	1

;

```

403 155 -313 184 95 827 -14 984 1273 -56 1
402 803 -313 152 95 827 -14 984 1273 -56 1
402 867 -313 152 95 827 -14 984 1273 -56 1
405 027 -313 536 95 843 -14 984 1273 -56 1
404 739 -313 504 95 843 -14 984 1273 -56 1
404 387 -313 472 95 843 -14 984 1273 -56 1
406 611 -313 856 95 859 -14 984 1273 -56 1
387 387 -309 128 95 499 -14 976 1273 -56 1
388 971 -309 448 95 515 -14 976 1273 -56 1
388 683 -309 416 95 515 -14 976 1273 -56 1
390 267 -309 736 95 531 -14 976 1273 -56 1
389 979 -309 704 95 531 -14 976 1273 -56 1
391 851 -310 056 95 547 -14 976 1273 -56 1
391 563 -310 024 95 547 -14 976 1273 -56 1
391 275 -309 992 95 547 -14 976 1273 -56 1
393 435 -310 376 95 563 -14 976 1273 -56 1
393 147 -310 344 95 563 -14 976 1273 -56 1
392 859 -310 312 95 563 -14 976 1273 -56 1
392 571 -310 280 95 563 -14 976 1273 -56 1
394 731 -310 664 95 579 -14 976 1273 -56 1
394 443 -310 632 95 579 -14 976 1273 -56 1
396 315 -310 984 95 595 -14 976 1273 -56 1
395 963 -310 952 95 595 -14 976 1273 -56 1
396 027 -310 952 95 595 -14 976 1273 -56 1
397 899 -311 304 95 611 -14 976 1273 -56 1
381 843 -307 216 95 283 -14 968 1273 -56 1
381 555 -307 184 95 283 -14 968 1273 -56 1
383 139 -307 504 95 299 -14 968 1273 -56 1
382 851 -307 472 95 299 -14 968 1273 -56 1
384 723 -307 824 95 315 -14 968 1273 -56 1
384 435 -307 792 95 315 -14 968 1273 -56 1
384 147 -307 760 95 315 -14 968 1273 -56 1
386 307 -308 144 95 331 -14 968 1273 -56 1
386 019 -308 112 95 331 -14 968 1273 -56 1
385 731 -308 080 95 331 -14 968 1273 -56 1
387 603 -308 432 95 347 -14 968 1273 -56 1
389 187 -308 752 95 363 -14 968 1273 -56 1
376 011 -305 272 95 067 -14 960 1273 -56 1
375 723 -305 240 95 067 -14 960 1273 -56 1
377 595 -305 592 95 083 -14 960 1273 -56 1
377 307 -305 560 95 083 -14 960 1273 -56 1
377 019 -305 528 95 083 -14 960 1273 -56 1
378 891 -305 880 95 099 -14 960 1273 -56 1
368 883 -303 040 94 835 -14 952 1273 -56 1
370 179 -303 328 94 851 -14 952 1273 -56 1
361 755 -300 808 94 603 -14 944 1273 -56 1

```

```
Dimensions[A[5]]
```

```
{118, 7}
```

```
g[5] = CoefficientList[D[last14[[5]], x] / mu[last14[[5]] // Factor, x]
```

```
{20 564 619, -15 586 520, 4 718 875, -734 960, 62 377, -2744, 49}
```

last14[[5]]

$$(-9 + x)^{12} (5 + x)^{32} (-100\,508 + 52\,249 x - 10\,640 x^2 + 1062 x^3 - 52 x^4 + x^5)$$

poly5warranted = list[5][[23]] * mu[last14[[5]]] // Factor

$$(-9 + x)^{11} (5 + x)^{31} (421\,459 - 318\,544 x + 96\,339 x^2 - 15\,000 x^3 + 1273 x^4 - 56 x^5 + x^6)$$

last14[[6]]

$$(-11 + x)^2 (-9 + x)^{11} (-7 + x)^2 (5 + x)^{32} (152 - 25 x + x^2)$$

list[6] = {
 (-11 + x) (-7 + x) (-651 + 255 x - 29 x^2 + x^3),
 (-11 + x) (-9 + x) (-493 + 215 x - 27 x^2 + x^3), -49 015 + 31 161 x - 7466 x^2 +
 854 x^3 - 47 x^4 + x^5, (-11 + x) (4453 - 2428 x + 458 x^2 - 36 x^3 + x^4),
 (-11 + x) (109 - 22 x + x^2) (41 - 14 x + x^2), (-11 + x) (4485 - 2428 x + 458 x^2 - 36 x^3 + x^4),
 (-11 + x) (-7 + x) (-643 + 255 x - 29 x^2 + x^3), (-9 + x)^2 (-591 + 251 x - 29 x^2 + x^3),
 -48 047 + 30 985 x - 7458 x^2 + 854 x^3 - 47 x^4 + x^5, (-11 + x) (-9 + x)
 (-485 + 215 x - 27 x^2 + x^3), (-11 + x) (4381 - 2420 x + 458 x^2 - 36 x^3 + x^4),
 (-11 + x) (4397 - 2420 x + 458 x^2 - 36 x^3 + x^4), (-11 + x)
 (4413 - 2420 x + 458 x^2 - 36 x^3 + x^4), (-11 + x) (4429 - 2420 x + 458 x^2 - 36 x^3 + x^4),
 (-9 + x) (5231 - 2842 x + 512 x^2 - 38 x^3 + x^4), (-11 + x) (-9 + x)^2 (53 - 18 x + x^2),
 (-11 + x) (139 - 24 x + x^2) (31 - 12 x + x^2), (-11 + x) (4325 - 2412 x + 458 x^2 - 36 x^3 + x^4),
 (-11 + x) (4341 - 2412 x + 458 x^2 - 36 x^3 + x^4),
 (-9 + x) (139 - 24 x + x^2) (37 - 14 x + x^2), (-11 + x) (-9 + x) (-469 + 215 x - 27 x^2 + x^3),
 (-11 + x) (4237 - 2404 x + 458 x^2 - 36 x^3 + x^4),
 (-11 + x) (4253 - 2404 x + 458 x^2 - 36 x^3 + x^4), (-11 + x) (-9 + x)
 (-461 + 215 x - 27 x^2 + x^3), (-11 + x) (4165 - 2396 x + 458 x^2 - 36 x^3 + x^4),
 (-11 + x) (-9 + x) (-453 + 215 x - 27 x^2 + x^3), (-11 + x)
 (4093 - 2388 x + 458 x^2 - 36 x^3 + x^4), (-11 + x) (-9 + x) (-445 + 215 x - 27 x^2 + x^3)};

```

A[6] = 
$$\begin{pmatrix} -50127 & 31353 & -7474 & 854 & -47 & 1 \\ -48807 & 31145 & -7466 & 854 & -47 & 1 \\ -49015 & 31161 & -7466 & 854 & -47 & 1 \\ -48983 & 31161 & -7466 & 854 & -47 & 1 \\ -49159 & 31177 & -7466 & 854 & -47 & 1 \\ -49335 & 31193 & -7466 & 854 & -47 & 1 \\ -49511 & 31209 & -7466 & 854 & -47 & 1 \\ -47871 & 30969 & -7458 & 854 & -47 & 1 \\ -48047 & 30985 & -7458 & 854 & -47 & 1 \\ -48015 & 30985 & -7458 & 854 & -47 & 1 \\ -48191 & 31001 & -7458 & 854 & -47 & 1 \\ -48367 & 31017 & -7458 & 854 & -47 & 1 \\ -48543 & 31033 & -7458 & 854 & -47 & 1 \\ -48719 & 31049 & -7458 & 854 & -47 & 1 \\ -47079 & 30809 & -7450 & 854 & -47 & 1 \\ -47223 & 30825 & -7450 & 854 & -47 & 1 \\ -47399 & 30841 & -7450 & 854 & -47 & 1 \\ -47575 & 30857 & -7450 & 854 & -47 & 1 \\ -47751 & 30873 & -7450 & 854 & -47 & 1 \\ -46287 & 30649 & -7442 & 854 & -47 & 1 \\ -46431 & 30665 & -7442 & 854 & -47 & 1 \\ -46607 & 30681 & -7442 & 854 & -47 & 1 \\ -46783 & 30697 & -7442 & 854 & -47 & 1 \\ -45639 & 30505 & -7434 & 854 & -47 & 1 \\ -45815 & 30521 & -7434 & 854 & -47 & 1 \\ -44847 & 30345 & -7426 & 854 & -47 & 1 \\ -45023 & 30361 & -7426 & 854 & -47 & 1 \\ -44055 & 30185 & -7418 & 854 & -47 & 1 \end{pmatrix};$$

```

```
Dimensions[A[6]]
```

```
{28, 6}
```

```
g[6] = CoefficientList[D[last14[6], x] / mu[last14[6]] // Factor, x]
```

```
{-2394167, 1523833, -365610, 41846, -2303, 49}
```


`anglesq[6] =`


```
FindInstance[n[1] ≥ 0 && n[2] ≥ 0 && n[3] ≥ 0 && n[4] ≥ 0 && n[5] ≥ 0 && n[6] ≥ 0 &&
  n[7] ≥ 0 && n[8] ≥ 0 && n[9] ≥ 0 && n[10] ≥ 0 && n[11] ≥ 0 && n[12] ≥ 0 && n[13] ≥ 0 &&
  n[14] == 0 && n[15] ≥ 0 && n[16] ≥ 0 && n[17] ≥ 0 && n[18] ≥ 0 && n[19] ≥ 0 &&
  n[20] ≥ 0 && n[21] ≥ 0 && n[22] ≥ 0 && n[23] ≥ 0 && n[24] ≥ 0 && n[25] ≥ 0 && n[26] ≥ 0 &&
  n[27] ≥ 0 && n[28] ≥ 0 && Array[n, 28].A[6] == g[6], Array[n, 28], Integers]
```

```
{}
```

```
list[6][[3, 14]]
```

```
{-49 015 + 31 161 x - 7466 x2 + 854 x3 - 47 x4 + x5,
 (-11 + x) (4429 - 2420 x + 458 x2 - 36 x3 + x4)}
```

```
last14[[6]]
```

```
(-11 + x)2 (-9 + x)11 (-7 + x)2 (5 + x)32 (152 - 25 x + x2)
```

```
poly6warranted = list[6][[3, 14]] * mu[last14[[6]]] // Factor
```

```
{(-11 + x) (-9 + x)10 (-7 + x) (5 + x)31 (-49 015 + 31 161 x - 7466 x2 + 854 x3 - 47 x4 + x5),
 (-11 + x)2 (-9 + x)10 (-7 + x) (5 + x)31 (4429 - 2420 x + 458 x2 - 36 x3 + x4)}
```

```
interlacepoly6compatiblew3 = {};
```

```
For[i = 1, i ≤ Length[list[6]], i++,
```

```
  If[compatible[combinations[(-11 + x)2 (-9 + x)11 (-7 + x)2 (5 + x)32 (152 - 25 x + x2),
    (x + 5) (x - 7) (x - 9) (x - 11), list[6][[3]], list[6][[i]], list[6], anglesq[6]] //
    FullSimplify] == 1, AppendTo[interlacepoly6compatiblew3, i]]
```

```
]
```

```
interlacepoly6compatiblew3
```

```
{2, 3, 8, 12, 14, 20, 28}
```

```
FindInstance[n[1] == 0 && n[2] ≥ 0 && n[3] ≥ 0 && n[4] == 0 && n[5] == 0 && n[6] == 0 &&
```

```
  n[7] == 0 && n[8] ≥ 0 && n[9] == 0 && n[10] == 0 && n[11] == 0 && n[12] ≥ 0 && n[13] == 0 &&
```

```
  n[14] ≥ 0 && n[15] == 0 && n[16] == 0 && n[17] == 0 && n[18] == 0 && n[19] == 0 && n[20] ≥ 0 &&
```

```
  n[21] == 0 && n[22] == 0 && n[23] == 0 && n[24] == 0 && n[25] == 0 && n[26] == 0 &&
```

```
  n[27] == 0 && n[28] ≥ 0 && Array[n, 28].A[6] == g[6], Array[n, 28], Integers]
```

```
{}
```

```
interlacepoly6compatiblew14 = {};
```

```
For[i = 1, i ≤ Length[list[6]], i++,
```

```
  If[compatible[combinations[(-11 + x)2 (-9 + x)11 (-7 + x)2 (5 + x)32 (152 - 25 x + x2),
    (x + 5) (x - 7) (x - 9) (x - 11), list[6][[14]], list[6][[i]],
    list[6], anglesq[6]] // FullSimplify] == 1,
    AppendTo[interlacepoly6compatiblew14, i]]
```

```
]
```

```
interlacepoly6compatiblew14
```

```
{2, 3, 8, 12, 14, 20, 28}
```

```
list6refined = list[6][{2, 3, 8, 12, 14, 20, 28}]
{(-11 + x) (-9 + x) (-493 + 215 x - 27 x^2 + x^3),
 -49 015 + 31 161 x - 7466 x^2 + 854 x^3 - 47 x^4 + x^5, (-9 + x)^2 (-591 + 251 x - 29 x^2 + x^3),
 (-11 + x) (4397 - 2420 x + 458 x^2 - 36 x^3 + x^4), (-11 + x) (4429 - 2420 x + 458 x^2 - 36 x^3 + x^4),
 (-9 + x) (139 - 24 x + x^2) (37 - 14 x + x^2), (-11 + x) (-9 + x) (-445 + 215 x - 27 x^2 + x^3)}

FindInstance[
 n[1] ≥ 0 && n[2] ≥ 0 && n[3] ≥ 0 && n[4] ≥ 0 && n[5] ≥ 0 && n[6] ≥ 0 && n[7] ≥ 0 &&
 Array[n, 7].CoefficientList[list6refined, x] == g[6], Array[n, 7], Integers]
{}
```

last14[[7]]

```
(-9 + x)^12 (5 + x)^32 (-100 376 + 52 193 x - 10 636 x^2 + 1062 x^3 - 52 x^4 + x^5)

list[7] = {420 307 - 318 416 x + 96 339 x^2 - 15 000 x^3 + 1273 x^4 - 56 x^5 + x^6,
 (-7 + x) (-60 053 + 36 909 x - 8490 x^2 + 930 x^3 - 49 x^4 + x^5),
 422 115 - 318 768 x + 96 355 x^2 - 15 000 x^3 + 1273 x^4 - 56 x^5 + x^6,
 (-7 + x) (-60 261 + 36 925 x - 8490 x^2 + 930 x^3 - 49 x^4 + x^5),
 423 571 - 319 088 x + 96 371 x^2 - 15 000 x^3 + 1273 x^4 - 56 x^5 + x^6,
 423 347 - 319 056 x + 96 371 x^2 - 15 000 x^3 + 1273 x^4 - 56 x^5 + x^6,
 (-9 + x)^2 (5067 - 2770 x + 508 x^2 - 38 x^3 + x^4),
 (-9 + x) (-7 + x) (6549 - 3352 x + 570 x^2 - 40 x^3 + x^4),
 412 171 - 315 928 x + 96 091 x^2 - 14 992 x^3 + 1273 x^4 - 56 x^5 + x^6,
 412 235 - 315 928 x + 96 091 x^2 - 14 992 x^3 + 1273 x^4 - 56 x^5 + x^6,
 (-9 + x) (-45 811 + 30 013 x - 7342 x^2 + 850 x^3 - 47 x^4 + x^5),
 411 947 - 315 896 x + 96 091 x^2 - 14 992 x^3 + 1273 x^4 - 56 x^5 + x^6,
 414 395 - 316 312 x + 96 107 x^2 - 14 992 x^3 + 1273 x^4 - 56 x^5 + x^6,
 413 979 - 316 280 x + 96 107 x^2 - 14 992 x^3 + 1273 x^4 - 56 x^5 + x^6,
 (-7 + x) (-59 149 + 36 733 x - 8482 x^2 + 930 x^3 - 49 x^4 + x^5),
 414 107 - 316 280 x + 96 107 x^2 - 14 992 x^3 + 1273 x^4 - 56 x^5 + x^6,
 (-9 + x) (-46 019 + 30 029 x - 7342 x^2 + 850 x^3 - 47 x^4 + x^5),
 413 691 - 316 248 x + 96 107 x^2 - 14 992 x^3 + 1273 x^4 - 56 x^5 + x^6,
 413 755 - 316 248 x + 96 107 x^2 - 14 992 x^3 + 1273 x^4 - 56 x^5 + x^6,
 (-7 + x) (-59 117 + 36 733 x - 8482 x^2 + 930 x^3 - 49 x^4 + x^5),
 (-9 + x) (-45 987 + 30 029 x - 7342 x^2 + 850 x^3 - 47 x^4 + x^5),
 (113 - 22 x + x^2) (3659 - 2086 x + 412 x^2 - 34 x^3 + x^4),
 415 563 - 316 600 x + 96 123 x^2 - 14 992 x^3 + 1273 x^4 - 56 x^5 + x^6,
 415 627 - 316 600 x + 96 123 x^2 - 14 992 x^3 + 1273 x^4 - 56 x^5 + x^6,
 415 211 - 316 568 x + 96 123 x^2 - 14 992 x^3 + 1273 x^4 - 56 x^5 + x^6,
 (-7 + x) (113 - 22 x + x^2) (-525 + 223 x - 27 x^2 + x^3),
```

$415\,339 - 316\,568x + 96\,123x^2 - 14\,992x^3 + 1273x^4 - 56x^5 + x^6$,
 $416\,795 - 316\,888x + 96\,139x^2 - 14\,992x^3 + 1273x^4 - 56x^5 + x^6$,
 $(-9+x)(-44\,699 + 29\,821x - 7334x^2 + 850x^3 - 47x^4 + x^5)$,
 $404\,387 - 313\,472x + 95\,843x^2 - 14\,984x^3 + 1273x^4 - 56x^5 + x^6$,
 $(-9+x)(-44\,939 + 29\,837x - 7334x^2 + 850x^3 - 47x^4 + x^5)$,
 $(95 - 20x + x^2)(4253 - 2404x + 458x^2 - 36x^3 + x^4)$,
 $404\,099 - 313\,440x + 95\,843x^2 - 14\,984x^3 + 1273x^4 - 56x^5 + x^6$,
 $(-9+x)(-44\,907 + 29\,837x - 7334x^2 + 850x^3 - 47x^4 + x^5)$,
 $403\,811 - 313\,408x + 95\,843x^2 - 14\,984x^3 + 1273x^4 - 56x^5 + x^6$,
 $(-9+x)(-44\,875 + 29\,837x - 7334x^2 + 850x^3 - 47x^4 + x^5)$,
 $(-9+x)(-44\,843 + 29\,837x - 7334x^2 + 850x^3 - 47x^4 + x^5)$,
 $(-9+x)(-45\,179 + 29\,853x - 7334x^2 + 850x^3 - 47x^4 + x^5)$,
 $(-7+x)(-58\,037 + 36\,541x - 8474x^2 + 930x^3 - 49x^4 + x^5)$,
 $(-9+x)(-45\,147 + 29\,853x - 7334x^2 + 850x^3 - 47x^4 + x^5)$,
 $405\,907 - 313\,792x + 95\,859x^2 - 14\,984x^3 + 1273x^4 - 56x^5 + x^6$,
 $405\,971 - 313\,792x + 95\,859x^2 - 14\,984x^3 + 1273x^4 - 56x^5 + x^6$,
 $(-9+x)(-7+x)(6445 - 3344x + 570x^2 - 40x^3 + x^4)$,
 $405\,619 - 313\,760x + 95\,859x^2 - 14\,984x^3 + 1273x^4 - 56x^5 + x^6$,
 $405\,683 - 313\,760x + 95\,859x^2 - 14\,984x^3 + 1273x^4 - 56x^5 + x^6$,
 $(-9+x)(-45\,083 + 29\,853x - 7334x^2 + 850x^3 - 47x^4 + x^5)$,
 $(113 - 22x + x^2)(3587 - 2078x + 412x^2 - 34x^3 + x^4)$,
 $405\,395 - 313\,728x + 95\,859x^2 - 14\,984x^3 + 1273x^4 - 56x^5 + x^6$,
 $(-9+x)(-45\,051 + 29\,853x - 7334x^2 + 850x^3 - 47x^4 + x^5)$,
 $407\,843 - 314\,144x + 95\,875x^2 - 14\,984x^3 + 1273x^4 - 56x^5 + x^6$,
 $(-9+x)(-45\,323 + 29\,869x - 7334x^2 + 850x^3 - 47x^4 + x^5)$,
 $(-7+x)(-58\,213 + 36\,557x - 8474x^2 + 930x^3 - 49x^4 + x^5)$,
 $407\,555 - 314\,112x + 95\,875x^2 - 14\,984x^3 + 1273x^4 - 56x^5 + x^6$,
 $(-9+x)(-45\,291 + 29\,869x - 7334x^2 + 850x^3 - 47x^4 + x^5)$,
 $(113 - 22x + x^2)(3603 - 2078x + 412x^2 - 34x^3 + x^4)$,
 $407\,203 - 314\,080x + 95\,875x^2 - 14\,984x^3 + 1273x^4 - 56x^5 + x^6$,
 $(-7+x)(-58\,181 + 36\,557x - 8474x^2 + 930x^3 - 49x^4 + x^5)$,
 $(-9+x)(-45\,259 + 29\,869x - 7334x^2 + 850x^3 - 47x^4 + x^5)$,
 $406\,851 - 314\,048x + 95\,875x^2 - 14\,984x^3 + 1273x^4 - 56x^5 + x^6$,
 $406\,915 - 314\,048x + 95\,875x^2 - 14\,984x^3 + 1273x^4 - 56x^5 + x^6$,
 $409\,075 - 314\,432x + 95\,891x^2 - 14\,984x^3 + 1273x^4 - 56x^5 + x^6$,
 $408\,787 - 314\,400x + 95\,891x^2 - 14\,984x^3 + 1273x^4 - 56x^5 + x^6$,
 $(-9+x)(-43\,827 + 29\,645x - 7326x^2 + 850x^3 - 47x^4 + x^5)$,
 $(-9+x)(95 - 20x + x^2)(-461 + 215x - 27x^2 + x^3)$,
 $396\,251 - 310\,984x + 95\,595x^2 - 14\,976x^3 + 1273x^4 - 56x^5 + x^6$,
 $(-9+x)(-44\,035 + 29\,661x - 7326x^2 + 850x^3 - 47x^4 + x^5)$,
 $395\,963 - 310\,952x + 95\,595x^2 - 14\,976x^3 + 1273x^4 - 56x^5 + x^6$,
 $(-9+x)(-44\,003 + 29\,661x - 7326x^2 + 850x^3 - 47x^4 + x^5)$,
 $(95 - 20x + x^2)(4165 - 2396x + 458x^2 - 36x^3 + x^4)$,
 $(-9+x)(-43\,971 + 29\,661x - 7326x^2 + 850x^3 - 47x^4 + x^5)$,

$(-9 + x) (-43\,939 + 29\,661x - 7326x^2 + 850x^3 - 47x^4 + x^5),$
 $(-9 + x) (-43\,907 + 29\,661x - 7326x^2 + 850x^3 - 47x^4 + x^5),$
 $(-9 + x) (-44\,243 + 29\,677x - 7326x^2 + 850x^3 - 47x^4 + x^5),$
 $(-9 + x) (-44\,211 + 29\,677x - 7326x^2 + 850x^3 - 47x^4 + x^5),$
 $397\,547 - 311\,272x + 95\,611x^2 - 14\,976x^3 + 1273x^4 - 56x^5 + x^6,$
 $(-9 + x) (-44\,179 + 29\,677x - 7326x^2 + 850x^3 - 47x^4 + x^5),$
 $(113 - 22x + x^2) (95 - 20x + x^2) (37 - 14x + x^2),$
 $397\,259 - 311\,240x + 95\,611x^2 - 14\,976x^3 + 1273x^4 - 56x^5 + x^6,$
 $(-9 + x) (-44\,147 + 29\,677x - 7326x^2 + 850x^3 - 47x^4 + x^5),$
 $396\,971 - 311\,208x + 95\,611x^2 - 14\,976x^3 + 1273x^4 - 56x^5 + x^6,$
 $(-9 + x) (-44\,115 + 29\,677x - 7326x^2 + 850x^3 - 47x^4 + x^5),$
 $(-9 + x) (-7 + x) (6341 - 3336x + 570x^2 - 40x^3 + x^4),$
 $399\,131 - 311\,592x + 95\,627x^2 - 14\,976x^3 + 1273x^4 - 56x^5 + x^6,$
 $(-9 + x) (-44\,355 + 29\,693x - 7326x^2 + 850x^3 - 47x^4 + x^5),$
 $398\,779 - 311\,560x + 95\,627x^2 - 14\,976x^3 + 1273x^4 - 56x^5 + x^6,$
 $398\,843 - 311\,560x + 95\,627x^2 - 14\,976x^3 + 1273x^4 - 56x^5 + x^6,$
 $(-9 + x) (-44\,323 + 29\,693x - 7326x^2 + 850x^3 - 47x^4 + x^5),$
 $398\,491 - 311\,528x + 95\,627x^2 - 14\,976x^3 + 1273x^4 - 56x^5 + x^6,$
 $(-1009 + 311x - 31x^2 + x^3) (-395 + 187x - 25x^2 + x^3),$
 $(-9 + x) (-44\,563 + 29\,709x - 7326x^2 + 850x^3 - 47x^4 + x^5),$
 $(-7 + x) (-57\,245 + 36\,381x - 8466x^2 + 930x^3 - 49x^4 + x^5),$
 $(-9 + x) (-44\,531 + 29\,709x - 7326x^2 + 850x^3 - 47x^4 + x^5),$
 $400\,363 - 311\,880x + 95\,643x^2 - 14\,976x^3 + 1273x^4 - 56x^5 + x^6,$
 $400\,427 - 311\,880x + 95\,643x^2 - 14\,976x^3 + 1273x^4 - 56x^5 + x^6,$
 $402\,299 - 312\,232x + 95\,659x^2 - 14\,976x^3 + 1273x^4 - 56x^5 + x^6,$
 $(-9 + x) (-42\,923 + 29\,469x - 7318x^2 + 850x^3 - 47x^4 + x^5),$
 $(-9 + x) (-43\,099 + 29\,485x - 7318x^2 + 850x^3 - 47x^4 + x^5),$
 $(-9 + x) (-43\,067 + 29\,485x - 7318x^2 + 850x^3 - 47x^4 + x^5),$
 $(-9 + x) (95 - 20x + x^2) (-453 + 215x - 27x^2 + x^3),$
 $(-9 + x) (-43\,275 + 29\,501x - 7318x^2 + 850x^3 - 47x^4 + x^5),$
 $(-9 + x) (-43\,243 + 29\,501x - 7318x^2 + 850x^3 - 47x^4 + x^5),$
 $(95 - 20x + x^2) (4093 - 2388x + 458x^2 - 36x^3 + x^4),$
 $(-9 + x) (-43\,211 + 29\,501x - 7318x^2 + 850x^3 - 47x^4 + x^5),$
 $(-9 + x) (-43\,179 + 29\,501x - 7318x^2 + 850x^3 - 47x^4 + x^5),$
 $(-9 + x) (-43\,419 + 29\,517x - 7318x^2 + 850x^3 - 47x^4 + x^5),$
 $390\,419 - 309\,040x + 95\,379x^2 - 14\,968x^3 + 1273x^4 - 56x^5 + x^6,$
 $(-9 + x) (43 - 16x + x^2) (-1009 + 311x - 31x^2 + x^3),$
 $390\,131 - 309\,008x + 95\,379x^2 - 14\,968x^3 + 1273x^4 - 56x^5 + x^6,$
 $(-9 + x) (-43\,595 + 29\,533x - 7318x^2 + 850x^3 - 47x^4 + x^5),$
 $392\,003 - 309\,360x + 95\,395x^2 - 14\,968x^3 + 1273x^4 - 56x^5 + x^6,$
 $(-9 + x) (-42\,307 + 29\,325x - 7310x^2 + 850x^3 - 47x^4 + x^5),$
 $(-9 + x) (95 - 20x + x^2) (-445 + 215x - 27x^2 + x^3),$
 $(-9 + x) (-42\,451 + 29\,341x - 7310x^2 + 850x^3 - 47x^4 + x^5),$
 $(-9 + x) (95 - 20x + x^2) (-437 + 215x - 27x^2 + x^3) \};$

```

( 420 307 -318 416 96 339 -15 000 1273 -56 1 )
  420 371 -318 416 96 339 -15 000 1273 -56 1
  422 115 -318 768 96 355 -15 000 1273 -56 1
  421 827 -318 736 96 355 -15 000 1273 -56 1
  423 571 -319 088 96 371 -15 000 1273 -56 1
  423 347 -319 056 96 371 -15 000 1273 -56 1
  410 427 -315 576 96 075 -14 992 1273 -56 1
  412 587 -315 960 96 091 -14 992 1273 -56 1
  412 171 -315 928 96 091 -14 992 1273 -56 1
  412 235 -315 928 96 091 -14 992 1273 -56 1
  412 299 -315 928 96 091 -14 992 1273 -56 1
  411 947 -315 896 96 091 -14 992 1273 -56 1
  414 395 -316 312 96 107 -14 992 1273 -56 1
  413 979 -316 280 96 107 -14 992 1273 -56 1
  414 043 -316 280 96 107 -14 992 1273 -56 1
  414 107 -316 280 96 107 -14 992 1273 -56 1
  414 171 -316 280 96 107 -14 992 1273 -56 1
  413 691 -316 248 96 107 -14 992 1273 -56 1
  413 755 -316 248 96 107 -14 992 1273 -56 1
  413 819 -316 248 96 107 -14 992 1273 -56 1
  413 883 -316 248 96 107 -14 992 1273 -56 1
  413 467 -316 216 96 107 -14 992 1273 -56 1
  415 563 -316 600 96 123 -14 992 1273 -56 1
  415 627 -316 600 96 123 -14 992 1273 -56 1
  415 211 -316 568 96 123 -14 992 1273 -56 1
  415 275 -316 568 96 123 -14 992 1273 -56 1
  415 339 -316 568 96 123 -14 992 1273 -56 1
  416 795 -316 888 96 139 -14 992 1273 -56 1
  402 291 -313 088 95 827 -14 984 1273 -56 1
  404 387 -313 472 95 843 -14 984 1273 -56 1
  404 451 -313 472 95 843 -14 984 1273 -56 1
  404 035 -313 440 95 843 -14 984 1273 -56 1
  404 099 -313 440 95 843 -14 984 1273 -56 1
  404 163 -313 440 95 843 -14 984 1273 -56 1
  403 811 -313 408 95 843 -14 984 1273 -56 1
  403 875 -313 408 95 843 -14 984 1273 -56 1
  403 587 -313 376 95 843 -14 984 1273 -56 1
  406 611 -313 856 95 859 -14 984 1273 -56 1
  406 259 -313 824 95 859 -14 984 1273 -56 1
  406 323 -313 824 95 859 -14 984 1273 -56 1
  405 907 -313 792 95 859 -14 984 1273 -56 1
  405 971 -313 792 95 859 -14 984 1273 -56 1
  406 035 -313 792 95 859 -14 984 1273 -56 1
  405 619 -313 760 95 859 -14 984 1273 -56 1
  405 683 -313 760 95 859 -14 984 1273 -56 1
  405 747 -313 760 95 859 -14 984 1273 -56 1
  405 331 -313 728 95 859 -14 984 1273 -56 1
  405 395 -313 728 95 859 -14 984 1273 -56 1
  405 459 -313 728 95 859 -14 984 1273 -56 1
  407 843 -314 144 95 875 -14 984 1273 -56 1
  407 907 -314 144 95 875 -14 984 1273 -56 1
  407 491 -314 112 95 875 -14 984 1273 -56 1
  407 555 -314 112 95 875 -14 984 1273 -56 1
  407 619 -314 112 95 875 -14 984 1273 -56 1
  ...

```

$$A[7] = \begin{pmatrix} 407\,139 & -314\,080 & 95\,875 & -14\,984 & 1273 & -56 & 1 \\ 407\,203 & -314\,080 & 95\,875 & -14\,984 & 1273 & -56 & 1 \\ 407\,267 & -314\,080 & 95\,875 & -14\,984 & 1273 & -56 & 1 \\ 407\,331 & -314\,080 & 95\,875 & -14\,984 & 1273 & -56 & 1 \\ 406\,851 & -314\,048 & 95\,875 & -14\,984 & 1273 & -56 & 1 \\ 406\,915 & -314\,048 & 95\,875 & -14\,984 & 1273 & -56 & 1 \\ 409\,075 & -314\,432 & 95\,891 & -14\,984 & 1273 & -56 & 1 \\ 408\,787 & -314\,400 & 95\,891 & -14\,984 & 1273 & -56 & 1 \\ 394\,443 & -310\,632 & 95\,579 & -14\,976 & 1273 & -56 & 1 \\ 394\,155 & -310\,600 & 95\,579 & -14\,976 & 1273 & -56 & 1 \\ 396\,251 & -310\,984 & 95\,595 & -14\,976 & 1273 & -56 & 1 \\ 396\,315 & -310\,984 & 95\,595 & -14\,976 & 1273 & -56 & 1 \\ 395\,963 & -310\,952 & 95\,595 & -14\,976 & 1273 & -56 & 1 \\ 396\,027 & -310\,952 & 95\,595 & -14\,976 & 1273 & -56 & 1 \\ 395\,675 & -310\,920 & 95\,595 & -14\,976 & 1273 & -56 & 1 \\ 395\,739 & -310\,920 & 95\,595 & -14\,976 & 1273 & -56 & 1 \\ 395\,451 & -310\,888 & 95\,595 & -14\,976 & 1273 & -56 & 1 \\ 395\,163 & -310\,856 & 95\,595 & -14\,976 & 1273 & -56 & 1 \\ 398\,187 & -311\,336 & 95\,611 & -14\,976 & 1273 & -56 & 1 \\ 397\,899 & -311\,304 & 95\,611 & -14\,976 & 1273 & -56 & 1 \\ 397\,547 & -311\,272 & 95\,611 & -14\,976 & 1273 & -56 & 1 \\ 397\,611 & -311\,272 & 95\,611 & -14\,976 & 1273 & -56 & 1 \\ 397\,195 & -311\,240 & 95\,611 & -14\,976 & 1273 & -56 & 1 \\ 397\,259 & -311\,240 & 95\,611 & -14\,976 & 1273 & -56 & 1 \\ 397\,323 & -311\,240 & 95\,611 & -14\,976 & 1273 & -56 & 1 \\ 396\,971 & -311\,208 & 95\,611 & -14\,976 & 1273 & -56 & 1 \\ 397\,035 & -311\,208 & 95\,611 & -14\,976 & 1273 & -56 & 1 \\ 399\,483 & -311\,624 & 95\,627 & -14\,976 & 1273 & -56 & 1 \\ 399\,131 & -311\,592 & 95\,627 & -14\,976 & 1273 & -56 & 1 \\ 399\,195 & -311\,592 & 95\,627 & -14\,976 & 1273 & -56 & 1 \\ 398\,779 & -311\,560 & 95\,627 & -14\,976 & 1273 & -56 & 1 \\ 398\,843 & -311\,560 & 95\,627 & -14\,976 & 1273 & -56 & 1 \\ 398\,907 & -311\,560 & 95\,627 & -14\,976 & 1273 & -56 & 1 \\ 398\,491 & -311\,528 & 95\,627 & -14\,976 & 1273 & -56 & 1 \\ 398\,555 & -311\,528 & 95\,627 & -14\,976 & 1273 & -56 & 1 \\ 401\,067 & -311\,944 & 95\,643 & -14\,976 & 1273 & -56 & 1 \\ 400\,715 & -311\,912 & 95\,643 & -14\,976 & 1273 & -56 & 1 \\ 400\,779 & -311\,912 & 95\,643 & -14\,976 & 1273 & -56 & 1 \\ 400\,363 & -311\,880 & 95\,643 & -14\,976 & 1273 & -56 & 1 \\ 400\,427 & -311\,880 & 95\,643 & -14\,976 & 1273 & -56 & 1 \\ 402\,299 & -312\,232 & 95\,659 & -14\,976 & 1273 & -56 & 1 \\ 386\,307 & -308\,144 & 95\,331 & -14\,968 & 1273 & -56 & 1 \\ 387\,891 & -308\,464 & 95\,347 & -14\,968 & 1273 & -56 & 1 \\ 387\,603 & -308\,432 & 95\,347 & -14\,968 & 1273 & -56 & 1 \\ 387\,315 & -308\,400 & 95\,347 & -14\,968 & 1273 & -56 & 1 \\ 389\,475 & -308\,784 & 95\,363 & -14\,968 & 1273 & -56 & 1 \\ 389\,187 & -308\,752 & 95\,363 & -14\,968 & 1273 & -56 & 1 \\ 388\,835 & -308\,720 & 95\,363 & -14\,968 & 1273 & -56 & 1 \\ 388\,899 & -308\,720 & 95\,363 & -14\,968 & 1273 & -56 & 1 \\ 388\,611 & -308\,688 & 95\,363 & -14\,968 & 1273 & -56 & 1 \\ 390\,771 & -309\,072 & 95\,379 & -14\,968 & 1273 & -56 & 1 \\ 390\,419 & -309\,040 & 95\,379 & -14\,968 & 1273 & -56 & 1 \\ 390\,483 & -309\,040 & 95\,379 & -14\,968 & 1273 & -56 & 1 \\ 390\,131 & -309\,008 & 95\,379 & -14\,968 & 1273 & -56 & 1 \\ 392\,355 & -309\,392 & 95\,395 & -14\,968 & 1273 & -56 & 1 \end{pmatrix};$$

$$\begin{pmatrix} 392\,003 & -309\,360 & 95\,395 & -14\,968 & 1273 & -56 & 1 \\ 380\,763 & -306\,232 & 95\,115 & -14\,960 & 1273 & -56 & 1 \\ 380\,475 & -306\,200 & 95\,115 & -14\,960 & 1273 & -56 & 1 \\ 382\,059 & -306\,520 & 95\,131 & -14\,960 & 1273 & -56 & 1 \\ 373\,635 & -304\,000 & 94\,883 & -14\,952 & 1273 & -56 & 1 \end{pmatrix}$$

Dimensions[A[7]]

{114, 7}

g[7] = CoefficientList[D[last14[[7]], x] / mu[last14[[7]]] // Factor, x]

{20 537 043, -15 568 080, 4 715 411, -734 776, 62 377, -2744, 49}

last14[[7]]

$(-9 + x)^{12} (5 + x)^{32} (-100\,376 + 52\,193\,x - 10\,636\,x^2 + 1062\,x^3 - 52\,x^4 + x^5)$

poly7warranted = list[7][{5, 6, 28}] * mu[last14[[7]]] // Factor

$\{(-9 + x)^{11} (5 + x)^{31} (423\,571 - 319\,088\,x + 96\,371\,x^2 - 15\,000\,x^3 + 1273\,x^4 - 56\,x^5 + x^6),$
 $(-9 + x)^{11} (5 + x)^{31} (423\,347 - 319\,056\,x + 96\,371\,x^2 - 15\,000\,x^3 + 1273\,x^4 - 56\,x^5 + x^6),$
 $(-9 + x)^{11} (5 + x)^{31} (416\,795 - 316\,888\,x + 96\,139\,x^2 - 14\,992\,x^3 + 1273\,x^4 - 56\,x^5 + x^6)\}$

last14[[8]]

$(-9 + x)^{12} (5 + x)^{32} (-99\,248 + 52\,001\,x - 10\,628\,x^2 + 1062\,x^3 - 52\,x^4 + x^5)$

list[8] = {416 267 - 316 664 x + 96 123 x² - 14 992 x³ + 1273 x⁴ - 56 x⁵ + x⁶,

$(-9 + x) (-46\,259 + 30\,045\,x - 7342\,x^2 + 850\,x^3 - 47\,x^4 + x^5),$

415 979 - 316 632 x + 96 123 x² - 14 992 x³ + 1273 x⁴ - 56 x⁵ + x⁶,

418 139 - 317 016 x + 96 139 x² - 14 992 x³ + 1273 x⁴ - 56 x⁵ + x⁶,

$(-9 + x) (-46\,467 + 30\,061\,x - 7342\,x^2 + 850\,x^3 - 47\,x^4 + x^5),$

417 851 - 316 984 x + 96 139 x² - 14 992 x³ + 1273 x⁴ - 56 x⁵ + x⁶,

419 371 - 317 304 x + 96 155 x² - 14 992 x³ + 1273 x⁴ - 56 x⁵ + x⁶,

$(-9 + x) (-44\,699 + 29\,821\,x - 7334\,x^2 + 850\,x^3 - 47\,x^4 + x^5),$

$(-9 + x) (-44\,907 + 29\,837\,x - 7334\,x^2 + 850\,x^3 - 47\,x^4 + x^5),$

$(-9 + x) (-45\,147 + 29\,853\,x - 7334\,x^2 + 850\,x^3 - 47\,x^4 + x^5),$

405 971 - 313 792 x + 95 859 x² - 14 984 x³ + 1273 x⁴ - 56 x⁵ + x⁶,

$(-9 + x) (-7 + x) (6445 - 3344\,x + 570\,x^2 - 40\,x^3 + x^4),$

408 131 - 314 176 x + 95 875 x² - 14 984 x³ + 1273 x⁴ - 56 x⁵ + x⁶,

$(-9 + x) (47 - 16\,x + x^2) (-965 + 307\,x - 31\,x^2 + x^3),$

407 843 - 314 144 x + 95 875 x² - 14 984 x³ + 1273 x⁴ - 56 x⁵ + x⁶,

$(-9 + x) (-45\,323 + 29\,869\,x - 7334\,x^2 + 850\,x^3 - 47\,x^4 + x^5),$

407 555 - 314 112 x + 95 875 x² - 14 984 x³ + 1273 x⁴ - 56 x⁵ + x⁶,

$(-9 + x) (-45\,291 + 29\,869\,x - 7334\,x^2 + 850\,x^3 - 47\,x^4 + x^5),$

$(-9 + x) (-45\,563 + 29\,885\,x - 7334\,x^2 + 850\,x^3 - 47\,x^4 + x^5),$

$$\begin{aligned}
& (-9+x) (-45\,531 + 29\,885\,x - 7334\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& 409\,427 - 314\,464\,x + 95\,891\,x^2 - 14\,984\,x^3 + 1273\,x^4 - 56\,x^5 + x^6, \\
& (-9+x) (-45\,499 + 29\,885\,x - 7334\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-45\,707 + 29\,901\,x - 7334\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& 411\,011 - 314\,784\,x + 95\,907\,x^2 - 14\,984\,x^3 + 1273\,x^4 - 56\,x^5 + x^6, \\
& (-9+x)^2 (4843 - 2754\,x + 508\,x^2 - 38\,x^3 + x^4), \\
& (-9+x) (95 - 20\,x + x^2) (-461 + 215\,x - 27\,x^2 + x^3), \\
& (-9+x) (-43\,763 + 29\,645\,x - 7326\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-44\,035 + 29\,661\,x - 7326\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-44\,003 + 29\,661\,x - 7326\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-43\,971 + 29\,661\,x - 7326\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-44\,243 + 29\,677\,x - 7326\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& 397\,835 - 311\,304\,x + 95\,611\,x^2 - 14\,976\,x^3 + 1273\,x^4 - 56\,x^5 + x^6, \\
& (-9+x) (-44\,211 + 29\,677\,x - 7326\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& 397\,547 - 311\,272\,x + 95\,611\,x^2 - 14\,976\,x^3 + 1273\,x^4 - 56\,x^5 + x^6, \\
& (-9+x) (-44\,179 + 29\,677\,x - 7326\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-44\,147 + 29\,677\,x - 7326\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-44\,419 + 29\,693\,x - 7326\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& 399\,419 - 311\,624\,x + 95\,627\,x^2 - 14\,976\,x^3 + 1273\,x^4 - 56\,x^5 + x^6, \\
& (-9+x) (-7+x) (6341 - 3336\,x + 570\,x^2 - 40\,x^3 + x^4), \\
& 399\,131 - 311\,592\,x + 95\,627\,x^2 - 14\,976\,x^3 + 1273\,x^4 - 56\,x^5 + x^6, \\
& (-9+x) (-44\,355 + 29\,693\,x - 7326\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& 398\,843 - 311\,560\,x + 95\,627\,x^2 - 14\,976\,x^3 + 1273\,x^4 - 56\,x^5 + x^6, \\
& (-9+x) (-44\,595 + 29\,709\,x - 7326\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-44\,563 + 29\,709\,x - 7326\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-7+x) (-57\,245 + 36\,381\,x - 8466\,x^2 + 930\,x^3 - 49\,x^4 + x^5), \\
& (-9+x) (-44\,771 + 29\,725\,x - 7326\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-42\,683 + 29\,453\,x - 7318\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-42\,891 + 29\,469\,x - 7318\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-42\,859 + 29\,469\,x - 7318\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \quad (-9+x) (113 - 22\,x + x^2) \\
& \quad (-379 + 187\,x - 25\,x^2 + x^3), \quad (-9+x)^2 (4755 - 2746\,x + 508\,x^2 - 38\,x^3 + x^4), \\
& (-9+x) (-43\,099 + 29\,485\,x - 7318\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-43\,067 + 29\,485\,x - 7318\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (95 - 20\,x + x^2) (-453 + 215\,x - 27\,x^2 + x^3), \\
& (-9+x) (-43\,003 + 29\,485\,x - 7318\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-43\,275 + 29\,501\,x - 7318\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& 389\,123 - 308\,752\,x + 95\,363\,x^2 - 14\,968\,x^3 + 1273\,x^4 - 56\,x^5 + x^6, \\
& (-9+x) (-43\,243 + 29\,501\,x - 7318\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-43\,211 + 29\,501\,x - 7318\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-43\,451 + 29\,517\,x - 7318\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& 390\,707 - 309\,072\,x + 95\,379\,x^2 - 14\,968\,x^3 + 1273\,x^4 - 56\,x^5 + x^6, \\
& (-9+x) (-43\,419 + 29\,517\,x - 7318\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& 390\,419 - 309\,040\,x + 95\,379\,x^2 - 14\,968\,x^3 + 1273\,x^4 - 56\,x^5 + x^6,
\end{aligned}$$

$$\begin{aligned}
& (-9+x) (-43\,627 + 29\,533\,x - 7318\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& 392\,291 - 309\,392\,x + 95\,395\,x^2 - 14\,968\,x^3 + 1273\,x^4 - 56\,x^5 + x^6, \\
& (-9+x) (-43\,595 + 29\,533\,x - 7318\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-43\,803 + 29\,549\,x - 7318\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-41\,779 + 29\,277\,x - 7310\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-41\,747 + 29\,277\,x - 7310\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-41\,955 + 29\,293\,x - 7310\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (113 - 22\,x + x^2) (-371 + 187\,x - 25\,x^2 + x^3), \\
& (-9+x) (-41\,891 + 29\,293\,x - 7310\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-42\,131 + 29\,309\,x - 7310\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-42\,099 + 29\,309\,x - 7310\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-42\,067 + 29\,309\,x - 7310\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-42\,307 + 29\,325\,x - 7310\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (95 - 20\,x + x^2) (-445 + 215\,x - 27\,x^2 + x^3), \\
& (-9+x) (-42\,243 + 29\,325\,x - 7310\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-42\,483 + 29\,341\,x - 7310\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-42\,451 + 29\,341\,x - 7310\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-42\,659 + 29\,357\,x - 7310\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& 383\,579 - 306\,840\,x + 95\,147\,x^2 - 14\,960\,x^3 + 1273\,x^4 - 56\,x^5 + x^6, \\
& (-9+x) (-40\,811 + 29\,101\,x - 7302\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-40\,987 + 29\,117\,x - 7302\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-40\,955 + 29\,117\,x - 7302\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-41\,163 + 29\,133\,x - 7302\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-41\,131 + 29\,133\,x - 7302\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-41\,099 + 29\,133\,x - 7302\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-41\,339 + 29\,149\,x - 7302\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-41\,307 + 29\,149\,x - 7302\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (95 - 20\,x + x^2) (-437 + 215\,x - 27\,x^2 + x^3), \\
& (-9+x) (-40\,195 + 28\,957\,x - 7294\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-40\,163 + 28\,957\,x - 7294\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-9+x) (-40\,371 + 28\,973\,x - 7294\,x^2 + 850\,x^3 - 47\,x^4 + x^5), \\
& (-13+x) (-9+x) (3119 - 1990\,x + 408\,x^2 - 34\,x^3 + x^4), \\
& (-13+x) (-9+x) (3031 - 1982\,x + 408\,x^2 - 34\,x^3 + x^4) \};
\end{aligned}$$

$$\begin{pmatrix}
416\,267 & -316\,664 & 96\,123 & -14\,992 & 1273 & -56 & 1 \\
416\,331 & -316\,664 & 96\,123 & -14\,992 & 1273 & -56 & 1 \\
415\,979 & -316\,632 & 96\,123 & -14\,992 & 1273 & -56 & 1 \\
418\,139 & -317\,016 & 96\,139 & -14\,992 & 1273 & -56 & 1 \\
418\,203 & -317\,016 & 96\,139 & -14\,992 & 1273 & -56 & 1 \\
417\,851 & -316\,984 & 96\,139 & -14\,992 & 1273 & -56 & 1 \\
419\,371 & -317\,304 & 96\,155 & -14\,992 & 1273 & -56 & 1 \\
402\,291 & -313\,088 & 95\,827 & -14\,984 & 1273 & -56 & 1 \\
404\,163 & -313\,440 & 95\,843 & -14\,984 & 1273 & -56 & 1 \\
406\,323 & -313\,824 & 95\,859 & -14\,984 & 1273 & -56 & 1 \\
405\,971 & -313\,792 & 95\,859 & -14\,984 & 1273 & -56 & 1 \\
406\,035 & -313\,792 & 95\,859 & -14\,984 & 1273 & -56 & 1
\end{pmatrix}$$

$A[8] = \begin{bmatrix} 408131 & -314176 & 95875 & -14984 & 1273 & -56 & 1 \\ 408195 & -314176 & 95875 & -14984 & 1273 & -56 & 1 \\ 407843 & -314144 & 95875 & -14984 & 1273 & -56 & 1 \\ 407907 & -314144 & 95875 & -14984 & 1273 & -56 & 1 \\ 407555 & -314112 & 95875 & -14984 & 1273 & -56 & 1 \\ 407619 & -314112 & 95875 & -14984 & 1273 & -56 & 1 \\ 410067 & -314528 & 95891 & -14984 & 1273 & -56 & 1 \\ 409779 & -314496 & 95891 & -14984 & 1273 & -56 & 1 \\ 409427 & -314464 & 95891 & -14984 & 1273 & -56 & 1 \\ 409491 & -314464 & 95891 & -14984 & 1273 & -56 & 1 \\ 411363 & -314816 & 95907 & -14984 & 1273 & -56 & 1 \\ 411011 & -314784 & 95907 & -14984 & 1273 & -56 & 1 \\ 392283 & -310248 & 95563 & -14976 & 1273 & -56 & 1 \\ 394155 & -310600 & 95579 & -14976 & 1273 & -56 & 1 \\ 393867 & -310568 & 95579 & -14976 & 1273 & -56 & 1 \\ 396315 & -310984 & 95595 & -14976 & 1273 & -56 & 1 \\ 396027 & -310952 & 95595 & -14976 & 1273 & -56 & 1 \\ 395739 & -310920 & 95595 & -14976 & 1273 & -56 & 1 \\ 398187 & -311336 & 95611 & -14976 & 1273 & -56 & 1 \\ 397835 & -311304 & 95611 & -14976 & 1273 & -56 & 1 \\ 397899 & -311304 & 95611 & -14976 & 1273 & -56 & 1 \\ 397547 & -311272 & 95611 & -14976 & 1273 & -56 & 1 \\ 397611 & -311272 & 95611 & -14976 & 1273 & -56 & 1 \\ 397323 & -311240 & 95611 & -14976 & 1273 & -56 & 1 \\ 399771 & -311656 & 95627 & -14976 & 1273 & -56 & 1 \\ 399419 & -311624 & 95627 & -14976 & 1273 & -56 & 1 \\ 399483 & -311624 & 95627 & -14976 & 1273 & -56 & 1 \\ 399131 & -311592 & 95627 & -14976 & 1273 & -56 & 1 \\ 399195 & -311592 & 95627 & -14976 & 1273 & -56 & 1 \\ 398843 & -311560 & 95627 & -14976 & 1273 & -56 & 1 \\ 401355 & -311976 & 95643 & -14976 & 1273 & -56 & 1 \\ 401067 & -311944 & 95643 & -14976 & 1273 & -56 & 1 \\ 400715 & -311912 & 95643 & -14976 & 1273 & -56 & 1 \\ 402939 & -312296 & 95659 & -14976 & 1273 & -56 & 1 \\ 384147 & -307760 & 95315 & -14968 & 1273 & -56 & 1 \\ 386019 & -308112 & 95331 & -14968 & 1273 & -56 & 1 \\ 385731 & -308080 & 95331 & -14968 & 1273 & -56 & 1 \\ 385443 & -308048 & 95331 & -14968 & 1273 & -56 & 1 \\ 385155 & -308016 & 95331 & -14968 & 1273 & -56 & 1 \\ 387891 & -308464 & 95347 & -14968 & 1273 & -56 & 1 \\ 387603 & -308432 & 95347 & -14968 & 1273 & -56 & 1 \\ 387315 & -308400 & 95347 & -14968 & 1273 & -56 & 1 \\ 387027 & -308368 & 95347 & -14968 & 1273 & -56 & 1 \\ 389475 & -308784 & 95363 & -14968 & 1273 & -56 & 1 \\ 389123 & -308752 & 95363 & -14968 & 1273 & -56 & 1 \\ 389187 & -308752 & 95363 & -14968 & 1273 & -56 & 1 \\ 388899 & -308720 & 95363 & -14968 & 1273 & -56 & 1 \\ 391059 & -309104 & 95379 & -14968 & 1273 & -56 & 1 \\ 390707 & -309072 & 95379 & -14968 & 1273 & -56 & 1 \\ 390771 & -309072 & 95379 & -14968 & 1273 & -56 & 1 \\ 390419 & -309040 & 95379 & -14968 & 1273 & -56 & 1 \\ 392643 & -309424 & 95395 & -14968 & 1273 & -56 & 1 \\ 392291 & -309392 & 95395 & -14968 & 1273 & -56 & 1 \\ 392355 & -309392 & 95395 & -14968 & 1273 & -56 & 1 \\ 394227 & -309744 & 95411 & -14968 & 1273 & -56 & 1 \end{bmatrix};$

376 011	-305 272	95 067	-14 960	1273	-56	1
375 723	-305 240	95 067	-14 960	1273	-56	1
377 595	-305 592	95 083	-14 960	1273	-56	1
377 307	-305 560	95 083	-14 960	1273	-56	1
377 019	-305 528	95 083	-14 960	1273	-56	1
379 179	-305 912	95 099	-14 960	1273	-56	1
378 891	-305 880	95 099	-14 960	1273	-56	1
378 603	-305 848	95 099	-14 960	1273	-56	1
380 763	-306 232	95 115	-14 960	1273	-56	1
380 475	-306 200	95 115	-14 960	1273	-56	1
380 187	-306 168	95 115	-14 960	1273	-56	1
382 347	-306 552	95 131	-14 960	1273	-56	1
382 059	-306 520	95 131	-14 960	1273	-56	1
383 931	-306 872	95 147	-14 960	1273	-56	1
383 579	-306 840	95 147	-14 960	1273	-56	1
367 299	-302 720	94 819	-14 952	1273	-56	1
368 883	-303 040	94 835	-14 952	1273	-56	1
368 595	-303 008	94 835	-14 952	1273	-56	1
370 467	-303 360	94 851	-14 952	1273	-56	1
370 179	-303 328	94 851	-14 952	1273	-56	1
369 891	-303 296	94 851	-14 952	1273	-56	1
372 051	-303 680	94 867	-14 952	1273	-56	1
371 763	-303 648	94 867	-14 952	1273	-56	1
373 635	-304 000	94 883	-14 952	1273	-56	1
361 755	-300 808	94 603	-14 944	1273	-56	1
361 467	-300 776	94 603	-14 944	1273	-56	1
363 339	-301 128	94 619	-14 944	1273	-56	1
364 923	-301 448	94 635	-14 944	1273	-56	1
354 627	-298 576	94 371	-14 936	1273	-56	1

Dimensions[A[8]]

{96, 7}

g[8] = CoefficientList[D[last14[[8]], x] / mu[last14[[8]]] // Factor, x]

{20 288 499, -15 474 624, 4 704 883, -734 408, 62 377, -2744, 49}

poly8warranted = list[8][[7]] * mu[last14[[8]]] // Factor

$(-9 + x)^{11} (5 + x)^{31} (419 371 - 317 304 x + 96 155 x^2 - 14 992 x^3 + 1273 x^4 - 56 x^5 + x^6)$

last14[[9]]

$(-13 + x)^2 (-11 + x)^2 (-9 + x)^{10} (-8 + x) (-7 + x)^2 (5 + x)^{32}$

```
list[9] = {(-13 + x) (-9 + x) (-7 + x) (41 - 14 x + x^2),
-33 547 + 22 577 x - 5802 x^2 + 718 x^3 - 43 x^4 + x^5,
(-7 + x) (4813 - 2540 x + 466 x^2 - 36 x^3 + x^4), (-11 + x) (-7 + x)
(-439 + 191 x - 25 x^2 + x^3), (-9 + x) (3643 - 2086 x + 412 x^2 - 34 x^3 + x^4),
(-9 + x) (3659 - 2086 x + 412 x^2 - 34 x^3 + x^4), (-9 + x) (-7 + x) (-525 + 223 x - 27 x^2 + x^3),
-33 043 + 22 449 x - 5794 x^2 + 718 x^3 - 43 x^4 + x^5,
(-11 + x) (-7 + x) (-431 + 191 x - 25 x^2 + x^3), (-9 + x)
(3571 - 2078 x + 412 x^2 - 34 x^3 + x^4), (-9 + x) (3587 - 2078 x + 412 x^2 - 34 x^3 + x^4),
(-9 + x) (3603 - 2078 x + 412 x^2 - 34 x^3 + x^4), (-11 + x) (95 - 20 x + x^2) (31 - 12 x + x^2),
(-11 + x) (-9 + x) (-7 + x) (47 - 16 x + x^2), (-9 + x) (95 - 20 x + x^2) (37 - 14 x + x^2),
(-11 + x) (-9 + x) (-321 + 159 x - 23 x^2 + x^3),
(-11 + x) (-9 + x) (-313 + 159 x - 23 x^2 + x^3)};
```

```
A[9] = 
$$\begin{pmatrix} -33\,579 & 22\,577 & -5802 & 718 & -43 & 1 \\ -33\,547 & 22\,577 & -5802 & 718 & -43 & 1 \\ -33\,691 & 22\,593 & -5802 & 718 & -43 & 1 \\ -33\,803 & 22\,609 & -5802 & 718 & -43 & 1 \\ -32\,787 & 22\,417 & -5794 & 718 & -43 & 1 \\ -32\,931 & 22\,433 & -5794 & 718 & -43 & 1 \\ -33\,075 & 22\,449 & -5794 & 718 & -43 & 1 \\ -33\,043 & 22\,449 & -5794 & 718 & -43 & 1 \\ -33\,187 & 22\,465 & -5794 & 718 & -43 & 1 \\ -32\,139 & 22\,273 & -5786 & 718 & -43 & 1 \\ -32\,283 & 22\,289 & -5786 & 718 & -43 & 1 \\ -32\,427 & 22\,305 & -5786 & 718 & -43 & 1 \\ -32\,395 & 22\,305 & -5786 & 718 & -43 & 1 \\ -32\,571 & 22\,321 & -5786 & 718 & -43 & 1 \\ -31\,635 & 22\,145 & -5778 & 718 & -43 & 1 \\ -31\,779 & 22\,161 & -5778 & 718 & -43 & 1 \\ -30\,987 & 22\,001 & -5770 & 718 & -43 & 1 \end{pmatrix};$$

```

```
Dimensions[A[9]]
```

```
{17, 6}
```

```
g[9] = CoefficientList[D[last14[9], x] / mu[last14[9]] // Factor, x]
```

```
{-1 636 939, 1 104 001, -284 122, 35 182, -2107, 49}
```

$$\text{anglesq}[9] = \begin{pmatrix} \frac{17}{26} & 0 & \frac{7}{39} & 0 & \frac{1}{6} & 0 \\ \frac{12851}{19656} & \frac{1}{18} & \frac{1}{65} & \frac{1}{7} & \frac{1}{8} & \frac{1}{135} \\ \frac{2143}{3276} & 0 & \frac{19}{195} & \frac{1}{7} & \frac{1}{12} & \frac{1}{45} \\ \frac{536}{819} & 0 & \frac{1}{65} & \frac{2}{7} & 0 & \frac{2}{45} \\ \frac{457}{702} & \frac{1}{9} & \frac{11}{195} & 0 & \frac{1}{6} & \frac{2}{135} \\ \frac{1829}{2808} & \frac{1}{18} & \frac{9}{65} & 0 & \frac{1}{8} & \frac{4}{135} \\ \frac{305}{468} & 0 & \frac{43}{195} & 0 & \frac{1}{12} & \frac{2}{45} \\ \frac{12809}{19656} & \frac{1}{18} & \frac{11}{195} & \frac{1}{7} & \frac{1}{24} & \frac{7}{135} \\ \frac{178}{273} & 0 & \frac{9}{65} & \frac{1}{7} & 0 & \frac{1}{15} \\ \frac{607}{936} & \frac{1}{6} & \frac{1}{65} & 0 & \frac{1}{8} & \frac{2}{45} \\ \frac{911}{1404} & \frac{1}{9} & \frac{19}{195} & 0 & \frac{1}{12} & \frac{8}{135} \\ \frac{1823}{2808} & \frac{1}{18} & \frac{7}{39} & 0 & \frac{1}{24} & \frac{2}{27} \\ \frac{1595}{2457} & \frac{1}{9} & \frac{1}{65} & \frac{1}{7} & 0 & \frac{11}{135} \\ \frac{76}{117} & 0 & \frac{17}{65} & 0 & 0 & \frac{4}{45} \\ \frac{605}{936} & \frac{1}{6} & \frac{11}{195} & 0 & \frac{1}{24} & \frac{4}{45} \\ \frac{227}{351} & \frac{1}{9} & \frac{9}{65} & 0 & 0 & \frac{14}{135} \\ \frac{226}{351} & \frac{2}{9} & \frac{1}{65} & 0 & 0 & \frac{16}{135} \end{pmatrix};$$

last14[[9]]

$$(-13 + x)^2 (-11 + x)^2 (-9 + x)^{10} (-8 + x) (-7 + x)^2 (5 + x)^{32}$$

poly9warranted = list[9][[4]] * mu[last14[[9]]] // Factor

$$(-13 + x) (-11 + x)^2 (-9 + x)^9 (-7 + x)^2 (5 + x)^{31} (-439 + 191x - 25x^2 + x^3)$$

list9refined = list[9][[2, 4, 6, 9, 10, 13, 16, 17]] *

$$\text{mu}[(-13 + x)^2 (-11 + x)^2 (-9 + x)^{10} (-8 + x) (-7 + x)^2 (5 + x)^{32}] // \text{Factor}$$

$$\begin{aligned} & \{ (-13 + x) (-11 + x) (-9 + x)^9 (-7 + x) \\ & \quad (5 + x)^{31} (-33547 + 22577x - 5802x^2 + 718x^3 - 43x^4 + x^5), \\ & \quad (-13 + x) (-11 + x)^2 (-9 + x)^9 (-7 + x)^2 (5 + x)^{31} (-439 + 191x - 25x^2 + x^3), \\ & \quad (-13 + x) (-11 + x) (-9 + x)^{10} (-7 + x) (5 + x)^{31} (3659 - 2086x + 412x^2 - 34x^3 + x^4), \\ & \quad (-13 + x) (-11 + x)^2 (-9 + x)^9 (-7 + x)^2 (5 + x)^{31} (-431 + 191x - 25x^2 + x^3), \\ & \quad (-13 + x) (-11 + x) (-9 + x)^{10} (-7 + x) (5 + x)^{31} (3571 - 2078x + 412x^2 - 34x^3 + x^4), \\ & \quad (-13 + x) (-11 + x)^2 (-9 + x)^9 (-7 + x) (5 + x)^{31} (95 - 20x + x^2) (31 - 12x + x^2), \\ & \quad (-13 + x) (-11 + x)^2 (-9 + x)^{10} (-7 + x) (5 + x)^{31} (-321 + 159x - 23x^2 + x^3), \\ & \quad (-13 + x) (-11 + x)^2 (-9 + x)^{10} (-7 + x) (5 + x)^{31} (-313 + 159x - 23x^2 + x^3) \} \end{aligned}$$

list[9][[4, 9]]

$$\{ (-11 + x) (-7 + x) (-439 + 191x - 25x^2 + x^3), (-11 + x) (-7 + x) (-431 + 191x - 25x^2 + x^3) \}$$

A9refined = A[9][[2, 4, 6, 9, 10, 13, 16, 17]];

A9refined // MatrixForm

$$\begin{pmatrix} -33547 & 22577 & -5802 & 718 & -43 & 1 \\ -33803 & 22609 & -5802 & 718 & -43 & 1 \\ -32931 & 22433 & -5794 & 718 & -43 & 1 \\ -33187 & 22465 & -5794 & 718 & -43 & 1 \\ -32139 & 22273 & -5786 & 718 & -43 & 1 \\ -32395 & 22305 & -5786 & 718 & -43 & 1 \\ -31779 & 22161 & -5778 & 718 & -43 & 1 \\ -30987 & 22001 & -5770 & 718 & -43 & 1 \end{pmatrix}$$

g[9]

{-1636939, 1104001, -284122, 35182, -2107, 49}

Solve[n[1] ≥ 0 && n[2] ≥ 0 && n[3] ≥ 0 && n[4] ≥ 0 && n[5] ≥ 0 && n[6] ≥ 0 && n[7] ≥ 0 && n[8] ≥ 0 && Array[n, 8].A9refined == g[9], Array[n, 8], Integers] // Length

193

Solve[n[2] + n[4] + n[6] + n[7] + n[8] == 33 && n[1] ≥ 0 && n[2] ≥ 0 && n[3] ≥ 0 && n[4] ≥ 0 && n[5] ≥ 0 && n[6] ≥ 0 && n[7] ≥ 0 && n[8] ≥ 0 && Array[n, 8].A9refined == g[9], Array[n, 8], Integers] // Length

193

Array[n, 8] /.

Solve[n[1] ≥ 0 && n[2] ≥ 0 && n[3] ≥ 0 && n[4] ≥ 0 && n[5] ≥ 0 && n[6] ≥ 0 && n[7] ≥ 0 && n[8] ≥ 0 && Array[n, 8].A9refined == g[9], Array[n, 8], Integers] // MatrixForm

$$\begin{pmatrix} 4 & 33 & 2 & 0 & 10 & 0 & 0 & 0 \\ 5 & 32 & 1 & 1 & 10 & 0 & 0 & 0 \\ 5 & 32 & 2 & 0 & 9 & 1 & 0 & 0 \\ 6 & 31 & 0 & 2 & 10 & 0 & 0 & 0 \\ 6 & 31 & 1 & 1 & 9 & 1 & 0 & 0 \\ 6 & 31 & 2 & 0 & 8 & 2 & 0 & 0 \\ 6 & 32 & 1 & 0 & 9 & 0 & 1 & 0 \\ 6 & 32 & 2 & 0 & 8 & 0 & 0 & 1 \\ 7 & 30 & 0 & 2 & 9 & 1 & 0 & 0 \\ 7 & 30 & 1 & 1 & 8 & 2 & 0 & 0 \\ 7 & 30 & 2 & 0 & 7 & 3 & 0 & 0 \\ 7 & 31 & 0 & 1 & 9 & 0 & 1 & 0 \\ 7 & 31 & 1 & 0 & 8 & 1 & 1 & 0 \\ 7 & 31 & 1 & 1 & 8 & 0 & 0 & 1 \\ 7 & 31 & 2 & 0 & 7 & 1 & 0 & 1 \\ 8 & 29 & 0 & 2 & 8 & 2 & 0 & 0 \\ 8 & 29 & 1 & 1 & 7 & 3 & 0 & 0 \\ 8 & 29 & 2 & 0 & 6 & 4 & 0 & 0 \\ 8 & 30 & 0 & 1 & 8 & 1 & 1 & 0 \\ 8 & 30 & 0 & 2 & 8 & 0 & 0 & 1 \\ 8 & 30 & 1 & 0 & 7 & 2 & 1 & 0 \\ 8 & 30 & 1 & 1 & 7 & 1 & 0 & 1 \\ 8 & 30 & 2 & 0 & 6 & 2 & 0 & 1 \\ 8 & 31 & 0 & 0 & 8 & 0 & 2 & 0 \\ 8 & 31 & 1 & 0 & 7 & 0 & 1 & 1 \\ 8 & 31 & 2 & 0 & 6 & 0 & 0 & 2 \\ 9 & 28 & 0 & 2 & 7 & 3 & 0 & 0 \end{pmatrix}$$

9	28	1	1	6	4	0	0
9	28	2	0	5	5	0	0
9	29	0	1	7	2	1	0
9	29	0	2	7	1	0	1
9	29	1	0	6	3	1	0
9	29	1	1	6	2	0	1
9	29	2	0	5	3	0	1
9	30	0	0	7	1	2	0
9	30	0	1	7	0	1	1
9	30	1	0	6	1	1	1
9	30	1	1	6	0	0	2
9	30	2	0	5	1	0	2
10	27	0	2	6	4	0	0
10	27	1	1	5	5	0	0
10	27	2	0	4	6	0	0
10	28	0	1	6	3	1	0
10	28	0	2	6	2	0	1
10	28	1	0	5	4	1	0
10	28	1	1	5	3	0	1
10	28	2	0	4	4	0	1
10	29	0	0	6	2	2	0
10	29	0	1	6	1	1	1
10	29	0	2	6	0	0	2
10	29	1	0	5	2	1	1
10	29	1	1	5	1	0	2
10	29	2	0	4	2	0	2
10	30	0	0	6	0	2	1
10	30	1	0	5	0	1	2
10	30	2	0	4	0	0	3
11	26	0	2	5	5	0	0
11	26	1	1	4	6	0	0
11	26	2	0	3	7	0	0
11	27	0	1	5	4	1	0
11	27	0	2	5	3	0	1
11	27	1	0	4	5	1	0
11	27	1	1	4	4	0	1
11	27	2	0	3	5	0	1
11	28	0	0	5	3	2	0
11	28	0	1	5	2	1	1
11	28	0	2	5	1	0	2
11	28	1	0	4	3	1	1
11	28	1	1	4	2	0	2
11	28	2	0	3	3	0	2
11	29	0	0	5	1	2	1
11	29	0	1	5	0	1	2
11	29	1	0	4	1	1	2
11	29	1	1	4	0	0	3
11	29	2	0	3	1	0	3
12	25	0	2	4	6	0	0
12	25	1	1	3	7	0	0
12	25	2	0	2	8	0	0
12	26	0	1	4	5	1	0
12	26	0	2	4	4	0	1
12	26	1	0	3	6	1	0
12	26	1	1	3	5	0	1

12	26	2	0	2	6	0	1
12	27	0	0	4	4	2	0
12	27	0	1	4	3	1	1
12	27	0	2	4	2	0	2
12	27	1	0	3	4	1	1
12	27	1	1	3	3	0	2
12	27	2	0	2	4	0	2
12	28	0	0	4	2	2	1
12	28	0	1	4	1	1	2
12	28	0	2	4	0	0	3
12	28	1	0	3	2	1	2
12	28	1	1	3	1	0	3
12	28	2	0	2	2	0	3
12	29	0	0	4	0	2	2
12	29	1	0	3	0	1	3
12	29	2	0	2	0	0	4
13	24	0	2	3	7	0	0
13	24	1	1	2	8	0	0
13	24	2	0	1	9	0	0
13	25	0	1	3	6	1	0
13	25	0	2	3	5	0	1
13	25	1	0	2	7	1	0
13	25	1	1	2	6	0	1
13	25	2	0	1	7	0	1
13	26	0	0	3	5	2	0
13	26	0	1	3	4	1	1
13	26	0	2	3	3	0	2
13	26	1	0	2	5	1	1
13	26	1	1	2	4	0	2
13	26	2	0	1	5	0	2
13	27	0	0	3	3	2	1
13	27	0	1	3	2	1	2
13	27	0	2	3	1	0	3
13	27	1	0	2	3	1	2
13	27	1	1	2	2	0	3
13	27	2	0	1	3	0	3
13	28	0	0	3	1	2	2
13	28	0	1	3	0	1	3
13	28	1	0	2	1	1	3
13	28	1	1	2	0	0	4
13	28	2	0	1	1	0	4
14	23	0	2	2	8	0	0
14	23	1	1	1	9	0	0
14	23	2	0	0	10	0	0
14	24	0	1	2	7	1	0
14	24	0	2	2	6	0	1
14	24	1	0	1	8	1	0
14	24	1	1	1	7	0	1
14	24	2	0	0	8	0	1
14	25	0	0	2	6	2	0
14	25	0	1	2	5	1	1
14	25	0	2	2	4	0	2
14	25	1	0	1	6	1	1
14	25	1	1	1	5	0	2
14	25	2	0	0	6	0	2

14	26	0	0	2	4	2	1
14	26	0	1	2	3	1	2
14	26	0	2	2	2	0	3
14	26	1	0	1	4	1	2
14	26	1	1	1	3	0	3
14	26	2	0	0	4	0	3
14	27	0	0	2	2	2	2
14	27	0	1	2	1	1	3
14	27	0	2	2	0	0	4
14	27	1	0	1	2	1	3
14	27	1	1	1	1	0	4
14	27	2	0	0	2	0	4
14	28	0	0	2	0	2	3
14	28	1	0	1	0	1	4
14	28	2	0	0	0	0	5
15	22	0	2	1	9	0	0
15	22	1	1	0	10	0	0
15	23	0	1	1	8	1	0
15	23	0	2	1	7	0	1
15	23	1	0	0	9	1	0
15	23	1	1	0	8	0	1
15	24	0	0	1	7	2	0
15	24	0	1	1	6	1	1
15	24	0	2	1	5	0	2
15	24	1	0	0	7	1	1
15	24	1	1	0	6	0	2
15	25	0	0	1	5	2	1
15	25	0	1	1	4	1	2
15	25	0	2	1	3	0	3
15	25	1	0	0	5	1	2
15	25	1	1	0	4	0	3
15	26	0	0	1	3	2	2
15	26	0	1	1	2	1	3
15	26	0	2	1	1	0	4
15	26	1	0	0	3	1	3
15	26	1	1	0	2	0	4
15	27	0	0	1	1	2	3
15	27	0	1	1	0	1	4
15	27	1	0	0	1	1	4
15	27	1	1	0	0	0	5
16	21	0	2	0	10	0	0
16	22	0	1	0	9	1	0
16	22	0	2	0	8	0	1
16	23	0	0	0	8	2	0
16	23	0	1	0	7	1	1
16	23	0	2	0	6	0	2
16	24	0	0	0	6	2	1
16	24	0	1	0	5	1	2
16	24	0	2	0	4	0	3
16	25	0	0	0	4	2	2
16	25	0	1	0	3	1	3
16	25	0	2	0	2	0	4
16	26	0	0	0	2	2	3
16	26	0	1	0	1	1	4
16	26	0	2	0	0	0	5

$$\begin{pmatrix} 16 & 27 & 0 & 0 & 0 & 0 & 2 & 4 \end{pmatrix}$$

```
Solve[n[1] ≥ 0 && 26 ≥ n[2] ≥ 0 && n[3] ≥ 0 && n[4] ≥ 0 && n[5] ≥ 0 && n[6] ≥ 0 && n[7] ≥ 0 &&
n[8] ≥ 0 && Array[n, 8].A9refined == g[9], Array[n, 8], Integers] // Length
```

```
81
```

```
Array[n, 8] /. Solve[
```

```
n[1] ≥ 0 && 26 ≥ n[2] ≥ 0 && n[3] ≥ 0 && n[4] ≥ 0 && n[5] ≥ 0 && n[6] ≥ 0 && n[7] ≥ 0 &&
```

```
n[8] ≥ 0 && Array[n, 8].A9refined == g[9], Array[n, 8], Integers] // MatrixForm
```

```
{11 26 0 2 5 5 0 0}
{11 26 1 1 4 6 0 0}
{11 26 2 0 3 7 0 0}
{12 25 0 2 4 6 0 0}
{12 25 1 1 3 7 0 0}
{12 25 2 0 2 8 0 0}
{12 26 0 1 4 5 1 0}
{12 26 0 2 4 4 0 1}
{12 26 1 0 3 6 1 0}
{12 26 1 1 3 5 0 1}
{12 26 2 0 2 6 0 1}
{13 24 0 2 3 7 0 0}
{13 24 1 1 2 8 0 0}
{13 24 2 0 1 9 0 0}
{13 25 0 1 3 6 1 0}
{13 25 0 2 3 5 0 1}
{13 25 1 0 2 7 1 0}
{13 25 1 1 2 6 0 1}
{13 25 2 0 1 7 0 1}
{13 26 0 0 3 5 2 0}
{13 26 0 1 3 4 1 1}
{13 26 0 2 3 3 0 2}
{13 26 1 0 2 5 1 1}
{13 26 1 1 2 4 0 2}
{13 26 2 0 1 5 0 2}
{14 23 0 2 2 8 0 0}
{14 23 1 1 1 9 0 0}
{14 23 2 0 0 10 0 0}
{14 24 0 1 2 7 1 0}
{14 24 0 2 2 6 0 1}
{14 24 1 0 1 8 1 0}
{14 24 1 1 1 7 0 1}
{14 24 2 0 0 8 0 1}
{14 25 0 0 2 6 2 0}
{14 25 0 1 2 5 1 1}
{14 25 0 2 2 4 0 2}
{14 25 1 0 1 6 1 1}
{14 25 1 1 1 5 0 2}
{14 25 2 0 0 6 0 2}
{14 26 0 0 2 4 2 1}
{14 26 0 1 2 3 1 2}
{14 26 0 2 2 2 0 3}
{14 26 1 0 1 4 1 2}
{14 26 1 1 1 3 0 3}
```

14	26	2	0	0	4	0	3
15	22	0	2	1	9	0	0
15	22	1	1	0	10	0	0
15	23	0	1	1	8	1	0
15	23	0	2	1	7	0	1
15	23	1	0	0	9	1	0
15	23	1	1	0	8	0	1
15	24	0	0	1	7	2	0
15	24	0	1	1	6	1	1
15	24	0	2	1	5	0	2
15	24	1	0	0	7	1	1
15	24	1	1	0	6	0	2
15	25	0	0	1	5	2	1
15	25	0	1	1	4	1	2
15	25	0	2	1	3	0	3
15	25	1	0	0	5	1	2
15	25	1	1	0	4	0	3
15	26	0	0	1	3	2	2
15	26	0	1	1	2	1	3
15	26	0	2	1	1	0	4
15	26	1	0	0	3	1	3
15	26	1	1	0	2	0	4
16	21	0	2	0	10	0	0
16	22	0	1	0	9	1	0
16	22	0	2	0	8	0	1
16	23	0	0	0	8	2	0
16	23	0	1	0	7	1	1
16	23	0	2	0	6	0	2
16	24	0	0	0	6	2	1
16	24	0	1	0	5	1	2
16	24	0	2	0	4	0	3
16	25	0	0	0	4	2	2
16	25	0	1	0	3	1	3
16	25	0	2	0	2	0	4
16	26	0	0	0	2	2	3
16	26	0	1	0	1	1	4
16	26	0	2	0	0	0	5

```
FindInstance[n[1] ≥ 0 && n[2] ≥ 0 && n[3] ≥ 0 && n[4] ≥ 0 && n[5] ≥ 0 && n[6] ≥ 0 &&
  n[7] ≥ 0 && n[8] ≥ 0 && Array[n, 8].A9refined == g[9], Array[n, 8], Integers]
{{n[1] → 14, n[2] → 25, n[3] → 0, n[4] → 0, n[5] → 2, n[6] → 6, n[7] → 2, n[8] → 0}}
```

1, 2, 5, 6, 7

```
FindInstance[n[1] == 0 && n[2] ≥ 0 && n[3] ≥ 0 && n[4] ≥ 0 && n[5] ≥ 0 && n[6] ≥ 0 &&
  n[7] ≥ 0 && n[8] ≥ 0 && Array[n, 8].A9refined == g[9], Array[n, 8], Integers]
{}
```

```
FindInstance[n[1] ≥ 0 && n[2] == 0 && n[3] ≥ 0 && n[4] ≥ 0 && n[5] ≥ 0 && n[6] ≥ 0 &&
  n[7] ≥ 0 && n[8] ≥ 0 && Array[n, 8].A9refined == g[9], Array[n, 8], Integers]
{}
```

```
FindInstance[n[1] ≥ 0 && n[2] ≥ 0 && n[3] ≥ 0 && n[4] ≥ 0 && n[5] == 0 && n[6] ≥ 0 &&
  n[7] ≥ 0 && n[8] ≥ 0 && Array[n, 8].A9refined == g[9], Array[n, 8], Integers]
{{n[1] → 15, n[2] → 23, n[3] → 1, n[4] → 0, n[5] → 0, n[6] → 9, n[7] → 1, n[8] → 0}}
```

```
FindInstance[n[1] ≥ 0 && n[2] ≥ 0 && n[3] ≥ 0 && n[4] ≥ 0 && n[5] ≥ 0 && n[6] == 0 &&
  n[7] ≥ 0 && n[8] ≥ 0 && Array[n, 8].A9refined == g[9], Array[n, 8], Integers]
{{n[1] → 16, n[2] → 26, n[3] → 0, n[4] → 2, n[5] → 0, n[6] → 0, n[7] → 0, n[8] → 5}}
```

```
FindInstance[n[1] ≥ 0 && n[2] ≥ 0 && n[3] ≥ 0 && n[4] ≥ 0 && n[5] ≥ 0 && n[6] ≥ 0 &&
  n[7] == 0 && n[8] ≥ 0 && Array[n, 8].A9refined == g[9], Array[n, 8], Integers]
{{n[1] → 14, n[2] → 23, n[3] → 0, n[4] → 2, n[5] → 2, n[6] → 8, n[7] → 0, n[8] → 0}}
```

```
anglesq9refined = anglesq[9][{2, 4, 6, 9, 10, 13, 16, 17}];
```

```
anglesq9refined // MatrixForm
```

$$\begin{pmatrix} \frac{12851}{19656} & \frac{1}{18} & \frac{1}{65} & \frac{1}{7} & \frac{1}{8} & \frac{1}{135} \\ \frac{536}{819} & 0 & \frac{1}{65} & \frac{2}{7} & 0 & \frac{2}{45} \\ \frac{1829}{2808} & \frac{1}{18} & \frac{9}{65} & 0 & \frac{1}{8} & \frac{4}{135} \\ \frac{178}{273} & 0 & \frac{9}{65} & \frac{1}{7} & 0 & \frac{1}{15} \\ \frac{607}{936} & \frac{1}{6} & \frac{1}{65} & 0 & \frac{1}{8} & \frac{2}{45} \\ \frac{1595}{2457} & \frac{1}{9} & \frac{1}{65} & \frac{1}{7} & 0 & \frac{11}{135} \\ \frac{227}{351} & \frac{1}{9} & \frac{9}{65} & 0 & 0 & \frac{14}{135} \\ \frac{226}{351} & \frac{2}{9} & \frac{1}{65} & 0 & 0 & \frac{16}{135} \end{pmatrix}$$

```
orderedroots[Minipoly[(-13 + x)^2 (-11 + x)^2 (-9 + x)^10 (-8 + x) (-7 + x)^2 (5 + x)^32]]
{-5, 7, 8, 9, 11, 13}
```

```
coeff[(-13 + x)^2 (-11 + x)^2 (-9 + x)^10 (-8 + x) (-7 + x)^2 (5 + x)^32, (x + 5) (x - 13)]
{-72, -65, -56, -32}
```

```
combination[{-72, -65, -56, -32}, {2, 8}, {2, 3, 4, 5}, anglesq9refined]
{-1, -1, -1, -1, 1, 1, 1, 1}
```

```
combination[{144, 65, -64}, {7, 2}, {2, 3, 5}, anglesq9refined]
{3, 3, -3, -3}
```

```
coeff[(-13 + x)^2 (-11 + x)^2 (-9 + x)^10 (-8 + x) (-7 + x)^2 (5 + x)^32,
  (x + 5) (x - 9) (x - 11) (x - 13)]
{-576, -195}
```

```
combination[{-576, -195}, {2, 3}, {2, 3}, anglesq9refined]
{-9, 9}
```

```
2 * 49 + 2 * 121
```

```
340
```

26 * 25

650

650 - 565

85

22 * 21

462

feasiblecharpolylist[16, (x - 11) ^ 2]

Solve::nddc : The system $(194 + 66 i) + 4 x (144 + 156 x + 91 x^2) = 0$ contains a nonreal constant $194 + 66 i$. With the domain Reals specified, all constants should be real. >>

Solve::nddc : The system $(193 + 65 i) + 4 x (144 + 156 x + 91 x^2) = 0$ contains a nonreal constant $193 + 65 i$. With the domain Reals specified, all constants should be real. >>

Solve::nddc : The system $(194 - 65 i) + 4 x (144 + 156 x + 91 x^2) = 0$ contains a nonreal constant $194 - 65 i$. With the domain Reals specified, all constants should be real. >>

General::stop : Further output of Solve::nddc will be suppressed during this calculation. >>

Min::nord : Invalid comparison with $-193 + 66 i$ attempted. >>

Min::nord : Invalid comparison with $-193 - 65 i$ attempted. >>

Min::nord : Invalid comparison with $-194 - 66 i$ attempted. >>

General::stop : Further output of Min::nord will be suppressed during this calculation. >>

Max::nord : Invalid comparison with $-194 + 65 i$ attempted. >>

Max::nord : Invalid comparison with $-194 - 66 i$ attempted. >>

Max::nord : Invalid comparison with $-193 - 65 i$ attempted. >>

General::stop : Further output of Max::nord will be suppressed during this calculation. >>

{ }

```
feasiblecharpolylist[22, (x + 5) ^ 5 (x - 7) ^ 2 (x - 11) ^ 2]
```

Solve::nddc : The system $(-11 + 13 i) + 22 x (4 - 6 x + 13 x^2) = 0$ contains a nonreal constant $-11 + 13 i$. With the domain Reals specified, all constants should be real. >>

Solve::nddc : The system $(-12 + 12 i) + 22 x (4 - 6 x + 13 x^2) = 0$ contains a nonreal constant $-12 + 12 i$. With the domain Reals specified, all constants should be real. >>

Solve::nddc : The system $(-11 - 12 i) + 22 x (4 - 6 x + 13 x^2) = 0$ contains a nonreal constant $-11 - 12 i$. With the domain Reals specified, all constants should be real. >>

General::stop : Further output of Solve::nddc will be suppressed during this calculation. >>

Min::nord : Invalid comparison with $12 + 13 i$ attempted. >>

Min::nord : Invalid comparison with $12 - 12 i$ attempted. >>

Min::nord : Invalid comparison with $11 - 13 i$ attempted. >>

General::stop : Further output of Min::nord will be suppressed during this calculation. >>

Max::nord : Invalid comparison with $11 + 12 i$ attempted. >>

Max::nord : Invalid comparison with $11 - 13 i$ attempted. >>

Max::nord : Invalid comparison with $12 - 12 i$ attempted. >>

General::stop : Further output of Max::nord will be suppressed during this calculation. >>

```
{ }
```

```
feasiblecharpolylist[23, (x + 5) ^ 6 (x - 7) ^ 2 (x - 11) ^ 2] *  
(x + 5) ^ 6 (x - 7) ^ 2 (x - 11) ^ 2 // Factor
```

```
{ (-11 + x) ^ 2 (-7 + x) ^ 2 (-2 + x) (-1 + x) ^ 2 (1 + x) ^ 10 (5 + x) ^ 6,  
  (-11 + x) ^ 2 (-7 + x) ^ 2 (-1 + x) ^ 4 (1 + x) ^ 8 (2 + x) (5 + x) ^ 6 }
```

```
feasibleinterlacingpolylist[(-11 + x) ^ 2 (-7 + x) ^ 2 (-2 + x) (-1 + x) ^ 2 (1 + x) ^ 10 (5 + x) ^ 6]
```

```
{ (-7 + x) (-1 + x) (1 + x) (-21 - 8 x + x^2),  
  (1 + x) (-25 - 8 x + x^2) (11 - 8 x + x^2), (1 + x) (19 - 12 x + x^2) (-17 - 4 x + x^2),  
  ... 1702 ... , 437 - 739 x + 250 x^2 + 34 x^3 - 15 x^4 + x^5,  
  (-7 + x) (-1 + x) (67 - 29 x - 7 x^2 + x^3), (-7 + x) (-1 + x) (75 - 29 x - 7 x^2 + x^3) }
```

[large output](#)
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[show all](#)
[set si](#)
[ze limit...](#)

feasiblecharpolylist[24, (x + 5) ^ 7 (x - 7) ^ 2 (x - 11) ^ 2]

$$\left\{ \begin{aligned} &(-5+x)(-1+x)^3(1+x)^9, (-3+x)^3(1+x)^{10}, (-3+x)^2(-1+x)^3(1+x)^7(3+x), \\ &(-3+x)(-1+x)^6(1+x)^4(3+x)^2, (-1+x)^9(1+x)(3+x)^3, (-1+x)^8(1+x)^4(5+x), \\ &(-1+x)^6(1+x)^5(-11+2x+x^2), (-3+x)(-1+x)^4(1+x)^6(-7+2x+x^2), \\ &(-1+x)^7(1+x)^3(3+x)(-7+2x+x^2), (-3+x)(-1+x)(1+x)^9(-1-4x+x^2), \\ &(-1+x)^4(1+x)^6(3+x)(-1-4x+x^2), (-1+x)^4(1+x)^7(-11-2x+x^2), \\ &(-3+x)(-1+x)^2(1+x)^8(-7-2x+x^2), (-1+x)^5(1+x)^5(3+x)(-7-2x+x^2), \\ &(-1+x)^5(1+x)^6(-13+x^2), (-3+x)^2(-1+x)(1+x)^8(-5+x^2), \\ &(-3+x)(-1+x)^4(1+x)^5(3+x)(-5+x^2), (-1+x)^7(1+x)^2(3+x)^2(-5+x^2), \\ &(-1+x)^5(1+x)^4(-5+x^2)(-7+2x+x^2), (-1+x)^2(1+x)^7(-5+x^2)(-1-4x+x^2), \\ &(-1+x)^3(1+x)^6(-5+x^2)(-7-2x+x^2), (-3+x)(-1+x)^2(1+x)^6(-5+x^2)^2, \\ &(-1+x)^5(1+x)^3(3+x)(-5+x^2)^2, (-1+x)^3(1+x)^4(-5+x^2)^3, \\ &(-3+x)(-1+x)^5(1+x)^5(-1+4x+x^2), (-1+x)^8(1+x)^2(3+x)(-1+4x+x^2), \\ &(-1+x)^6(1+x)^3(-5+x^2)(-1+4x+x^2), (-1+x)^6(1+x)^4(-19-9x+3x^2+x^3), \\ &(-1+x)^6(1+x)^4(-3-9x+3x^2+x^3), (-1+x)^2(1+x)^8(13-x-5x^2+x^3), \\ &(-1+x)^3(1+x)^7(3-9x-3x^2+x^3), (-1+x)^3(1+x)^7(19-9x-3x^2+x^3), \\ &(-1+x)^4(1+x)^6(5-13x-x^2+x^3), (-3+x)(-1+x)^2(1+x)^7(1-9x-x^2+x^3), \\ &(-1+x)^5(1+x)^4(3+x)(1-9x-x^2+x^3), (-1+x)^3(1+x)^5(-5+x^2)(1-9x-x^2+x^3), \\ &(-1+x)^5(1+x)^5(-5-13x+x^2+x^3), (-3+x)(-1+x)^3(1+x)^6(-1-9x+x^2+x^3), \\ &(-1+x)^6(1+x)^3(3+x)(-1-9x+x^2+x^3), (-1+x)^4(1+x)^4(-5+x^2)(-1-9x+x^2+x^3), \\ &(-1+x)^7(1+x)^3(-13-x+5x^2+x^3), (-1+x)^3(1+x)^6(11+18x-12x^2-2x^3+x^4), \\ &(-1+x)^4(1+x)^5(29-14x^2+x^4), (-1+x)^5(1+x)^4(11-18x-12x^2+2x^3+x^4) \end{aligned} \right\}$$

last14[[10]]

$$(-13+x)^2(-9+x)^{13}(5+x)^{32}(64-17x+x^2)$$

```
list[10] = {(-13 + x) (-267 + 135 x - 21 x^2 + x^3), (-11 + x) (-317 + 155 x - 23 x^2 + x^3),
  3503 - 2022 x + 408 x^2 - 34 x^3 + x^4, (-13 + x) (-7 + x) (37 - 14 x + x^2),
  3383 - 2014 x + 408 x^2 - 34 x^3 + x^4, (-11 + x) (-309 + 155 x - 23 x^2 + x^3),
  3415 - 2014 x + 408 x^2 - 34 x^3 + x^4, (-13 + x) (-251 + 135 x - 21 x^2 + x^3),
  3279 - 2006 x + 408 x^2 - 34 x^3 + x^4, 3295 - 2006 x + 408 x^2 - 34 x^3 + x^4,
  (-11 + x) (-7 + x) (43 - 16 x + x^2), (-13 + x) (-9 + x)^2 (-3 + x),
  3175 - 1998 x + 408 x^2 - 34 x^3 + x^4, 3191 - 1998 x + 408 x^2 - 34 x^3 + x^4,
  3207 - 1998 x + 408 x^2 - 34 x^3 + x^4, (-11 + x) (-293 + 155 x - 23 x^2 + x^3),
  (-9 + x) (-343 + 183 x - 25 x^2 + x^3), 3103 - 1990 x + 408 x^2 - 34 x^3 + x^4,
  3119 - 1990 x + 408 x^2 - 34 x^3 + x^4, (-11 + x) (-3 + x) (95 - 20 x + x^2),
  (-9 + x) (-335 + 183 x - 25 x^2 + x^3), 3031 - 1982 x + 408 x^2 - 34 x^3 + x^4,
  (-11 + x) (-277 + 155 x - 23 x^2 + x^3), (-9 + x) (-327 + 183 x - 25 x^2 + x^3),
  (-11 + x) (-269 + 155 x - 23 x^2 + x^3), (-11 + x) (-9 + x) (29 - 14 x + x^2)};
```

```
A[10] = {
  {3471 -2022 408 -34 1}
  {3487 -2022 408 -34 1}
  {3503 -2022 408 -34 1}
  {3367 -2014 408 -34 1}
  {3383 -2014 408 -34 1}
  {3399 -2014 408 -34 1}
  {3415 -2014 408 -34 1}
  {3263 -2006 408 -34 1}
  {3279 -2006 408 -34 1}
  {3295 -2006 408 -34 1}
  {3311 -2006 408 -34 1}
  {3159 -1998 408 -34 1}
  {3175 -1998 408 -34 1}
  {3191 -1998 408 -34 1}
  {3207 -1998 408 -34 1}
  {3223 -1998 408 -34 1}
  {3087 -1990 408 -34 1}
  {3103 -1990 408 -34 1}
  {3119 -1990 408 -34 1}
  {3135 -1990 408 -34 1}
  {3015 -1982 408 -34 1}
  {3031 -1982 408 -34 1}
  {3047 -1982 408 -34 1}
  {2943 -1974 408 -34 1}
  {2959 -1974 408 -34 1}
  {2871 -1966 408 -34 1}
};
```

```
Dimensions[A[10]]
```

```
{26, 5}
```

```
g[10] = CoefficientList[D[last14[[10]], x] / mu[last14[[10]]] // Factor, x]
```

```
{169831, -98926, 19992, -1666, 49}
```

$$\text{anglesq}[10] = \left(\begin{array}{ccccc} \frac{398}{609} & \frac{253-25\sqrt{33}}{3828} & \frac{3}{14} & \frac{253+25\sqrt{33}}{3828} & 0 \\ \frac{512}{783} & \frac{9}{232} - \frac{83}{696\sqrt{33}} & \frac{1}{4} & \frac{9}{232} + \frac{83}{696\sqrt{33}} & \frac{1}{54} \\ \frac{3586}{5481} & \frac{1}{87} - \frac{2}{87\sqrt{33}} & \frac{2}{7} & \frac{1}{87} + \frac{2}{87\sqrt{33}} & \frac{1}{27} \\ \frac{132}{203} & \frac{1}{319} (33 - 2\sqrt{33}) & \frac{1}{7} & \frac{1}{319} (33 + 2\sqrt{33}) & 0 \\ \frac{3566}{5481} & \frac{159-7\sqrt{33}}{2088} & \frac{5}{28} & \frac{159+7\sqrt{33}}{2088} & \frac{1}{54} \\ \frac{3568}{5481} & \frac{561-5\sqrt{33}}{11484} & \frac{3}{14} & \frac{561+5\sqrt{33}}{11484} & \frac{1}{27} \\ \frac{170}{261} & \frac{165+19\sqrt{33}}{7656} & \frac{1}{4} & \frac{165-19\sqrt{33}}{7656} & \frac{1}{18} \\ \frac{394}{609} & \frac{539-23\sqrt{33}}{3828} & \frac{1}{14} & \frac{539+23\sqrt{33}}{3828} & 0 \\ \frac{3548}{5481} & \frac{79}{696} - \frac{71}{696\sqrt{33}} & \frac{3}{28} & \frac{79}{696} + \frac{71}{696\sqrt{33}} & \frac{1}{54} \\ \frac{3550}{5481} & \frac{5}{58} - \frac{1}{174\sqrt{33}} & \frac{1}{7} & \frac{495+\sqrt{33}}{5742} & \frac{1}{27} \\ \frac{1184}{1827} & \frac{451+21\sqrt{33}}{7656} & \frac{5}{28} & \frac{451-21\sqrt{33}}{7656} & \frac{1}{18} \\ \frac{56}{87} & \frac{1}{174} (31 - \sqrt{33}) & 0 & \frac{1}{174} (31 + \sqrt{33}) & 0 \\ \frac{3530}{5481} & \frac{35}{232} - \frac{65}{696\sqrt{33}} & \frac{1}{28} & \frac{5(693+13\sqrt{33})}{22968} & \frac{1}{54} \\ \frac{3532}{5481} & \frac{1419+\sqrt{33}}{11484} & \frac{1}{14} & \frac{43}{348} - \frac{1}{348\sqrt{33}} & \frac{1}{27} \\ \frac{1178}{1827} & \frac{737+23\sqrt{33}}{7656} & \frac{3}{28} & \frac{737-23\sqrt{33}}{7656} & \frac{1}{18} \\ \frac{3536}{5481} & \frac{2}{29} + \frac{17}{87\sqrt{33}} & \frac{1}{7} & \frac{2}{29} - \frac{17}{87\sqrt{33}} & \frac{2}{27} \\ \frac{502}{783} & \frac{462+\sqrt{33}}{2871} & 0 & \frac{14}{87} - \frac{1}{87\sqrt{33}} & \frac{1}{27} \\ \frac{1172}{1827} & \frac{1023+25\sqrt{33}}{7656} & \frac{1}{28} & \frac{1023-25\sqrt{33}}{7656} & \frac{1}{18} \\ \frac{3518}{5481} & \frac{37}{348} + \frac{71}{348\sqrt{33}} & \frac{1}{14} & \frac{37}{348} - \frac{71}{348\sqrt{33}} & \frac{2}{27} \\ \frac{3520}{5481} & \frac{165+19\sqrt{33}}{2088} & \frac{3}{28} & \frac{165-19\sqrt{33}}{2088} & \frac{5}{54} \\ \frac{500}{783} & \frac{825+37\sqrt{33}}{5742} & 0 & \frac{825-37\sqrt{33}}{5742} & \frac{2}{27} \\ \frac{3502}{5481} & \frac{27}{232} + \frac{215}{696\sqrt{33}} & \frac{1}{28} & \frac{27}{232} - \frac{215}{696\sqrt{33}} & \frac{5}{54} \\ \frac{1168}{1827} & \frac{341+47\sqrt{33}}{3828} & \frac{1}{14} & \frac{341-47\sqrt{33}}{3828} & \frac{1}{9} \\ \frac{166}{261} & \frac{1}{957} (121 + 12\sqrt{33}) & 0 & \frac{1}{957} (121 - 12\sqrt{33}) & \frac{1}{9} \\ \frac{3488}{5481} & \frac{23}{232} + \frac{355}{696\sqrt{33}} & \frac{1}{28} & \frac{23}{232} - \frac{355}{696\sqrt{33}} & \frac{7}{54} \\ \frac{496}{783} & \frac{627+107\sqrt{33}}{5742} & 0 & \frac{627-107\sqrt{33}}{5742} & \frac{4}{27} \end{array} \right);$$

$$\text{orderedroots}[\text{minipoly}[(-13+x)^2(-9+x)^{13}(5+x)^{32}(64-17x+x^2)]]$$

$$\left\{-5, \frac{1}{2}(17-\sqrt{33}), 9, \frac{1}{2}(17+\sqrt{33}), 13\right\}$$

last14[[10]]

$$(-13+x)^2(-9+x)^{13}(5+x)^{32}(64-17x+x^2)$$

poly10warranted = list[10][[3]] * mu[last14[[10]]] // Factor

$$(-13+x)(-9+x)^{12}(5+x)^{31}(3503-2022x+408x^2-34x^3+x^4)$$

```
list10refined = list[10][[{3, 4, 7, 10, 20, 26}]] * mu[last14[[10]]] // Factor
```

$$\left\{ \begin{aligned} &(-13+x)^2 (-9+x)^{12} (5+x)^{31} (3503 - 2022x + 408x^2 - 34x^3 + x^4), \\ &(-13+x)^2 (-9+x)^{12} (-7+x) (5+x)^{31} (37 - 14x + x^2), \\ &(-13+x)^2 (-9+x)^{12} (5+x)^{31} (3415 - 2014x + 408x^2 - 34x^3 + x^4), \\ &(-13+x)^2 (-9+x)^{12} (5+x)^{31} (3295 - 2006x + 408x^2 - 34x^3 + x^4), \\ &(-13+x) (-11+x) (-9+x)^{12} (-3+x) (5+x)^{31} (95 - 20x + x^2), \\ &(-13+x) (-11+x) (-9+x)^{13} (5+x)^{31} (29 - 14x + x^2) \end{aligned} \right\}$$

```
anglesq10refined = anglesq[10][[{3, 4, 7, 10, 20, 26}]];
```

```
anglesq10refined // MatrixForm
```

$$\begin{pmatrix} \frac{3586}{5481} & \frac{1}{87} - \frac{2}{87\sqrt{33}} & \frac{2}{7} & \frac{1}{87} + \frac{2}{87\sqrt{33}} & \frac{1}{27} \\ \frac{132}{203} & \frac{1}{319} (33 - 2\sqrt{33}) & \frac{1}{7} & \frac{1}{319} (33 + 2\sqrt{33}) & 0 \\ \frac{170}{261} & \frac{165+19\sqrt{33}}{7656} & \frac{1}{4} & \frac{165-19\sqrt{33}}{7656} & \frac{1}{18} \\ \frac{3550}{5481} & \frac{5}{58} - \frac{1}{174\sqrt{33}} & \frac{1}{7} & \frac{495+\sqrt{33}}{5742} & \frac{1}{27} \\ \frac{3520}{5481} & \frac{165+19\sqrt{33}}{2088} & \frac{3}{28} & \frac{165-19\sqrt{33}}{2088} & \frac{5}{54} \\ \frac{496}{783} & \frac{627+107\sqrt{33}}{5742} & 0 & \frac{627-107\sqrt{33}}{5742} & \frac{4}{27} \end{pmatrix}$$

```
orderedroots[minipoly[(-13+x)^2 (-9+x)^{13} (5+x)^{32} (64-17x+x^2)]]]
```

$$\left\{ -5, \frac{1}{2} (17 - \sqrt{33}), 9, \frac{1}{2} (17 + \sqrt{33}), 13 \right\}$$

```
coeff[(-13+x)^2 (-9+x)^{13} (5+x)^{32} (64-17x+x^2), (x+5) (x-9) (x-13)] // FullSimplify
```

$$\left\{ \frac{3}{2} (67 + 19\sqrt{33}), \frac{3}{2} (67 - 19\sqrt{33}) \right\}$$

$$\begin{pmatrix} \frac{3586}{5481} & \frac{1}{87} - \frac{2}{87\sqrt{33}} & \frac{2}{7} & \frac{1}{87} + \frac{2}{87\sqrt{33}} & \frac{1}{27} \\ \frac{132}{203} & \frac{1}{319} (33 - 2\sqrt{33}) & \frac{1}{7} & \frac{1}{319} (33 + 2\sqrt{33}) & 0 \\ \frac{170}{261} & \frac{165+19\sqrt{33}}{7656} & \frac{1}{4} & \frac{165-19\sqrt{33}}{7656} & \frac{1}{18} \\ \frac{3550}{5481} & \frac{5}{58} - \frac{1}{174\sqrt{33}} & \frac{1}{7} & \frac{495+\sqrt{33}}{5742} & \frac{1}{27} \\ \frac{3520}{5481} & \frac{165+19\sqrt{33}}{2088} & \frac{3}{28} & \frac{165-19\sqrt{33}}{2088} & \frac{5}{54} \\ \frac{496}{783} & \frac{627+107\sqrt{33}}{5742} & 0 & \frac{627-107\sqrt{33}}{5742} & \frac{4}{27} \end{pmatrix}$$

```
(30, 3, 16, 0, 0, 0)
```

[illegible]

```

poly10v = {Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ],
  Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ],
  Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ],
  Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ],
  Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ],
  Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ],
  Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ],
  Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ],
  Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ],
  Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], Sqrt[ $\frac{1}{319} (33 + 2\sqrt{33})$ ],
  Sqrt[ $\frac{1}{319} (33 + 2\sqrt{33})$ ], Sqrt[ $\frac{1}{319} (33 + 2\sqrt{33})$ ], -Sqrt[ $\frac{165 - 19\sqrt{33}}{7656}$ ],
  -Sqrt[ $\frac{165 - 19\sqrt{33}}{7656}$ ], -Sqrt[ $\frac{165 - 19\sqrt{33}}{7656}$ ], -Sqrt[ $\frac{165 - 19\sqrt{33}}{7656}$ ],
  -Sqrt[ $\frac{165 - 19\sqrt{33}}{7656}$ ], -Sqrt[ $\frac{165 - 19\sqrt{33}}{7656}$ ], -Sqrt[ $\frac{165 - 19\sqrt{33}}{7656}$ ],
  -Sqrt[ $\frac{165 - 19\sqrt{33}}{7656}$ ], -Sqrt[ $\frac{165 - 19\sqrt{33}}{7656}$ ], -Sqrt[ $\frac{165 - 19\sqrt{33}}{7656}$ ],
  -Sqrt[ $\frac{165 - 19\sqrt{33}}{7656}$ ], -Sqrt[ $\frac{165 - 19\sqrt{33}}{7656}$ ], -Sqrt[ $\frac{165 - 19\sqrt{33}}{7656}$ ],
  -Sqrt[ $\frac{165 - 19\sqrt{33}}{7656}$ ], -Sqrt[ $\frac{165 - 19\sqrt{33}}{7656}$ ], -Sqrt[ $\frac{165 - 19\sqrt{33}}{7656}$ ]}];

poly10u * poly10v // Total // FullSimplify
 $\sqrt{\frac{11}{87}}$ 

```

$$\frac{3}{2} \left(67 + 19 \sqrt{33} \right) \text{Transpose}[\{\text{poly10u}\}].\{\text{poly10u}\} +$$

$$\frac{3}{2} (67 - 19 \sqrt{33}) \text{Transpose}[\{\text{poly10v}\}].\{\text{poly10v}\} // \text{FullSimplify} // \text{MatrixForm}$$

[illegible]

$$\begin{pmatrix}
 \frac{3586}{5481} & \frac{1}{87} - \frac{2}{87\sqrt{33}} & \frac{2}{7} & \frac{1}{87} + \frac{2}{87\sqrt{33}} & \frac{1}{27} \\
 \frac{132}{203} & \frac{1}{319} \left(33 - 2\sqrt{33} \right) & \frac{1}{7} & \frac{1}{319} \left(33 + 2\sqrt{33} \right) & 0 \\
 \frac{170}{261} & \frac{165+19\sqrt{33}}{7656} & \frac{1}{4} & \frac{165-19\sqrt{33}}{7656} & \frac{1}{18} \\
 \frac{3550}{5481} & \frac{5}{58} - \frac{1}{174\sqrt{33}} & \frac{1}{7} & \frac{495+\sqrt{33}}{5742} & \frac{1}{27} \\
 \frac{3520}{5481} & \frac{165+19\sqrt{33}}{2088} & \frac{3}{28} & \frac{165-19\sqrt{33}}{2088} & \frac{5}{54} \\
 \frac{496}{783} & \frac{627+107\sqrt{33}}{5742} & 0 & \frac{627-107\sqrt{33}}{5742} & \frac{4}{27}
 \end{pmatrix}$$

(33, 1, 12, 3, 0, 0)

$$\begin{aligned} \text{poly10u} = & \left\{ -\sqrt[3]{-\frac{1}{87} - \frac{2}{87\sqrt{33}}}, \right. \\ & -\sqrt[3]{\frac{1}{87} - \frac{2}{87\sqrt{33}}}, -\sqrt[3]{\frac{1}{87} - \frac{2}{87\sqrt{33}}}, \\ & -\sqrt[3]{\frac{1}{87} - \frac{2}{87\sqrt{33}}}, -\sqrt[3]{\frac{1}{87} - \frac{2}{87\sqrt{33}}}, -\sqrt[3]{\frac{1}{87} - \frac{2}{87\sqrt{33}}}, \\ & -\sqrt[3]{\frac{1}{87} - \frac{2}{87\sqrt{33}}}, -\sqrt[3]{\frac{1}{87} - \frac{2}{87\sqrt{33}}}, -\sqrt[3]{\frac{1}{87} - \frac{2}{87\sqrt{33}}}, \\ & -\sqrt[3]{\frac{1}{87} - \frac{2}{87\sqrt{33}}}, -\sqrt[3]{\frac{1}{87} - \frac{2}{87\sqrt{33}}}, -\sqrt[3]{\frac{1}{87} - \frac{2}{87\sqrt{33}}}, \\ & -\sqrt[3]{\frac{1}{87} - \frac{2}{87\sqrt{33}}}, -\sqrt[3]{\frac{1}{87} - \frac{2}{87\sqrt{33}}}, -\sqrt[3]{\frac{1}{87} - \frac{2}{87\sqrt{33}}}, \\ & -\sqrt[3]{\frac{1}{87} - \frac{2}{87\sqrt{33}}}, -\sqrt[3]{\frac{1}{87} - \frac{2}{87\sqrt{33}}}, -\sqrt[3]{\frac{1}{87} - \frac{2}{87\sqrt{33}}}, \\ & -\sqrt[3]{\frac{1}{87} - \frac{2}{87\sqrt{33}}}, -\sqrt[3]{\frac{1}{87} - \frac{2}{87\sqrt{33}}}, -\sqrt[3]{\frac{1}{87} - \frac{2}{87\sqrt{33}}}, \\ & -\sqrt[3]{\frac{1}{87} - \frac{2}{87\sqrt{33}}}, -\sqrt[3]{\frac{1}{87} - \frac{2}{87\sqrt{33}}}, -\sqrt[3]{\frac{1}{87} - \frac{2}{87\sqrt{33}}}, \\ & -\sqrt[3]{\frac{1}{87} - \frac{2}{87\sqrt{33}}}, -\sqrt[3]{\frac{1}{87} - \frac{2}{87\sqrt{33}}}, -\sqrt[3]{\frac{1}{87} - \frac{2}{87\sqrt{33}}}, \\ & -\sqrt[3]{\frac{1}{87} - \frac{2}{87\sqrt{33}}}, -\sqrt[3]{\frac{1}{87} - \frac{2}{87\sqrt{33}}}, -\sqrt[3]{\frac{1}{87} - \frac{2}{87\sqrt{33}}}, \\ & -\sqrt[3]{\frac{165 + 19\sqrt{33}}{7656}}, -\sqrt[3]{\frac{165 + 19\sqrt{33}}{7656}}, -\sqrt[3]{\frac{165 + 19\sqrt{33}}{7656}}, \\ & -\sqrt[3]{\frac{165 + 19\sqrt{33}}{7656}}, -\sqrt[3]{\frac{165 + 19\sqrt{33}}{7656}}, -\sqrt[3]{\frac{165 + 19\sqrt{33}}{7656}}, \\ & -\sqrt[3]{\frac{165 + 19\sqrt{33}}{7656}}, -\sqrt[3]{\frac{165 + 19\sqrt{33}}{7656}}, -\sqrt[3]{\frac{165 + 19\sqrt{33}}{7656}}, \\ & -\sqrt[3]{\frac{165 + 19\sqrt{33}}{7656}}, -\sqrt[3]{\frac{165 + 19\sqrt{33}}{7656}}, -\sqrt[3]{\frac{165 + 19\sqrt{33}}{7656}}, \\ & -\sqrt[3]{\frac{5}{58} - \frac{1}{174\sqrt{33}}}, -\sqrt[3]{\frac{5}{58} - \frac{1}{174\sqrt{33}}}, -\sqrt[3]{\frac{5}{58} - \frac{1}{174\sqrt{33}}} \Bigg\}; \end{aligned}$$

```

poly10v = { -Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], -Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], -Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ],
  -Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], -Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], -Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ],
  -Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], -Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], -Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ],
  -Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], -Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], -Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ],
  -Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], -Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], -Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ],
  -Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], -Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], -Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ],
  -Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], -Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], -Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ],
  -Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], -Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], -Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ],
  -Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], -Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ], -Sqrt[ $\frac{1}{87} + \frac{2}{87\sqrt{33}}$ ],
  Sqrt[ $\frac{1}{319} (33 + 2\sqrt{33})$ ], Sqrt[ $\frac{165 - 19\sqrt{33}}{7656}$ ], Sqrt[ $\frac{165 - 19\sqrt{33}}{7656}$ ],
  Sqrt[ $\frac{165 - 19\sqrt{33}}{7656}$ ], Sqrt[ $\frac{165 - 19\sqrt{33}}{7656}$ ], Sqrt[ $\frac{165 - 19\sqrt{33}}{7656}$ ],
  Sqrt[ $\frac{165 - 19\sqrt{33}}{7656}$ ], Sqrt[ $\frac{165 - 19\sqrt{33}}{7656}$ ], Sqrt[ $\frac{165 - 19\sqrt{33}}{7656}$ ],
  Sqrt[ $\frac{165 - 19\sqrt{33}}{7656}$ ], Sqrt[ $\frac{165 - 19\sqrt{33}}{7656}$ ], Sqrt[ $\frac{165 - 19\sqrt{33}}{7656}$ ],
  Sqrt[ $\frac{165 - 19\sqrt{33}}{7656}$ ], Sqrt[ $\frac{495 + \sqrt{33}}{5742}$ ], Sqrt[ $\frac{495 + \sqrt{33}}{5742}$ ], Sqrt[ $\frac{495 + \sqrt{33}}{5742}$ ]];

poly10u * poly10v // Total // FullSimplify
0

```

[illegible]

$$\text{PolynomialMod}\left[\frac{3}{2} (67 + 19 \sqrt{33}) \text{Transpose}[\{\text{poly10u}\}].\{\text{poly10u}\} + \frac{3}{2} (67 - 19 \sqrt{33}) \text{Transpose}[\{\text{poly10v}\}].\{\text{poly10v}\} // \text{FullSimplify}, 4\right] // \text{MatrixForm}$$
[illegible]

$$\text{coeff}\left[(-13+x)^2 (-9+x)^{13} (5+x)^{32} (64-17x+x^2), (x+5)(x-9)\right] // \text{FullSimplify}$$
$$\left\{ \frac{1}{2} (3 - 13 \sqrt{33}), \frac{1}{2} (3 + 13 \sqrt{33}), 72 \right\}$$
$$\frac{1}{2} (3 - 13 \sqrt{33}) \text{Transpose}[\{\text{poly10u}\}].\{\text{poly10u}\} +$$
$$\frac{1}{2} \left(3 + 13 \sqrt{33} \right) \text{Transpose}[\{\text{poly10v}\}] \cdot \{\text{poly10v}\} // \text{FullSimplify} // \text{MatrixForm}$$
[illegible]

[illegible]

```
poly10a = {Sqrt[1 / 54], Sqrt[1 / 54], 1 / Sqrt[54], Sqrt[1 / 54], Sqrt[1 / 54],  
1 / Sqrt[54], Sqrt[1 / 54], Sqrt[1 / 54], 1 / Sqrt[54], Sqrt[1 / 54], Sqrt[1 / 54],  
1 / Sqrt[54], Sqrt[1 / 54], Sqrt[1 / 54], 1 / Sqrt[54], Sqrt[1 / 54],  
Sqrt[1 / 54], 1 / Sqrt[54], Sqrt[1 / 54], Sqrt[1 / 54], 1 / Sqrt[54],  
Sqrt[1 / 54], Sqrt[1 / 54], 1 / Sqrt[54], Sqrt[1 / 54], Sqrt[1 / 54],  
1 / Sqrt[54], Sqrt[1 / 54], Sqrt[1 / 54], 1 / Sqrt[54], Sqrt[1 / 54],  
Sqrt[1 / 54], 1 / Sqrt[54], 0, 1 / 6, 1 / 6, 1 / 6, 1 / 6, 1 / 6, 1 / 6, 1 / 6,  
1 / 6, 1 / 6, 1 / 6, 1 / 6, 1 / 6, -Sqrt[1 / 54], -Sqrt[1 / 54], -1 / Sqrt[54]};
```

```
poly10b = {Sqrt[1 / 54], Sqrt[1 / 54], 1 / Sqrt[54], Sqrt[1 / 54], Sqrt[1 / 54],  
1 / Sqrt[54], Sqrt[1 / 54], Sqrt[1 / 54], 1 / Sqrt[54], Sqrt[1 / 54], Sqrt[1 / 54],  
1 / Sqrt[54], Sqrt[1 / 54], Sqrt[1 / 54], 1 / Sqrt[54], Sqrt[1 / 54], Sqrt[1 / 54],  
1 / Sqrt[54], Sqrt[1 / 54], Sqrt[1 / 54], 1 / Sqrt[54], Sqrt[1 / 54],  
Sqrt[1 / 54], 1 / Sqrt[54], Sqrt[1 / 54], Sqrt[1 / 54], 1 / Sqrt[54],  
Sqrt[1 / 54], Sqrt[1 / 54], 1 / Sqrt[54], Sqrt[1 / 54], Sqrt[1 / 54],  
1 / Sqrt[54], 0, -1 / 6, -1 / 6, -1 / 6, -1 / 6, -1 / 6, -1 / 6, -1 / 6, -1 / 6,  
-1 / 6, -1 / 6, -1 / 6, -1 / 6, -Sqrt[1 / 54], -Sqrt[1 / 54], -1 / Sqrt[54]};
```

poly10a * poly10b // Total

$$\frac{1}{3} \left(3 - 13 \sqrt{33} \right) \text{Transpose}[\{\text{poly10u}\}] \cdot \{\text{poly10u}\} + \frac{1}{2} \left(3 + 13 \sqrt{33} \right) \text{Transpose}[\{\text{poly10v}\}] \cdot \{\text{poly10v}\} + 72 (\text{Transpose}[\{\text{poly10a}\}] \cdot \{\text{poly10a}\} + \text{Transpose}[\{\text{poly10b}\}] \cdot \{\text{poly10b}\}) //$$

FullSimplify // MatrixForm

[illegible]

```

poly10a = {Sqrt[1 / 54], Sqrt[1 / 54], 1 / Sqrt[54], Sqrt[1 / 54], Sqrt[1 / 54],
  1 / Sqrt[54], Sqrt[1 / 54], Sqrt[1 / 54], 1 / Sqrt[54], Sqrt[1 / 54], Sqrt[1 / 54],
  1 / Sqrt[54], Sqrt[1 / 54], Sqrt[1 / 54], 1 / Sqrt[54], Sqrt[1 / 54],
  Sqrt[1 / 54], 1 / Sqrt[54], Sqrt[1 / 54], Sqrt[1 / 54], 1 / Sqrt[54],
  Sqrt[1 / 54], Sqrt[1 / 54], 1 / Sqrt[54], Sqrt[1 / 54], Sqrt[1 / 54],
  1 / Sqrt[54], Sqrt[1 / 54], Sqrt[1 / 54], 1 / Sqrt[54], Sqrt[1 / 54],
  Sqrt[1 / 54], 1 / Sqrt[54], 0, 1 / 6, 1 / 6, 1 / 6, 1 / 6, 1 / 6, 1 / 6, 1 / 6,
  1 / 6, 1 / 6, 1 / 6, 1 / 6, 1 / 6, 1 / 6, -Sqrt[1 / 54], -Sqrt[1 / 54], -1 / Sqrt[54]};

poly10b = {-Sqrt[1 / 54], -Sqrt[1 / 54], -1 / Sqrt[54], -Sqrt[1 / 54], -Sqrt[1 / 54],
  -1 / Sqrt[54], -Sqrt[1 / 54], -Sqrt[1 / 54], -1 / Sqrt[54], -Sqrt[1 / 54],
  -Sqrt[1 / 54], -1 / Sqrt[54], -Sqrt[1 / 54], -Sqrt[1 / 54], -1 / Sqrt[54],
  -Sqrt[1 / 54], -Sqrt[1 / 54], -1 / Sqrt[54], -Sqrt[1 / 54], -Sqrt[1 / 54],
  -1 / Sqrt[54], -Sqrt[1 / 54], -Sqrt[1 / 54], -1 / Sqrt[54], -Sqrt[1 / 54],
  -Sqrt[1 / 54], -1 / Sqrt[54], -Sqrt[1 / 54], -Sqrt[1 / 54], -1 / Sqrt[54],
  -Sqrt[1 / 54], -Sqrt[1 / 54], -1 / Sqrt[54], 0, 1 / 6, 1 / 6, 1 / 6, 1 / 6, 1 / 6, 1 / 6,
  1 / 6, 1 / 6, 1 / 6, 1 / 6, 1 / 6, 1 / 6, Sqrt[1 / 54], Sqrt[1 / 54], 1 / Sqrt[54]};


$$\frac{1}{2} \left( 3 - 13 \sqrt{33} \right) \text{Transpose}[\{\text{poly10u}\}] \cdot \{\text{poly10u}\} +$$


$$\frac{1}{2} \left( 3 + 13 \sqrt{33} \right) \text{Transpose}[\{\text{poly10v}\}] \cdot \{\text{poly10v}\} +$$

72 (Transpose[{poly10a}] . {poly10a} + Transpose[{poly10b}] . {poly10b}) //
FullSimplify // MatrixForm

```


[illegible]

poly10a * poly10b // Total

$$-\frac{1}{3}$$

$$\begin{pmatrix}
\frac{3586}{5481} & \frac{1}{87} - \frac{2}{87\sqrt{33}} & \frac{2}{7} & \frac{1}{87} + \frac{2}{87\sqrt{33}} & \frac{1}{27} \\
\frac{132}{203} & \frac{1}{319} \left(33 - 2\sqrt{33} \right) & \frac{1}{7} & \frac{1}{319} \left(33 + 2\sqrt{33} \right) & 0 \\
\frac{170}{261} & \frac{165+19\sqrt{33}}{7656} & \frac{1}{4} & \frac{165-19\sqrt{33}}{7656} & \frac{1}{18} \\
\frac{3550}{5481} & \frac{5}{58} - \frac{1}{174\sqrt{33}} & \frac{1}{7} & \frac{495+\sqrt{33}}{5742} & \frac{1}{27} \\
\frac{3520}{5481} & \frac{165+19\sqrt{33}}{2088} & \frac{3}{28} & \frac{165-19\sqrt{33}}{2088} & \frac{5}{54} \\
\frac{496}{783} & \frac{627+107\sqrt{33}}{5742} & 0 & \frac{627-107\sqrt{33}}{5742} & \frac{4}{27}
\end{pmatrix}$$

(34, 2, 11, 1, 1, 0)

[illegible]

[illegible]

poly10u * poly10v // Total // FullSimplify

$$\sqrt{\frac{11}{87}}$$

$$\frac{3}{2} \left(67 + 19 \sqrt{33} \right) \text{Transpose}[\{\text{poly10u}\}].\{\text{poly10u}\} +$$

$$\frac{3}{2} (67 - 19 \sqrt{33}) \text{Transpose}[\{\text{poly10v}\}].\{\text{poly10v}\} // \text{FullSimplify} // \text{MatrixForm}$$

[illegible]

$$\begin{pmatrix}
\frac{3586}{5481} & \frac{1}{87} - \frac{2}{87\sqrt{33}} & \frac{2}{7} & \frac{1}{87} + \frac{2}{87\sqrt{33}} & \frac{1}{27} \\
\frac{132}{203} & \frac{1}{319} \left(33 - 2\sqrt{33} \right) & \frac{1}{7} & \frac{1}{319} \left(33 + 2\sqrt{33} \right) & 0 \\
\frac{170}{261} & \frac{165+19\sqrt{33}}{7656} & \frac{1}{4} & \frac{165-19\sqrt{33}}{7656} & \frac{1}{18} \\
\frac{3550}{5481} & \frac{5}{58} - \frac{1}{174\sqrt{33}} & \frac{1}{7} & \frac{495+\sqrt{33}}{5742} & \frac{1}{27} \\
\frac{3520}{5481} & \frac{165+19\sqrt{33}}{2088} & \frac{3}{28} & \frac{165-19\sqrt{33}}{2088} & \frac{5}{54} \\
\frac{496}{783} & \frac{627+107\sqrt{33}}{5742} & 0 & \frac{627-107\sqrt{33}}{5742} & \frac{4}{27}
\end{pmatrix}$$

(37, 0, 7, 4, 1, 0)

$$\begin{aligned} \text{poly10u} = & \left\{ \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \right. \\ & \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{165 + 19\sqrt{33}}{7656}\right], \text{Sqrt}\left[\frac{165 + 19\sqrt{33}}{7656}\right], \text{Sqrt}\left[\frac{165 + 19\sqrt{33}}{7656}\right], \\ & \text{Sqrt}\left[\frac{165 + 19\sqrt{33}}{7656}\right], \text{Sqrt}\left[\frac{165 + 19\sqrt{33}}{7656}\right], \text{Sqrt}\left[\frac{165 + 19\sqrt{33}}{7656}\right], \\ & \text{Sqrt}\left[\frac{165 + 19\sqrt{33}}{7656}\right], \text{Sqrt}\left[\frac{165 + 19\sqrt{33}}{7656}\right], \text{Sqrt}\left[\frac{165 + 19\sqrt{33}}{7656}\right], \\ & \text{Sqrt}\left[\frac{165 + 19\sqrt{33}}{7656}\right], \text{Sqrt}\left[\frac{5}{58} - \frac{1}{174\sqrt{33}}\right], \text{Sqrt}\left[\frac{5}{58} - \frac{1}{174\sqrt{33}}\right], \\ & \left. \text{Sqrt}\left[\frac{5}{58} - \frac{1}{174\sqrt{33}}\right], \text{Sqrt}\left[\frac{5}{58} - \frac{1}{174\sqrt{33}}\right], -\text{Sqrt}\left[\frac{165 + 19\sqrt{33}}{2088}\right] \right\}; \end{aligned}$$

$$\begin{aligned} \text{poly10v} = & \left\{ \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \right. \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & -\text{Sqrt}\left[\frac{165-19\sqrt{33}}{7656}\right], -\text{Sqrt}\left[\frac{165-19\sqrt{33}}{7656}\right], -\text{Sqrt}\left[\frac{165-19\sqrt{33}}{7656}\right], \\ & -\text{Sqrt}\left[\frac{165-19\sqrt{33}}{7656}\right], -\text{Sqrt}\left[\frac{165-19\sqrt{33}}{7656}\right], -\text{Sqrt}\left[\frac{165-19\sqrt{33}}{7656}\right], \\ & -\text{Sqrt}\left[\frac{165-19\sqrt{33}}{7656}\right], -\text{Sqrt}\left[\frac{495+\sqrt{33}}{5742}\right], -\text{Sqrt}\left[\frac{495+\sqrt{33}}{5742}\right], \\ & \left. -\text{Sqrt}\left[\frac{495+\sqrt{33}}{5742}\right], -\text{Sqrt}\left[\frac{495+\sqrt{33}}{5742}\right], -\text{Sqrt}\left[\frac{165-19\sqrt{33}}{2088}\right] \right\}; \end{aligned}$$

poly10u * poly10v // Total // FullSimplify

0

[illegible]

$$\text{coeff}\left[(-13+x)^2 (-9+x)^{13} (5+x)^{32} (64-17x+x^2), (x+5)(x-9)\right] // \text{FullSimplify}$$
$$\left\{ \frac{1}{2} (3 - 13 \sqrt{33}), \frac{1}{2} (3 + 13 \sqrt{33}), 72 \right\}$$
$$\frac{1}{2} (3 - 13 \sqrt{33}) \text{Transpose}[\{\text{poly10u}\}] \cdot \{\text{poly10u}\} +$$
$$\frac{1}{2} (3 + 13 \sqrt{33}) \text{Transpose}[\{\text{poly10v}\}].\{\text{poly10v}\} // \text{FullSimplify} // \text{MatrixForm}$$
[illegible]

[illegible]

```
FindInstance[a^2 + b^2 == 1 / 27 && x^2 + y^2 == 5 / 54 &&
  x^2 + 41 a^2 + 21 b^2 / 2 == 1 && x * y == (-61 / 2) a * b, {a, b, x, y}, Reals]
{}
```

$$\left(\begin{array}{ccc} \frac{3586}{5481} & \frac{1}{87} - \frac{2}{87\sqrt{33}} & \frac{2}{7} \\ \frac{132}{203} & \frac{1}{319} \left(33 - 2\sqrt{33} \right) & \frac{1}{7} \\ \frac{170}{261} & \frac{165+19\sqrt{33}}{7656} & \frac{1}{4} \\ \frac{3550}{5481} & \frac{5}{58} - \frac{1}{174\sqrt{33}} & \frac{1}{7} \\ \frac{3520}{5481} & \frac{165+19\sqrt{33}}{2088} & \frac{3}{28} \\ \frac{496}{783} & \frac{627+107\sqrt{33}}{5742} & 0 \end{array} \right) \left(\begin{array}{ccc} \frac{1}{87} + \frac{2}{87\sqrt{33}} & \frac{1}{27} & \\ \frac{1}{319} \left(33 + 2\sqrt{33} \right) & 0 & \\ \frac{165-19\sqrt{33}}{7656} & \frac{1}{18} & \\ \frac{495+\sqrt{33}}{5742} & \frac{1}{27} & \\ \frac{165-19\sqrt{33}}{2088} & \frac{5}{54} & \\ \frac{627-107\sqrt{33}}{5742} & \frac{4}{27} & \end{array} \right)$$

(37, 2, 8, 1, 0, 1)

[illegible]

[illegible]

`poly10u * poly10v // Total // FullSimplify`

$$\sqrt{\frac{11}{87}}$$

$$\frac{3}{2} \left(67 + 19 \sqrt{33} \right) \text{Transpose}[\{\text{poly10u}\}] \cdot \{\text{poly10u}\} + \frac{3}{2} \left(67 - 19 \sqrt{33} \right) \text{Transpose}[\{\text{poly10v}\}] \cdot \{\text{poly10v}\} // \text{FullSimplify} // \text{MatrixForm}$$

[illegible]

$$\begin{pmatrix}
 \frac{3586}{5481} & \frac{1}{87} - \frac{2}{87\sqrt{33}} & \frac{2}{7} & \frac{1}{87} + \frac{2}{87\sqrt{33}} & \frac{1}{27} \\
 \frac{132}{203} & \frac{1}{319} \left(33 - 2\sqrt{33} \right) & \frac{1}{7} & \frac{1}{319} \left(33 + 2\sqrt{33} \right) & 0 \\
 \frac{170}{261} & \frac{165+19\sqrt{33}}{7656} & \frac{1}{4} & \frac{165-19\sqrt{33}}{7656} & \frac{1}{18} \\
 \frac{3550}{5481} & \frac{5}{58} - \frac{1}{174\sqrt{33}} & \frac{1}{7} & \frac{495+\sqrt{33}}{5742} & \frac{1}{27} \\
 \frac{3520}{5481} & \frac{165+19\sqrt{33}}{2088} & \frac{3}{28} & \frac{165-19\sqrt{33}}{2088} & \frac{5}{54} \\
 \frac{496}{783} & \frac{627+107\sqrt{33}}{5742} & 0 & \frac{627-107\sqrt{33}}{5742} & \frac{4}{27}
 \end{pmatrix}$$

(38, 1, 6, 2, 2, 0)

[illegible]

[illegible]

`poly10u * poly10v // Total // FullSimplify`

$$\sqrt{\frac{11}{87}}$$

[illegible]

$$\begin{pmatrix}
 \frac{3586}{5481} & \frac{1}{87} - \frac{2}{87\sqrt{33}} & \frac{2}{7} & \frac{1}{87} + \frac{2}{87\sqrt{33}} & \frac{1}{27} \\
 \frac{132}{203} & \frac{1}{319} \left(33 - 2\sqrt{33} \right) & \frac{1}{7} & \frac{1}{319} \left(33 + 2\sqrt{33} \right) & 0 \\
 \frac{170}{261} & \frac{165+19\sqrt{33}}{7656} & \frac{1}{4} & \frac{165-19\sqrt{33}}{7656} & \frac{1}{18} \\
 \frac{3550}{5481} & \frac{5}{58} - \frac{1}{174\sqrt{33}} & \frac{1}{7} & \frac{495+\sqrt{33}}{5742} & \frac{1}{27} \\
 \frac{3520}{5481} & \frac{165+19\sqrt{33}}{2088} & \frac{3}{28} & \frac{165-19\sqrt{33}}{2088} & \frac{5}{54} \\
 \frac{496}{783} & \frac{627+107\sqrt{33}}{5742} & 0 & \frac{627-107\sqrt{33}}{5742} & \frac{4}{27}
 \end{pmatrix}$$

(39, 2, 5, 0, 3, 0)

$$\begin{aligned} \text{poly10v} = & \left\{ \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \right. \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{319} (33 + 2\sqrt{33})\right], \\ & \text{Sqrt}\left[\frac{1}{319} (33 + 2\sqrt{33})\right], -\text{Sqrt}\left[\frac{165 - 19\sqrt{33}}{7656}\right], -\text{Sqrt}\left[\frac{165 - 19\sqrt{33}}{7656}\right], \\ & -\text{Sqrt}\left[\frac{165 - 19\sqrt{33}}{7656}\right], -\text{Sqrt}\left[\frac{165 - 19\sqrt{33}}{7656}\right], -\text{Sqrt}\left[\frac{165 - 19\sqrt{33}}{7656}\right], \\ & \left. \text{Sqrt}\left[\frac{165 - 19\sqrt{33}}{2088}\right], \text{Sqrt}\left[\frac{165 - 19\sqrt{33}}{2088}\right], \text{Sqrt}\left[\frac{165 - 19\sqrt{33}}{2088}\right] \right\}; \end{aligned}$$

poly10u * poly10v // Total // FullSimplify

$$2\sqrt{\frac{11}{87}}$$

[illegible]

$$\begin{pmatrix}
 \frac{3586}{5481} & \frac{1}{87} - \frac{2}{87\sqrt{33}} & \frac{2}{7} & \frac{1}{87} + \frac{2}{87\sqrt{33}} & \frac{1}{27} \\
 \frac{132}{203} & \frac{1}{319} \left(33 - 2\sqrt{33} \right) & \frac{1}{7} & \frac{1}{319} \left(33 + 2\sqrt{33} \right) & 0 \\
 \frac{170}{261} & \frac{165+19\sqrt{33}}{7656} & \frac{1}{4} & \frac{165-19\sqrt{33}}{7656} & \frac{1}{18} \\
 \frac{3550}{5481} & \frac{5}{58} - \frac{1}{174\sqrt{33}} & \frac{1}{7} & \frac{495+\sqrt{33}}{5742} & \frac{1}{27} \\
 \frac{3520}{5481} & \frac{165+19\sqrt{33}}{2088} & \frac{3}{28} & \frac{165-19\sqrt{33}}{2088} & \frac{5}{54} \\
 \frac{496}{783} & \frac{627+107\sqrt{33}}{5742} & 0 & \frac{627-107\sqrt{33}}{5742} & \frac{4}{27}
 \end{pmatrix}$$

(40, 0, 4, 4, 0, 1)

$$\begin{aligned} \text{poly10u} = & \left\{ \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \right. \\ & \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} - \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{165 + 19\sqrt{33}}{7656}\right], \text{Sqrt}\left[\frac{165 + 19\sqrt{33}}{7656}\right], \text{Sqrt}\left[\frac{165 + 19\sqrt{33}}{7656}\right], \\ & \text{Sqrt}\left[\frac{165 + 19\sqrt{33}}{7656}\right], \text{Sqrt}\left[\frac{5}{58} - \frac{1}{174\sqrt{33}}\right], \text{Sqrt}\left[\frac{5}{58} - \frac{1}{174\sqrt{33}}\right], \\ & \left. \text{Sqrt}\left[\frac{5}{58} - \frac{1}{174\sqrt{33}}\right], \text{Sqrt}\left[\frac{5}{58} - \frac{1}{174\sqrt{33}}\right], \text{Sqrt}\left[\frac{627 + 107\sqrt{33}}{5742}\right] \right\}; \end{aligned}$$

$$\begin{aligned} \text{poly10v} = & \left\{ \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \right. \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & -\text{Sqrt}\left[\frac{165-19\sqrt{33}}{7656}\right], -\text{Sqrt}\left[\frac{165-19\sqrt{33}}{7656}\right], -\text{Sqrt}\left[\frac{165-19\sqrt{33}}{7656}\right], \\ & -\text{Sqrt}\left[\frac{165-19\sqrt{33}}{7656}\right], -\text{Sqrt}\left[\frac{495+\sqrt{33}}{5742}\right], -\text{Sqrt}\left[\frac{495+\sqrt{33}}{5742}\right], \\ & -\text{Sqrt}\left[\frac{495+\sqrt{33}}{5742}\right], -\text{Sqrt}\left[\frac{495+\sqrt{33}}{5742}\right], -\text{Sqrt}\left[\frac{627-107\sqrt{33}}{5742}\right] \}; \end{aligned}$$

poly10u * poly10v // Total // FullSimplify

0

$$\frac{3}{2} \left(67 + 19 \sqrt{33} \right) \text{Transpose}[\{\text{poly10u}\}].\{\text{poly10u}\} + \frac{3}{2} \left(67 - 19 \sqrt{33} \right) \text{Transpose}[\{\text{poly10v}\}].\{\text{poly10v}\} // \text{FullSimplify} // \text{MatrixForm}$$

[illegible]

```
coeff[(-13 + x)^2 (-9 + x)^13 (5 + x)^32 (64 - 17 x + x^2), (x + 5) (x - 13)] // FullSimplify
```

$$\left\{-\frac{3}{2} (35 + 3 \sqrt{33}), -56, \frac{3}{2} (-35 + 3 \sqrt{33})\right\}$$

$$-\frac{3}{2} (35 + 3 \sqrt{33}) \operatorname{Sqrt}\left[\frac{1}{87} - \frac{2}{87 \sqrt{33}}\right] \operatorname{Sqrt}\left[\frac{627 + 107 \sqrt{33}}{5742}\right] -$$

$$\frac{3}{2} (-35 + 3 \sqrt{33}) \operatorname{Sqrt}\left[\frac{1}{87} + \frac{2}{87 \sqrt{33}}\right] \operatorname{Sqrt}\left[\frac{627 - 107 \sqrt{33}}{5742}\right] // \text{FullSimplify}$$

-3

$$-\frac{3}{2} (35 + 3 \sqrt{33}) \operatorname{Sqrt}\left[\frac{165 + 19 \sqrt{33}}{7656}\right] \operatorname{Sqrt}\left[\frac{627 + 107 \sqrt{33}}{5742}\right] +$$

$$\frac{3}{2} (-35 + 3 \sqrt{33}) \operatorname{Sqrt}\left[\frac{165 - 19 \sqrt{33}}{7656}\right] \operatorname{Sqrt}\left[\frac{627 - 107 \sqrt{33}}{5742}\right] // \text{FullSimplify}$$

-7

$$-\frac{3}{2} (35 + 3 \sqrt{33}) \operatorname{Sqrt}\left[\frac{5}{58} - \frac{1}{174 \sqrt{33}}\right] \operatorname{Sqrt}\left[\frac{627 + 107 \sqrt{33}}{5742}\right] +$$

$$\frac{3}{2} (-35 + 3 \sqrt{33}) \operatorname{Sqrt}\left[\frac{495 + \sqrt{33}}{5742}\right] \operatorname{Sqrt}\left[\frac{627 - 107 \sqrt{33}}{5742}\right] // \text{FullSimplify}$$

-11

$$-\frac{3}{2} (35 + 3 \sqrt{33}) \operatorname{Sqrt}\left[\frac{627 + 107 \sqrt{33}}{5742}\right] \operatorname{Sqrt}\left[\frac{627 + 107 \sqrt{33}}{5742}\right] +$$

$$\frac{3}{2} (-35 + 3 \sqrt{33}) \operatorname{Sqrt}\left[\frac{627 - 107 \sqrt{33}}{5742}\right] \operatorname{Sqrt}\left[\frac{627 - 107 \sqrt{33}}{5742}\right] // \text{FullSimplify}$$

-17

$$\begin{pmatrix} \frac{3586}{5481} & \frac{1}{87} - \frac{2}{87 \sqrt{33}} & \frac{2}{7} & \frac{1}{87} + \frac{2}{87 \sqrt{33}} & \frac{1}{27} \\ \frac{132}{203} & \frac{1}{319} (33 - 2 \sqrt{33}) & \frac{1}{7} & \frac{1}{319} (33 + 2 \sqrt{33}) & 0 \\ \frac{170}{261} & \frac{165+19 \sqrt{33}}{7656} & \frac{1}{4} & \frac{165-19 \sqrt{33}}{7656} & \frac{1}{18} \\ \frac{3550}{5481} & \frac{5}{58} - \frac{1}{174 \sqrt{33}} & \frac{1}{7} & \frac{495+\sqrt{33}}{5742} & \frac{1}{27} \\ \frac{3520}{5481} & \frac{165+19 \sqrt{33}}{2088} & \frac{3}{28} & \frac{165-19 \sqrt{33}}{2088} & \frac{5}{54} \\ \frac{496}{783} & \frac{627+107 \sqrt{33}}{5742} & 0 & \frac{627-107 \sqrt{33}}{5742} & \frac{4}{27} \end{pmatrix}$$

(41, 1, 3, 2, 1, 1)

$$\begin{aligned} \text{poly}_{10v} = & \left\{ \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \right. \\ & \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \\ & \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \\ & \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \\ & \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \\ & \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \\ & \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \\ & \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \\ & \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \\ & \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \\ & -\sqrt{\frac{165-19\sqrt{33}}{7656}}, -\sqrt{\frac{165-19\sqrt{33}}{7656}}, -\sqrt{\frac{495+\sqrt{33}}{5742}}, \\ & -\sqrt{\frac{495+\sqrt{33}}{5742}}, \sqrt{\frac{165-19\sqrt{33}}{2088}}, -\sqrt{\frac{627-107\sqrt{33}}{5742}} \Bigg\}; \end{aligned}$$

poly10u * poly10v // Total // FullSimplify

$$\sqrt{\frac{11}{87}}$$

[illegible]

$$\begin{pmatrix}
 \frac{3586}{5481} & \frac{1}{87} - \frac{2}{87\sqrt{33}} & \frac{2}{7} & \frac{1}{87} + \frac{2}{87\sqrt{33}} & \frac{1}{27} \\
 \frac{132}{203} & \frac{1}{319} \left(33 - 2\sqrt{33} \right) & \frac{1}{7} & \frac{1}{319} \left(33 + 2\sqrt{33} \right) & 0 \\
 \frac{170}{261} & \frac{165+19\sqrt{33}}{7656} & \frac{1}{4} & \frac{165-19\sqrt{33}}{7656} & \frac{1}{18} \\
 \frac{3550}{5481} & \frac{5}{58} - \frac{1}{174\sqrt{33}} & \frac{1}{7} & \frac{495+\sqrt{33}}{5742} & \frac{1}{27} \\
 \frac{3520}{5481} & \frac{165+19\sqrt{33}}{2088} & \frac{3}{28} & \frac{165-19\sqrt{33}}{2088} & \frac{5}{54} \\
 \frac{496}{783} & \frac{627+107\sqrt{33}}{5742} & 0 & \frac{627-107\sqrt{33}}{5742} & \frac{4}{27}
 \end{pmatrix}$$

(42, 0, 1, 3, 3, 0)

$$\begin{aligned} \text{poly10v} = & \left\{ \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \right. \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & -\text{Sqrt}\left[\frac{165-19\sqrt{33}}{7656}\right], -\text{Sqrt}\left[\frac{495+\sqrt{33}}{5742}\right], -\text{Sqrt}\left[\frac{495+\sqrt{33}}{5742}\right], -\text{Sqrt}\left[\frac{495+\sqrt{33}}{5742}\right], \\ & \left. \text{Sqrt}\left[\frac{165-19\sqrt{33}}{2088}\right], \text{Sqrt}\left[\frac{165-19\sqrt{33}}{2088}\right], \text{Sqrt}\left[\frac{165-19\sqrt{33}}{2088}\right] \right\}; \end{aligned}$$

```
poly10u * poly10v // Total // FullSimplify
```

$$\sqrt{\frac{11}{87}}$$

[illegible]

$$\left(\begin{array}{ccccc} \frac{3586}{5481} & \frac{1}{87} - \frac{2}{87\sqrt{33}} & \frac{2}{7} & \frac{1}{87} + \frac{2}{87\sqrt{33}} & \frac{1}{27} \\ \frac{132}{203} & \frac{1}{319} \left(33 - 2\sqrt{33} \right) & \frac{1}{7} & \frac{1}{319} \left(33 + 2\sqrt{33} \right) & 0 \\ \frac{170}{261} & \frac{165+19\sqrt{33}}{7656} & \frac{1}{4} & \frac{165-19\sqrt{33}}{7656} & \frac{1}{18} \\ \frac{3550}{5481} & \frac{5}{58} - \frac{1}{174\sqrt{33}} & \frac{1}{7} & \frac{495+\sqrt{33}}{5742} & \frac{1}{27} \\ \frac{3520}{5481} & \frac{165+19\sqrt{33}}{2088} & \frac{3}{28} & \frac{165-19\sqrt{33}}{2088} & \frac{5}{54} \\ \frac{496}{783} & \frac{627+107\sqrt{33}}{5742} & 0 & \frac{627-107\sqrt{33}}{5742} & \frac{4}{27} \end{array} \right)$$

(42, 2, 2, 0, 2, 1)

$$\begin{aligned} \text{poly10v} = & \left\{ \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \right. \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \\ & \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{87} + \frac{2}{87\sqrt{33}}\right], \text{Sqrt}\left[\frac{1}{319}(33+2\sqrt{33})\right], \\ & \text{Sqrt}\left[\frac{1}{319}(33+2\sqrt{33})\right], -\text{Sqrt}\left[\frac{165-19\sqrt{33}}{7656}\right], -\text{Sqrt}\left[\frac{165-19\sqrt{33}}{7656}\right], \\ & \left. \text{Sqrt}\left[\frac{165-19\sqrt{33}}{2088}\right], \text{Sqrt}\left[\frac{165-19\sqrt{33}}{2088}\right], -\text{Sqrt}\left[\frac{627-107\sqrt{33}}{5742}\right] \right\}; \end{aligned}$$

`poly10u * poly10v // Total // FullSimplify`

$$2\sqrt{\frac{11}{87}}$$

[illegible]

$$\left(\begin{array}{ccccc} \frac{3586}{5481} & \frac{1}{87} - \frac{2}{87\sqrt{33}} & \frac{2}{7} & \frac{1}{87} + \frac{2}{87\sqrt{33}} & \frac{1}{27} \\ \frac{132}{203} & \frac{1}{319} \left(33 - 2\sqrt{33} \right) & \frac{1}{7} & \frac{1}{319} \left(33 + 2\sqrt{33} \right) & 0 \\ \frac{170}{261} & \frac{165+19\sqrt{33}}{7656} & \frac{1}{4} & \frac{165-19\sqrt{33}}{7656} & \frac{1}{18} \\ \frac{3550}{5481} & \frac{5}{58} - \frac{1}{174\sqrt{33}} & \frac{1}{7} & \frac{495+\sqrt{33}}{5742} & \frac{1}{27} \\ \frac{3520}{5481} & \frac{165+19\sqrt{33}}{2088} & \frac{3}{28} & \frac{165-19\sqrt{33}}{2088} & \frac{5}{54} \\ \frac{496}{783} & \frac{627+107\sqrt{33}}{5742} & 0 & \frac{627-107\sqrt{33}}{5742} & \frac{4}{27} \end{array} \right)$$

(43, 1, 0, 1, 4, 0)

$$\begin{aligned} \text{poly}_{10v} = & \left\{ \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \right. \\ & \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \\ & \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \\ & \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \\ & \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \\ & \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \\ & \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \\ & \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \\ & \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \\ & \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \\ & \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \\ & \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \\ & \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \\ & \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \sqrt{\frac{1}{87} + \frac{2}{87\sqrt{33}}}, \\ & \sqrt{\frac{1}{319}(33+2\sqrt{33})}, -\sqrt{\frac{495+\sqrt{33}}{5742}}, \sqrt{\frac{165-19\sqrt{33}}{2088}}, \\ & \left. \sqrt{\frac{165-19\sqrt{33}}{2088}}, \sqrt{\frac{165-19\sqrt{33}}{2088}}, \sqrt{\frac{165-19\sqrt{33}}{2088}} \right\}; \end{aligned}$$

poly10u * poly10v // Total // FullSimplify

$$2\sqrt{\frac{11}{87}}$$

[illegible]

$$\left(\begin{array}{ccccc} \frac{3586}{5481} & \frac{1}{87} - \frac{2}{87\sqrt{33}} & \frac{2}{7} & \frac{1}{87} + \frac{2}{87\sqrt{33}} & \frac{1}{27} \\ \frac{132}{203} & \frac{1}{319} (33 - 2\sqrt{33}) & \frac{1}{7} & \frac{1}{319} (33 + 2\sqrt{33}) & 0 \\ \frac{170}{261} & \frac{165+19\sqrt{33}}{7656} & \frac{1}{4} & \frac{165-19\sqrt{33}}{7656} & \frac{1}{18} \\ \frac{3550}{5481} & \frac{5}{58} - \frac{1}{174\sqrt{33}} & \frac{1}{7} & \frac{495+\sqrt{33}}{5742} & \frac{1}{27} \\ \frac{3520}{5481} & \frac{165+19\sqrt{33}}{2088} & \frac{3}{28} & \frac{165-19\sqrt{33}}{2088} & \frac{5}{54} \\ \frac{496}{783} & \frac{627+107\sqrt{33}}{5742} & 0 & \frac{627-107\sqrt{33}}{5742} & \frac{4}{27} \end{array} \right)$$

(44, 1, 0, 2, 0, 2)

[illegible]

`poly10u * poly10v // Total // FullSimplify`

$$\sqrt{\frac{11}{87}}$$

[illegible]


```
combination[ $\left\{\frac{1}{2} (27 - \sqrt{33}), 14, \frac{1}{2} (27 + \sqrt{33}), 18\right\}$ ,
  {2, 6}, {2, 3, 4, 5}, anglesq10refined] // FullSimplify
```

```
 $\left\{3 \sqrt{\frac{3}{11}}, 3 \sqrt{\frac{3}{11}}, 1, 1, 3 \sqrt{\frac{3}{11}}, 3 \sqrt{\frac{3}{11}}, 1, 1\right\}$ 
```

```
Array[n, 26] /.
```

```
Solve[n[1] == 0 && n[2] == 0 && n[3] ≥ 0 && n[4] ≥ 0 && n[5] == 0 && n[6] == 0 && n[7] ≥ 0 &&
  n[8] == 0 && n[9] == 0 && n[10] ≥ 0 && n[11] == 0 && n[12] == 0 && n[13] == 0 &&
  n[14] == 0 && n[15] == 0 && n[16] == 0 && n[17] == 0 && n[18] == 0 && n[19] == 0 &&
  n[20] ≥ 0 && n[21] == 0 && n[22] == 0 && n[23] == 0 && n[24] == 0 && n[25] == 0 &&
  n[26] ≥ 0 && Array[n, 26].A[10] == g[10], Array[n, 26], Integers] // MatrixForm
```

```

$$\begin{pmatrix} 0 & 0 & 30 & 3 & 0 & 0 & 16 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 33 & 1 & 0 & 0 & 12 & 0 & 0 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 34 & 2 & 0 & 0 & 11 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 37 & 0 & 0 & 0 & 7 & 0 & 0 & 4 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 37 & 2 & 0 & 0 & 8 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 38 & 1 & 0 & 0 & 6 & 0 & 0 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 2 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 39 & 2 & 0 & 0 & 5 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 40 & 0 & 0 & 0 & 4 & 0 & 0 & 4 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 41 & 1 & 0 & 0 & 3 & 0 & 0 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 42 & 0 & 0 & 0 & 1 & 0 & 0 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 42 & 2 & 0 & 0 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 2 & 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 43 & 1 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 4 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 44 & 1 & 0 & 0 & 0 & 0 & 0 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 2 \end{pmatrix}$$

```

```
coeff[ $(-13 + x)^2 (-9 + x)^{13} (5 + x)^{32} (64 - 17 x + x^2)$ ,  $(x + 5) (x - 9) (x - 13)$ ] //
FullSimplify
```

```
 $\left\{\frac{3}{2} (67 + 19 \sqrt{33}), \frac{3}{2} (67 - 19 \sqrt{33})\right\}$ 
```

```
combination[ $\left\{\frac{3}{2} (67 + 19 \sqrt{33}), \frac{3}{2} (67 - 19 \sqrt{33})\right\}$ ,
  {3, 4}, {2, 4}, anglesq[10]] // FullSimplify
```

```
 $\left\{3, 17 \sqrt{\frac{3}{11}}\right\}$ 
```

```
coeff[ $(-13 + x)^2 (-9 + x)^{13} (5 + x)^{32} (64 - 17 x + x^2)$ ,  $(x + 5) (x - 9)$ ] // FullSimplify
```

```
 $\left\{\frac{1}{2} (3 - 13 \sqrt{33}), \frac{1}{2} (3 + 13 \sqrt{33}), 72\right\}$ 
```

```
combination[ $\left\{\frac{1}{2} (3 - 13 \sqrt{33}), \frac{1}{2} (3 + 13 \sqrt{33}), 72\right\}$ ,  
  {3, 4}, {2, 4, 5}, anglesq[10]] // FullSimplify
```

$$\left\{1, 1, -5 \sqrt{\frac{3}{11}}, -5 \sqrt{\frac{3}{11}}\right\}$$

```
combination[ $\left\{\frac{1}{2} (3 - 13 \sqrt{33}), \frac{1}{2} (3 + 13 \sqrt{33}), 72\right\}$ ,  
  {26, 4}, {2, 4, 5}, anglesq[10]] // FullSimplify
```

$$\left\{-7 \sqrt{\frac{3}{11}}, -7 \sqrt{\frac{3}{11}}, -5, -5\right\}$$

```
coeff[ $(-13 + x)^2 (-9 + x)^{13} (5 + x)^{32} (64 - 17 x + x^2)$ , (x + 5) (x - 13)] // FullSimplify
```

$$\left\{-\frac{3}{2} (35 + 3 \sqrt{33}), -56, \frac{3}{2} (-35 + 3 \sqrt{33})\right\}$$

```
combination[ $\left\{-\frac{3}{2} (35 + 3 \sqrt{33}), -56, \frac{3}{2} (-35 + 3 \sqrt{33})\right\}$ ,  
  {3, 26}, {2, 3, 4}, anglesq[10]] // FullSimplify
```

$$\left\{-\frac{19}{\sqrt{33}}, -3, -\frac{19}{\sqrt{33}}, -3\right\}$$

```
combination[ $\left\{-\frac{3}{2} (35 + 3 \sqrt{33}), -56, \frac{3}{2} (-35 + 3 \sqrt{33})\right\}$ ,  
  {4, 26}, {2, 3, 4}, anglesq[10]] // FullSimplify
```

$$\left\{-19 \sqrt{\frac{3}{11}}, -9, -19 \sqrt{\frac{3}{11}}, -9\right\}$$

```
combination[ $\left\{-\frac{3}{2} (35 + 3 \sqrt{33}), -56, \frac{3}{2} (-35 + 3 \sqrt{33})\right\}$ ,  
  {7, 26}, {2, 3, 4}, anglesq[10]] // FullSimplify
```

$$\left\{-7, -13 \sqrt{\frac{3}{11}}, -7, -13 \sqrt{\frac{3}{11}}\right\}$$

```
combination[ $\left\{-\frac{3}{2} (35 + 3 \sqrt{33}), -56, \frac{3}{2} (-35 + 3 \sqrt{33})\right\}$ ,  
  {10, 26}, {2, 3, 4}, anglesq[10]] // FullSimplify
```

$$\left\{-11, -\frac{59}{\sqrt{33}}, -11, -\frac{59}{\sqrt{33}}\right\}$$

```

combination[{- $\frac{3}{2}$  (35 + 3  $\sqrt{33}$ ), -56,  $\frac{3}{2}$  (-35 + 3  $\sqrt{33}$ )},
  {20, 26}, {2, 3, 4}, anglesq[10]] // FullSimplify
{-7  $\sqrt{\frac{11}{3}}$ , -13, -7  $\sqrt{\frac{11}{3}}$ , -13}

```

```
last14[[11]]
```

```
(-11 + x)3 (-9 + x)12 (5 + x)32 (72 - 19 x + x2)
```

```

list[11] = {3291 - 1966 x + 404 x2 - 34 x3 + x4,
  3307 - 1966 x + 404 x2 - 34 x3 + x4, 3323 - 1966 x + 404 x2 - 34 x3 + x4,
  3339 - 1966 x + 404 x2 - 34 x3 + x4, 3187 - 1958 x + 404 x2 - 34 x3 + x4,
  3203 - 1958 x + 404 x2 - 34 x3 + x4, (87 - 20 x + x2) (37 - 14 x + x2),
  3235 - 1958 x + 404 x2 - 34 x3 + x4, 3251 - 1958 x + 404 x2 - 34 x3 + x4,
  (-11 + x) (-297 + 151 x - 23 x2 + x3), 3083 - 1950 x + 404 x2 - 34 x3 + x4,
  3099 - 1950 x + 404 x2 - 34 x3 + x4, (-7 + x) (-445 + 215 x - 27 x2 + x3),
  3131 - 1950 x + 404 x2 - 34 x3 + x4, 3147 - 1950 x + 404 x2 - 34 x3 + x4,
  3163 - 1950 x + 404 x2 - 34 x3 + x4, (-11 + x) (-289 + 151 x - 23 x2 + x3),
  (-9 + x) (-331 + 179 x - 25 x2 + x3), 2995 - 1942 x + 404 x2 - 34 x3 + x4,
  3011 - 1942 x + 404 x2 - 34 x3 + x4, (-3 + x) (-1009 + 311 x - 31 x2 + x3),
  3043 - 1942 x + 404 x2 - 34 x3 + x4, (-7 + x) (-437 + 215 x - 27 x2 + x3),
  3075 - 1942 x + 404 x2 - 34 x3 + x4, (-11 + x) (-281 + 151 x - 23 x2 + x3),
  (-9 + x) (-323 + 179 x - 25 x2 + x3), 2923 - 1934 x + 404 x2 - 34 x3 + x4,
  2939 - 1934 x + 404 x2 - 34 x3 + x4, 2955 - 1934 x + 404 x2 - 34 x3 + x4,
  2971 - 1934 x + 404 x2 - 34 x3 + x4, 2987 - 1934 x + 404 x2 - 34 x3 + x4,
  (-13 + x) (-11 + x) (-7 + x) (-3 + x), (-9 + x)2 (35 - 16 x + x2),
  2851 - 1926 x + 404 x2 - 34 x3 + x4, 2867 - 1926 x + 404 x2 - 34 x3 + x4,
  2883 - 1926 x + 404 x2 - 34 x3 + x4, (-13 + x) (-223 + 131 x - 21 x2 + x3),
  (-11 + x) (-265 + 151 x - 23 x2 + x3), (-9 + x) (-307 + 179 x - 25 x2 + x3),
  2779 - 1918 x + 404 x2 - 34 x3 + x4, (-13 + x) (-215 + 131 x - 21 x2 + x3),
  2811 - 1918 x + 404 x2 - 34 x3 + x4, (-11 + x) (-257 + 151 x - 23 x2 + x3),
  (-13 + x) (-9 + x) (23 - 12 x + x2), 2707 - 1910 x + 404 x2 - 34 x3 + x4,
  2723 - 1910 x + 404 x2 - 34 x3 + x4, (-11 + x) (-249 + 151 x - 23 x2 + x3),
  (-9 + x) (-291 + 179 x - 25 x2 + x3), 2635 - 1902 x + 404 x2 - 34 x3 + x4,
  (-11 + x) (-241 + 151 x - 23 x2 + x3), (-9 + x) (-283 + 179 x - 25 x2 + x3),
  (-11 + x) (-233 + 151 x - 23 x2 + x3), (-11 + x) (-9 + x) (25 - 14 x + x2)};

```

$$A[11] = \begin{pmatrix} 3291 & -1966 & 404 & -34 & 1 \\ 3307 & -1966 & 404 & -34 & 1 \\ 3323 & -1966 & 404 & -34 & 1 \\ 3339 & -1966 & 404 & -34 & 1 \\ 3187 & -1958 & 404 & -34 & 1 \\ 3203 & -1958 & 404 & -34 & 1 \\ 3219 & -1958 & 404 & -34 & 1 \\ 3235 & -1958 & 404 & -34 & 1 \\ 3251 & -1958 & 404 & -34 & 1 \\ 3267 & -1958 & 404 & -34 & 1 \\ 3083 & -1950 & 404 & -34 & 1 \\ 3099 & -1950 & 404 & -34 & 1 \\ 3115 & -1950 & 404 & -34 & 1 \\ 3131 & -1950 & 404 & -34 & 1 \\ 3147 & -1950 & 404 & -34 & 1 \\ 3163 & -1950 & 404 & -34 & 1 \\ 3179 & -1950 & 404 & -34 & 1 \\ 2979 & -1942 & 404 & -34 & 1 \\ 2995 & -1942 & 404 & -34 & 1 \\ 3011 & -1942 & 404 & -34 & 1 \\ 3027 & -1942 & 404 & -34 & 1 \\ 3043 & -1942 & 404 & -34 & 1 \\ 3059 & -1942 & 404 & -34 & 1 \\ 3075 & -1942 & 404 & -34 & 1 \\ 3091 & -1942 & 404 & -34 & 1 \\ 2907 & -1934 & 404 & -34 & 1 \\ 2923 & -1934 & 404 & -34 & 1 \\ 2939 & -1934 & 404 & -34 & 1 \\ 2955 & -1934 & 404 & -34 & 1 \\ 2971 & -1934 & 404 & -34 & 1 \\ 2987 & -1934 & 404 & -34 & 1 \\ 3003 & -1934 & 404 & -34 & 1 \\ 2835 & -1926 & 404 & -34 & 1 \\ 2851 & -1926 & 404 & -34 & 1 \\ 2867 & -1926 & 404 & -34 & 1 \\ 2883 & -1926 & 404 & -34 & 1 \\ 2899 & -1926 & 404 & -34 & 1 \\ 2915 & -1926 & 404 & -34 & 1 \\ 2763 & -1918 & 404 & -34 & 1 \\ 2779 & -1918 & 404 & -34 & 1 \\ 2795 & -1918 & 404 & -34 & 1 \\ 2811 & -1918 & 404 & -34 & 1 \\ 2827 & -1918 & 404 & -34 & 1 \\ 2691 & -1910 & 404 & -34 & 1 \\ 2707 & -1910 & 404 & -34 & 1 \\ 2723 & -1910 & 404 & -34 & 1 \\ 2739 & -1910 & 404 & -34 & 1 \\ 2619 & -1902 & 404 & -34 & 1 \\ 2635 & -1902 & 404 & -34 & 1 \\ 2651 & -1902 & 404 & -34 & 1 \\ 2547 & -1894 & 404 & -34 & 1 \\ 2563 & -1894 & 404 & -34 & 1 \\ 2475 & -1886 & 404 & -34 & 1 \end{pmatrix} ;$$

Dimensions[A[11]]

{53, 5}

g[11] = CoefficientList[D[last14[11], x] / mu[last14[11]] // Factor, x]

{161451, -96206, 19796, -1666, 49}

$$\text{anglesq}[11] = \left(\begin{array}{ccc} \frac{439}{672} & \frac{1}{64} + \frac{23}{192\sqrt{73}} & \frac{4}{21} \frac{1}{8} - \frac{1}{64} - \frac{23}{192\sqrt{73}} \\ \frac{251}{384} & \frac{7(365+17\sqrt{73})}{168192} & \frac{2}{9} \frac{3}{32} - \frac{7(-365+17\sqrt{73})}{168192} \\ \frac{293}{448} & \frac{1241-19\sqrt{73}}{84096} & \frac{16}{63} \frac{1}{16} - \frac{1241+19\sqrt{73}}{84096} \\ \frac{1759}{2688} & \frac{803-65\sqrt{73}}{56064} & \frac{2}{7} \frac{1}{32} - \frac{803+65\sqrt{73}}{56064} \\ \frac{1747}{2688} & \frac{5621+569\sqrt{73}}{168192} & \frac{8}{63} \frac{5}{32} - \frac{5621-569\sqrt{73}}{168192} \\ \frac{437}{672} & \frac{19}{576} + \frac{103}{576\sqrt{73}} & \frac{10}{63} \frac{1}{8} - \frac{19}{576} - \frac{103}{576\sqrt{73}} \\ \frac{583}{896} & \frac{5(365+17\sqrt{73})}{56064} & \frac{4}{21} \frac{3}{32} - \frac{25}{768} - \frac{85}{768\sqrt{73}} \\ \frac{125}{192} & \frac{2701+49\sqrt{73}}{84096} & \frac{2}{9} \frac{1}{16} - \frac{2701-49\sqrt{73}}{84096} \\ \frac{1751}{2688} & \frac{5329-59\sqrt{73}}{168192} & \frac{16}{63} \frac{1}{32} - \frac{5329+59\sqrt{73}}{168192} \\ \frac{73}{112} & \frac{1}{32} - \frac{3}{32\sqrt{73}} & \frac{2}{7} 0 - \frac{1}{32} + \frac{3}{32\sqrt{73}} \\ \frac{869}{1344} & \frac{4307+431\sqrt{73}}{84096} & \frac{4}{63} \frac{3}{16} - \frac{4307-431\sqrt{73}}{84096} \\ \frac{1739}{2688} & \frac{13}{256} + \frac{235}{768\sqrt{73}} & \frac{2}{21} \frac{5}{32} - \frac{13}{256} - \frac{235}{768\sqrt{73}} \\ \frac{145}{224} & \frac{29}{576} + \frac{137}{576\sqrt{73}} & \frac{8}{63} \frac{1}{8} - \frac{29}{576} - \frac{137}{576\sqrt{73}} \\ \frac{1741}{2688} & \frac{23(365+17\sqrt{73})}{168192} & \frac{10}{63} \frac{3}{32} - \frac{23(-365+17\sqrt{73})}{168192} \\ \frac{871}{1344} & \frac{19}{384} + \frac{13}{128\sqrt{73}} & \frac{4}{21} \frac{1}{16} - \frac{19}{384} - \frac{13}{128\sqrt{73}} \\ \frac{83}{128} & \frac{8249+77\sqrt{73}}{168192} & \frac{2}{9} \frac{1}{32} - \frac{8249-77\sqrt{73}}{168192} \\ \frac{109}{168} & \frac{7}{144} - \frac{5}{144\sqrt{73}} & \frac{16}{63} 0 - \frac{7}{144} + \frac{5}{144\sqrt{73}} \\ \frac{247}{384} & \frac{53}{768} + \frac{385}{768\sqrt{73}} & 0 \frac{7}{32} - \frac{53}{768} - \frac{385}{768\sqrt{73}} \\ \frac{865}{1344} & \frac{5767+499\sqrt{73}}{84096} & \frac{2}{63} \frac{3}{16} - \frac{5767-499\sqrt{73}}{84096} \\ \frac{577}{896} & \frac{11461+841\sqrt{73}}{168192} & \frac{4}{63} \frac{5}{32} - \frac{11461-841\sqrt{73}}{168192} \\ \frac{433}{672} & \frac{13}{192} + \frac{19}{64\sqrt{73}} & \frac{2}{21} \frac{1}{8} - \frac{13}{192} - \frac{19}{64\sqrt{73}} \\ \frac{1733}{2688} & \frac{31(365+17\sqrt{73})}{168192} & \frac{8}{63} \frac{3}{32} - \frac{31(-365+17\sqrt{73})}{168192} \\ \frac{289}{448} & \frac{5621+185\sqrt{73}}{84096} & \frac{10}{63} \frac{1}{16} - \frac{5621-185\sqrt{73}}{84096} \\ \frac{1735}{2688} & \frac{17}{256} + \frac{71}{768\sqrt{73}} & \frac{4}{21} \frac{1}{32} - \frac{17}{256} - \frac{71}{768\sqrt{73}} \\ \frac{31}{48} & \frac{19}{288} + \frac{7}{288\sqrt{73}} & \frac{2}{9} 0 - \frac{19}{288} - \frac{7}{288\sqrt{73}} \\ \frac{41}{64} & \frac{803+63\sqrt{73}}{9344} & 0 \frac{3}{16} - \frac{803-63\sqrt{73}}{9344} \\ \frac{1723}{2688} & \frac{14381+977\sqrt{73}}{168192} & \frac{2}{63} \frac{5}{32} - \frac{14381-977\sqrt{73}}{168192} \\ \frac{431}{672} & \frac{49}{576} + \frac{205}{576\sqrt{73}} & \frac{4}{63} \frac{1}{8} - \frac{49}{576} - \frac{205}{576\sqrt{73}} \\ \frac{575}{896} & \frac{13(365+17\sqrt{73})}{56064} & \frac{2}{21} \frac{3}{32} - \frac{65}{768} - \frac{221}{768\sqrt{73}} \\ \frac{863}{863} & \frac{7081+253\sqrt{73}}{7081+253\sqrt{73}} & \frac{8}{8} \frac{1}{1} - \frac{7081-253\sqrt{73}}{7081-253\sqrt{73}} \end{array} \right);$$

1344	84 096	63	16	84 096
$\frac{1727}{2688}$	$\frac{14\,089+349\sqrt{73}}{168\,192}$	$\frac{10}{63}$	$\frac{1}{32}$	$\frac{14\,089-349\sqrt{73}}{168\,192}$
$\frac{9}{14}$	$\frac{1}{876} (73 + \sqrt{73})$	$\frac{4}{21}$	0	$\frac{1}{876} (73 - \sqrt{73})$
$\frac{245}{384}$	$\frac{79}{768} + \frac{371}{768\sqrt{73}}$	0	$\frac{5}{32}$	$\frac{79}{768} - \frac{371}{768\sqrt{73}}$
$\frac{143}{224}$	$\frac{59}{576} + \frac{239}{576\sqrt{73}}$	$\frac{2}{63}$	$\frac{1}{8}$	$\frac{59}{576} - \frac{239}{576\sqrt{73}}$
$\frac{1717}{2688}$	$\frac{47(365+17\sqrt{73})}{168\,192}$	$\frac{4}{63}$	$\frac{3}{32}$	$-\frac{47(-365+17\sqrt{73})}{168\,192}$
$\frac{859}{1344}$	$\frac{13}{128} + \frac{107}{384\sqrt{73}}$	$\frac{2}{21}$	$\frac{1}{16}$	$\frac{13}{128} - \frac{107}{384\sqrt{73}}$
$\frac{573}{896}$	$\frac{17\,009+485\sqrt{73}}{168\,192}$	$\frac{8}{63}$	$\frac{1}{32}$	$\frac{17\,009-485\sqrt{73}}{168\,192}$
$\frac{215}{336}$	$\frac{29}{288} + \frac{41}{288\sqrt{73}}$	$\frac{10}{63}$	0	$\frac{29}{288} - \frac{41}{288\sqrt{73}}$
$\frac{61}{96}$	$\frac{23}{192} + \frac{91}{192\sqrt{73}}$	0	$\frac{1}{8}$	$\frac{23}{192} - \frac{91}{192\sqrt{73}}$
$\frac{1709}{2688}$	$\frac{55(365+17\sqrt{73})}{168\,192}$	$\frac{2}{63}$	$\frac{3}{32}$	$-\frac{55(-365+17\sqrt{73})}{168\,192}$
$\frac{285}{448}$	$\frac{10\,001+389\sqrt{73}}{84\,096}$	$\frac{4}{63}$	$\frac{1}{16}$	$\frac{10\,001-389\sqrt{73}}{84\,096}$
$\frac{1711}{2688}$	$\frac{91}{768} + \frac{69}{256\sqrt{73}}$	$\frac{2}{21}$	$\frac{1}{32}$	$\frac{91}{768} - \frac{69}{256\sqrt{73}}$
$\frac{107}{168}$	$\frac{17}{144} + \frac{29}{144\sqrt{73}}$	$\frac{8}{63}$	0	$\frac{17}{144} - \frac{29}{144\sqrt{73}}$
$\frac{81}{128}$	$\frac{7(365+17\sqrt{73})}{18\,688}$	0	$\frac{3}{32}$	$\frac{7(365-17\sqrt{73})}{18\,688}$
$\frac{851}{1344}$	$\frac{11\,461+457\sqrt{73}}{84\,096}$	$\frac{2}{63}$	$\frac{1}{16}$	$\frac{11\,461-457\sqrt{73}}{84\,096}$
$\frac{1703}{2688}$	$\frac{22\,849+757\sqrt{73}}{168\,192}$	$\frac{4}{63}$	$\frac{1}{32}$	$\frac{22\,849-757\sqrt{73}}{168\,192}$
$\frac{71}{112}$	$\frac{13}{96} + \frac{25}{96\sqrt{73}}$	$\frac{2}{21}$	0	$\frac{13}{96} - \frac{25}{96\sqrt{73}}$
$\frac{121}{192}$	$\frac{59}{384} + \frac{175}{384\sqrt{73}}$	0	$\frac{1}{16}$	$\frac{59}{384} - \frac{175}{384\sqrt{73}}$
$\frac{565}{896}$	$\frac{25\,769+893\sqrt{73}}{168\,192}$	$\frac{2}{63}$	$\frac{1}{32}$	$\frac{25\,769-893\sqrt{73}}{168\,192}$
$\frac{53}{84}$	$\frac{11}{72} + \frac{23}{72\sqrt{73}}$	$\frac{4}{63}$	0	$\frac{11}{72} - \frac{23}{72\sqrt{73}}$
$\frac{241}{384}$	$\frac{9563+343\sqrt{73}}{56\,064}$	0	$\frac{1}{32}$	$\frac{9563-343\sqrt{73}}{56\,064}$
$\frac{211}{336}$	$\frac{49}{288} + \frac{109}{288\sqrt{73}}$	$\frac{2}{63}$	0	$\frac{49}{288} - \frac{109}{288\sqrt{73}}$
$\frac{5}{8}$	$\frac{3}{16} + \frac{7}{16\sqrt{73}}$	0	0	$\frac{3}{16} - \frac{7}{16\sqrt{73}}$

last14[[11]]

$$(-11+x)^3 (-9+x)^{12} (5+x)^{32} (72-19x+x^2)$$

poly11warranted2tuple = list[11][{3, 4}] * mu[last14[[11]]] // Factor

$$\left\{ (-11+x)^2 (-9+x)^{11} (5+x)^{31} (3323-1966x+404x^2-34x^3+x^4), \right. \\ \left. (-11+x)^2 (-9+x)^{11} (5+x)^{31} (3339-1966x+404x^2-34x^3+x^4) \right\}$$

interlacepoly11compatiblew3 = {3, 10, 41}

{3, 10, 41}

```
FindInstance[n[1] == 0 && n[2] == 0 && n[3] ≥ 0 && n[4] == 0 &&
n[5] == 0 && n[6] == 0 && n[7] == 0 && n[8] == 0 && n[9] == 0 && n[10] ≥ 0 &&
n[11] == 0 && n[12] == 0 && n[13] == 0 && n[14] == 0 && n[15] == 0 && n[16] == 0 &&
n[17] == 0 && n[18] == 0 && n[19] == 0 && n[20] == 0 && n[21] == 0 && n[22] == 0 &&
n[23] == 0 && n[24] == 0 && n[25] == 0 && n[26] == 0 && n[27] == 0 && n[28] == 0 &&
n[29] == 0 && n[30] == 0 && n[31] == 0 && n[32] == 0 && n[33] == 0 && n[34] == 0 &&
n[35] == 0 && n[36] == 0 && n[37] == 0 && n[38] == 0 && n[39] == 0 && n[40] == 0 &&
n[41] ≥ 0 && n[42] == 0 && n[43] == 0 && n[44] == 0 && n[45] == 0 && n[46] == 0 &&
n[47] == 0 && n[48] == 0 && n[49] == 0 && n[50] == 0 && n[51] == 0 && n[52] == 0 &&
n[53] == 0 && Array[n, 53].A[11] == g[11], Array[n, 53], Integers]
```

```
interlacepoly11compatiblew4 = {1, 4, 24, 32}
```

$$\{1, 4, 24, 32\}$$

```
list[11][{1, 4, 24, 32}] * mu[last14[11]] // Factor
```

$$\left\{ \begin{array}{l} (-11+x)^2 (-9+x)^{11} (5+x)^{31} (3291 - 1966x + 404x^2 - 34x^3 + x^4), \\ (-11+x)^2 (-9+x)^{11} (5+x)^{31} (3339 - 1966x + 404x^2 - 34x^3 + x^4), \\ (-11+x)^2 (-9+x)^{11} (5+x)^{31} (3075 - 1942x + 404x^2 - 34x^3 + x^4), \\ (-13+x) (-11+x)^3 (-9+x)^{11} (-7+x) (-3+x) (5+x)^{31} \end{array} \right\}$$

```
Array[n, 53] /. 
```

```
Solve[n[1] ≥ 0 && n[2] == 0 && n[3] == 0 && n[4] ≥ 0 && n[5] == 0 && n[6] == 0 && n[7] == 0 &&
n[8] == 0 && n[9] == 0 && n[10] == 0 && n[11] == 0 && n[12] == 0 && n[13] == 0 &&
n[14] == 0 && n[15] == 0 && n[16] == 0 && n[17] == 0 && n[18] == 0 &&
n[19] == 0 && n[20] == 0 && n[21] == 0 && n[22] == 0 && n[23] == 0 &&
n[24] ≥ 0 && n[25] == 0 && n[26] == 0 && n[27] == 0 && n[28] == 0 && n[29] == 0 &&
n[30] == 0 && n[31] == 0 && n[32] ≥ 0 && n[33] == 0 && n[34] == 0 && n[35] == 0 &&
n[36] == 0 && n[37] == 0 && n[38] == 0 && n[39] == 0 && n[40] == 0 && n[41] == 0 &&
n[42] == 0 && n[43] == 0 && n[44] == 0 && n[45] == 0 && n[46] == 0 && n[47] == 0 &&
n[48] == 0 && n[49] == 0 && n[50] == 0 && n[51] == 0 && n[52] == 0 && n[53] == 0 &&
Array[n, 53].A[11] == g[11], Array[n, 53], Integers] // MatrixForm
```

$$\begin{pmatrix} 16 & 0 & 0 & 28 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 4 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 17 & 0 & 0 & 28 & 0 & 4 & 0 & 0 & 0 & 0 \end{pmatrix}$$

```
anglesq11refined = anglesq[11][1, 4, 24, 32];
```

```
anglesq11refined // MatrixForm
```

$$\left(\begin{array}{ccc} \frac{439}{672} & \frac{1}{64} + \frac{23}{192\sqrt{73}} & \frac{4}{21} \frac{1}{8} \frac{1}{64} - \frac{23}{192\sqrt{73}} \\ \frac{1759}{2688} & \frac{803-65\sqrt{73}}{56\,064} & \frac{2}{7} \frac{1}{32} \frac{803+65\sqrt{73}}{56\,064} \\ \frac{1735}{2688} & \frac{17}{256} + \frac{71}{768\sqrt{73}} & \frac{4}{21} \frac{1}{32} \frac{17}{256} - \frac{71}{768\sqrt{73}} \\ \frac{9}{14} \frac{1}{876} (73 + \sqrt{73}) & & \frac{4}{21} \frac{1}{876} (73 - \sqrt{73}) \end{array} \right)$$

```
orderedroots[minipoly[(-11+x)^3 (-9+x)^12 (5+x)^32 (72-19 x+x^2)]]
```

$$\left\{-5, \frac{1}{2} (19 - \sqrt{73}), 9, 11, \frac{1}{2} (19 + \sqrt{73})\right\}$$

```
coeff[(-11 + x)3 (-9 + x)12 (5 + x)32 (72 - 19 x + x2), (x + 5) (x - 9)] // FullSimplify
```

$$\left\{ \frac{3}{2} (17 - 5 \sqrt{73}), 32, \frac{3}{2} (17 + 5 \sqrt{73}) \right\}$$

```
coeff[(-11 + x)3 (-9 + x)12 (5 + x)32 (72 - 19 x + x2), (x + 5) (x - 9) (x - 11)] //
FullSimplify
```

$$\left\{ -\frac{3}{2} (-157 + \sqrt{73}), \frac{3}{2} (157 + \sqrt{73}) \right\}$$

```
(16, 28, 4, 1)
```


[illegible]

```
orderedroots [ (72 - 19 x + x^2) ]
```

$$\left\{ \frac{1}{2} (19 - \sqrt{73}), \frac{1}{2} (19 + \sqrt{73}) \right\}$$

$$\frac{1}{2} (19 - \sqrt{73}) \operatorname{Sqrt}\left[\frac{1}{876} (73 + \sqrt{73})\right] // \text{FullSimplify}$$

$$\frac{1}{2} \sqrt{33 - \frac{195}{\sqrt{73}}}$$

$$\begin{aligned} \text{poly11v} = & \left\{ \operatorname{Sqrt}\left[\frac{1}{64} - \frac{23}{192 \sqrt{73}}\right], \operatorname{Sqrt}\left[\frac{1}{64} - \frac{23}{192 \sqrt{73}}\right], \right. \\ & \operatorname{Sqrt}\left[\frac{1}{64} - \frac{23}{192 \sqrt{73}}\right], \operatorname{Sqrt}\left[\frac{1}{64} - \frac{23}{192 \sqrt{73}}\right], \operatorname{Sqrt}\left[\frac{1}{64} - \frac{23}{192 \sqrt{73}}\right], \\ & \operatorname{Sqrt}\left[\frac{1}{64} - \frac{23}{192 \sqrt{73}}\right], \operatorname{Sqrt}\left[\frac{1}{64} - \frac{23}{192 \sqrt{73}}\right], \operatorname{Sqrt}\left[\frac{1}{64} - \frac{23}{192 \sqrt{73}}\right], \\ & \operatorname{Sqrt}\left[\frac{1}{64} - \frac{23}{192 \sqrt{73}}\right], \operatorname{Sqrt}\left[\frac{1}{64} - \frac{23}{192 \sqrt{73}}\right], \operatorname{Sqrt}\left[\frac{1}{64} - \frac{23}{192 \sqrt{73}}\right], \\ & \operatorname{Sqrt}\left[\frac{1}{64} - \frac{23}{192 \sqrt{73}}\right], \operatorname{Sqrt}\left[\frac{1}{64} - \frac{23}{192 \sqrt{73}}\right], \operatorname{Sqrt}\left[\frac{803 + 65 \sqrt{73}}{56064}\right], \\ & \operatorname{Sqrt}\left[\frac{803 + 65 \sqrt{73}}{56064}\right], \operatorname{Sqrt}\left[\frac{803 + 65 \sqrt{73}}{56064}\right], \\ & \operatorname{Sqrt}\left[\frac{803 + 65 \sqrt{73}}{56064}\right], \operatorname{Sqrt}\left[\frac{803 + 65 \sqrt{73}}{56064}\right], \operatorname{Sqrt}\left[\frac{803 + 65 \sqrt{73}}{56064}\right], \\ & \operatorname{Sqrt}\left[\frac{803 + 65 \sqrt{73}}{56064}\right], \operatorname{Sqrt}\left[\frac{803 + 65 \sqrt{73}}{56064}\right], \operatorname{Sqrt}\left[\frac{803 + 65 \sqrt{73}}{56064}\right], \\ & \operatorname{Sqrt}\left[\frac{803 + 65 \sqrt{73}}{56064}\right], \operatorname{Sqrt}\left[\frac{803 + 65 \sqrt{73}}{56064}\right], \operatorname{Sqrt}\left[\frac{803 + 65 \sqrt{73}}{56064}\right], \\ & \operatorname{Sqrt}\left[\frac{803 + 65 \sqrt{73}}{56064}\right], \operatorname{Sqrt}\left[\frac{803 + 65 \sqrt{73}}{56064}\right], \operatorname{Sqrt}\left[\frac{803 + 65 \sqrt{73}}{56064}\right], \\ & \operatorname{Sqrt}\left[\frac{803 + 65 \sqrt{73}}{56064}\right], \operatorname{Sqrt}\left[\frac{803 + 65 \sqrt{73}}{56064}\right], \operatorname{Sqrt}\left[\frac{803 + 65 \sqrt{73}}{56064}\right], \\ & \operatorname{Sqrt}\left[\frac{803 + 65 \sqrt{73}}{56064}\right], \operatorname{Sqrt}\left[\frac{803 + 65 \sqrt{73}}{56064}\right], \operatorname{Sqrt}\left[\frac{803 + 65 \sqrt{73}}{56064}\right], \\ & \operatorname{Sqrt}\left[\frac{803 + 65 \sqrt{73}}{56064}\right], \operatorname{Sqrt}\left[\frac{803 + 65 \sqrt{73}}{56064}\right], \operatorname{Sqrt}\left[\frac{803 + 65 \sqrt{73}}{56064}\right], \\ & \operatorname{Sqrt}\left[\frac{803 + 65 \sqrt{73}}{56064}\right], \operatorname{Sqrt}\left[\frac{803 + 65 \sqrt{73}}{56064}\right], \operatorname{Sqrt}\left[\frac{803 + 65 \sqrt{73}}{56064}\right], \\ & -\operatorname{Sqrt}\left[\frac{17}{256} - \frac{71}{768 \sqrt{73}}\right], -\operatorname{Sqrt}\left[\frac{17}{256} - \frac{71}{768 \sqrt{73}}\right], -\operatorname{Sqrt}\left[\frac{17}{256} - \frac{71}{768 \sqrt{73}}\right], \\ & \left. -\operatorname{Sqrt}\left[\frac{17}{256} - \frac{71}{768 \sqrt{73}}\right], \operatorname{Sqrt}\left[\frac{1}{876} (73 - \sqrt{73})\right] \right\}; \end{aligned}$$

[illegible]

```
poly11u * poly11v // Total // Simplify
```

```
0
```

[illegible]

$$\begin{aligned} \text{poly11v} = & \left\{ \sqrt[4]{\frac{1}{64} - \frac{23}{192\sqrt{73}}}, \sqrt[4]{\frac{1}{64} - \frac{23}{192\sqrt{73}}}, \right. \\ & \sqrt[4]{\frac{1}{64} - \frac{23}{192\sqrt{73}}}, \sqrt[4]{\frac{1}{64} - \frac{23}{192\sqrt{73}}}, \sqrt[4]{\frac{1}{64} - \frac{23}{192\sqrt{73}}}, \\ & \sqrt[4]{\frac{1}{64} - \frac{23}{192\sqrt{73}}}, \sqrt[4]{\frac{1}{64} - \frac{23}{192\sqrt{73}}}, \sqrt[4]{\frac{1}{64} - \frac{23}{192\sqrt{73}}}, \\ & \sqrt[4]{\frac{1}{64} - \frac{23}{192\sqrt{73}}}, \sqrt[4]{\frac{1}{64} - \frac{23}{192\sqrt{73}}}, \sqrt[4]{\frac{1}{64} - \frac{23}{192\sqrt{73}}}, \\ & \sqrt[4]{\frac{1}{64} - \frac{23}{192\sqrt{73}}}, \sqrt[4]{\frac{1}{64} - \frac{23}{192\sqrt{73}}}, \sqrt[4]{\frac{1}{64} - \frac{23}{192\sqrt{73}}}, \\ & -\sqrt[4]{\frac{803 + 65\sqrt{73}}{56064}}, -\sqrt[4]{\frac{803 + 65\sqrt{73}}{56064}}, -\sqrt[4]{\frac{803 + 65\sqrt{73}}{56064}}, \\ & -\sqrt[4]{\frac{803 + 65\sqrt{73}}{56064}}, -\sqrt[4]{\frac{803 + 65\sqrt{73}}{56064}}, -\sqrt[4]{\frac{803 + 65\sqrt{73}}{56064}}, \\ & -\sqrt[4]{\frac{803 + 65\sqrt{73}}{56064}}, -\sqrt[4]{\frac{803 + 65\sqrt{73}}{56064}}, -\sqrt[4]{\frac{803 + 65\sqrt{73}}{56064}}, \\ & -\sqrt[4]{\frac{803 + 65\sqrt{73}}{56064}}, -\sqrt[4]{\frac{803 + 65\sqrt{73}}{56064}}, -\sqrt[4]{\frac{803 + 65\sqrt{73}}{56064}}, \\ & -\sqrt[4]{\frac{803 + 65\sqrt{73}}{56064}}, -\sqrt[4]{\frac{803 + 65\sqrt{73}}{56064}}, -\sqrt[4]{\frac{803 + 65\sqrt{73}}{56064}}, \\ & -\sqrt[4]{\frac{803 + 65\sqrt{73}}{56064}}, -\sqrt[4]{\frac{803 + 65\sqrt{73}}{56064}}, -\sqrt[4]{\frac{803 + 65\sqrt{73}}{56064}}, \\ & -\sqrt[4]{\frac{803 + 65\sqrt{73}}{56064}}, -\sqrt[4]{\frac{803 + 65\sqrt{73}}{56064}}, -\sqrt[4]{\frac{803 + 65\sqrt{73}}{56064}}, \\ & -\sqrt[4]{\frac{803 + 65\sqrt{73}}{56064}}, -\sqrt[4]{\frac{803 + 65\sqrt{73}}{56064}}, -\sqrt[4]{\frac{803 + 65\sqrt{73}}{56064}}, \\ & -\sqrt[4]{\frac{803 + 65\sqrt{73}}{56064}}, -\sqrt[4]{\frac{803 + 65\sqrt{73}}{56064}}, -\sqrt[4]{\frac{803 + 65\sqrt{73}}{56064}}, \\ & -\sqrt[4]{\frac{803 + 65\sqrt{73}}{56064}}, -\sqrt[4]{\frac{1}{876}(73 - \sqrt{73})}, -\sqrt[4]{\frac{1}{876}(73 - \sqrt{73})}, \\ & \left. -\sqrt[4]{\frac{1}{876}(73 - \sqrt{73})}, -\sqrt[4]{\frac{1}{876}(73 - \sqrt{73})}\right\}; \end{aligned}$$


```
poly11u * poly11v // Total // FullSimplify
```

$$-\frac{\sqrt{\frac{73}{2}}}{12}$$

```
coeff[(-11 + x)^3 (-9 + x)^12 (5 + x)^32 (72 - 19 x + x^2), (x + 5) (x - 9) (x - 11)] // FullSimplify
```

$$\left\{-\frac{3}{2}(-157 + \sqrt{73}), \frac{3}{2}(157 + \sqrt{73})\right\}$$

```
orderedroots[Minipoly[(-11 + x)^3 (-9 + x)^12 (5 + x)^32 (72 - 19 x + x^2)]]
```

$$\left\{-5, \frac{1}{2}(19 - \sqrt{73}), 9, 11, \frac{1}{2}(19 + \sqrt{73})\right\}$$

```
combination[{ - 3/2 (-157 + Sqrt[73]), 3/2 (157 + Sqrt[73]) }, {1, 4}, {2, 5}, anglesq[11]] // FullSimplify
```

$$\left\{\frac{35}{\sqrt{73}}, 1\right\}$$

```
combination[{ - 3/2 (-157 + Sqrt[73]), 3/2 (157 + Sqrt[73]) }, {1, 24}, {2, 5}, anglesq[11]] // FullSimplify
```

$$\left\{13, \frac{71}{\sqrt{73}}\right\}$$

```
combination[{ - 3/2 (-157 + Sqrt[73]), 3/2 (157 + Sqrt[73]) }, {1, 32}, {2, 5}, anglesq[11]] // FullSimplify
```

$$\left\{\frac{123}{\sqrt{73}}, 9\right\}$$

```
combination[{ - 3/2 (-157 + Sqrt[73]), 3/2 (157 + Sqrt[73]) }, {4, 24}, {2, 5}, anglesq[11]] // FullSimplify
```

$$\left\{\frac{113}{\sqrt{73}}, -5\right\}$$

```
combination[{ - 3/2 (-157 + Sqrt[73]), 3/2 (157 + Sqrt[73]) }, {4, 32}, {2, 5}, anglesq[11]] // FullSimplify
```

$$\left\{15, -\frac{51}{\sqrt{73}}\right\}$$

```
combination[{- $\frac{3}{2}(-157 + \sqrt{73})$ ,  $\frac{3}{2}(157 + \sqrt{73})$ },
  {24, 32}, {2, 5}, anglesq[11]] // FullSimplify
```

```
{ $\frac{297}{\sqrt{73}}$ , 3}
```

```
list11sub = {(-11 + x)2 (-9 + x)11 (5 + x)30 (30 - 15 x + x2) (41 - 14 x + x2),
  (-11 + x)2 (-9 + x)10 (5 + x)30 (-11 054 + 10 545 x - 3564 x2 + 542 x3 - 38 x4 + x5),
  (-11 + x)2 (-9 + x)10 (5 + x)30 (-11 038 + 10 545 x - 3564 x2 + 542 x3 - 38 x4 + x5),
  (-11 + x)2 (-9 + x)10 (5 + x)30 (-11 022 + 10 545 x - 3564 x2 + 542 x3 - 38 x4 + x5),
  (-11 + x)2 (-9 + x)10 (5 + x)30 (-11 006 + 10 545 x - 3564 x2 + 542 x3 - 38 x4 + x5),
  (-11 + x)2 (-9 + x)10 (5 + x)30 (-10 990 + 10 545 x - 3564 x2 + 542 x3 - 38 x4 + x5),
  (-11 + x)2 (-9 + x)10 (5 + x)30 (-10 974 + 10 545 x - 3564 x2 + 542 x3 - 38 x4 + x5),
  (-11 + x)2 (-9 + x)10 (5 + x)30 (-10 958 + 10 545 x - 3564 x2 + 542 x3 - 38 x4 + x5),
  (-11 + x)2 (-9 + x)10 (5 + x)30 (-10 942 + 10 545 x - 3564 x2 + 542 x3 - 38 x4 + x5),
  (-11 + x)2 (-9 + x)10 (5 + x)30 (-10 926 + 10 545 x - 3564 x2 + 542 x3 - 38 x4 + x5),
  (-11 + x)2 (-9 + x)10 (5 + x)30 (-10 910 + 10 545 x - 3564 x2 + 542 x3 - 38 x4 + x5),
  (-11 + x)2 (-9 + x)10 (5 + x)30 (-10 894 + 10 545 x - 3564 x2 + 542 x3 - 38 x4 + x5),
  (-11 + x)2 (-9 + x)10 (5 + x)30 (-10 878 + 10 545 x - 3564 x2 + 542 x3 - 38 x4 + x5),
  (-11 + x)2 (-9 + x)10 (5 + x)30 (-10 862 + 10 545 x - 3564 x2 + 542 x3 - 38 x4 + x5),
  (-11 + x)3 (-9 + x)10 (5 + x)30 (58 - 17 x + x2) (17 - 10 x + x2),
  (-13 + x) (-11 + x)2 (-9 + x)10 (-7 + x) (-3 + x) (5 + x)30 (46 - 15 x + x2),
  (-13 + x) (-11 + x)2 (-9 + x)10 (-7 + x) (5 + x)30 (-134 + 91 x - 18 x2 + x3),
  (-13 + x) (-11 + x)2 (-9 + x)10 (5 + x)30 (946 - 771 x + 217 x2 - 25 x3 + x4),
  (-11 + x)2 (-9 + x)10 (5 + x)30 (-12 282 + 10 969 x - 3592 x2 + 542 x3 - 38 x4 + x5),
  (-11 + x)2 (-9 + x)10 (5 + x)30 (-12 266 + 10 969 x - 3592 x2 + 542 x3 - 38 x4 + x5),
  (-11 + x)2 (-9 + x)10 (-7 + x) (5 + x)30 (1750 - 1317 x + 325 x2 - 31 x3 + x4),
  (-13 + x) (-11 + x)2 (-9 + x)10 (-3 + x) (5 + x)30 (-318 + 151 x - 22 x2 + x3),
  (-11 + x)2 (-9 + x)10 (5 + x)30 (-12 386 + 10 977 x - 3592 x2 + 542 x3 - 38 x4 + x5),
  (-11 + x)2 (-9 + x)10 (5 + x)30 (-12 370 + 10 977 x - 3592 x2 + 542 x3 - 38 x4 + x5),
  (-11 + x)2 (-9 + x)10 (5 + x)30 (-12 354 + 10 977 x - 3592 x2 + 542 x3 - 38 x4 + x5),
  (-11 + x)2 (-9 + x)10 (5 + x)30 (-12 338 + 10 977 x - 3592 x2 + 542 x3 - 38 x4 + x5),
  (-11 + x)2 (-9 + x)10 (5 + x)30 (-12 322 + 10 977 x - 3592 x2 + 542 x3 - 38 x4 + x5),
  (-11 + x)2 (-9 + x)10 (-7 + x) (5 + x)30 (1758 - 1317 x + 325 x2 - 31 x3 + x4),
  (-11 + x)2 (-9 + x)10 (-3 + x) (5 + x)30 (4142 - 2281 x + 437 x2 - 35 x3 + x4),
  (-11 + x)2 (-9 + x)10 (5 + x)30 (-12 410 + 10 985 x - 3592 x2 + 542 x3 - 38 x4 + x5),
  (-11 + x)2 (-9 + x)10 (5 + x)30 (-12 394 + 10 985 x - 3592 x2 + 542 x3 - 38 x4 + x5),
  (-11 + x)2 (-9 + x)10 (5 + x)30 (-12 378 + 10 985 x - 3592 x2 + 542 x3 - 38 x4 + x5),
  (-11 + x)2 (-9 + x)10 (-7 + x) (5 + x)30 (1766 - 1317 x + 325 x2 - 31 x3 + x4),
  (-11 + x)2 (-9 + x)10 (-3 + x) (5 + x)30 (4150 - 2281 x + 437 x2 - 35 x3 + x4),
  (-11 + x)2 (-9 + x)10 (5 + x)30 (-12 434 + 10 993 x - 3592 x2 + 542 x3 - 38 x4 + x5),
  (-11 + x)2 (-9 + x)10 (-7 + x) (5 + x)30 (1774 - 1317 x + 325 x2 - 31 x3 + x4),
```

$$\begin{aligned}
& (-11+x)^3 (-9+x)^{10} (-7+x) (-3+x) (5+x)^{30} (54-17x+x^2), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-7+x) (-5+x) (5+x)^{30} (26-13x+x^2), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (918-767x+217x^2-25x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11918+10889x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11902+10889x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1698-1313x+325x^2-31x^3+x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (926-767x+217x^2-25x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12022+10897x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12006+10897x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11990+10897x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11974+10897x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11958+10897x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1706-1313x+325x^2-31x^3+x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (934-767x+217x^2-25x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12126+10905x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12110+10905x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12094+10905x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12078+10905x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12062+10905x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12046+10905x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12030+10905x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12014+10905x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1714-1313x+325x^2-31x^3+x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-3+x) (5+x)^{30} (-314+151x-22x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12230+10913x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12214+10913x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12198+10913x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12182+10913x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12166+10913x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12150+10913x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12134+10913x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12118+10913x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12102+10913x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12086+10913x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12070+10913x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1722-1313x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (-3+x) (5+x)^{30} (4090-2277x+437x^2-35x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12254+10921x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12238+10921x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12222+10921x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12206+10921x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (46-15x+x^2) (-265+151x-23x^2+x^3),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12174 + 10921x - 3588x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12158 + 10921x - 3588x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12142 + 10921x - 3588x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12126 + 10921x - 3588x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1730 - 1313x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (-3+x) (5+x)^{30} (4098 - 2277x + 437x^2 - 35x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12278 + 10929x - 3588x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12262 + 10929x - 3588x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12246 + 10929x - 3588x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12230 + 10929x - 3588x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12214 + 10929x - 3588x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12198 + 10929x - 3588x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12182 + 10929x - 3588x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x) (5+x)^{30} (-158 + 105x - 20x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (-3+x) (5+x)^{30} (4106 - 2277x + 437x^2 - 35x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12302 + 10937x - 3588x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12286 + 10937x - 3588x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12270 + 10937x - 3588x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1114 - 893x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^3 (-9+x)^{10} (-3+x) (5+x)^{30} (-374 + 173x - 24x^2 + x^3), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (-126 + 91x - 18x^2 + x^3), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (-178 + 117x - 20x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11554 + 10809x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11538 + 10809x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1646 - 1309x + 325x^2 - 31x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (898 - 763x + 217x^2 - 25x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11658 + 10817x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11642 + 10817x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11626 + 10817x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2322 - 1699x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11594 + 10817x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1654 - 1309x + 325x^2 - 31x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (906 - 763x + 217x^2 - 25x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11762 + 10825x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11746 + 10825x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11730 + 10825x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11714 + 10825x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11698 + 10825x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11682 + 10825x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11666 + 10825x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2330 - 1699x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1662 - 1309x + 325x^2 - 31x^3 + x^4),
\end{aligned}$$

$$\begin{aligned}
& (-13+x)(-11+x)^2(-9+x)^{10}(5+x)^{30}(914-763x+217x^2-25x^3+x^4), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11866+10833x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11850+10833x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11834+10833x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11818+10833x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11802+10833x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11786+10833x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11770+10833x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11754+10833x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11738+10833x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11722+10833x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11706+10833x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(-7+x)(-5+x)(5+x)^{30}(-334+195x-26x^2+x^3), \\
& (-13+x)(-11+x)^2(-9+x)^{10}(5+x)^{30}(922-763x+217x^2-25x^3+x^4), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11970+10841x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11954+10841x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11938+10841x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11922+10841x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11906+10841x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11890+10841x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11874+10841x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11858+10841x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11842+10841x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11826+10841x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11810+10841x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11794+10841x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11778+10841x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11762+10841x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(-7+x)(5+x)^{30}(1678-1309x+325x^2-31x^3+x^4), \\
& (-13+x)(-11+x)^2(-10+x)(-9+x)^{10}(-3+x)(5+x)^{30}(31-12x+x^2), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-12074+10849x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-12058+10849x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-12042+10849x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-12026+10849x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-12010+10849x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11994+10849x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11978+10849x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11962+10849x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11946+10849x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11930+10849x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11914+10849x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2(-9+x)^{10}(5+x)^{30}(-11898+10849x-3584x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11882 + 10849x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11866 + 10849x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11850 + 10849x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11834 + 10849x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11818 + 10849x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1686 - 1309x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (-3+x) (5+x)^{30} (4038 - 2273x + 437x^2 - 35x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12098 + 10857x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12082 + 10857x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12066 + 10857x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12050 + 10857x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12034 + 10857x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12018 + 10857x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12002 + 10857x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11986 + 10857x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11970 + 10857x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11954 + 10857x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11938 + 10857x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11922 + 10857x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11906 + 10857x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11890 + 10857x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11874 + 10857x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x) (5+x)^{30} (-154 + 105x - 20x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (-3+x) (5+x)^{30} (4046 - 2273x + 437x^2 - 35x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12122 + 10865x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12106 + 10865x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12090 + 10865x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12074 + 10865x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12058 + 10865x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (54 - 17x + x^2) (-223 + 131x - 21x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12026 + 10865x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12010 + 10865x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11994 + 10865x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11978 + 10865x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11962 + 10865x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1086 - 889x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (-3+x) (5+x)^{30} (4054 - 2273x + 437x^2 - 35x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12146 + 10873x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12130 + 10873x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12114 + 10873x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12098 + 10873x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12082 + 10873x - 3584x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12\,066 + 10\,873\,x - 3584\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12\,050 + 10\,873\,x - 3584\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1094 - 889\,x + 245\,x^2 - 27\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (-3+x) (5+x)^{30} (4062 - 2273\,x + 437\,x^2 - 35\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12\,170 + 10\,881\,x - 3584\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12\,154 + 10\,881\,x - 3584\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12\,138 + 10\,881\,x - 3584\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1102 - 889\,x + 245\,x^2 - 27\,x^3 + x^4), \\
& (-11+x)^3 (-9+x)^{10} (-3+x) (5+x)^{30} (-370 + 173\,x - 24\,x^2 + x^3), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (-122 + 91\,x - 18\,x^2 + x^3), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (862 - 759\,x + 217\,x^2 - 25\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,190 + 10\,729\,x - 3580\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,174 + 10\,729\,x - 3580\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1594 - 1305\,x + 325\,x^2 - 31\,x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (-174 + 117\,x - 20\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,294 + 10\,737\,x - 3580\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,278 + 10\,737\,x - 3580\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,262 + 10\,737\,x - 3580\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,246 + 10\,737\,x - 3580\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,230 + 10\,737\,x - 3580\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1602 - 1305\,x + 325\,x^2 - 31\,x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (878 - 759\,x + 217\,x^2 - 25\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,398 + 10\,745\,x - 3580\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,382 + 10\,745\,x - 3580\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,366 + 10\,745\,x - 3580\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2270 - 1695\,x + 377\,x^2 - 33\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,334 + 10\,745\,x - 3580\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,318 + 10\,745\,x - 3580\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,302 + 10\,745\,x - 3580\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,286 + 10\,745\,x - 3580\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1610 - 1305\,x + 325\,x^2 - 31\,x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (886 - 759\,x + 217\,x^2 - 25\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,502 + 10\,753\,x - 3580\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,486 + 10\,753\,x - 3580\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,470 + 10\,753\,x - 3580\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,454 + 10\,753\,x - 3580\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,438 + 10\,753\,x - 3580\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,422 + 10\,753\,x - 3580\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,406 + 10\,753\,x - 3580\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2278 - 1695\,x + 377\,x^2 - 33\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,374 + 10\,753\,x - 3580\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,358 + 10\,753\,x - 3580\,x^2 + 542\,x^3 - 38\,x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11342 + 10753x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1618 - 1305x + 325x^2 - 31x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (894 - 759x + 217x^2 - 25x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11606 + 10761x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11590 + 10761x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11574 + 10761x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11558 + 10761x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11542 + 10761x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11526 + 10761x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11510 + 10761x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11494 + 10761x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11478 + 10761x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11462 + 10761x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11446 + 10761x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2286 - 1695x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11414 + 10761x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11398 + 10761x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1626 - 1305x + 325x^2 - 31x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (41 - 14x + x^2) (22 - 11x + x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11710 + 10769x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11694 + 10769x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11678 + 10769x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11662 + 10769x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11646 + 10769x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11630 + 10769x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11614 + 10769x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11598 + 10769x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11582 + 10769x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11566 + 10769x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11550 + 10769x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11534 + 10769x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11518 + 10769x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11502 + 10769x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11486 + 10769x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2294 - 1695x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11454 + 10769x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1634 - 1305x + 325x^2 - 31x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (910 - 759x + 217x^2 - 25x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11814 + 10777x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11798 + 10777x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11782 + 10777x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11766 + 10777x - 3580x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

(-11+x)²(-9+x)¹⁰(-3+x)(5+x)³⁰(3986-2269x+437x²-35x³+x⁴),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11942+10793x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11926+10793x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11910+10793x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11894+10793x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11878+10793x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11862+10793x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11846+10793x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11830+10793x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11814+10793x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11798+10793x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11782+10793x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11766+10793x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11750+10793x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11734+10793x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11718+10793x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11702+10793x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11686+10793x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11670+10793x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11654+10793x-3580x²+542x³-38x⁴+x⁵),
(-11+x)³(-9+x)¹⁰(5+x)³⁰(1058-885x+245x²-27x³+x⁴),
(-11+x)²(-9+x)¹⁰(-3+x)(5+x)³⁰(3994-2269x+437x²-35x³+x⁴),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(31-12x+x²)(-386+199x-26x²+x³),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11950+10801x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11934+10801x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11918+10801x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11902+10801x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11886+10801x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11870+10801x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11854+10801x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11838+10801x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(46-15x+x²)(-257+151x-23x²+x³),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11806+10801x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11790+10801x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11774+10801x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11758+10801x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11742+10801x-3580x²+542x³-38x⁴+x⁵),
(-11+x)³(-9+x)¹⁰(5+x)³⁰(1066-885x+245x²-27x³+x⁴),
(-11+x)²(-9+x)¹⁰(-3+x)(5+x)³⁰(4002-2269x+437x²-35x³+x⁴),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11990+10809x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11974+10809x-3580x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-11958+10809x-3580x²+542x³-38x⁴+x⁵),

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11942 + 10809x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11926 + 10809x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11910 + 10809x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11894 + 10809x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11878 + 10809x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11862 + 10809x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11846 + 10809x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11830 + 10809x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1074 - 885x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (-3+x) (5+x)^{30} (4010 - 2269x + 437x^2 - 35x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12014 + 10817x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11998 + 10817x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11982 + 10817x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11966 + 10817x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11950 + 10817x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11934 + 10817x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11918 + 10817x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1082 - 885x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (-3+x) (5+x)^{30} (4018 - 2269x + 437x^2 - 35x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12038 + 10825x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12022 + 10825x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12006 + 10825x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1090 - 885x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^3 (-9+x)^{10} (-3+x) (5+x)^{30} (-366 + 173x - 24x^2 + x^3), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-7+x) (-2+x) (5+x)^{30} (59 - 16x + x^2), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (834 - 755x + 217x^2 - 25x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10826 + 10649x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10810 + 10649x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1542 - 1301x + 325x^2 - 31x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (842 - 755x + 217x^2 - 25x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10930 + 10657x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10914 + 10657x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10898 + 10657x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10882 + 10657x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10866 + 10657x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1550 - 1301x + 325x^2 - 31x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-10+x) (-9+x)^{10} (-5+x) (5+x)^{30} (17 - 10x + x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11034 + 10665x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11018 + 10665x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11002 + 10665x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10986 + 10665x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10970 + 10665x - 3576x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10954 + 10665x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10938 + 10665x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10922 + 10665x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1558 - 1301x + 325x^2 - 31x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (858 - 755x + 217x^2 - 25x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11138 + 10673x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11122 + 10673x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11106 + 10673x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2218 - 1691x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11074 + 10673x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11058 + 10673x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11042 + 10673x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11026 + 10673x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11010 + 10673x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10994 + 10673x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10978 + 10673x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1566 - 1301x + 325x^2 - 31x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (866 - 755x + 217x^2 - 25x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11242 + 10681x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11226 + 10681x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (1121 - 956x + 262x^2 - 28x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11194 + 10681x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11178 + 10681x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11162 + 10681x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11146 + 10681x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2226 - 1691x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11114 + 10681x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11098 + 10681x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11082 + 10681x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11066 + 10681x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11050 + 10681x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11034 + 10681x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1574 - 1301x + 325x^2 - 31x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (38 - 13x + x^2) (23 - 12x + x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11346 + 10689x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11330 + 10689x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11314 + 10689x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11298 + 10689x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11282 + 10689x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11266 + 10689x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11250 + 10689x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11234 + 10689x - 3576x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11218 + 10689x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11202 + 10689x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11186 + 10689x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2234 - 1691x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11154 + 10689x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11138 + 10689x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11122 + 10689x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11106 + 10689x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11090 + 10689x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1582 - 1301x + 325x^2 - 31x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{11} (5+x)^{30} (-98 + 73x - 16x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11450 + 10697x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11434 + 10697x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11418 + 10697x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11402 + 10697x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11386 + 10697x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (1137 - 956x + 262x^2 - 28x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11354 + 10697x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11338 + 10697x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11322 + 10697x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11306 + 10697x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11290 + 10697x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11274 + 10697x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11258 + 10697x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11242 + 10697x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11226 + 10697x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2242 - 1691x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11194 + 10697x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11178 + 10697x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11162 + 10697x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11146 + 10697x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1590 - 1301x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1282 - 1047x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11522 + 10705x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11506 + 10705x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11490 + 10705x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11474 + 10705x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11458 + 10705x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11442 + 10705x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11426 + 10705x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11410 + 10705x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11394 + 10705x - 3576x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11378+10705x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11362+10705x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11346+10705x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11330+10705x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11314+10705x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11298+10705x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11282+10705x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11266+10705x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2250-1691x+377x^2-33x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11234+10705x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11218+10705x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11202+10705x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1598-1301x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1290-1047x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11594+10713x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11578+10713x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (41-14x+x^2) (-282+165x-24x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11546+10713x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (1153-956x+262x^2-28x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11514+10713x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11498+10713x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11482+10713x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11466+10713x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11450+10713x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11434+10713x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11418+10713x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11402+10713x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11386+10713x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11370+10713x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11354+10713x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11338+10713x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11322+10713x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11306+10713x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2258-1691x+377x^2-33x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11274+10713x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11258+10713x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x) (5+x)^{30} (-146+105x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1298-1047x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11666+10721x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11650+10721x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11634+10721x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11618+10721x-3576x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11602 + 10721x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11586 + 10721x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11570 + 10721x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11554 + 10721x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11538 + 10721x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11522 + 10721x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11506 + 10721x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11490 + 10721x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11474 + 10721x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11458 + 10721x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11442 + 10721x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11426 + 10721x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11410 + 10721x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11394 + 10721x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11378 + 10721x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11362 + 10721x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11346 + 10721x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (-5+x) (5+x)^{30} (-206 + 135x - 22x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1306 - 1047x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11738 + 10729x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11722 + 10729x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11706 + 10729x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (1169 - 956x + 262x^2 - 28x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11674 + 10729x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11658 + 10729x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11642 + 10729x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11626 + 10729x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (54 - 17x + x^2) (-215 + 131x - 21x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11594 + 10729x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11578 + 10729x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11562 + 10729x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11546 + 10729x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11530 + 10729x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11514 + 10729x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11498 + 10729x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11482 + 10729x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11466 + 10729x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11450 + 10729x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11434 + 10729x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1038 - 881x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (-3+x) (5+x)^{30} (-438 + 203x - 26x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11810 + 10737x - 3576x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11794 + 10737x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11778 + 10737x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11762 + 10737x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11746 + 10737x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11730 + 10737x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11714 + 10737x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11698 + 10737x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11682 + 10737x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11666 + 10737x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11650 + 10737x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11634 + 10737x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11618 + 10737x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11602 + 10737x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11586 + 10737x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11570 + 10737x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11554 + 10737x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11538 + 10737x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11522 + 10737x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1046 - 881x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (-3+x) (5+x)^{30} (-395 + 187x - 25x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11834 + 10745x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11818 + 10745x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11802 + 10745x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11786 + 10745x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11770 + 10745x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11754 + 10745x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11738 + 10745x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11722 + 10745x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11706 + 10745x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11690 + 10745x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11674 + 10745x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11658 + 10745x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11642 + 10745x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11626 + 10745x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11610 + 10745x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1054 - 881x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (-3+x) (5+x)^{30} (3958 - 2265x + 437x^2 - 35x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11858 + 10753x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (31 - 12x + x^2) (-382 + 199x - 26x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11826 + 10753x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11810 + 10753x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11794 + 10753x - 3576x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11778 + 10753x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11762 + 10753x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11746 + 10753x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11730 + 10753x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11714 + 10753x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11698 + 10753x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1062 - 881x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (-3+x) (5+x)^{30} (3966 - 2265x + 437x^2 - 35x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11882 + 10761x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11866 + 10761x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11850 + 10761x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11834 + 10761x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11818 + 10761x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11802 + 10761x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11786 + 10761x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1070 - 881x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (-3+x) (5+x)^{30} (3974 - 2265x + 437x^2 - 35x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11906 + 10769x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11890 + 10769x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11874 + 10769x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1078 - 881x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^3 (-9+x)^{10} (-3+x) (5+x)^{30} (-362 + 173x - 24x^2 + x^3), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-7+x) (-6+x) (5+x)^{30} (19 - 12x + x^2), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (806 - 751x + 217x^2 - 25x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10462 + 10569x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10446 + 10569x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1490 - 1297x + 325x^2 - 31x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (814 - 751x + 217x^2 - 25x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10566 + 10577x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10550 + 10577x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10534 + 10577x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10518 + 10577x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (59 - 16x + x^2) (-178 + 131x - 22x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1498 - 1297x + 325x^2 - 31x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (822 - 751x + 217x^2 - 25x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10670 + 10585x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10654 + 10585x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10638 + 10585x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10622 + 10585x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10606 + 10585x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10590 + 10585x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10574 + 10585x - 3572x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10558 + 10585x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1506 - 1297x + 325x^2 - 31x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (-166 + 117x - 20x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10774 + 10593x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10758 + 10593x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10742 + 10593x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10726 + 10593x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10710 + 10593x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10694 + 10593x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10678 + 10593x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10662 + 10593x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10646 + 10593x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10630 + 10593x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10614 + 10593x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1514 - 1297x + 325x^2 - 31x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (838 - 751x + 217x^2 - 25x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10878 + 10601x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10862 + 10601x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10846 + 10601x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2166 - 1687x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10814 + 10601x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10798 + 10601x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10782 + 10601x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10766 + 10601x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10750 + 10601x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10734 + 10601x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10718 + 10601x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10702 + 10601x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10686 + 10601x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10670 + 10601x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1522 - 1297x + 325x^2 - 31x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{11} (5+x)^{30} (-94 + 73x - 16x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10982 + 10609x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10966 + 10609x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10950 + 10609x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10934 + 10609x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10918 + 10609x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10902 + 10609x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10886 + 10609x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2174 - 1687x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10854 + 10609x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10838 + 10609x - 3572x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10822 + 10609x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10806 + 10609x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10790 + 10609x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10774 + 10609x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10758 + 10609x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10742 + 10609x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10726 + 10609x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1530 - 1297x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1230 - 1043x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11054 + 10617x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11038 + 10617x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11022 + 10617x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11006 + 10617x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10990 + 10617x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10974 + 10617x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10958 + 10617x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10942 + 10617x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10926 + 10617x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2182 - 1687x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10894 + 10617x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10878 + 10617x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10862 + 10617x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10846 + 10617x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10830 + 10617x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10814 + 10617x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10798 + 10617x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10782 + 10617x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1538 - 1297x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1238 - 1043x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11126 + 10625x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11110 + 10625x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11094 + 10625x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11078 + 10625x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11062 + 10625x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11046 + 10625x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11030 + 10625x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11014 + 10625x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10998 + 10625x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (17 - 10x + x^2) (-646 + 245x - 28x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10966 + 10625x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2190 - 1687x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10934 + 10625x - 3572x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10918+10625x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10902+10625x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10886+10625x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10870+10625x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10854+10625x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10838+10625x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1546-1297x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1246-1043x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11198+10633x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11182+10633x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11166+10633x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11150+10633x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11134+10633x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11118+10633x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11102+10633x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11086+10633x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11070+10633x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11054+10633x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11038+10633x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11022+10633x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11006+10633x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2198-1687x+377x^2-33x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10974+10633x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10958+10633x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10942+10633x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10926+10633x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10910+10633x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10894+10633x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1554-1297x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1254-1043x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (23-12x+x^2) (-490+207x-26x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11254+10641x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11238+10641x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11222+10641x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11206+10641x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11190+10641x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11174+10641x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11158+10641x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11142+10641x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11126+10641x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11110+10641x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11094+10641x-3572x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11078 + 10641x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11062 + 10641x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11046 + 10641x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2206 - 1687x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11014 + 10641x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10998 + 10641x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10982 + 10641x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10966 + 10641x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10950 + 10641x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x) (5+x)^{30} (-142 + 105x - 20x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1262 - 1043x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11342 + 10649x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11326 + 10649x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11310 + 10649x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11294 + 10649x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11278 + 10649x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11262 + 10649x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11246 + 10649x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11230 + 10649x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11214 + 10649x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11198 + 10649x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11182 + 10649x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11166 + 10649x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11150 + 10649x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11134 + 10649x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11118 + 10649x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11102 + 10649x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11086 + 10649x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2214 - 1687x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11054 + 10649x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11038 + 10649x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1002 - 877x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1270 - 1043x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11414 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (41 - 14x + x^2) (-278 + 165x - 24x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11382 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11366 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11350 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11334 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11318 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11302 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11286 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11270 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11254 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11238 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11222 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11206 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11190 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11174 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11158 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11142 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11126 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (-5+x) (5+x)^{30} (-202 + 135x - 22x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1278 - 1043x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11486 + 10665x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11470 + 10665x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11454 + 10665x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11438 + 10665x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11422 + 10665x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11406 + 10665x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11390 + 10665x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11374 + 10665x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11358 + 10665x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11342 + 10665x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11326 + 10665x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (30 - 15x + x^2) (-377 + 167x - 23x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11294 + 10665x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11278 + 10665x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11262 + 10665x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11246 + 10665x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11230 + 10665x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11214 + 10665x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1018 - 877x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1286 - 1043x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11558 + 10673x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11542 + 10673x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11526 + 10673x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11510 + 10673x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11494 + 10673x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11478 + 10673x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11462 + 10673x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11446 + 10673x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11430 + 10673x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (26 - 13x + x^2) (-439 + 191x - 25x^2 + x^3),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11398+10673x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11382+10673x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11366+10673x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11350+10673x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11334+10673x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11318+10673x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11302+10673x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1026-877x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1294-1043x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11630+10681x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11614+10681x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11598+10681x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11582+10681x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11566+10681x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (22-11x+x^2) (-525+223x-27x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11534+10681x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11518+10681x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11502+10681x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11486+10681x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11470+10681x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (46-15x+x^2) (-249+151x-23x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11438+10681x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11422+10681x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11406+10681x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11390+10681x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1034-877x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (-3+x) (5+x)^{30} (-434+203x-26x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11702+10689x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11686+10689x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11670+10689x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11654+10689x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11638+10689x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11622+10689x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11606+10689x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11590+10689x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11574+10689x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11558+10689x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11542+10689x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11526+10689x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11510+10689x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11494+10689x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11478+10689x-3572x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1042 - 877x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (-3+x) (5+x)^{30} (3914 - 2261x + 437x^2 - 35x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11726 + 10697x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11710 + 10697x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11694 + 10697x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11678 + 10697x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11662 + 10697x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11646 + 10697x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11630 + 10697x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11614 + 10697x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11598 + 10697x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11582 + 10697x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11566 + 10697x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1050 - 877x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (-3+x) (5+x)^{30} (106 - 21x + x^2) (37 - 14x + x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11750 + 10705x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11734 + 10705x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (31 - 12x + x^2) (-378 + 199x - 26x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11702 + 10705x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11686 + 10705x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11670 + 10705x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11654 + 10705x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1058 - 877x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (-3+x) (5+x)^{30} (3930 - 2261x + 437x^2 - 35x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11774 + 10713x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11758 + 10713x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11742 + 10713x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1066 - 877x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^3 (-9+x)^{10} (-3+x) (5+x)^{30} (-358 + 173x - 24x^2 + x^3), \\
& (-13+x) (-11+x)^2 (-10+x) (-9+x)^{10} (-7+x) (5+x)^{30} (11 - 8x + x^2), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (778 - 747x + 217x^2 - 25x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10098 + 10489x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10082 + 10489x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1438 - 1293x + 325x^2 - 31x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (786 - 747x + 217x^2 - 25x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10202 + 10497x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10186 + 10497x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (1017 - 948x + 262x^2 - 28x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10154 + 10497x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10138 + 10497x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1446 - 1293x + 325x^2 - 31x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (794 - 747x + 217x^2 - 25x^3 + x^4),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10306 + 10505x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10290 + 10505x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10274 + 10505x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10258 + 10505x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10242 + 10505x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10226 + 10505x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10210 + 10505x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10194 + 10505x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1454 - 1293x + 325x^2 - 31x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (802 - 747x + 217x^2 - 25x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10410 + 10513x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10394 + 10513x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10378 + 10513x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10362 + 10513x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10346 + 10513x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (1033 - 948x + 262x^2 - 28x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10314 + 10513x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (19 - 12x + x^2) (-542 + 211x - 26x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10282 + 10513x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (59 - 16x + x^2) (-174 + 131x - 22x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10250 + 10513x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1462 - 1293x + 325x^2 - 31x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{12} (-5+x) (-2+x) (5+x)^{30}, \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10514 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10498 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10482 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10466 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10450 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10434 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10418 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10402 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10386 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10370 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10354 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10338 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10322 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10306 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1470 - 1293x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1178 - 1039x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10586 + 10529x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2114 - 1683x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10554 + 10529x - 3568x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10538 + 10529x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10522 + 10529x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10506 + 10529x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (1049 - 948x + 262x^2 - 28x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10474 + 10529x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10458 + 10529x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10442 + 10529x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10426 + 10529x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10410 + 10529x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10394 + 10529x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10378 + 10529x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10362 + 10529x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1478 - 1293x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1186 - 1039x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10658 + 10537x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10642 + 10537x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10626 + 10537x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2122 - 1683x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10594 + 10537x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10578 + 10537x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-2+x) (5+x)^{30} (5281 - 2628x + 470x^2 - 36x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10546 + 10537x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10530 + 10537x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10514 + 10537x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10498 + 10537x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10482 + 10537x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10466 + 10537x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10450 + 10537x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10434 + 10537x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10418 + 10537x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1486 - 1293x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1194 - 1039x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10730 + 10545x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10714 + 10545x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10698 + 10545x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10682 + 10545x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10666 + 10545x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (-5+x) (5+x)^{30} (-213 + 147x - 23x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10634 + 10545x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10618 + 10545x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10602 + 10545x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10586 + 10545x - 3568x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10570 + 10545x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10554 + 10545x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10538 + 10545x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10522 + 10545x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10506 + 10545x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10490 + 10545x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10474 + 10545x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1494 - 1293x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1202 - 1039x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10802 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10786 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10770 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10754 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10738 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10722 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10706 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2138 - 1683x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10674 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10658 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10642 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10626 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10610 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-2+x) (5+x)^{30} (5297 - 2628x + 470x^2 - 36x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10578 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10562 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10546 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10530 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1502 - 1293x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1210 - 1039x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10874 + 10561x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10858 + 10561x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10842 + 10561x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10826 + 10561x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (1081 - 948x + 262x^2 - 28x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10794 + 10561x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10778 + 10561x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10762 + 10561x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10746 + 10561x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2146 - 1683x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10714 + 10561x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10698 + 10561x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10682 + 10561x - 3568x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10666 + 10561x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10650 + 10561x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10634 + 10561x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10618 + 10561x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10602 + 10561x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10586 + 10561x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1510 - 1293x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1218 - 1039x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10946 + 10569x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10930 + 10569x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10914 + 10569x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10898 + 10569x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10882 + 10569x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10866 + 10569x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10850 + 10569x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10834 + 10569x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10818 + 10569x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10802 + 10569x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10786 + 10569x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2154 - 1683x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10754 + 10569x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10738 + 10569x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10722 + 10569x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10706 + 10569x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10690 + 10569x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10674 + 10569x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10658 + 10569x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10642 + 10569x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x) (-2+x) (5+x)^{30} (69 - 18x + x^2), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1226 - 1039x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11018 + 10577x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11002 + 10577x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10986 + 10577x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (1097 - 948x + 262x^2 - 28x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10954 + 10577x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10938 + 10577x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10922 + 10577x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10906 + 10577x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10890 + 10577x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10874 + 10577x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10858 + 10577x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10842 + 10577x - 3568x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10826 + 10577x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2162 - 1683x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10794 + 10577x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10778 + 10577x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10762 + 10577x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10746 + 10577x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10730 + 10577x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (974 - 873x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1234 - 1039x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11090 + 10585x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11074 + 10585x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (38 - 13x + x^2) (-291 + 179x - 25x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11042 + 10585x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11026 + 10585x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11010 + 10585x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10994 + 10585x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10978 + 10585x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10962 + 10585x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10946 + 10585x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10930 + 10585x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (17 - 10x + x^2) (-642 + 245x - 28x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10898 + 10585x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10882 + 10585x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10866 + 10585x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2170 - 1683x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10834 + 10585x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10818 + 10585x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (982 - 873x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (54 - 17x + x^2) (23 - 12x + x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11162 + 10593x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11146 + 10593x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (1113 - 948x + 262x^2 - 28x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11114 + 10593x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11098 + 10593x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11082 + 10593x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11066 + 10593x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11050 + 10593x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11034 + 10593x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11018 + 10593x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11002 + 10593x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10986 + 10593x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10970 + 10593x - 3568x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10954 + 10593x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10938 + 10593x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10922 + 10593x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10906 + 10593x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (-5+x) (5+x)^{30} (-198 + 135x - 22x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1250 - 1039x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (41 - 14x + x^2) (-274 + 165x - 24x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11218 + 10601x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11202 + 10601x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11186 + 10601x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11170 + 10601x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11154 + 10601x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11138 + 10601x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11122 + 10601x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11106 + 10601x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11090 + 10601x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11074 + 10601x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11058 + 10601x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11042 + 10601x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11026 + 10601x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11010 + 10601x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10994 + 10601x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (998 - 873x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1258 - 1039x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11306 + 10609x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (1129 - 948x + 262x^2 - 28x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11274 + 10609x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11258 + 10609x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11242 + 10609x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11226 + 10609x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11210 + 10609x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11194 + 10609x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11178 + 10609x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11162 + 10609x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11146 + 10609x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11130 + 10609x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11114 + 10609x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11098 + 10609x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11082 + 10609x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1006 - 873x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1266 - 1039x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11378 + 10617x - 3568x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1030 - 873x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-10+x) (-9+x)^{11} (-3+x) (5+x)^{30} (43 - 16x + x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11594 + 10641x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11578 + 10641x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11562 + 10641x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11546 + 10641x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11530 + 10641x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11514 + 10641x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11498 + 10641x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11482 + 10641x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11466 + 10641x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11450 + 10641x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11434 + 10641x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1038 - 873x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (-3+x) (5+x)^{30} (3878 - 2257x + 437x^2 - 35x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (37 - 14x + x^2) (-314 + 169x - 24x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11602 + 10649x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11586 + 10649x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11570 + 10649x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11554 + 10649x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11538 + 10649x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11522 + 10649x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1046 - 873x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (-3+x) (5+x)^{30} (3886 - 2257x + 437x^2 - 35x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11642 + 10657x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11626 + 10657x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11610 + 10657x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (34 - 15x + x^2) (31 - 12x + x^2), \\
& (-11+x)^3 (-9+x)^{10} (-3+x) (5+x)^{30} (-354 + 173x - 24x^2 + x^3), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (-106 + 91x - 18x^2 + x^3), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-6+x) (5+x)^{30} (-125 + 103x - 19x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9734 + 10409x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9718 + 10409x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1386 - 1289x + 325x^2 - 31x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (758 - 743x + 217x^2 - 25x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9838 + 10417x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9822 + 10417x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9806 + 10417x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9790 + 10417x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9774 + 10417x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1394 - 1289x + 325x^2 - 31x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (766 - 743x + 217x^2 - 25x^3 + x^4),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9942 + 10\,425\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9926 + 10\,425\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9910 + 10\,425\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9894 + 10\,425\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9878 + 10\,425\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9862 + 10\,425\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-6+x) (5+x)^{30} (1641 - 1464\,x + 350\,x^2 - 32\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9830 + 10\,425\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1402 - 1289\,x + 325\,x^2 - 31\,x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{11} (5+x)^{30} (-86 + 73\,x - 16\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,046 + 10\,433\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,030 + 10\,433\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,014 + 10\,433\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9998 + 10\,433\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9982 + 10\,433\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9966 + 10\,433\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9950 + 10\,433\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9934 + 10\,433\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9918 + 10\,433\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9902 + 10\,433\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9886 + 10\,433\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1410 - 1289\,x + 325\,x^2 - 31\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1126 - 1035\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,118 + 10\,441\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,102 + 10\,441\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,086 + 10\,441\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,070 + 10\,441\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,054 + 10\,441\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,038 + 10\,441\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,022 + 10\,441\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,006 + 10\,441\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9990 + 10\,441\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9974 + 10\,441\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9958 + 10\,441\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-6+x) (5+x)^{30} (1657 - 1464\,x + 350\,x^2 - 32\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1418 - 1289\,x + 325\,x^2 - 31\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{12} (5+x)^{30} (-126 + 101\,x - 20\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,190 + 10\,449\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,174 + 10\,449\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,158 + 10\,449\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,142 + 10\,449\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,126 + 10\,449\,x - 3564\,x^2 + 542\,x^3 - 38\,x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10110+10449x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10094+10449x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10078+10449x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10062+10449x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10046+10449x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (59-16x+x^2) (-170+131x-22x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10014+10449x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9998+10449x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1426-1289x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1142-1035x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10262+10457x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10246+10457x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10230+10457x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10214+10457x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10198+10457x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10182+10457x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10166+10457x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10150+10457x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10134+10457x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10118+10457x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10102+10457x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10086+10457x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10070+10457x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10054+10457x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (-6+x) (5+x)^{30} (-239+175x-25x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (-5+x) (5+x)^{30} (-230+161x-24x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10334+10465x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10318+10465x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10302+10465x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10286+10465x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10270+10465x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10254+10465x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10238+10465x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (19-12x+x^2) (-538+211x-26x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10206+10465x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10190+10465x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10174+10465x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10158+10465x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10142+10465x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10126+10465x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10110+10465x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1442-1289x+325x^2-31x^3+x^4),
\end{aligned}$$

[illegible]

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10486 + 10489x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2094 - 1679x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10454 + 10489x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10438 + 10489x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10422 + 10489x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10406 + 10489x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10390 + 10489x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10374 + 10489x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10358 + 10489x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10342 + 10489x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10326 + 10489x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10310 + 10489x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10294 + 10489x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10278 + 10489x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1466 - 1289x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1182 - 1035x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10622 + 10497x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10606 + 10497x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10590 + 10497x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10574 + 10497x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10558 + 10497x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10542 + 10497x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10526 + 10497x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2102 - 1679x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10494 + 10497x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10478 + 10497x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10462 + 10497x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10446 + 10497x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10430 + 10497x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10414 + 10497x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10398 + 10497x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10382 + 10497x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10366 + 10497x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (69 - 18x + x^2) (-150 + 113x - 20x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10334 + 10497x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x) (5+x)^{30} (-134 + 105x - 20x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1190 - 1035x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10694 + 10505x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10678 + 10505x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10662 + 10505x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10646 + 10505x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10630 + 10505x - 3564x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10710 + 10521x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10694 + 10521x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10678 + 10521x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10662 + 10521x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10646 + 10521x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2126 - 1679x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10614 + 10521x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10598 + 10521x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (962 - 869x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1214 - 1035x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10910 + 10529x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10894 + 10529x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10878 + 10529x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10862 + 10529x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10846 + 10529x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10830 + 10529x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10814 + 10529x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10798 + 10529x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10782 + 10529x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10766 + 10529x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10750 + 10529x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10734 + 10529x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10718 + 10529x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10702 + 10529x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10686 + 10529x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (-5+x) (5+x)^{30} (-194 + 135x - 22x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1222 - 1035x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10982 + 10537x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10966 + 10537x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10950 + 10537x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10934 + 10537x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (106 - 21x + x^2) (-103 + 79x - 17x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10902 + 10537x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10886 + 10537x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10870 + 10537x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10854 + 10537x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10838 + 10537x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10822 + 10537x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10806 + 10537x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10790 + 10537x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10774 + 10537x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (978 - 869x + 245x^2 - 27x^3 + x^4),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1238 - 1035x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11126 + 10553x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11110 + 10553x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11094 + 10553x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11078 + 10553x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11062 + 10553x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11046 + 10553x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11030 + 10553x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11014 + 10553x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10998 + 10553x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10982 + 10553x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10966 + 10553x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10950 + 10553x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (994 - 869x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1246 - 1035x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11198 + 10561x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11182 + 10561x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11166 + 10561x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11150 + 10561x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11134 + 10561x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11118 + 10561x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11102 + 10561x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (46 - 15x + x^2) (-241 + 151x - 23x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11070 + 10561x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11054 + 10561x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11038 + 10561x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1002 - 869x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1254 - 1035x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11270 + 10569x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11254 + 10569x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11238 + 10569x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11222 + 10569x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (26 - 13x + x^2) (-431 + 191x - 25x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11190 + 10569x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11174 + 10569x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11158 + 10569x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11142 + 10569x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11126 + 10569x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1010 - 869x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1262 - 1035x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11342 + 10577x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11326 + 10577x - 3564x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11310 + 10577x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11294 + 10577x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11278 + 10577x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11262 + 10577x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11246 + 10577x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11230 + 10577x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11214 + 10577x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1018 - 869x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1270 - 1035x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11414 + 10585x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11398 + 10585x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11382 + 10585x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11366 + 10585x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11350 + 10585x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11334 + 10585x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11318 + 10585x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11302 + 10585x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1026 - 869x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (-3+x) (5+x)^{30} (-426 + 203x - 26x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11486 + 10593x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (37 - 14x + x^2) (-310 + 169x - 24x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11454 + 10593x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11438 + 10593x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11422 + 10593x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11406 + 10593x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11390 + 10593x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (47 - 16x + x^2) (22 - 11x + x^2), \\
& (-11+x)^2 (-9+x)^{10} (-3+x) (5+x)^{30} (3842 - 2253x + 437x^2 - 35x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11510 + 10601x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11494 + 10601x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11478 + 10601x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1042 - 869x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^3 (-9+x)^{10} (-3+x) (5+x)^{30} (-350 + 173x - 24x^2 + x^3), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (-102 + 91x - 18x^2 + x^3), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (722 - 739x + 217x^2 - 25x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9370 + 10329x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9354 + 10329x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1334 - 1285x + 325x^2 - 31x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (730 - 739x + 217x^2 - 25x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9474 + 10337x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9458 + 10337x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9442 + 10337x - 3560x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9426 + 10\,337\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9410 + 10\,337\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1342 - 1285\,x + 325\,x^2 - 31\,x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{11} (5+x)^{30} (-82 + 73\,x - 16\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9578 + 10\,345\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9562 + 10\,345\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9546 + 10\,345\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9530 + 10\,345\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9514 + 10\,345\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9498 + 10\,345\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9482 + 10\,345\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9466 + 10\,345\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (-7+x) (5+x)^{30} (-135 + 115\,x - 21\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1074 - 1031\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9650 + 10\,353\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9634 + 10\,353\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9618 + 10\,353\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9602 + 10\,353\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9586 + 10\,353\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9570 + 10\,353\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9554 + 10\,353\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9538 + 10\,353\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9522 + 10\,353\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1358 - 1285\,x + 325\,x^2 - 31\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1082 - 1031\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9722 + 10\,361\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9706 + 10\,361\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9690 + 10\,361\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9674 + 10\,361\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9658 + 10\,361\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9642 + 10\,361\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9626 + 10\,361\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (961 - 940\,x + 262\,x^2 - 28\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9594 + 10\,361\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9578 + 10\,361\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1366 - 1285\,x + 325\,x^2 - 31\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1090 - 1031\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9794 + 10\,369\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9778 + 10\,369\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9762 + 10\,369\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9746 + 10\,369\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9730 + 10\,369\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9714 + 10\,369\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9698 + 10\,369\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9682 + 10\,369\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9666 + 10\,369\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9650 + 10\,369\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9634 + 10\,369\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1374 - 1285\,x + 325\,x^2 - 31\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{12} (5+x)^{30} (-122 + 101\,x - 20\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9866 + 10\,377\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9850 + 10\,377\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9834 + 10\,377\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9818 + 10\,377\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9802 + 10\,377\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9786 + 10\,377\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (977 - 940\,x + 262\,x^2 - 28\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9754 + 10\,377\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9738 + 10\,377\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9722 + 10\,377\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9706 + 10\,377\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9690 + 10\,377\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1382 - 1285\,x + 325\,x^2 - 31\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1106 - 1031\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9938 + 10\,385\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9922 + 10\,385\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9906 + 10\,385\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9890 + 10\,385\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9874 + 10\,385\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9858 + 10\,385\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9842 + 10\,385\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9826 + 10\,385\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9810 + 10\,385\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (59 - 16\,x + x^2) (-166 + 131\,x - 22\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9778 + 10\,385\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9762 + 10\,385\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9746 + 10\,385\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1390 - 1285\,x + 325\,x^2 - 31\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1114 - 1031\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,010 + 10\,393\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9994 + 10\,393\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9978 + 10\,393\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9962 + 10\,393\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9946 + 10\,393\,x - 3560\,x^2 + 542\,x^3 - 38\,x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (993-940x+262x^2-28x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9914+10393x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9898+10393x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9882+10393x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9866+10393x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9850+10393x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9834+10393x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9818+10393x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9802+10393x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1398-1285x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1122-1031x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10082+10401x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10066+10401x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10050+10401x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10034+10401x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10018+10401x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10002+10401x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9986+10401x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9970+10401x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9954+10401x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9938+10401x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9922+10401x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9906+10401x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9890+10401x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9874+10401x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9858+10401x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1406-1285x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (-5+x) (5+x)^{30} (-226+161x-24x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10154+10409x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10138+10409x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10122+10409x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10106+10409x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (1009-940x+262x^2-28x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10074+10409x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10058+10409x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10042+10409x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10026+10409x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10010+10409x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9994+10409x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9978+10409x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9962+10409x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9946+10409x-3560x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9930+10409x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9914+10409x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1414-1285x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1138-1031x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10226+10417x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2042-1675x+377x^2-33x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10194+10417x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10178+10417x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10162+10417x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (19-12x+x^2) (-534+211x-26x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10130+10417x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10114+10417x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10098+10417x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10082+10417x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10066+10417x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10050+10417x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10034+10417x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10018+10417x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10002+10417x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9986+10417x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9970+10417x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1422-1285x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1146-1031x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10298+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10282+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10266+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (-5+x) (5+x)^{30} (-205+147x-23x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10234+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10218+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10202+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10186+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10170+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10154+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10138+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10122+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10106+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10090+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (69-18x+x^2) (-146+113x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10058+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10042+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10026+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x) (5+x)^{30} (-130+105x-20x^2+x^3),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{11} (-2+x) (5+x)^{30} (-577+227x-27x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10370+10433x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10354+10433x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10338+10433x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10322+10433x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10306+10433x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2058-1675x+377x^2-33x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10274+10433x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10258+10433x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10242+10433x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10226+10433x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10210+10433x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10194+10433x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10178+10433x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10162+10433x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10146+10433x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10130+10433x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10114+10433x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (918-865x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1162-1031x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10442+10441x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10426+10441x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (1041-940x+262x^2-28x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10394+10441x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10378+10441x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10362+10441x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10346+10441x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2066-1675x+377x^2-33x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10314+10441x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10298+10441x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10282+10441x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10266+10441x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10250+10441x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10234+10441x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10218+10441x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10202+10441x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (926-865x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1170-1031x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10514+10449x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10498+10449x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10482+10449x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10466+10449x-3560x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10450 + 10449x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10434 + 10449x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-2+x) (5+x)^{30} (5209 - 2620x + 470x^2 - 36x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10402 + 10449x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10386 + 10449x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2074 - 1675x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10354 + 10449x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10338 + 10449x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10322 + 10449x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10306 + 10449x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10290 + 10449x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (934 - 865x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1178 - 1031x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10586 + 10457x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (1057 - 940x + 262x^2 - 28x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10554 + 10457x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10538 + 10457x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10522 + 10457x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10506 + 10457x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10490 + 10457x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10474 + 10457x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10458 + 10457x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10442 + 10457x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10426 + 10457x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2082 - 1675x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10394 + 10457x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10378 + 10457x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (942 - 865x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1186 - 1031x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10658 + 10465x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10642 + 10465x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10626 + 10465x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10610 + 10465x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10594 + 10465x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10578 + 10465x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10562 + 10465x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10546 + 10465x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10530 + 10465x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10514 + 10465x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10498 + 10465x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10482 + 10465x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10466 + 10465x - 3560x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^3 (-9+x)^{10} (-5+x) (-2+x) (5+x)^{30} (95-20x+x^2), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1194-1031x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (1073-940x+262x^2-28x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10714+10473x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10698+10473x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10682+10473x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10666+10473x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10650+10473x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10634+10473x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10618+10473x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10602+10473x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10586+10473x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10570+10473x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10554+10473x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (958-865x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1202-1031x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10802+10481x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10786+10481x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10770+10481x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (38-13x+x^2) (-283+179x-25x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10738+10481x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10722+10481x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10706+10481x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10690+10481x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10674+10481x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10658+10481x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10642+10481x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (966-865x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-10+x) (-9+x)^{11} (5+x)^{30} (-121+91x-19x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10874+10489x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10858+10489x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10842+10489x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10826+10489x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10810+10489x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10794+10489x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10778+10489x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10762+10489x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10746+10489x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10730+10489x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (974-865x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1218-1031x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10946+10497x-3560x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10930+10497x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10914+10497x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10898+10497x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10882+10497x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10866+10497x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10850+10497x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10834+10497x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10818+10497x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (982-865x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1226-1031x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11018+10505x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11002+10505x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10986+10505x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10970+10505x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10954+10505x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10938+10505x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10922+10505x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10906+10505x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (990-865x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1234-1031x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11090+10513x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11074+10513x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11058+10513x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11042+10513x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11026+10513x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11010+10513x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10994+10513x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (998-865x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1242-1031x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11162+10521x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11146+10521x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11130+10521x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11114+10521x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11098+10521x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11082+10521x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1006-865x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1250-1031x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11234+10529x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11218+10529x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11202+10529x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (47-16x+x^2) (-238+143x-22x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11170+10529x-3560x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1014 - 865x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (34 - 15x + x^2) (37 - 14x + x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11306 + 10537x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11290 + 10537x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11274 + 10537x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11258 + 10537x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1022 - 865x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (-3+x) (5+x)^{30} (-422 + 203x - 26x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11378 + 10545x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11362 + 10545x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11346 + 10545x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1030 - 865x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^3 (-9+x)^{10} (-3+x) (5+x)^{30} (-346 + 173x - 24x^2 + x^3), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-7+x)^2 (5+x)^{30} (14 - 11x + x^2), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (694 - 735x + 217x^2 - 25x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9006 + 10249x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8990 + 10249x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1282 - 1281x + 325x^2 - 31x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{11} (-6+x) (5+x)^{30} (13 - 10x + x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9110 + 10257x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9094 + 10257x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9078 + 10257x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9062 + 10257x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9046 + 10257x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1290 - 1281x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1022 - 1027x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9182 + 10265x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9166 + 10265x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9150 + 10265x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9134 + 10265x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9118 + 10265x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9102 + 10265x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1298 - 1281x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1030 - 1027x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9254 + 10273x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9238 + 10273x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-6+x) (5+x)^{30} (1537 - 1456x + 350x^2 - 32x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9206 + 10273x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9190 + 10273x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9174 + 10273x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9158 + 10273x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1306 - 1281x + 325x^2 - 31x^3 + x^4),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1038 - 1027x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9326 + 10281x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9310 + 10281x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9294 + 10281x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9278 + 10281x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9262 + 10281x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9246 + 10281x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9230 + 10281x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9214 + 10281x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1314 - 1281x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1046 - 1027x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9398 + 10289x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9382 + 10289x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9366 + 10289x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9350 + 10289x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9334 + 10289x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-6+x) (5+x)^{30} (1553 - 1456x + 350x^2 - 32x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9302 + 10289x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9286 + 10289x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9270 + 10289x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1322 - 1281x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1054 - 1027x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9470 + 10297x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9454 + 10297x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9438 + 10297x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9422 + 10297x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9406 + 10297x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9390 + 10297x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9374 + 10297x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9358 + 10297x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9342 + 10297x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9326 + 10297x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1330 - 1281x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{12} (5+x)^{30} (-118 + 101x - 20x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9542 + 10305x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9526 + 10305x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9510 + 10305x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9494 + 10305x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9478 + 10305x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9462 + 10305x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9446 + 10305x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9430 + 10305x - 3556x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (-6+x) (5+x)^{30} (1569 - 1456x + 350x^2 - 32x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9398 + 10305x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9382 + 10305x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1338 - 1281x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1070 - 1027x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9614 + 10313x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9598 + 10313x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9582 + 10313x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9566 + 10313x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9550 + 10313x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9534 + 10313x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9518 + 10313x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9502 + 10313x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9486 + 10313x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9470 + 10313x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9454 + 10313x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9438 + 10313x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1346 - 1281x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1078 - 1027x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9686 + 10321x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9670 + 10321x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9654 + 10321x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9638 + 10321x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9622 + 10321x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9606 + 10321x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9590 + 10321x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9574 + 10321x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (59 - 16x + x^2) (-162 + 131x - 22x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9542 + 10321x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9526 + 10321x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-6+x) (5+x)^{30} (1585 - 1456x + 350x^2 - 32x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9494 + 10321x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1354 - 1281x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1086 - 1027x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9758 + 10329x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9742 + 10329x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9726 + 10329x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9710 + 10329x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9694 + 10329x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9678 + 10329x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9662 + 10329x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9646 + 10329x - 3556x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9630+10329x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9614+10329x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9598+10329x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9582+10329x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9566+10329x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9550+10329x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(-7+x)(5+x)^{30}(1362-1281x+325x^2-31x^3+x^4),$
 $(-11+x)^2(-9+x)^{11}(5+x)^{30}(1094-1027x+281x^2-29x^3+x^4),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9830+10337x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9814+10337x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9798+10337x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9782+10337x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9766+10337x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9750+10337x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9734+10337x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9718+10337x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9702+10337x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9686+10337x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9670+10337x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9654+10337x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9638+10337x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9622+10337x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(-6+x)(5+x)^{30}(1601-1456x+350x^2-32x^3+x^4),$
 $(-11+x)^2(-9+x)^{10}(-7+x)(5+x)^{30}(1370-1281x+325x^2-31x^3+x^4),$
 $(-11+x)^2(-9+x)^{11}(5+x)^{30}(1102-1027x+281x^2-29x^3+x^4),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9902+10345x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9886+10345x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9870+10345x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9854+10345x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9838+10345x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9822+10345x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9806+10345x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9790+10345x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9774+10345x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9758+10345x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9742+10345x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9726+10345x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9710+10345x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9694+10345x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9678+10345x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(5+x)^{30}(-9662+10345x-3556x^2+542x^3-38x^4+x^5),$
 $(-11+x)^2(-9+x)^{10}(-7+x)(5+x)^{30}(1378-1281x+325x^2-31x^3+x^4),$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{11} (-5+x) (5+x)^{30} (-222+161x-24x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9974+10353x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9958+10353x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9942+10353x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9926+10353x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9910+10353x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9894+10353x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9878+10353x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9862+10353x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9846+10353x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9830+10353x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9814+10353x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (69-18x+x^2) (-142+113x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9782+10353x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9766+10353x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9750+10353x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9734+10353x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9718+10353x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x) (-6+x) (5+x)^{30} (21-14x+x^2), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1118-1027x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10046+10361x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2006-1671x+377x^2-33x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10014+10361x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9998+10361x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9982+10361x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9966+10361x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9950+10361x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9934+10361x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9918+10361x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9902+10361x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9886+10361x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9870+10361x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9854+10361x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9838+10361x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9822+10361x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9806+10361x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (890-861x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1126-1027x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10118+10369x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10102+10369x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10086+10369x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (106-21x+x^2) (19-12x+x^2),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,054 + 10\,369 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,038 + 10\,369 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,022 + 10\,369 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,006 + 10\,369 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9990 + 10\,369 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9974 + 10\,369 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9958 + 10\,369 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9942 + 10\,369 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9926 + 10\,369 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9910 + 10\,369 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9894 + 10\,369 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (898 - 861 x + 245 x^2 - 27 x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1134 - 1027 x + 281 x^2 - 29 x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,190 + 10\,377 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,174 + 10\,377 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,158 + 10\,377 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,142 + 10\,377 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,126 + 10\,377 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2022 - 1671 x + 377 x^2 - 33 x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,094 + 10\,377 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,078 + 10\,377 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,062 + 10\,377 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,046 + 10\,377 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,030 + 10\,377 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,014 + 10\,377 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9998 + 10\,377 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9982 + 10\,377 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (906 - 861 x + 245 x^2 - 27 x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1142 - 1027 x + 281 x^2 - 29 x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,262 + 10\,385 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,246 + 10\,385 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,230 + 10\,385 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,214 + 10\,385 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,198 + 10\,385 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,182 + 10\,385 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,166 + 10\,385 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2030 - 1671 x + 377 x^2 - 33 x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,134 + 10\,385 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,118 + 10\,385 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,102 + 10\,385 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,086 + 10\,385 x - 3556 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (95 - 20 x + x^2) (-106 + 87 x - 18 x^2 + x^3),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (914 - 861x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1150 - 1027x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10334 + 10393x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10318 + 10393x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10302 + 10393x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10286 + 10393x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10270 + 10393x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10254 + 10393x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10238 + 10393x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10222 + 10393x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10206 + 10393x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2038 - 1671x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10174 + 10393x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10158 + 10393x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (922 - 861x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1158 - 1027x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10406 + 10401x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10390 + 10401x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10374 + 10401x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10358 + 10401x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10342 + 10401x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10326 + 10401x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10310 + 10401x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10294 + 10401x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10278 + 10401x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10262 + 10401x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10246 + 10401x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (-5+x) (5+x)^{30} (-186 + 135x - 22x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1166 - 1027x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10478 + 10409x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10462 + 10409x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10446 + 10409x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10430 + 10409x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10414 + 10409x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10398 + 10409x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (58 - 17x + x^2) (-179 + 127x - 21x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10366 + 10409x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10350 + 10409x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10334 + 10409x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (938 - 861x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1174 - 1027x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10550 + 10417x - 3556x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10534 + 10417x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10518 + 10417x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10502 + 10417x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10486 + 10417x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10470 + 10417x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10454 + 10417x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10438 + 10417x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10422 + 10417x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (946 - 861x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1182 - 1027x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10622 + 10425x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10606 + 10425x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10590 + 10425x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10574 + 10425x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10558 + 10425x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10542 + 10425x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10526 + 10425x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10510 + 10425x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (954 - 861x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1190 - 1027x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10694 + 10433x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10678 + 10433x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10662 + 10433x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10646 + 10433x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10630 + 10433x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10614 + 10433x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10598 + 10433x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (962 - 861x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1198 - 1027x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10766 + 10441x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10750 + 10441x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10734 + 10441x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (46 - 15x + x^2) (-233 + 151x - 23x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10702 + 10441x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10686 + 10441x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (970 - 861x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1206 - 1027x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10838 + 10449x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10822 + 10449x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10806 + 10449x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10790 + 10449x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10774 + 10449x - 3556x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (978-861x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1214-1027x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10910+10457x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10894+10457x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10878+10457x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10862+10457x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (986-861x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (47-16x+x^2) (26-13x+x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10982+10465x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10966+10465x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10950+10465x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (994-861x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1230-1027x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11054+10473x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11038+10473x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1002-861x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1238-1027x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11126+10481x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1010-861x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1246-1027x+281x^2-29x^3+x^4), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1018-861x+245x^2-27x^3+x^4), \\
& (-11+x)^3 (-9+x)^{11} (-3+x) (5+x)^{30} (38-15x+x^2), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (-94+91x-18x^2+x^3), \\
& (-13+x) (-11+x)^2 (-9+x)^{11} (5+x)^{30} (-74+73x-16x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8642+10169x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8626+10169x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1230-1277x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (970-1023x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8714+10177x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8698+10177x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8682+10177x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1238-1277x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (978-1023x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8786+10185x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8770+10185x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8754+10185x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8738+10185x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x)^2 (5+x)^{30} (-178+157x-24x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (986-1023x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8858+10193x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8842+10193x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8826+10193x-3552x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8810+10\,193\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8794+10\,193\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1254-1277\,x+325\,x^2-31\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (994-1023\,x+281\,x^2-29\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8930+10\,201\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8914+10\,201\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8898+10\,201\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8882+10\,201\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8866+10\,201\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8850+10\,201\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1262-1277\,x+325\,x^2-31\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1002-1023\,x+281\,x^2-29\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9002+10\,209\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8986+10\,209\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8970+10\,209\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8954+10\,209\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8938+10\,209\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8922+10\,209\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8906+10\,209\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (-7+x) (5+x)^{30} (-127+115\,x-21\,x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1010-1023\,x+281\,x^2-29\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (13-10\,x+x^2) (-698+249\,x-28\,x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9058+10\,217\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9042+10\,217\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9026+10\,217\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9010+10\,217\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8994+10\,217\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8978+10\,217\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8962+10\,217\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1278-1277\,x+325\,x^2-31\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1018-1023\,x+281\,x^2-29\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9146+10\,225\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9130+10\,225\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9114+10\,225\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9098+10\,225\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9082+10\,225\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9066+10\,225\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (905-932\,x+262\,x^2-28\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9034+10\,225\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9018+10\,225\,x-3552\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1286-1277\,x+325\,x^2-31\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{12} (5+x)^{30} (-114+101\,x-20\,x^2+x^3),
\end{aligned}$$

(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9386+10257x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-10+x)(-9+x)¹⁰(5+x)³⁰(937-932x+262x²-28x³+x⁴),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9354+10257x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9338+10257x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(59-16x+x²)(-158+131x-22x²+x³),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9306+10257x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9290+10257x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9274+10257x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9258+10257x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9242+10257x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(-7+x)(5+x)³⁰(1318-1277x+325x²-31x³+x⁴),
(-11+x)²(-9+x)¹¹(5+x)³⁰(1058-1023x+281x²-29x³+x⁴),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9506+10265x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9490+10265x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9474+10265x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9458+10265x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9442+10265x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9426+10265x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9410+10265x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9394+10265x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9378+10265x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9362+10265x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9346+10265x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9330+10265x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9314+10265x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9298+10265x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(-7+x)(5+x)³⁰(1326-1277x+325x²-31x³+x⁴),
(-11+x)²(-9+x)¹¹(5+x)³⁰(1066-1023x+281x²-29x³+x⁴),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9578+10273x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9562+10273x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9546+10273x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-10+x)(-9+x)¹⁰(5+x)³⁰(953-932x+262x²-28x³+x⁴),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9514+10273x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9498+10273x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9482+10273x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9466+10273x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9450+10273x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9434+10273x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9418+10273x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9402+10273x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9386+10273x-3552x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9370+10273x-3552x²+542x³-38x⁴+x⁵),

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9354 + 10\,273\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1334 - 1277\,x + 325\,x^2 - 31\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1074 - 1023\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9650 + 10\,281\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9634 + 10\,281\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9618 + 10\,281\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9602 + 10\,281\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9586 + 10\,281\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9570 + 10\,281\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9554 + 10\,281\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9538 + 10\,281\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (69 - 18\,x + x^2) (-138 + 113\,x - 20\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9506 + 10\,281\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9490 + 10\,281\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9474 + 10\,281\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9458 + 10\,281\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9442 + 10\,281\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9426 + 10\,281\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9410 + 10\,281\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x) (5+x)^{30} (-122 + 105\,x - 20\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1082 - 1023\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9722 + 10\,289\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9706 + 10\,289\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (969 - 932\,x + 262\,x^2 - 28\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9674 + 10\,289\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9658 + 10\,289\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9642 + 10\,289\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9626 + 10\,289\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9610 + 10\,289\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9594 + 10\,289\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9578 + 10\,289\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9562 + 10\,289\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9546 + 10\,289\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9530 + 10\,289\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9514 + 10\,289\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9498 + 10\,289\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (862 - 857\,x + 245\,x^2 - 27\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (-5+x) (5+x)^{30} (-218 + 161\,x - 24\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9794 + 10\,297\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9778 + 10\,297\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9762 + 10\,297\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9746 + 10\,297\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9730 + 10\,297\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9714 + 10\,297\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9698 + 10\,297\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9682 + 10\,297\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9666 + 10\,297\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9650 + 10\,297\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9634 + 10\,297\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (21 - 14\,x + x^2) (-458 + 185\,x - 24\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9602 + 10\,297\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9586 + 10\,297\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (870 - 857\,x + 245\,x^2 - 27\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1098 - 1023\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9866 + 10\,305\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (-5+x) (5+x)^{30} (-197 + 147\,x - 23\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9834 + 10\,305\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9818 + 10\,305\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9802 + 10\,305\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9786 + 10\,305\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9770 + 10\,305\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9754 + 10\,305\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9738 + 10\,305\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9722 + 10\,305\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9706 + 10\,305\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (95 - 20\,x + x^2) (-102 + 87\,x - 18\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9674 + 10\,305\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (878 - 857\,x + 245\,x^2 - 27\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1106 - 1023\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9938 + 10\,313\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9922 + 10\,313\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9906 + 10\,313\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (1978 - 1667\,x + 377\,x^2 - 33\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9874 + 10\,313\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9858 + 10\,313\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9842 + 10\,313\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9826 + 10\,313\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9810 + 10\,313\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9794 + 10\,313\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9778 + 10\,313\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9762 + 10\,313\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (886 - 857\,x + 245\,x^2 - 27\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1114 - 1023\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (1001 - 932\,x + 262\,x^2 - 28\,x^3 + x^4),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (19-12x+x^2) (-526+211x-26x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9978+10321x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9962+10321x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9946+10321x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (1986-1667x+377x^2-33x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9914+10321x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9898+10321x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9882+10321x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9866+10321x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9850+10321x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (894-857x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1122-1023x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10082+10329x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10066+10329x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10050+10329x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10034+10329x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10018+10329x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10002+10329x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9986+10329x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (1994-1667x+377x^2-33x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9954+10329x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9938+10329x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (902-857x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-10+x) (-9+x)^{11} (5+x)^{30} (-113+91x-19x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10154+10337x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10138+10337x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10122+10337x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10106+10337x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10090+10337x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10074+10337x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10058+10337x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10042+10337x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10026+10337x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (-5+x) (5+x)^{30} (-182+135x-22x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (-2+x) (5+x)^{30} (-569+227x-27x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10226+10345x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10210+10345x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10194+10345x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10178+10345x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10162+10345x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10146+10345x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10130+10345x-3552x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10114 + 10345x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (918 - 857x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1146 - 1023x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10298 + 10353x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10282 + 10353x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10266 + 10353x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10250 + 10353x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10234 + 10353x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10218 + 10353x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10202 + 10353x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (926 - 857x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1154 - 1023x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10370 + 10361x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10354 + 10361x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10338 + 10361x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10322 + 10361x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10306 + 10361x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10290 + 10361x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (-2+x) (5+x)^{30} (-467 + 195x - 25x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1162 - 1023x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10442 + 10369x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10426 + 10369x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10410 + 10369x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10394 + 10369x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10378 + 10369x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (942 - 857x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1170 - 1023x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10514 + 10377x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10498 + 10377x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10482 + 10377x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10466 + 10377x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (25 - 14x + x^2) (38 - 13x + x^2), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1178 - 1023x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10586 + 10385x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10570 + 10385x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10554 + 10385x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (958 - 857x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1186 - 1023x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10658 + 10393x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10642 + 10393x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (966 - 857x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1194 - 1023x + 281x^2 - 29x^3 + x^4),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10730+10401x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (974-857x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1202-1023x+281x^2-29x^3+x^4), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (982-857x+245x^2-27x^3+x^4), \\
& (-11+x)^3 (-9+x)^{11} (5+x)^{30} (-110+83x-18x^2+x^3), \\
& (-13+x) (-11+x)^2 (-9+x)^{11} (-7+x) (5+x)^{30} (10-9x+x^2), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (918-1019x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1178-1273x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (926-1019x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8318+10097x-3548x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1186-1273x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (934-1019x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8390+10105x-3548x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8374+10105x-3548x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1194-1273x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (942-1019x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8462+10113x-3548x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8446+10113x-3548x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8430+10113x-3548x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1202-1273x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (950-1019x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8534+10121x-3548x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8518+10121x-3548x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8502+10121x-3548x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8486+10121x-3548x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1210-1273x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (958-1019x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8606+10129x-3548x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8590+10129x-3548x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8574+10129x-3548x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8558+10129x-3548x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8542+10129x-3548x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x)^2 (5+x)^{30} (-174+157x-24x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (-6+x) (5+x)^{30} (-161+143x-23x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8678+10137x-3548x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8662+10137x-3548x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8646+10137x-3548x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8630+10137x-3548x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8614+10137x-3548x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8598+10137x-3548x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1226-1273x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (974-1019x+281x^2-29x^3+x^4),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8750 + 10\,145\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8734 + 10\,145\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8718 + 10\,145\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8702 + 10\,145\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8686 + 10\,145\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8670 + 10\,145\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8654 + 10\,145\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1234 - 1273\,x + 325\,x^2 - 31\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (982 - 1019\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8822 + 10\,153\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (14 - 11\,x + x^2) (-629 + 231\,x - 27\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (-6+x) (5+x)^{30} (1465 - 1448\,x + 350\,x^2 - 32\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8774 + 10\,153\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8758 + 10\,153\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8742 + 10\,153\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8726 + 10\,153\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8710 + 10\,153\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1242 - 1273\,x + 325\,x^2 - 31\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{12} (5+x)^{30} (-110 + 101\,x - 20\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8894 + 10\,161\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8878 + 10\,161\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8862 + 10\,161\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8846 + 10\,161\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8830 + 10\,161\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8814 + 10\,161\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8798 + 10\,161\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8782 + 10\,161\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8766 + 10\,161\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1250 - 1273\,x + 325\,x^2 - 31\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (998 - 1019\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8966 + 10\,169\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8950 + 10\,169\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8934 + 10\,169\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8918 + 10\,169\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8902 + 10\,169\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-6+x) (5+x)^{30} (1481 - 1448\,x + 350\,x^2 - 32\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8870 + 10\,169\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8854 + 10\,169\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8838 + 10\,169\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8822 + 10\,169\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1258 - 1273\,x + 325\,x^2 - 31\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1006 - 1019\,x + 281\,x^2 - 29\,x^3 + x^4),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9038 + 10\,177\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (13 - 10\,x + x^2) (-694 + 249\,x - 28\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9006 + 10\,177\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8990 + 10\,177\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8974 + 10\,177\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8958 + 10\,177\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8942 + 10\,177\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8926 + 10\,177\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8910 + 10\,177\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8894 + 10\,177\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8878 + 10\,177\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1266 - 1273\,x + 325\,x^2 - 31\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1014 - 1019\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9110 + 10\,185\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9094 + 10\,185\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9078 + 10\,185\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9062 + 10\,185\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9046 + 10\,185\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9030 + 10\,185\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9014 + 10\,185\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8998 + 10\,185\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-6+x) (5+x)^{30} (1497 - 1448\,x + 350\,x^2 - 32\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8966 + 10\,185\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8950 + 10\,185\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8934 + 10\,185\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1274 - 1273\,x + 325\,x^2 - 31\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1022 - 1019\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9182 + 10\,193\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9166 + 10\,193\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9150 + 10\,193\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9134 + 10\,193\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9118 + 10\,193\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9102 + 10\,193\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (59 - 16\,x + x^2) (-154 + 131\,x - 22\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9070 + 10\,193\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9054 + 10\,193\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9038 + 10\,193\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9022 + 10\,193\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9006 + 10\,193\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8990 + 10\,193\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1282 - 1273\,x + 325\,x^2 - 31\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1030 - 1019\,x + 281\,x^2 - 29\,x^3 + x^4),
\end{aligned}$$

(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9254+10201x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9238+10201x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(106-21x+x²)(-87+79x-17x²+x³),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9206+10201x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9190+10201x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9174+10201x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9158+10201x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9142+10201x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9126+10201x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9110+10201x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9094+10201x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(-6+x)(5+x)³⁰(1513-1448x+350x²-32x³+x⁴),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9062+10201x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9046+10201x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(-7+x)(5+x)³⁰(1290-1273x+325x²-31x³+x⁴),
(-11+x)²(-9+x)¹¹(5+x)³⁰(1038-1019x+281x²-29x³+x⁴),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9326+10209x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9310+10209x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9294+10209x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9278+10209x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9262+10209x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(69-18x+x²)(-134+113x-20x²+x³),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9230+10209x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9214+10209x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9198+10209x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9182+10209x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9166+10209x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9150+10209x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9134+10209x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9118+10209x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9102+10209x-3548x²+542x³-38x⁴+x⁵),
(-11+x)³(-9+x)¹⁰(-7+x)(5+x)³⁰(-118+105x-20x²+x³),
(-11+x)²(-9+x)¹¹(5+x)³⁰(1046-1019x+281x²-29x³+x⁴),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9398+10217x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9382+10217x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9366+10217x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9350+10217x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9334+10217x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9318+10217x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9302+10217x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9286+10217x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9270+10217x-3548x²+542x³-38x⁴+x⁵),

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9254 + 10\,217\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9238 + 10\,217\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9222 + 10\,217\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9206 + 10\,217\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9190 + 10\,217\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (-6+x) (5+x)^{30} (-139 + 119\,x - 21\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1054 - 1019\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9470 + 10\,225\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9454 + 10\,225\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9438 + 10\,225\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9422 + 10\,225\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9406 + 10\,225\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9390 + 10\,225\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9374 + 10\,225\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9358 + 10\,225\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9342 + 10\,225\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9326 + 10\,225\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (95 - 20\,x + x^2) (-98 + 87\,x - 18\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9294 + 10\,225\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9278 + 10\,225\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (842 - 853\,x + 245\,x^2 - 27\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1062 - 1019\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9542 + 10\,233\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9526 + 10\,233\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9510 + 10\,233\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9494 + 10\,233\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9478 + 10\,233\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9462 + 10\,233\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9446 + 10\,233\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9430 + 10\,233\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9414 + 10\,233\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9398 + 10\,233\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9382 + 10\,233\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9366 + 10\,233\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (850 - 853\,x + 245\,x^2 - 27\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (-5+x) (5+x)^{30} (-214 + 161\,x - 24\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9614 + 10\,241\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9598 + 10\,241\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9582 + 10\,241\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9566 + 10\,241\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9550 + 10\,241\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (21 - 14\,x + x^2) (-454 + 185\,x - 24\,x^2 + x^3),
\end{aligned}$$

(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9518+10241x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9502+10241x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9486+10241x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9470+10241x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9454+10241x-3548x²+542x³-38x⁴+x⁵),
(-11+x)³(-9+x)¹⁰(5+x)³⁰(858-853x+245x²-27x³+x⁴),
(-11+x)²(-9+x)¹¹(5+x)³⁰(1078-1019x+281x²-29x³+x⁴),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9686+10249x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(-5+x)(5+x)³⁰(1934-1663x+377x²-33x³+x⁴),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9654+10249x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9638+10249x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9622+10249x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9606+10249x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9590+10249x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9574+10249x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9558+10249x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9542+10249x-3548x²+542x³-38x⁴+x⁵),
(-11+x)³(-9+x)¹⁰(5+x)³⁰(866-853x+245x²-27x³+x⁴),
(-11+x)²(-9+x)¹¹(5+x)³⁰(1086-1019x+281x²-29x³+x⁴),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9758+10257x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9742+10257x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9726+10257x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(-5+x)(5+x)³⁰(1942-1663x+377x²-33x³+x⁴),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9694+10257x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9678+10257x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9662+10257x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9646+10257x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9630+10257x-3548x²+542x³-38x⁴+x⁵),
(-11+x)³(-9+x)¹⁰(5+x)³⁰(874-853x+245x²-27x³+x⁴),
(-11+x)²(-9+x)¹¹(5+x)³⁰(1094-1019x+281x²-29x³+x⁴),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9830+10265x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9814+10265x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9798+10265x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9782+10265x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9766+10265x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(-5+x)(5+x)³⁰(1950-1663x+377x²-33x³+x⁴),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9734+10265x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9718+10265x-3548x²+542x³-38x⁴+x⁵),
(-11+x)³(-9+x)¹⁰(5+x)³⁰(882-853x+245x²-27x³+x⁴),
(-11+x)²(-9+x)¹¹(5+x)³⁰(58-17x+x²)(19-12x+x²),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9902+10273x-3548x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9886+10273x-3548x²+542x³-38x⁴+x⁵),

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9870 + 10\,273\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9854 + 10\,273\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9838 + 10\,273\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9822 + 10\,273\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9806 + 10\,273\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (-5+x) (5+x)^{30} (-178 + 135\,x - 22\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1110 - 1019\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9974 + 10\,281\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9958 + 10\,281\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9942 + 10\,281\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9926 + 10\,281\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9910 + 10\,281\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9894 + 10\,281\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (898 - 853\,x + 245\,x^2 - 27\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1118 - 1019\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,046 + 10\,289\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,030 + 10\,289\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,014 + 10\,289\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9998 + 10\,289\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9982 + 10\,289\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (906 - 853\,x + 245\,x^2 - 27\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1126 - 1019\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,118 + 10\,297\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,102 + 10\,297\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,086 + 10\,297\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,070 + 10\,297\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (914 - 853\,x + 245\,x^2 - 27\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1134 - 1019\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,190 + 10\,305\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,174 + 10\,305\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,158 + 10\,305\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (922 - 853\,x + 245\,x^2 - 27\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1142 - 1019\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,262 + 10\,313\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,246 + 10\,313\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (930 - 853\,x + 245\,x^2 - 27\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (46 - 15\,x + x^2) (25 - 14\,x + x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,334 + 10\,321\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (938 - 853\,x + 245\,x^2 - 27\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1158 - 1019\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (946 - 853\,x + 245\,x^2 - 27\,x^3 + x^4), \\
& (-11+x)^3 (-9+x)^{11} (5+x)^{30} (-106 + 83\,x - 18\,x^2 + x^3),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{11} (-7+x) (5+x)^{30} (-126+127x-22x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (890-1015x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1142-1269x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (898-1015x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8066+10033x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1150-1269x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (906-1015x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8138+10041x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8122+10041x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1158-1269x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (914-1015x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8210+10049x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8194+10049x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8178+10049x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1166-1269x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (922-1015x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8282+10057x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8266+10057x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8250+10057x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8234+10057x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1174-1269x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (930-1015x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8354+10065x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8338+10065x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8322+10065x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8306+10065x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8290+10065x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1182-1269x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (938-1015x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8426+10073x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8410+10073x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8394+10073x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8378+10073x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8362+10073x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8346+10073x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (-7+x)^2 (5+x)^{30} (17-14x+x^2), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (946-1015x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8498+10081x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8482+10081x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8466+10081x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8450+10081x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8434+10081x-3544x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8418+10\,081x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8402+10\,081x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1198-1269x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{12} (5+x)^{30} (-106+101x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8570+10\,089x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8554+10\,089x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8538+10\,089x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8522+10\,089x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8506+10\,089x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (849-924x+262x^2-28x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8474+10\,089x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8458+10\,089x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1206-1269x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (962-1015x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8642+10\,097x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8626+10\,097x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8610+10\,097x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8594+10\,097x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8578+10\,097x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8562+10\,097x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8546+10\,097x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8530+10\,097x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8514+10\,097x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1214-1269x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (970-1015x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8714+10\,105x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8698+10\,105x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8682+10\,105x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8666+10\,105x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (865-924x+262x^2-28x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8634+10\,105x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8618+10\,105x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8602+10\,105x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8586+10\,105x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8570+10\,105x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1222-1269x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (978-1015x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8786+10\,113x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8770+10\,113x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8754+10\,113x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8738+10\,113x-3544x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8722+10\,113x-3544x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8706 + 10\,113\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8690 + 10\,113\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8674 + 10\,113\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8658 + 10\,113\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8642 + 10\,113\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8626 + 10\,113\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (82 - 19\,x + x^2) (15 - 12\,x + x^2), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (986 - 1015\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8858 + 10\,121\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8842 + 10\,121\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8826 + 10\,121\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (881 - 924\,x + 262\,x^2 - 28\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8794 + 10\,121\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8778 + 10\,121\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8762 + 10\,121\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8746 + 10\,121\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8730 + 10\,121\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8714 + 10\,121\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8698 + 10\,121\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8682 + 10\,121\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1238 - 1269\,x + 325\,x^2 - 31\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (994 - 1015\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8930 + 10\,129\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8914 + 10\,129\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8898 + 10\,129\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8882 + 10\,129\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8866 + 10\,129\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (59 - 16\,x + x^2) (-150 + 131\,x - 22\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8834 + 10\,129\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8818 + 10\,129\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8802 + 10\,129\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8786 + 10\,129\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8770 + 10\,129\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8754 + 10\,129\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8738 + 10\,129\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1246 - 1269\,x + 325\,x^2 - 31\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1002 - 1015\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9002 + 10\,137\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8986 + 10\,137\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (69 - 18\,x + x^2) (13 - 10\,x + x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8954 + 10\,137\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8938 + 10\,137\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8922 + 10\,137\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8906 + 10\,137\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8890 + 10\,137\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8874 + 10\,137\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8858 + 10\,137\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8842 + 10\,137\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8826 + 10\,137\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8810 + 10\,137\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8794 + 10\,137\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x) (5+x)^{30} (-114 + 105\,x - 20\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1010 - 1015\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9074 + 10\,145\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9058 + 10\,145\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9042 + 10\,145\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9026 + 10\,145\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9010 + 10\,145\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8994 + 10\,145\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8978 + 10\,145\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8962 + 10\,145\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8946 + 10\,145\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (95 - 20\,x + x^2) (-94 + 87\,x - 18\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8914 + 10\,145\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8898 + 10\,145\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8882 + 10\,145\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (806 - 849\,x + 245\,x^2 - 27\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1018 - 1015\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9146 + 10\,153\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (913 - 924\,x + 262\,x^2 - 28\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9114 + 10\,153\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9098 + 10\,153\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9082 + 10\,153\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9066 + 10\,153\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9050 + 10\,153\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9034 + 10\,153\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9018 + 10\,153\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9002 + 10\,153\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8986 + 10\,153\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8970 + 10\,153\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (814 - 849\,x + 245\,x^2 - 27\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1026 - 1015\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9218 + 10\,161\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9202 + 10\,161\,x - 3544\,x^2 + 542\,x^3 - 38\,x^4 + x^5),
\end{aligned}$$

(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9186+10161x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9170+10161x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9154+10161x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9138+10161x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9122+10161x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9106+10161x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9090+10161x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9074+10161x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9058+10161x-3544x²+542x³-38x⁴+x⁵),
(-11+x)³(-9+x)¹⁰(5+x)³⁰(822-849x+245x²-27x³+x⁴),
(-11+x)²(-9+x)¹¹(5+x)³⁰(1034-1015x+281x²-29x³+x⁴),
(-11+x)²(-10+x)(-9+x)¹⁰(5+x)³⁰(929-924x+262x²-28x³+x⁴),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9274+10169x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9258+10169x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9242+10169x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9226+10169x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9210+10169x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9194+10169x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9178+10169x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9162+10169x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9146+10169x-3544x²+542x³-38x⁴+x⁵),
(-11+x)³(-9+x)¹⁰(5+x)³⁰(830-849x+245x²-27x³+x⁴),
(-11+x)²(-9+x)¹¹(5+x)³⁰(1042-1015x+281x²-29x³+x⁴),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9362+10177x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9346+10177x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9330+10177x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9314+10177x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9298+10177x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9282+10177x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9266+10177x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9250+10177x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9234+10177x-3544x²+542x³-38x⁴+x⁵),
(-11+x)³(-9+x)¹⁰(5+x)³⁰(838-849x+245x²-27x³+x⁴),
(-11+x)²(-10+x)(-9+x)¹¹(-5+x)(5+x)³⁰(21-14x+x²),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9434+10185x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9418+10185x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9402+10185x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9386+10185x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9370+10185x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9354+10185x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9338+10185x-3544x²+542x³-38x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9322+10185x-3544x²+542x³-38x⁴+x⁵),

$$\begin{aligned}
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (846 - 849x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1058 - 1015x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9506 + 10193x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (1898 - 1659x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9474 + 10193x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9458 + 10193x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9442 + 10193x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9426 + 10193x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9410 + 10193x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (854 - 849x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1066 - 1015x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9578 + 10201x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9562 + 10201x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9546 + 10201x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (1906 - 1659x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9514 + 10201x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9498 + 10201x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (862 - 849x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1074 - 1015x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9650 + 10209x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9634 + 10209x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9618 + 10209x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9602 + 10209x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9586 + 10209x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (-5+x) (5+x)^{30} (-174 + 135x - 22x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1082 - 1015x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9722 + 10217x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9706 + 10217x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9690 + 10217x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9674 + 10217x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (878 - 849x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1090 - 1015x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9794 + 10225x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9778 + 10225x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9762 + 10225x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (886 - 849x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1098 - 1015x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9866 + 10233x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9850 + 10233x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (894 - 849x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1106 - 1015x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9938 + 10241x - 3544x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (902 - 849x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1114 - 1015x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (910 - 849x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^3 (-9+x)^{11} (-2+x) (5+x)^{30} (51 - 16x + x^2), \\
& (-11+x)^2 (-9+x)^{11} (-7+x) (5+x)^{30} (-122 + 127x - 22x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (862 - 1011x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1106 - 1265x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (870 - 1011x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7814 + 9969x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1114 - 1265x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (878 - 1011x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7886 + 9977x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7870 + 9977x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1122 - 1265x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (886 - 1011x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7958 + 9985x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7942 + 9985x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7926 + 9985x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1130 - 1265x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (894 - 1011x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8030 + 9993x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8014 + 9993x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7998 + 9993x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7982 + 9993x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1138 - 1265x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (902 - 1011x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8102 + 10001x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8086 + 10001x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8070 + 10001x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8054 + 10001x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8038 + 10001x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1146 - 1265x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (910 - 1011x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8174 + 10009x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8158 + 10009x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8142 + 10009x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8126 + 10009x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (10 - 9x + x^2) (-811 + 271x - 29x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8094 + 10009x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1154 - 1265x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{12} (-6+x) (5+x)^{30} (17 - 14x + x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8246 + 10017x - 3540x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8230+10\,017x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8214+10\,017x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8198+10\,017x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8182+10\,017x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8166+10\,017x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8150+10\,017x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x)^2 (5+x)^{30} (-166+157x-24x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (926-1011x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8318+10\,025x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8302+10\,025x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8286+10\,025x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8270+10\,025x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8254+10\,025x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8238+10\,025x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8222+10\,025x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8206+10\,025x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1170-1265x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (934-1011x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8390+10\,033x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (106-21x+x^2) (-79+79x-17x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (-6+x) (5+x)^{30} (1393-1440x+350x^2-32x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8342+10\,033x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8326+10\,033x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8310+10\,033x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8294+10\,033x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8278+10\,033x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8262+10\,033x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1178-1265x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (942-1011x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8462+10\,041x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8446+10\,041x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8430+10\,041x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8414+10\,041x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8398+10\,041x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8382+10\,041x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8366+10\,041x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8350+10\,041x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8334+10\,041x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8318+10\,041x-3540x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1186-1265x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (950-1011x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8534+10\,049x-3540x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8518+10\,049\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8502+10\,049\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8486+10\,049\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8470+10\,049\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-6+x) (5+x)^{30} (1409-1440\,x+350\,x^2-32\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8438+10\,049\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8422+10\,049\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8406+10\,049\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8390+10\,049\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8374+10\,049\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1194-1265\,x+325\,x^2-31\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (958-1011\,x+281\,x^2-29\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8606+10\,057\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8590+10\,057\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8574+10\,057\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8558+10\,057\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8542+10\,057\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8526+10\,057\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8510+10\,057\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8494+10\,057\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8478+10\,057\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8462+10\,057\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8446+10\,057\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8430+10\,057\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1202-1265\,x+325\,x^2-31\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (69-18\,x+x^2) (14-11\,x+x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8678+10\,065\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8662+10\,065\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8646+10\,065\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8630+10\,065\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (59-16\,x+x^2) (-146+131\,x-22\,x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8598+10\,065\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8582+10\,065\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8566+10\,065\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-6+x) (5+x)^{30} (95-20\,x+x^2) (15-12\,x+x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8534+10\,065\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8518+10\,065\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8502+10\,065\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8486+10\,065\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x) (5+x)^{30} (-110+105\,x-20\,x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (974-1011\,x+281\,x^2-29\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8750+10\,073\,x-3540\,x^2+542\,x^3-38\,x^4+x^5),
\end{aligned}$$

(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8734+10 073 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8718+10 073 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8702+10 073 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8686+10 073 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8670+10 073 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8654+10 073 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8638+10 073 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8622+10 073 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8606+10 073 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8590+10 073 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8574+10 073 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)³(-9+x)¹⁰(5+x)³⁰(778-845 x+245 x²-27 x³+x⁴),
(-11+x)²(-9+x)¹¹(5+x)³⁰(982-1011 x+281 x²-29 x³+x⁴),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8822+10 081 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8806+10 081 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8790+10 081 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8774+10 081 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8758+10 081 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8742+10 081 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8726+10 081 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8710+10 081 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8694+10 081 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8678+10 081 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8662+10 081 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)³(-9+x)¹⁰(-6+x)(5+x)³⁰(-131+119 x-21 x²+x³),
(-11+x)²(-9+x)¹¹(5+x)³⁰(990-1011 x+281 x²-29 x³+x⁴),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8894+10 089 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8878+10 089 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8862+10 089 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8846+10 089 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8830+10 089 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8814+10 089 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8798+10 089 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8782+10 089 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8766+10 089 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8750+10 089 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)³(-9+x)¹⁰(5+x)³⁰(794-845 x+245 x²-27 x³+x⁴),
(-11+x)²(-9+x)¹¹(5+x)³⁰(998-1011 x+281 x²-29 x³+x⁴),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8966+10 097 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8950+10 097 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8934+10 097 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(13-10 x+x²)(-686+249 x-28 x²+x³),

(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8902+10 097 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8886+10 097 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8870+10 097 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8854+10 097 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8838+10 097 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)³(-9+x)¹⁰(5+x)³⁰(802-845 x+245 x²-27 x³+x⁴),
(-11+x)²(-9+x)¹¹(5+x)³⁰(1006-1011 x+281 x²-29 x³+x⁴),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9038+10 105 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9022+10 105 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9006+10 105 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8990+10 105 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8974+10 105 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8958+10 105 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8942+10 105 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-8926+10 105 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)³(-9+x)¹⁰(5+x)³⁰(810-845 x+245 x²-27 x³+x⁴),
(-11+x)²(-9+x)¹¹(5+x)³⁰(1014-1011 x+281 x²-29 x³+x⁴),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9110+10 113 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9094+10 113 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9078+10 113 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9062+10 113 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9046+10 113 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9030+10 113 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9014+10 113 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)³(-9+x)¹⁰(5+x)³⁰(818-845 x+245 x²-27 x³+x⁴),
(-11+x)²(-9+x)¹¹(5+x)³⁰(1022-1011 x+281 x²-29 x³+x⁴),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9182+10 121 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9166+10 121 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9150+10 121 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9134+10 121 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9118+10 121 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9102+10 121 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)³(-9+x)¹⁰(5+x)³⁰(826-845 x+245 x²-27 x³+x⁴),
(-11+x)²(-9+x)¹¹(-5+x)(5+x)³⁰(-206+161 x-24 x²+x³),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9254+10 129 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9238+10 129 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9222+10 129 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9206+10 129 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9190+10 129 x-3540 x²+542 x³-38 x⁴+x⁵),
(-11+x)³(-9+x)¹⁰(5+x)³⁰(834-845 x+245 x²-27 x³+x⁴),
(-11+x)²(-9+x)¹¹(5+x)³⁰(1038-1011 x+281 x²-29 x³+x⁴),
(-11+x)²(-9+x)¹⁰(5+x)³⁰(-9326+10 137 x-3540 x²+542 x³-38 x⁴+x⁵)

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (1862 - 1655x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9294 + 10137x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9278 + 10137x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (842 - 845x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1046 - 1011x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9398 + 10145x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9382 + 10145x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9366 + 10145x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (-5+x) (5+x)^{30} (-170 + 135x - 22x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1054 - 1011x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9470 + 10153x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9454 + 10153x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (858 - 845x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1062 - 1011x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9542 + 10161x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (866 - 845x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1070 - 1011x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (874 - 845x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^3 (-9+x)^{11} (5+x)^{30} (-98 + 83x - 18x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (-7+x) (5+x)^{30} (-118 + 127x - 22x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (834 - 1007x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1070 - 1261x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (842 - 1007x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7562 + 9905x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1078 - 1261x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (850 - 1007x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7634 + 9913x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7618 + 9913x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1086 - 1261x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (858 - 1007x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7706 + 9921x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7690 + 9921x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7674 + 9921x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1094 - 1261x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (866 - 1007x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7778 + 9929x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7762 + 9929x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7746 + 9929x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7730 + 9929x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1102 - 1261x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (874 - 1007x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7850 + 9937x - 3536x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7834+9937x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7818+9937x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7802+9937x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7786+9937x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (-7+x) (5+x)^{30} (-111+115x-21x^2+x^3), \\
& (-11+x)^2 (-9+x)^{12} (5+x)^{30} (-98+101x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7922+9945x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7906+9945x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7890+9945x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7874+9945x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7858+9945x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7842+9945x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1118-1261x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (890-1007x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7994+9953x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7978+9953x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7962+9953x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7946+9953x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (793-916x+262x^2-28x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7914+9953x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7898+9953x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1126-1261x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (898-1007x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8066+9961x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8050+9961x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8034+9961x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8018+9961x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8002+9961x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7986+9961x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7970+9961x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (82-19x+x^2) (-97+99x-19x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (-7+x)^2 (5+x)^{30} (-162+157x-24x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (906-1007x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8138+9969x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8122+9969x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8106+9969x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (809-916x+262x^2-28x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8074+9969x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8058+9969x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8042+9969x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8026+9969x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8010+9969x-3536x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1142 - 1261x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (914 - 1007x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8210 + 9977x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8194 + 9977x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8178 + 9977x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8162 + 9977x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8146 + 9977x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8130 + 9977x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8114 + 9977x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8098 + 9977x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8082 + 9977x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8066 + 9977x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1150 - 1261x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (922 - 1007x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8282 + 9985x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8266 + 9985x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (825 - 916x + 262x^2 - 28x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8234 + 9985x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8218 + 9985x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8202 + 9985x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8186 + 9985x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (95 - 20x + x^2) (-86 + 87x - 18x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8154 + 9985x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8138 + 9985x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8122 + 9985x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1158 - 1261x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (930 - 1007x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8354 + 9993x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8338 + 9993x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8322 + 9993x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8306 + 9993x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8290 + 9993x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8274 + 9993x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8258 + 9993x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8242 + 9993x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8226 + 9993x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8210 + 9993x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8194 + 9993x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8178 + 9993x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x) (5+x)^{30} (-106 + 105x - 20x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (938 - 1007x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8426 + 10001x - 3536x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (841-916x+262x^2-28x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8394+10001x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (59-16x+x^2) (-142+131x-22x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8362+10001x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8346+10001x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8330+10001x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8314+10001x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8298+10001x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8282+10001x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8266+10001x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (750-841x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (946-1007x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8498+10009x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8482+10009x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8466+10009x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8450+10009x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8434+10009x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8418+10009x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8402+10009x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8386+10009x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8370+10009x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8354+10009x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (758-841x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (954-1007x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (857-916x+262x^2-28x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8554+10017x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8538+10017x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8522+10017x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8506+10017x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (15-12x+x^2) (-566+215x-26x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8474+10017x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8458+10017x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8442+10017x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (766-841x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (962-1007x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8642+10025x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8626+10025x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8610+10025x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8594+10025x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8578+10025x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8562+10025x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8546+10025x-3536x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8530 + 10\,025\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (774 - 841\,x + 245\,x^2 - 27\,x^3 + x^4), \\
& (-11+x)^2 (-10+x) (-9+x)^{11} (5+x)^{30} (-97 + 91\,x - 19\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8714 + 10\,033\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8698 + 10\,033\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8682 + 10\,033\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8666 + 10\,033\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8650 + 10\,033\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8634 + 10\,033\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8618 + 10\,033\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (782 - 841\,x + 245\,x^2 - 27\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (978 - 1007\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8786 + 10\,041\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8770 + 10\,041\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8754 + 10\,041\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8738 + 10\,041\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8722 + 10\,041\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8706 + 10\,041\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (790 - 841\,x + 245\,x^2 - 27\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (986 - 1007\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8858 + 10\,049\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8842 + 10\,049\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8826 + 10\,049\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8810 + 10\,049\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8794 + 10\,049\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (798 - 841\,x + 245\,x^2 - 27\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (994 - 1007\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8930 + 10\,057\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8914 + 10\,057\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8898 + 10\,057\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8882 + 10\,057\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (62 - 17\,x + x^2) (13 - 10\,x + x^2), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1002 - 1007\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9002 + 10\,065\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8986 + 10\,065\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8970 + 10\,065\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (814 - 841\,x + 245\,x^2 - 27\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (-5+x) (5+x)^{30} (-202 + 161\,x - 24\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9074 + 10\,073\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9058 + 10\,073\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (822 - 841\,x + 245\,x^2 - 27\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1018 - 1007\,x + 281\,x^2 - 29\,x^3 + x^4),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9146+10\,081x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (-5+x) (5+x)^{30} (-166+135x-22x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1026-1007x+281x^2-29x^3+x^4), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (838-841x+245x^2-27x^3+x^4), \\
& (-11+x)^3 (-9+x)^{11} (5+x)^{30} (-94+83x-18x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (-7+x) (5+x)^{30} (-114+127x-22x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (806-1003x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1034-1257x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (814-1003x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7310+9841x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1042-1257x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (822-1003x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7382+9849x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7366+9849x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1050-1257x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (830-1003x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7454+9857x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7438+9857x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7422+9857x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1058-1257x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (838-1003x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (106-21x+x^2) (-71+79x-17x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7510+9865x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7494+9865x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7478+9865x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1066-1257x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{12} (5+x)^{30} (-94+101x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7598+9873x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7582+9873x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7566+9873x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7550+9873x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7534+9873x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1074-1257x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (854-1003x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7670+9881x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7654+9881x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7638+9881x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7622+9881x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7606+9881x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7590+9881x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1082-1257x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (862-1003x+281x^2-29x^3+x^4),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7742+9889x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7726+9889x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7710+9889x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7694+9889x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7678+9889x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7662+9889x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7646+9889x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1090-1257x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (-6+x) (5+x)^{30} (-145+143x-23x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7814+9897x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7798+9897x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7782+9897x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7766+9897x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7750+9897x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7734+9897x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7718+9897x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7702+9897x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1098-1257x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (878-1003x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7886+9905x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7870+9905x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7854+9905x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7838+9905x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7822+9905x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7806+9905x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (95-20x+x^2) (-82+87x-18x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7774+9905x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7758+9905x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x)^2 (5+x)^{30} (-158+157x-24x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (886-1003x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7958+9913x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7942+9913x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-6+x) (5+x)^{30} (1321-1432x+350x^2-32x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7910+9913x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7894+9913x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7878+9913x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7862+9913x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7846+9913x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7830+9913x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7814+9913x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1114-1257x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (894-1003x+281x^2-29x^3+x^4),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8030+9921x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8014+9921x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7998+9921x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7982+9921x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7966+9921x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7950+9921x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7934+9921x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7918+9921x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7902+9921x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7886+9921x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7870+9921x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x) (5+x)^{30} (-102+105x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (902-1003x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8102+9929x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8086+9929x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8070+9929x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8054+9929x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8038+9929x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-6+x) (5+x)^{30} (1337-1432x+350x^2-32x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8006+9929x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7990+9929x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7974+9929x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7958+9929x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (722-837x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (910-1003x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8174+9937x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8158+9937x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (59-16x+x^2) (-138+131x-22x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8126+9937x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8110+9937x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8094+9937x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8078+9937x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8062+9937x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8046+9937x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (73-18x+x^2) (10-9x+x^2), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (918-1003x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8246+9945x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8230+9945x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8214+9945x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8198+9945x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8182+9945x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8166+9945x-3532x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8150+9945x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8134+9945x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (-6+x) (5+x)^{30} (-123+119x-21x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (926-1003x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8318+9953x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8302+9953x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8286+9953x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8270+9953x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8254+9953x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8238+9953x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8222+9953x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (746-837x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (934-1003x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8390+9961x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8374+9961x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8358+9961x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8342+9961x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8326+9961x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8310+9961x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (754-837x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (942-1003x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8462+9969x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8446+9969x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (15-12x+x^2) (-562+215x-26x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8414+9969x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8398+9969x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (762-837x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (950-1003x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8534+9977x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8518+9977x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8502+9977x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8486+9977x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (770-837x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (958-1003x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8606+9985x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8590+9985x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8574+9985x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (778-837x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (966-1003x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8678+9993x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8662+9993x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (786-837x+245x^2-27x^3+x^4),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (974 - 1003x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8750 + 10001x - 3532x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (794 - 837x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (982 - 1003x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (802 - 837x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^3 (-9+x)^{11} (-5+x) (5+x)^{30} (18 - 13x + x^2), \\
& (-11+x)^2 (-9+x)^{11} (-7+x) (5+x)^{30} (-110 + 127x - 22x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (778 - 999x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (998 - 1253x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (786 - 999x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7058 + 9777x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1006 - 1253x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (794 - 999x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7130 + 9785x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7114 + 9785x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1014 - 1253x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (802 - 999x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7202 + 9793x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7186 + 9793x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7170 + 9793x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1022 - 1253x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{12} (5+x)^{30} (-90 + 101x - 20x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7274 + 9801x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7258 + 9801x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7242 + 9801x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7226 + 9801x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (-7+x) (5+x)^{30} (-103 + 115x - 21x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (818 - 999x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7346 + 9809x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7330 + 9809x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7314 + 9809x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (82 - 19x + x^2) (-89 + 99x - 19x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7282 + 9809x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1038 - 1253x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (826 - 999x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7418 + 9817x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7402 + 9817x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7386 + 9817x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (737 - 908x + 262x^2 - 28x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7354 + 9817x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7338 + 9817x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1046 - 1253x + 325x^2 - 31x^3 + x^4),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (834 - 999x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7490 + 9825x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7474 + 9825x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7458 + 9825x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7442 + 9825x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7426 + 9825x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (95 - 20x + x^2) (-78 + 87x - 18x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7394 + 9825x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1054 - 1253x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (842 - 999x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7562 + 9833x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7546 + 9833x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (753 - 908x + 262x^2 - 28x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7514 + 9833x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7498 + 9833x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7482 + 9833x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7466 + 9833x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7450 + 9833x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1062 - 1253x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (850 - 999x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7634 + 9841x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7618 + 9841x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7602 + 9841x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7586 + 9841x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7570 + 9841x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7554 + 9841x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7538 + 9841x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7522 + 9841x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7506 + 9841x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1070 - 1253x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (858 - 999x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7706 + 9849x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (769 - 908x + 262x^2 - 28x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7674 + 9849x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7658 + 9849x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7642 + 9849x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7626 + 9849x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7610 + 9849x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7594 + 9849x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7578 + 9849x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7562 + 9849x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x)^2 (5+x)^{30} (14 - 13x + x^2),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (866 - 999x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7778 + 9857x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7762 + 9857x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7746 + 9857x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7730 + 9857x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7714 + 9857x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7698 + 9857x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7682 + 9857x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7666 + 9857x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7650 + 9857x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (694 - 833x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (874 - 999x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (785 - 908x + 262x^2 - 28x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7834 + 9865x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7818 + 9865x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7802 + 9865x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7786 + 9865x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7770 + 9865x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7754 + 9865x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (73 - 18x + x^2) (-106 + 109x - 20x^2 + x^3), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (702 - 833x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (882 - 999x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7922 + 9873x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (59 - 16x + x^2) (-134 + 131x - 22x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7890 + 9873x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7874 + 9873x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7858 + 9873x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7842 + 9873x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7826 + 9873x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (710 - 833x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-10+x) (-9+x)^{11} (5+x)^{30} (-89 + 91x - 19x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7994 + 9881x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7978 + 9881x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7962 + 9881x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7946 + 9881x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7930 + 9881x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7914 + 9881x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (718 - 833x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (898 - 999x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8066 + 9889x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8050 + 9889x - 3528x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8034 + 9889x - 3528x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8018+9889x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8002+9889x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (726-833x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (906-999x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8138+9897x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8122+9897x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8106+9897x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8090+9897x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (734-833x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (914-999x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8210+9905x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8194+9905x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8178+9905x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (742-833x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (922-999x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8282+9913x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8266+9913x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (750-833x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (62-17x+x^2)(15-12x+x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8354+9921x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (758-833x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (938-999x+281x^2-29x^3+x^4), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (766-833x+245x^2-27x^3+x^4), \\
& (-11+x)^3 (-9+x)^{11} (5+x)^{30} (-86+83x-18x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (-7+x)(-1+x)(5+x)^{30} (106-21x+x^2), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (750-995x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (-7+x)(5+x)^{30} (962-1249x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (758-995x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6806+9713x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x)(5+x)^{30} (970-1249x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (766-995x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6878+9721x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6862+9721x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x)(5+x)^{30} (978-1249x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{12} (5+x)^{30} (-86+101x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6950+9729x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6934+9729x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6918+9729x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x)(5+x)^{30} (986-1249x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (782-995x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7022+9737x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7006+9737x-3524x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6990+9737x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6974+9737x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (994-1249x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (790-995x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7094+9745x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7078+9745x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7062+9745x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7046+9745x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (95-20x+x^2) (-74+87x-18x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1002-1249x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (798-995x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7166+9753x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7150+9753x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7134+9753x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7118+9753x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7102+9753x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7086+9753x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1010-1249x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (806-995x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7238+9761x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7222+9761x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7206+9761x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7190+9761x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7174+9761x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7158+9761x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7142+9761x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1018-1249x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (814-995x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7310+9769x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7294+9769x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7278+9769x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7262+9769x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7246+9769x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7230+9769x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7214+9769x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7198+9769x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1026-1249x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (-6+x) (5+x)^{30} (-137+143x-23x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7382+9777x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7366+9777x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7350+9777x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7334+9777x-3524x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7318+9777x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7302+9777x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7286+9777x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7270+9777x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7254+9777x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x) (5+x)^{30} (-94+105x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (830-995x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7454+9785x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7438+9785x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7422+9785x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7406+9785x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7390+9785x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7374+9785x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7358+9785x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7342+9785x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (666-829x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (838-995x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7526+9793x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7510+9793x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-6+x) (5+x)^{30} (1249-1424x+350x^2-32x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7478+9793x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7462+9793x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (73-18x+x^2) (-102+109x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7430+9793x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (674-829x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (846-995x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7598+9801x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7582+9801x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7566+9801x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7550+9801x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7534+9801x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7518+9801x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (682-829x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (854-995x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (59-16x+x^2) (-130+131x-22x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7654+9809x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7638+9809x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7622+9809x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7606+9809x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (-6+x) (5+x)^{30} (-115+119x-21x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (862-995x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7742+9817x-3524x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7726+9817x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7710+9817x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7694+9817x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (698-829x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (870-995x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7814+9825x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7798+9825x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7782+9825x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (706-829x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (878-995x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7886+9833x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7870+9833x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (714-829x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (886-995x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7958+9841x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (722-829x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (894-995x+281x^2-29x^3+x^4), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (730-829x+245x^2-27x^3+x^4), \\
& (-11+x)^3 (-9+x)^{11} (5+x)^{30} (-82+83x-18x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (-7+x) (5+x)^{30} (-102+127x-22x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (722-991x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (926-1245x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (730-991x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6554+9649x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (934-1245x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{12} (-1+x) (5+x)^{30} (82-19x+x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6626+9657x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6610+9657x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (942-1245x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (746-991x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6698+9665x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6682+9665x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6666+9665x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (-7+x) (-1+x) (5+x)^{30} (95-20x+x^2), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (754-991x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6770+9673x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6754+9673x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6738+9673x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6722+9673x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (958-1245x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (762-991x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6842+9681x-3520x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6826+9681x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (681-900x+262x^2-28x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6794+9681x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6778+9681x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (966-1245x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (770-991x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6914+9689x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6898+9689x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6882+9689x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6866+9689x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6850+9689x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6834+9689x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (974-1245x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (778-991x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6986+9697x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (697-900x+262x^2-28x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6954+9697x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6938+9697x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6922+9697x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6906+9697x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6890+9697x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (982-1245x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (786-991x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7058+9705x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7042+9705x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7026+9705x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7010+9705x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6994+9705x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6978+9705x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6962+9705x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6946+9705x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x) (5+x)^{30} (-90+105x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (794-991x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (713-900x+262x^2-28x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7114+9713x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7098+9713x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7082+9713x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7066+9713x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7050+9713x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7034+9713x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (638-825x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (802-991x+281x^2-29x^3+x^4),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7202+9721x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7186+9721x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7170+9721x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (73-18x+x^2) (-98+109x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7138+9721x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7122+9721x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (646-825x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-10+x) (-9+x)^{11} (5+x)^{30} (-81+91x-19x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7274+9729x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7258+9729x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7242+9729x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7226+9729x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7210+9729x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (654-825x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (818-991x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7346+9737x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7330+9737x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7314+9737x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7298+9737x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (662-825x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (59-16x+x^2) (14-13x+x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7418+9745x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7402+9745x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7386+9745x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (670-825x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (834-991x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7490+9753x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7474+9753x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (678-825x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (842-991x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7562+9761x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (686-825x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (850-991x+281x^2-29x^3+x^4), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (694-825x+245x^2-27x^3+x^4), \\
& (-11+x)^3 (-9+x)^{11} (5+x)^{30} (-78+83x-18x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (-7+x) (5+x)^{30} (-98+127x-22x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (694-987x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (890-1241x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{12} (5+x)^{30} (-78+101x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6302+9585x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (898-1241x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (710-987x+281x^2-29x^3+x^4),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6374+9593x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6358+9593x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (906-1241x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (718-987x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6446+9601x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6430+9601x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6414+9601x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (914-1241x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (726-987x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6518+9609x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6502+9609x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6486+9609x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6470+9609x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (922-1241x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (-1+x) (5+x)^{30} (-734+253x-28x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6590+9617x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6574+9617x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6558+9617x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6542+9617x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6526+9617x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (930-1241x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (742-987x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6662+9625x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6646+9625x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6630+9625x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-1+x) (5+x)^{30} (6614-3011x+505x^2-37x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6598+9625x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6582+9625x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (938-1241x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (750-987x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6734+9633x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6718+9633x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6702+9633x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6686+9633x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6670+9633x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6654+9633x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6638+9633x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x) (-1+x) (5+x)^{30} (86-19x+x^2), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (758-987x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6806+9641x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6790+9641x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6774+9641x-3516x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6758+9641x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6742+9641x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6726+9641x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (610-821x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (766-987x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6878+9649x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (73-18x+x^2) (-94+109x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6846+9649x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6830+9649x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6814+9649x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (618-821x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (-6+x) (5+x)^{30} (-129+143x-23x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6950+9657x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6934+9657x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6918+9657x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6902+9657x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (626-821x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (782-987x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7022+9665x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7006+9665x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6990+9665x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (634-821x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (790-987x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7094+9673x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7078+9673x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (-6+x) (5+x)^{30} (-107+119x-21x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (798-987x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7166+9681x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (650-821x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (806-987x+281x^2-29x^3+x^4), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (658-821x+245x^2-27x^3+x^4), \\
& (-11+x)^3 (-9+x)^{11} (5+x)^{30} (-74+83x-18x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (-7+x) (5+x)^{30} (-94+127x-22x^2+x^3), \\
& (-11+x)^2 (-9+x)^{12} (5+x)^{30} (-74+101x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (854-1237x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (674-983x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6050+9521x-3512x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (862-1237x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (682-983x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6122+9529x-3512x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6106+9529x-3512x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (-7+x) (5+x)^{30} (-87+115x-21x^2+x^3),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (690 - 983x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6194 + 9537x - 3512x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6178 + 9537x - 3512x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6162 + 9537x - 3512x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (878 - 1237x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (698 - 983x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6266 + 9545x - 3512x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (625 - 892x + 262x^2 - 28x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6234 + 9545x - 3512x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6218 + 9545x - 3512x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (886 - 1237x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (706 - 983x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6338 + 9553x - 3512x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6322 + 9553x - 3512x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6306 + 9553x - 3512x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6290 + 9553x - 3512x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6274 + 9553x - 3512x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (894 - 1237x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (714 - 983x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (641 - 892x + 262x^2 - 28x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6394 + 9561x - 3512x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6378 + 9561x - 3512x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6362 + 9561x - 3512x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6346 + 9561x - 3512x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6330 + 9561x - 3512x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x) (5+x)^{30} (-82 + 105x - 20x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (722 - 983x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6482 + 9569x - 3512x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6466 + 9569x - 3512x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6450 + 9569x - 3512x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6434 + 9569x - 3512x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6418 + 9569x - 3512x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (582 - 817x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-10+x) (-9+x)^{11} (-1+x) (5+x)^{30} (73 - 18x + x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6554 + 9577x - 3512x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6538 + 9577x - 3512x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6522 + 9577x - 3512x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6506 + 9577x - 3512x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (590 - 817x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (738 - 983x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6626 + 9585x - 3512x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6610 + 9585x - 3512x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6594+9585x-3512x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (-1+x) (5+x)^{30} (-598+219x-26x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (746-983x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6698+9593x-3512x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6682+9593x-3512x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (606-817x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (754-983x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6770+9601x-3512x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (614-817x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (762-983x+281x^2-29x^3+x^4), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (622-817x+245x^2-27x^3+x^4), \\
& (-11+x)^3 (-9+x)^{11} (5+x)^{30} (-70+83x-18x^2+x^3), \\
& (-11+x)^2 (-9+x)^{12} (-7+x) (5+x)^{30} (10-13x+x^2), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (638-979x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (818-1233x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (646-979x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5798+9457x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (826-1233x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (654-979x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5870+9465x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5854+9465x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (834-1233x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (662-979x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5942+9473x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5926+9473x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5910+9473x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (842-1233x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (670-979x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6014+9481x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5998+9481x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5982+9481x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5966+9481x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (850-1233x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (678-979x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6086+9489x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6070+9489x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6054+9489x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6038+9489x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6022+9489x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x) (5+x)^{30} (-78+105x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (686-979x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6158+9497x-3508x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6142+9497x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6126+9497x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6110+9497x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (554-813x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (694-979x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6230+9505x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6214+9505x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6198+9505x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (562-813x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (702-979x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6302+9513x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6286+9513x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (570-813x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (710-979x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6374+9521x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (578-813x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (718-979x+281x^2-29x^3+x^4), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (586-813x+245x^2-27x^3+x^4), \\
& (-11+x)^4 (-9+x)^{11} (-6+x)(-1+x)(5+x)^{30}, \\
& (-11+x)^2 (-9+x)^{11} (-7+x)(5+x)^{30} (-86+127x-22x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (610-975x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (-7+x)(5+x)^{30} (782-1229x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (618-975x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5546+9393x-3504x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-10+x)(-9+x)^{10} (-7+x)(5+x)^{30} (-79+115x-21x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (626-975x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5618+9401x-3504x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5602+9401x-3504x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x)(5+x)^{30} (798-1229x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (634-975x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-10+x)(-9+x)^{10} (5+x)^{30} (569-884x+262x^2-28x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5674+9409x-3504x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5658+9409x-3504x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x)(5+x)^{30} (806-1229x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (642-975x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5762+9417x-3504x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5746+9417x-3504x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5730+9417x-3504x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5714+9417x-3504x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x)(5+x)^{30} (-74+105x-20x^2+x^3), \\
& (-11+x)^2 (-10+x)(-9+x)^{11} (5+x)^{30} (-65+91x-19x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5834+9425x-3504x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5818+9425x-3504x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5802+9425x-3504x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (526-809x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (658-975x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5906+9433x-3504x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5890+9433x-3504x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (534-809x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (666-975x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5978+9441x-3504x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (542-809x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (674-975x+281x^2-29x^3+x^4), \\
& (-11+x)^4 (-9+x)^{10} (5+x)^{30} (-50+69x-16x^2+x^3), \\
& (-11+x)^3 (-9+x)^{11} (5+x)^{30} (-62+83x-18x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (-7+x) (5+x)^{30} (-82+127x-22x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (582-971x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (746-1225x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (590-971x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5294+9329x-3500x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (754-1225x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (598-971x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5366+9337x-3500x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5350+9337x-3500x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (762-1225x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (606-971x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5438+9345x-3500x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5422+9345x-3500x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5406+9345x-3500x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x) (5+x)^{30} (-70+105x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (614-971x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5510+9353x-3500x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5494+9353x-3500x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (498-805x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (622-971x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5582+9361x-3500x^2+542x^3-38x^4+x^5), \\
& (-11+x)^4 (-9+x)^{10} (5+x)^{30} (-46+69x-16x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (630-971x+281x^2-29x^3+x^4), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (514-805x+245x^2-27x^3+x^4), \\
& (-11+x)^3 (-9+x)^{11} (5+x)^{30} (-58+83x-18x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (-7+x) (5+x)^{30} (-78+127x-22x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (554-967x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (-7+x) (5+x)^{30} (-71+115x-21x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (562-967x+281x^2-29x^3+x^4),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5042 + 9265 x - 3496 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (718 - 1221 x + 325 x^2 - 31 x^3 + x^4), \\
& (-11+x)^2 (-10+x) (-9+x)^{11} (5+x)^{30} (-57 + 91 x - 19 x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5114 + 9273 x - 3496 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5098 + 9273 x - 3496 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^4 (-9+x)^{10} (-7+x) (5+x)^{30} (6 - 9 x + x^2), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (578 - 967 x + 281 x^2 - 29 x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5186 + 9281 x - 3496 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (470 - 801 x + 245 x^2 - 27 x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (586 - 967 x + 281 x^2 - 29 x^3 + x^4), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (478 - 801 x + 245 x^2 - 27 x^3 + x^4), \\
& (-11+x)^3 (-9+x)^{11} (5+x)^{30} (-54 + 83 x - 18 x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (-7+x) (5+x)^{30} (-74 + 127 x - 22 x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (526 - 963 x + 281 x^2 - 29 x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (674 - 1217 x + 325 x^2 - 31 x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (534 - 963 x + 281 x^2 - 29 x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-4790 + 9201 x - 3492 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x) (5+x)^{30} (-62 + 105 x - 20 x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (542 - 963 x + 281 x^2 - 29 x^3 + x^4), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (442 - 797 x + 245 x^2 - 27 x^3 + x^4), \\
& (-11+x)^3 (-9+x)^{11} (5+x)^{30} (-50 + 83 x - 18 x^2 + x^3), \\
& (-11+x)^2 (-10+x) (-9+x)^{11} (-7+x) (5+x)^{30} (7 - 12 x + x^2), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (498 - 959 x + 281 x^2 - 29 x^3 + x^4), \\
& (-11+x)^3 (-9+x)^{10} (-7+x) (5+x)^{30} (-58 + 105 x - 20 x^2 + x^3), \\
& (-11+x)^3 (-9+x)^{11} (5+x)^{30} (-46 + 83 x - 18 x^2 + x^3), \\
& (-11+x)^3 (-9+x)^{11} (-7+x) (5+x)^{30} (6 - 11 x + x^2) \};
\end{aligned}$$

Length[list11sub]

4430

list11submod32 = modfilter[list11sub, chiSmod32n47, 32]

$$\{ (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11054 + 10545 x - 3564 x^2 + 542 x^3 - 38 x^4 + x^5), \\
\text{... 1110 ...}, (-11+x)^2 (-9+x)^{11} (5+x)^{30} (498 - 959 x + 281 x^2 - 29 x^3 + x^4) \}$$

large output

show less

show more

show all

set si

ze limit...

Length[list11submod32]

1112

```
list11submod64 = modfilter[list11submod32, chiSmod64n47, 64]
```

```
{ (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-11 054 + 10 545 x - 3564 x^2 + 542 x^3 - 38 x^4 + x^5),  
  ... 1110 ..., (-11 + x)^2 (-9 + x)^11 (5 + x)^30 (498 - 959 x + 281 x^2 - 29 x^3 + x^4) }
```

[large output](#)
[show less](#)
[show more](#)
[show all](#)
[set si](#)
[ze limit...](#)

```
Length[list11submod64]
```

```
1112
```

```
list11submod128 = modfilter[list11submod64, chiSmod128n47, 128]
```

```
{ (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-11 054 + 10 545 x - 3564 x^2 + 542 x^3 - 38 x^4 + x^5),  
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-11 022 + 10 545 x - 3564 x^2 + 542 x^3 - 38 x^4 + x^5),  
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-10 990 + 10 545 x - 3564 x^2 + 542 x^3 - 38 x^4 + x^5),  
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-10 958 + 10 545 x - 3564 x^2 + 542 x^3 - 38 x^4 + x^5),  
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-10 926 + 10 545 x - 3564 x^2 + 542 x^3 - 38 x^4 + x^5),  
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-10 894 + 10 545 x - 3564 x^2 + 542 x^3 - 38 x^4 + x^5),  
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-10 862 + 10 545 x - 3564 x^2 + 542 x^3 - 38 x^4 + x^5),  
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-12 282 + 10 969 x - 3592 x^2 + 542 x^3 - 38 x^4 + x^5),  
  (-11 + x)^2 (-9 + x)^10 (-7 + x) (5 + x)^30 (1750 - 1317 x + 325 x^2 - 31 x^3 + x^4),  
  (-11 + x)^3 (-9 + x)^10 (-7 + x) (-3 + x) (5 + x)^30 (54 - 17 x + x^2),  
  (-13 + x) (-11 + x)^2 (-9 + x)^10 (-7 + x) (-5 + x) (5 + x)^30 (26 - 13 x + x^2),  
  (-13 + x) (-11 + x)^2 (-9 + x)^10 (-3 + x) (5 + x)^30 (-314 + 151 x - 22 x^2 + x^3),  
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-12 214 + 10 913 x - 3588 x^2 + 542 x^3 - 38 x^4 + x^5),  
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-12 182 + 10 913 x - 3588 x^2 + 542 x^3 - 38 x^4 + x^5),  
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-12 150 + 10 913 x - 3588 x^2 + 542 x^3 - 38 x^4 + x^5),  
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-12 118 + 10 913 x - 3588 x^2 + 542 x^3 - 38 x^4 + x^5),  
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-12 086 + 10 913 x - 3588 x^2 + 542 x^3 - 38 x^4 + x^5),  
  (-11 + x)^2 (-9 + x)^10 (-7 + x) (5 + x)^30 (1722 - 1313 x + 325 x^2 - 31 x^3 + x^4),  
  (-11 + x)^3 (-9 + x)^10 (-3 + x) (5 + x)^30 (-374 + 173 x - 24 x^2 + x^3),  
  (-13 + x) (-11 + x)^2 (-9 + x)^10 (-5 + x) (5 + x)^30 (-178 + 117 x - 20 x^2 + x^3),  
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-11 538 + 10 809 x - 3584 x^2 + 542 x^3 - 38 x^4 + x^5),  
  (-13 + x) (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (922 - 763 x + 217 x^2 - 25 x^3 + x^4),  
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-11 954 + 10 841 x - 3584 x^2 + 542 x^3 - 38 x^4 + x^5),  
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-11 922 + 10 841 x - 3584 x^2 + 542 x^3 - 38 x^4 + x^5),  
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-11 890 + 10 841 x - 3584 x^2 + 542 x^3 - 38 x^4 + x^5),  
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-11 858 + 10 841 x - 3584 x^2 + 542 x^3 - 38 x^4 + x^5),  
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-11 826 + 10 841 x - 3584 x^2 + 542 x^3 - 38 x^4 + x^5),  
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-11 794 + 10 841 x - 3584 x^2 + 542 x^3 - 38 x^4 + x^5),  
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-11 762 + 10 841 x - 3584 x^2 + 542 x^3 - 38 x^4 + x^5),  
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-12 146 + 10 873 x - 3584 x^2 + 542 x^3 - 38 x^4 + x^5),  
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-12 114 + 10 873 x - 3584 x^2 + 542 x^3 - 38 x^4 + x^5),  
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-12 082 + 10 873 x - 3584 x^2 + 542 x^3 - 38 x^4 + x^5),
```

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12\,050 + 10\,873 x - 3584 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,294 + 10\,737 x - 3580 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,262 + 10\,737 x - 3580 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,230 + 10\,737 x - 3580 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,710 + 10\,769 x - 3580 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,678 + 10\,769 x - 3580 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,646 + 10\,769 x - 3580 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,614 + 10\,769 x - 3580 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,582 + 10\,769 x - 3580 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,550 + 10\,769 x - 3580 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,518 + 10\,769 x - 3580 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,486 + 10\,769 x - 3580 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,454 + 10\,769 x - 3580 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (31 - 12 x + x^2) (-386 + 199 x - 26 x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,934 + 10\,801 x - 3580 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,902 + 10\,801 x - 3580 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,870 + 10\,801 x - 3580 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,838 + 10\,801 x - 3580 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,806 + 10\,801 x - 3580 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,774 + 10\,801 x - 3580 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,742 + 10\,801 x - 3580 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,826 + 10\,649 x - 3576 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1542 - 1301 x + 325 x^2 - 31 x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,242 + 10\,681 x - 3576 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (1121 - 956 x + 262 x^2 - 28 x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,178 + 10\,681 x - 3576 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,146 + 10\,681 x - 3576 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,114 + 10\,681 x - 3576 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,082 + 10\,681 x - 3576 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,050 + 10\,681 x - 3576 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1574 - 1301 x + 325 x^2 - 31 x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,594 + 10\,713 x - 3576 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (41 - 14 x + x^2) (-282 + 165 x - 24 x^2 + x^3), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (1153 - 956 x + 262 x^2 - 28 x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,498 + 10\,713 x - 3576 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,466 + 10\,713 x - 3576 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,434 + 10\,713 x - 3576 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,402 + 10\,713 x - 3576 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,370 + 10\,713 x - 3576 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,338 + 10\,713 x - 3576 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,306 + 10\,713 x - 3576 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,274 + 10\,713 x - 3576 x^2 + 542 x^3 - 38 x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^3 (-9+x)^{10} (-7+x) (5+x)^{30} (-146+105x-20x^2+x^3), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (-3+x) (5+x)^{30} (-395+187x-25x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11818+10745x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11786+10745x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11754+10745x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11722+10745x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11690+10745x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11658+10745x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11626+10745x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1054-881x+245x^2-27x^3+x^4), \\
& (-11+x)^3 (-9+x)^{10} (-3+x) (5+x)^{30} (-362+173x-24x^2+x^3), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-7+x) (-6+x) (5+x)^{30} (19-12x+x^2), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (-166+117x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10758+10593x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10726+10593x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10694+10593x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10662+10593x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10630+10593x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1514-1297x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1238-1043x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11110+10625x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11078+10625x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11046+10625x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11014+10625x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (17-10x+x^2) (-646+245x-28x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2190-1687x+377x^2-33x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10918+10625x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10886+10625x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10854+10625x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1546-1297x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1270-1043x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (41-14x+x^2) (-278+165x-24x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11366+10657x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11334+10657x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11302+10657x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11270+10657x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11238+10657x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11206+10657x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11174+10657x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11142+10657x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (-5+x) (5+x)^{30} (-202+135x-22x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (-3+x) (5+x)^{30} (-434+203x-26x^2+x^3),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11686+10689x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11654+10689x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11622+10689x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11590+10689x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11558+10689x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11526+10689x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11494+10689x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1042-877x+245x^2-27x^3+x^4), \\
& (-11+x)^3 (-9+x)^{10} (-3+x)(5+x)^{30} (-358+173x-24x^2+x^3), \\
& (-13+x)(-11+x)^2 (-9+x)^{10} (5+x)^{30} (778-747x+217x^2-25x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10082+10489x-3568x^2+542x^3-38x^4+x^5), \\
& (-13+x)(-11+x)^2 (-9+x)^{12} (-5+x)(-2+x)(5+x)^{30}, \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10498+10521x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10466+10521x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10434+10521x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10402+10521x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10370+10521x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10338+10521x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10306+10521x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1202-1039x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10786+10553x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10754+10553x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10722+10553x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x)(5+x)^{30} (2138-1683x+377x^2-33x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10658+10553x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10626+10553x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-2+x)(5+x)^{30} (5297-2628x+470x^2-36x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10562+10553x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10530+10553x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1234-1039x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11074+10585x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11042+10585x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11010+10585x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10978+10585x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10946+10585x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (17-10x+x^2)(-642+245x-28x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10882+10585x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x)(5+x)^{30} (2170-1683x+377x^2-33x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10818+10585x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1266-1039x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11362+10617x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11330+10617x-3568x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11298+10617x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11266+10617x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11234+10617x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11202+10617x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11170+10617x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (37-14x+x^2) (-314+169x-24x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11586+10649x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11554+10649x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11522+10649x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9838+10417x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9806+10417x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9774+10417x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10190+10449x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10158+10449x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10126+10449x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10094+10449x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10062+10449x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (59-16x+x^2) (-170+131x-22x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9998+10449x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10478+10481x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10446+10481x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10414+10481x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10382+10481x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10350+10481x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10318+10481x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10286+10481x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10254+10481x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10222+10481x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10766+10513x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10734+10513x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10702+10513x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10670+10513x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10638+10513x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10606+10513x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10574+10513x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10542+10513x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10510+10513x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11342+10577x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11310+10577x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11278+10577x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11246+10577x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11214+10577x-3564x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9370+10329x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1334-1285x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9722+10361x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9690+10361x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9658+10361x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9626+10361x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9594+10361x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1366-1285x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10010+10393x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9978+10393x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9946+10393x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9914+10393x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9882+10393x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9850+10393x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9818+10393x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1398-1285x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10298+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10266+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10234+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10202+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10170+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10138+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10106+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (69-18x+x^2) (-146+113x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10042+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x) (5+x)^{30} (-130+105x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10586+10457x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10554+10457x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10522+10457x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10490+10457x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10458+10457x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10426+10457x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10394+10457x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (942-865x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10874+10489x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10842+10489x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10810+10489x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10778+10489x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10746+10489x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (974-865x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11162+10521x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11130+10521x-3560x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11098+10521x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1006-865x+245x^2-27x^3+x^4), \\
& (-11+x)^3 (-9+x)^{10} (-3+x) (5+x)^{30} (-346+173x-24x^2+x^3), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-7+x)^2 (5+x)^{30} (14-11x+x^2), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1030-1027x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9238+10273x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9206+10273x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9174+10273x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1306-1281x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{12} (5+x)^{30} (-118+101x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9526+10305x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9494+10305x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9462+10305x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9430+10305x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9398+10305x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1338-1281x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1094-1027x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9814+10337x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9782+10337x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9750+10337x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9718+10337x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9686+10337x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9654+10337x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9622+10337x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1370-1281x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1126-1027x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10102+10369x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (106-21x+x^2) (19-12x+x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10038+10369x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10006+10369x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9974+10369x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9942+10369x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9910+10369x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (898-861x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1158-1027x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10390+10401x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10358+10401x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10326+10401x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10294+10401x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10262+10401x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (-5+x) (5+x)^{30} (-186+135x-22x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1190-1027x+281x^2-29x^3+x^4),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10678+10433x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10646+10433x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10614+10433x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (962-861x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (47-16x+x^2)(26-13x+x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10966+10465x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (994-861x+245x^2-27x^3+x^4), \\
& (-11+x)^3 (-9+x)^{11} (-3+x)(5+x)^{30} (38-15x+x^2), \\
& (-13+x)(-11+x)^2 (-9+x)^{11} (5+x)^{30} (-74+73x-16x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8626+10169x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (994-1023x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8914+10201x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8882+10201x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8850+10201x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{12} (5+x)^{30} (-114+101x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9202+10233x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9170+10233x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9138+10233x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9106+10233x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9074+10233x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1058-1023x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9490+10265x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9458+10265x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9426+10265x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9394+10265x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9362+10265x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9330+10265x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9298+10265x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (-5+x)(5+x)^{30} (-218+161x-24x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9778+10297x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9746+10297x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9714+10297x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9682+10297x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9650+10297x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (21-14x+x^2)(-458+185x-24x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9586+10297x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1122-1023x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10066+10329x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10034+10329x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10002+10329x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x)(5+x)^{30} (1994-1667x+377x^2-33x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9938+10329x-3552x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1154 - 1023x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10354 + 10361x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10322 + 10361x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10290 + 10361x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1186 - 1023x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10642 + 10393x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8318 + 10097x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8606 + 10129x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8574 + 10129x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8542 + 10129x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8894 + 10161x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8862 + 10161x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8830 + 10161x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8798 + 10161x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8766 + 10161x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9182 + 10193x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9150 + 10193x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9118 + 10193x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (59 - 16x + x^2) (-154 + 131x - 22x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9054 + 10193x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9022 + 10193x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8990 + 10193x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9470 + 10225x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9438 + 10225x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9406 + 10225x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9374 + 10225x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9342 + 10225x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (95 - 20x + x^2) (-98 + 87x - 18x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9278 + 10225x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9758 + 10257x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9726 + 10257x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9694 + 10257x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9662 + 10257x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9630 + 10257x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10046 + 10289x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10014 + 10289x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9982 + 10289x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10334 + 10321x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8138 + 10041x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1158 - 1269x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8426 + 10073x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8394 + 10073x - 3544x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8362+10\,073\,x-3544\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (-7+x)^2 (5+x)^{30} (17-14\,x+x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8714+10\,105\,x-3544\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8682+10\,105\,x-3544\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (865-924\,x+262\,x^2-28\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8618+10\,105\,x-3544\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8586+10\,105\,x-3544\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1222-1269\,x+325\,x^2-31\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9002+10\,137\,x-3544\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (69-18\,x+x^2) (13-10\,x+x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8938+10\,137\,x-3544\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8906+10\,137\,x-3544\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8874+10\,137\,x-3544\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8842+10\,137\,x-3544\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8810+10\,137\,x-3544\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x) (5+x)^{30} (-114+105\,x-20\,x^2+x^3), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (929-924\,x+262\,x^2-28\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9258+10\,169\,x-3544\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9226+10\,169\,x-3544\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9194+10\,169\,x-3544\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9162+10\,169\,x-3544\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (830-849\,x+245\,x^2-27\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9578+10\,201\,x-3544\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9546+10\,201\,x-3544\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9514+10\,201\,x-3544\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (862-849\,x+245\,x^2-27\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9866+10\,233\,x-3544\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (894-849\,x+245\,x^2-27\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (-7+x) (5+x)^{30} (-122+127\,x-22\,x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (886-1011\,x+281\,x^2-29\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7942+9985\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1130-1265\,x+325\,x^2-31\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{12} (-6+x) (5+x)^{30} (17-14\,x+x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8230+10\,017\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8198+10\,017\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8166+10\,017\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x)^2 (5+x)^{30} (-166+157\,x-24\,x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (950-1011\,x+281\,x^2-29\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8518+10\,049\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8486+10\,049\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-6+x) (5+x)^{30} (1409-1440\,x+350\,x^2-32\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8422+10\,049\,x-3540\,x^2+542\,x^3-38\,x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8390+10\,049\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1194-1265\,x+325\,x^2-31\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (982-1011\,x+281\,x^2-29\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8806+10\,081\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8774+10\,081\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8742+10\,081\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8710+10\,081\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8678+10\,081\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (-6+x) (5+x)^{30} (-131+119\,x-21\,x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1014-1011\,x+281\,x^2-29\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9094+10\,113\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9062+10\,113\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9030+10\,113\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (818-845\,x+245\,x^2-27\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1046-1011\,x+281\,x^2-29\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9382+10\,145\,x-3540\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (-5+x) (5+x)^{30} (-170+135\,x-22\,x^2+x^3), \\
& (-11+x)^3 (-9+x)^{11} (5+x)^{30} (-98+83\,x-18\,x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (850-1007\,x+281\,x^2-29\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7618+9913\,x-3536\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{12} (5+x)^{30} (-98+101\,x-20\,x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7906+9945\,x-3536\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7874+9945\,x-3536\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7842+9945\,x-3536\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (914-1007\,x+281\,x^2-29\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8194+9977\,x-3536\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8162+9977\,x-3536\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8130+9977\,x-3536\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8098+9977\,x-3536\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8066+9977\,x-3536\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (946-1007\,x+281\,x^2-29\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8482+10\,009\,x-3536\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8450+10\,009\,x-3536\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8418+10\,009\,x-3536\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8386+10\,009\,x-3536\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8354+10\,009\,x-3536\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (978-1007\,x+281\,x^2-29\,x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8770+10\,041\,x-3536\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8738+10\,041\,x-3536\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8706+10\,041\,x-3536\,x^2+542\,x^3-38\,x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (-5+x) (5+x)^{30} (-202+161\,x-24\,x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9058+10\,073\,x-3536\,x^2+542\,x^3-38\,x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7310+9841x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7598+9873x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7566+9873x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7534+9873x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7886+9905x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7854+9905x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7822+9905x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (95-20x+x^2) (-82+87x-18x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7758+9905x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8174+9937x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (59-16x+x^2) (-138+131x-22x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8110+9937x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8078+9937x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8046+9937x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8462+9969x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (15-12x+x^2) (-562+215x-26x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8398+9969x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8750+10001x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7130+9785x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1014-1253x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7418+9817x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7386+9817x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7354+9817x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1046-1253x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7706+9849x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7674+9849x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7642+9849x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7610+9849x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7578+9849x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x)^2 (5+x)^{30} (14-13x+x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7994+9881x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7962+9881x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7930+9881x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (718-833x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8282+9913x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (750-833x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (-7+x) (-1+x) (5+x)^{30} (106-21x+x^2), \\
& (-11+x)^2 (-9+x)^{12} (5+x)^{30} (-86+101x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6934+9729x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (986-1249x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (806-995x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7222+9761x-3524x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7190+9761x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7158+9761x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1018-1249x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (838-995x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7510+9793x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7478+9793x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (73-18x+x^2) (-102+109x-20x^2+x^3), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (674-829x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (870-995x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7798+9825x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (706-829x+245x^2-27x^3+x^4), \\
& (-11+x)^3 (-9+x)^{11} (5+x)^{30} (-82+83x-18x^2+x^3), \\
& (-11+x)^2 (-9+x)^{12} (-1+x) (5+x)^{30} (82-19x+x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6610+9657x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (770-991x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6898+9689x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6866+9689x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6834+9689x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (802-991x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7186+9721x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (73-18x+x^2) (-98+109x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7122+9721x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (834-991x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7474+9753x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6302+9585x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6590+9617x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6558+9617x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6526+9617x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6878+9649x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6846+9649x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6814+9649x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7166+9681x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6122+9529x-3512x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (-7+x) (5+x)^{30} (-87+115x-21x^2+x^3), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (641-892x+262x^2-28x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6378+9561x-3512x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6346+9561x-3512x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x) (5+x)^{30} (-82+105x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6698+9593x-3512x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (606-817x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{12} (-7+x) (5+x)^{30} (10-13x+x^2), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (662-979x+281x^2-29x^3+x^4),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5926+9473x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (842-1233x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (694-979x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6214+9505x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (562-813x+245x^2-27x^3+x^4), \\
& (-11+x)^4 (-9+x)^{11} (-6+x) (-1+x) (5+x)^{30}, \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (626-975x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5602+9401x-3504x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (658-975x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5890+9433x-3504x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5294+9329x-3500x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5582+9361x-3500x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5114+9273x-3496x^2+542x^3-38x^4+x^5), \\
& (-11+x)^4 (-9+x)^{10} (-7+x) (5+x)^{30} (6-9x+x^2), \\
& (-11+x)^2 (-9+x)^{11} (-7+x) (5+x)^{30} (-74+127x-22x^2+x^3), \\
& (-11+x)^3 (-9+x)^{11} (5+x)^{30} (-50+83x-18x^2+x^3) \}
\end{aligned}$$

list11submod128 =

$$\begin{aligned}
& \{ (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11054+10545x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11022+10545x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10990+10545x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10958+10545x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10926+10545x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10894+10545x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10862+10545x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12282+10969x-3592x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1750-1317x+325x^2-31x^3+x^4), \\
& (-11+x)^3 (-9+x)^{10} (-7+x) (-3+x) (5+x)^{30} (54-17x+x^2), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-7+x) (-5+x) (5+x)^{30} (26-13x+x^2), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-3+x) (5+x)^{30} (-314+151x-22x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12214+10913x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12182+10913x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12150+10913x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12118+10913x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12086+10913x-3588x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1722-1313x+325x^2-31x^3+x^4), \\
& (-11+x)^3 (-9+x)^{10} (-3+x) (5+x)^{30} (-374+173x-24x^2+x^3), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (-178+117x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11538+10809x-3584x^2+542x^3-38x^4+x^5), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (922-763x+217x^2-25x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11954+10841x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11922+10841x-3584x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11890+10841x-3584x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11858 + 10841x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11826 + 10841x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11794 + 10841x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11762 + 10841x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12146 + 10873x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12114 + 10873x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12082 + 10873x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12050 + 10873x - 3584x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11294 + 10737x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11262 + 10737x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11230 + 10737x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11710 + 10769x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11678 + 10769x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11646 + 10769x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11614 + 10769x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11582 + 10769x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11550 + 10769x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11518 + 10769x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11486 + 10769x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11454 + 10769x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (31 - 12x + x^2) (-386 + 199x - 26x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11934 + 10801x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11902 + 10801x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11870 + 10801x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11838 + 10801x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11806 + 10801x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11774 + 10801x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11742 + 10801x - 3580x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10826 + 10649x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1542 - 1301x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11242 + 10681x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (1121 - 956x + 262x^2 - 28x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11178 + 10681x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11146 + 10681x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11114 + 10681x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11082 + 10681x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11050 + 10681x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1574 - 1301x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11594 + 10713x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (41 - 14x + x^2) (-282 + 165x - 24x^2 + x^3), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (1153 - 956x + 262x^2 - 28x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11498 + 10713x - 3576x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11466 + 10713x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11434 + 10713x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11402 + 10713x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11370 + 10713x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11338 + 10713x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11306 + 10713x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11274 + 10713x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x) (5+x)^{30} (-146 + 105x - 20x^2 + x^3), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (-3+x) (5+x)^{30} (-395 + 187x - 25x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11818 + 10745x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11786 + 10745x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11754 + 10745x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11722 + 10745x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11690 + 10745x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11658 + 10745x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11626 + 10745x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1054 - 881x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^3 (-9+x)^{10} (-3+x) (5+x)^{30} (-362 + 173x - 24x^2 + x^3), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-7+x) (-6+x) (5+x)^{30} (19 - 12x + x^2), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (-166 + 117x - 20x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10758 + 10593x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10726 + 10593x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10694 + 10593x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10662 + 10593x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10630 + 10593x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1514 - 1297x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1238 - 1043x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11110 + 10625x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11078 + 10625x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11046 + 10625x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11014 + 10625x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (17 - 10x + x^2) (-646 + 245x - 28x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2190 - 1687x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10918 + 10625x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10886 + 10625x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10854 + 10625x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1546 - 1297x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1270 - 1043x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (41 - 14x + x^2) (-278 + 165x - 24x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11366 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11334 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11302 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11270 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11238 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11206 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11174 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11142 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (-5+x) (5+x)^{30} (-202 + 135x - 22x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (-3+x) (5+x)^{30} (-434 + 203x - 26x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11686 + 10689x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11654 + 10689x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11622 + 10689x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11590 + 10689x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11558 + 10689x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11526 + 10689x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11494 + 10689x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1042 - 877x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^3 (-9+x)^{10} (-3+x) (5+x)^{30} (-358 + 173x - 24x^2 + x^3), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (778 - 747x + 217x^2 - 25x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10082 + 10489x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-13+x) (-11+x)^2 (-9+x)^{12} (-5+x) (-2+x) (5+x)^{30}, \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10498 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10466 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10434 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10402 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10370 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10338 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10306 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1202 - 1039x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10786 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10754 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10722 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2138 - 1683x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10658 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10626 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-2+x) (5+x)^{30} (5297 - 2628x + 470x^2 - 36x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10562 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10530 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1234 - 1039x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11074 + 10585x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11042 + 10585x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11010 + 10585x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10978 + 10585x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10946 + 10585x - 3568x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (17-10x+x^2) (-642+245x-28x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10882+10585x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2170-1683x+377x^2-33x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10818+10585x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1266-1039x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11362+10617x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11330+10617x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11298+10617x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11266+10617x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11234+10617x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11202+10617x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11170+10617x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (37-14x+x^2) (-314+169x-24x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11586+10649x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11554+10649x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11522+10649x-3568x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9838+10417x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9806+10417x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9774+10417x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10190+10449x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10158+10449x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10126+10449x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10094+10449x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10062+10449x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (59-16x+x^2) (-170+131x-22x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9998+10449x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10478+10481x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10446+10481x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10414+10481x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10382+10481x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10350+10481x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10318+10481x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10286+10481x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10254+10481x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10222+10481x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10766+10513x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10734+10513x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10702+10513x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10670+10513x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10638+10513x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10606+10513x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10574+10513x-3564x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10542 + 10513x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10510 + 10513x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11342 + 10577x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11310 + 10577x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11278 + 10577x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11246 + 10577x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11214 + 10577x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9370 + 10329x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1334 - 1285x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9722 + 10361x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9690 + 10361x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9658 + 10361x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9626 + 10361x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9594 + 10361x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1366 - 1285x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10010 + 10393x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9978 + 10393x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9946 + 10393x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9914 + 10393x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9882 + 10393x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9850 + 10393x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9818 + 10393x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1398 - 1285x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10298 + 10425x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10266 + 10425x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10234 + 10425x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10202 + 10425x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10170 + 10425x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10138 + 10425x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10106 + 10425x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (69 - 18x + x^2) (-146 + 113x - 20x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10042 + 10425x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x) (5+x)^{30} (-130 + 105x - 20x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10586 + 10457x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10554 + 10457x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10522 + 10457x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10490 + 10457x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10458 + 10457x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10426 + 10457x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10394 + 10457x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (942 - 865x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10874 + 10489x - 3560x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10842 + 10489x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10810 + 10489x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10778 + 10489x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10746 + 10489x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (974 - 865x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11162 + 10521x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11130 + 10521x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11098 + 10521x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (1006 - 865x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^3 (-9+x)^{10} (-3+x) (5+x)^{30} (-346 + 173x - 24x^2 + x^3), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-7+x)^2 (5+x)^{30} (14 - 11x + x^2), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1030 - 1027x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9238 + 10273x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9206 + 10273x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9174 + 10273x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1306 - 1281x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{12} (5+x)^{30} (-118 + 101x - 20x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9526 + 10305x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9494 + 10305x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9462 + 10305x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9430 + 10305x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9398 + 10305x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1338 - 1281x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1094 - 1027x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9814 + 10337x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9782 + 10337x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9750 + 10337x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9718 + 10337x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9686 + 10337x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9654 + 10337x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9622 + 10337x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1370 - 1281x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1126 - 1027x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10102 + 10369x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (106 - 21x + x^2) (19 - 12x + x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10038 + 10369x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10006 + 10369x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9974 + 10369x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9942 + 10369x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9910 + 10369x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (898 - 861x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1158 - 1027x + 281x^2 - 29x^3 + x^4),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10390+10401x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10358+10401x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10326+10401x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10294+10401x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10262+10401x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (-5+x) (5+x)^{30} (-186+135x-22x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1190-1027x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10678+10433x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10646+10433x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10614+10433x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (962-861x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (47-16x+x^2) (26-13x+x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10966+10465x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (994-861x+245x^2-27x^3+x^4), \\
& (-11+x)^3 (-9+x)^{11} (-3+x) (5+x)^{30} (38-15x+x^2), \\
& (-13+x) (-11+x)^2 (-9+x)^{11} (5+x)^{30} (-74+73x-16x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8626+10169x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (994-1023x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8914+10201x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8882+10201x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8850+10201x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{12} (5+x)^{30} (-114+101x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9202+10233x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9170+10233x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9138+10233x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9106+10233x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9074+10233x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1058-1023x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9490+10265x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9458+10265x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9426+10265x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9394+10265x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9362+10265x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9330+10265x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9298+10265x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (-5+x) (5+x)^{30} (-218+161x-24x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9778+10297x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9746+10297x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9714+10297x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9682+10297x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9650+10297x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (21-14x+x^2) (-458+185x-24x^2+x^3),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9586 + 10\,297\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1122 - 1023\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,066 + 10\,329\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,034 + 10\,329\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,002 + 10\,329\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (1994 - 1667\,x + 377\,x^2 - 33\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9938 + 10\,329\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1154 - 1023\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,354 + 10\,361\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,322 + 10\,361\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,290 + 10\,361\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1186 - 1023\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,642 + 10\,393\,x - 3552\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8318 + 10\,097\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8606 + 10\,129\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8574 + 10\,129\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8542 + 10\,129\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8894 + 10\,161\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8862 + 10\,161\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8830 + 10\,161\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8798 + 10\,161\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8766 + 10\,161\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9182 + 10\,193\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9150 + 10\,193\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9118 + 10\,193\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (59 - 16\,x + x^2) (-154 + 131\,x - 22\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9054 + 10\,193\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9022 + 10\,193\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8990 + 10\,193\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9470 + 10\,225\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9438 + 10\,225\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9406 + 10\,225\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9374 + 10\,225\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9342 + 10\,225\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (95 - 20\,x + x^2) (-98 + 87\,x - 18\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9278 + 10\,225\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9758 + 10\,257\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9726 + 10\,257\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9694 + 10\,257\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9662 + 10\,257\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9630 + 10\,257\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,046 + 10\,289\,x - 3548\,x^2 + 542\,x^3 - 38\,x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,014 + 10\,289 x - 3548 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9982 + 10\,289 x - 3548 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10\,334 + 10\,321 x - 3548 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8138 + 10\,041 x - 3544 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1158 - 1269 x + 325 x^2 - 31 x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8426 + 10\,073 x - 3544 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8394 + 10\,073 x - 3544 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8362 + 10\,073 x - 3544 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (-7+x)^2 (5+x)^{30} (17 - 14 x + x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8714 + 10\,105 x - 3544 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8682 + 10\,105 x - 3544 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (865 - 924 x + 262 x^2 - 28 x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8618 + 10\,105 x - 3544 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8586 + 10\,105 x - 3544 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1222 - 1269 x + 325 x^2 - 31 x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9002 + 10\,137 x - 3544 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (69 - 18 x + x^2) (13 - 10 x + x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8938 + 10\,137 x - 3544 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8906 + 10\,137 x - 3544 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8874 + 10\,137 x - 3544 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8842 + 10\,137 x - 3544 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8810 + 10\,137 x - 3544 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x) (5+x)^{30} (-114 + 105 x - 20 x^2 + x^3), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (929 - 924 x + 262 x^2 - 28 x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9258 + 10\,169 x - 3544 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9226 + 10\,169 x - 3544 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9194 + 10\,169 x - 3544 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9162 + 10\,169 x - 3544 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (830 - 849 x + 245 x^2 - 27 x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9578 + 10\,201 x - 3544 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9546 + 10\,201 x - 3544 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9514 + 10\,201 x - 3544 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (862 - 849 x + 245 x^2 - 27 x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9866 + 10\,233 x - 3544 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (894 - 849 x + 245 x^2 - 27 x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (-7+x) (5+x)^{30} (-122 + 127 x - 22 x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (886 - 1011 x + 281 x^2 - 29 x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7942 + 9985 x - 3540 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1130 - 1265 x + 325 x^2 - 31 x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{12} (-6+x) (5+x)^{30} (17 - 14 x + x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8230 + 10\,017 x - 3540 x^2 + 542 x^3 - 38 x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8198 + 10\,017 x - 3540 x^2 + 542 x^3 - 38 x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8166 + 10\,017\,x - 3540\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x)^2 (5+x)^{30} (-166 + 157\,x - 24\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (950 - 1011\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8518 + 10\,049\,x - 3540\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8486 + 10\,049\,x - 3540\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-6+x) (5+x)^{30} (1409 - 1440\,x + 350\,x^2 - 32\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8422 + 10\,049\,x - 3540\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8390 + 10\,049\,x - 3540\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1194 - 1265\,x + 325\,x^2 - 31\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (982 - 1011\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8806 + 10\,081\,x - 3540\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8774 + 10\,081\,x - 3540\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8742 + 10\,081\,x - 3540\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8710 + 10\,081\,x - 3540\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8678 + 10\,081\,x - 3540\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (-6+x) (5+x)^{30} (-131 + 119\,x - 21\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1014 - 1011\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9094 + 10\,113\,x - 3540\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9062 + 10\,113\,x - 3540\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9030 + 10\,113\,x - 3540\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (818 - 845\,x + 245\,x^2 - 27\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1046 - 1011\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9382 + 10\,145\,x - 3540\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (-5+x) (5+x)^{30} (-170 + 135\,x - 22\,x^2 + x^3), \\
& (-11+x)^3 (-9+x)^{11} (5+x)^{30} (-98 + 83\,x - 18\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (850 - 1007\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7618 + 9913\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{12} (5+x)^{30} (-98 + 101\,x - 20\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7906 + 9945\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7874 + 9945\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7842 + 9945\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (914 - 1007\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8194 + 9977\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8162 + 9977\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8130 + 9977\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8098 + 9977\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8066 + 9977\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (946 - 1007\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8482 + 10\,009\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8450 + 10\,009\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8418 + 10\,009\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8386 + 10\,009\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8354 + 10\,009\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (978 - 1007\,x + 281\,x^2 - 29\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8770 + 10\,041\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8738 + 10\,041\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8706 + 10\,041\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{11} (-5+x) (5+x)^{30} (-202 + 161\,x - 24\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9058 + 10\,073\,x - 3536\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7310 + 9841\,x - 3532\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7598 + 9873\,x - 3532\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7566 + 9873\,x - 3532\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7534 + 9873\,x - 3532\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7886 + 9905\,x - 3532\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7854 + 9905\,x - 3532\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7822 + 9905\,x - 3532\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (95 - 20\,x + x^2) (-82 + 87\,x - 18\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7758 + 9905\,x - 3532\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8174 + 9937\,x - 3532\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (59 - 16\,x + x^2) (-138 + 131\,x - 22\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8110 + 9937\,x - 3532\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8078 + 9937\,x - 3532\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8046 + 9937\,x - 3532\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8462 + 9969\,x - 3532\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (15 - 12\,x + x^2) (-562 + 215\,x - 26\,x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8398 + 9969\,x - 3532\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8750 + 10\,001\,x - 3532\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7130 + 9785\,x - 3528\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1014 - 1253\,x + 325\,x^2 - 31\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7418 + 9817\,x - 3528\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7386 + 9817\,x - 3528\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7354 + 9817\,x - 3528\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1046 - 1253\,x + 325\,x^2 - 31\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7706 + 9849\,x - 3528\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7674 + 9849\,x - 3528\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7642 + 9849\,x - 3528\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7610 + 9849\,x - 3528\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7578 + 9849\,x - 3528\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x)^2 (5+x)^{30} (14 - 13\,x + x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7994 + 9881\,x - 3528\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7962 + 9881\,x - 3528\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7930 + 9881\,x - 3528\,x^2 + 542\,x^3 - 38\,x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (718 - 833\,x + 245\,x^2 - 27\,x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8282 + 9913\,x - 3528\,x^2 + 542\,x^3 - 38\,x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (750 - 833x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (-7+x) (-1+x) (5+x)^{30} (106 - 21x + x^2), \\
& (-11+x)^2 (-9+x)^{12} (5+x)^{30} (-86 + 101x - 20x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6934 + 9729x - 3524x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (986 - 1249x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (806 - 995x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7222 + 9761x - 3524x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7190 + 9761x - 3524x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7158 + 9761x - 3524x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1018 - 1249x + 325x^2 - 31x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (838 - 995x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7510 + 9793x - 3524x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7478 + 9793x - 3524x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (73 - 18x + x^2) (-102 + 109x - 20x^2 + x^3), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (674 - 829x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (870 - 995x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7798 + 9825x - 3524x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (706 - 829x + 245x^2 - 27x^3 + x^4), \\
& (-11+x)^3 (-9+x)^{11} (5+x)^{30} (-82 + 83x - 18x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{12} (-1+x) (5+x)^{30} (82 - 19x + x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6610 + 9657x - 3520x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (770 - 991x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6898 + 9689x - 3520x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6866 + 9689x - 3520x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6834 + 9689x - 3520x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (802 - 991x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7186 + 9721x - 3520x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (73 - 18x + x^2) (-98 + 109x - 20x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7122 + 9721x - 3520x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (834 - 991x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7474 + 9753x - 3520x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6302 + 9585x - 3516x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6590 + 9617x - 3516x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6558 + 9617x - 3516x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6526 + 9617x - 3516x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6878 + 9649x - 3516x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6846 + 9649x - 3516x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6814 + 9649x - 3516x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7166 + 9681x - 3516x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6122 + 9529x - 3512x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (-7+x) (5+x)^{30} (-87 + 115x - 21x^2 + x^3), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (641 - 892x + 262x^2 - 28x^3 + x^4),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6378+9561x-3512x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6346+9561x-3512x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (-7+x) (5+x)^{30} (-82+105x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6698+9593x-3512x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (606-817x+245x^2-27x^3+x^4), \\
& (-11+x)^2 (-9+x)^{12} (-7+x) (5+x)^{30} (10-13x+x^2), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (662-979x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5926+9473x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (842-1233x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (694-979x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6214+9505x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^3 (-9+x)^{10} (5+x)^{30} (562-813x+245x^2-27x^3+x^4), \\
& (-11+x)^4 (-9+x)^{11} (-6+x) (-1+x) (5+x)^{30}, \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (626-975x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5602+9401x-3504x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (658-975x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5890+9433x-3504x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5294+9329x-3500x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5582+9361x-3500x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5114+9273x-3496x^2+542x^3-38x^4+x^5), \\
& (-11+x)^4 (-9+x)^{10} (-7+x) (5+x)^{30} (6-9x+x^2), \\
& (-11+x)^2 (-9+x)^{11} (-7+x) (5+x)^{30} (-74+127x-22x^2+x^3), \\
& (-11+x)^3 (-9+x)^{11} (5+x)^{30} (-50+83x-18x^2+x^3) \};
\end{aligned}$$

Length[list11submod128]

552

commoninterlacer1n4 =

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findinterlacer[(x + 5) (x - 9) (x^4 - 34 x^3 + 404 x^2 - 1966 x + 3291),
  list11submod128 / mu[poly11sub] // Factor] * mu[poly11sub] // Factor
{ (-11+x)^2 (-9+x)^10 (5+x)^30 (-11054+10545x-3564x^2+542x^3-38x^4+x^5),
  (-11+x)^2 (-9+x)^10 (5+x)^30 (-11022+10545x-3564x^2+542x^3-38x^4+x^5),
  (-13+x) (-11+x)^2 (-9+x)^10 (-3+x) (5+x)^30 (-314+151x-22x^2+x^3),
  (-13+x) (-11+x)^2 (-9+x)^10 (5+x)^30 (922-763x+217x^2-25x^3+x^4),
  (-11+x)^2 (-9+x)^10 (5+x)^30 (-11954+10841x-3584x^2+542x^3-38x^4+x^5),
  (-11+x)^2 (-9+x)^10 (5+x)^30 (-11922+10841x-3584x^2+542x^3-38x^4+x^5),
  (-11+x)^2 (-9+x)^10 (5+x)^30 (-11294+10737x-3580x^2+542x^3-38x^4+x^5),
  (-11+x)^2 (-9+x)^10 (5+x)^30 (-11710+10769x-3580x^2+542x^3-38x^4+x^5),
  (-11+x)^2 (-9+x)^10 (5+x)^30 (-11678+10769x-3580x^2+542x^3-38x^4+x^5),
  (-11+x)^2 (-9+x)^10 (5+x)^30 (-11646+10769x-3580x^2+542x^3-38x^4+x^5),
  (-11+x)^2 (-9+x)^10 (5+x)^30 (-11614+10769x-3580x^2+542x^3-38x^4+x^5),
  (-11+x)^2 (-9+x)^10 (5+x)^30 (-11934+10801x-3580x^2+542x^3-38x^4+x^5),
  (-11+x)^2 (-9+x)^10 (5+x)^30 (-10826+10649x-3576x^2+542x^3-38x^4+x^5),
  (-11+x)^2 (-9+x)^10 (-7+x) (5+x)^30 (1542-1301x+325x^2-31x^3+x^4),

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$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11242 + 10681x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (1121 - 956x + 262x^2 - 28x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11178 + 10681x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11146 + 10681x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11594 + 10713x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (41 - 14x + x^2) (-282 + 165x - 24x^2 + x^3), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (1153 - 956x + 262x^2 - 28x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11498 + 10713x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11466 + 10713x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11786 + 10745x - 3576x^2 + 542x^3 - 38x^4 + x^5), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-7+x) (-6+x) (5+x)^{30} (19 - 12x + x^2), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (-166 + 117x - 20x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10758 + 10593x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10726 + 10593x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10694 + 10593x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10662 + 10593x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1238 - 1043x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11110 + 10625x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11078 + 10625x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11046 + 10625x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11014 + 10625x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (17 - 10x + x^2) (-646 + 245x - 28x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1270 - 1043x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (41 - 14x + x^2) (-278 + 165x - 24x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11366 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11334 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11302 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (778 - 747x + 217x^2 - 25x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10082 + 10489x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-13+x) (-11+x)^2 (-9+x)^{12} (-5+x) (-2+x) (5+x)^{30}, \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10498 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10466 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10434 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10402 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10370 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10338 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1202 - 1039x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10786 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10754 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10722 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2138 - 1683x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10658 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1234 - 1039x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11074 + 10585x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11042 + 10585x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11010 + 10585x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1266 - 1039x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11362 + 10617x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11330 + 10617x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9838 + 10417x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9806 + 10417x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10190 + 10449x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10158 + 10449x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10126 + 10449x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10094 + 10449x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10062 + 10449x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (59 - 16x + x^2) (-170 + 131x - 22x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10478 + 10481x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10446 + 10481x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10414 + 10481x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10382 + 10481x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10350 + 10481x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10766 + 10513x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10734 + 10513x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10702 + 10513x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10670 + 10513x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11342 + 10577x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9722 + 10361x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9690 + 10361x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9658 + 10361x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9626 + 10361x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9594 + 10361x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10010 + 10393x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9978 + 10393x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9946 + 10393x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9914 + 10393x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9882 + 10393x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9850 + 10393x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10298 + 10425x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10266 + 10425x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10234 + 10425x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10202 + 10425x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10586 + 10457x - 3560x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10554 + 10457x - 3560x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10522+10457x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10874+10489x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10842+10489x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1030-1027x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9238+10273x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9206+10273x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{12} (5+x)^{30} (-118+101x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9526+10305x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9494+10305x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9462+10305x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9430+10305x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9398+10305x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1094-1027x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9814+10337x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9782+10337x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9750+10337x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9718+10337x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1126-1027x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10102+10369x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x)(5+x)^{30} (106-21x+x^2)(19-12x+x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10038+10369x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1158-1027x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10390+10401x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1190-1027x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (994-1023x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8914+10201x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{12} (5+x)^{30} (-114+101x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9202+10233x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9170+10233x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9138+10233x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9106+10233x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1058-1023x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9490+10265x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9458+10265x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9426+10265x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9394+10265x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (-5+x)(5+x)^{30} (-218+161x-24x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9778+10297x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9746+10297x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9714+10297x-3552x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1122-1023x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10066+10329x-3552x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1154 - 1023x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8894 + 10161x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8862 + 10161x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8830 + 10161x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9182 + 10193x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9150 + 10193x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9118 + 10193x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (59 - 16x + x^2) (-154 + 131x - 22x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9470 + 10225x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9438 + 10225x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9406 + 10225x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9758 + 10257x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9726 + 10257x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8426 + 10073x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8714 + 10105x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8682 + 10105x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (865 - 924x + 262x^2 - 28x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9002 + 10137x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (69 - 18x + x^2) (13 - 10x + x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8938 + 10137x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (929 - 924x + 262x^2 - 28x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9258 + 10169x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9578 + 10201x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{12} (-6+x) (5+x)^{30} (17 - 14x + x^2), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (950 - 1011x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8518 + 10049x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8486 + 10049x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-6+x) (5+x)^{30} (1409 - 1440x + 350x^2 - 32x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (982 - 1011x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8806 + 10081x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8774 + 10081x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1014 - 1011x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9094 + 10113x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (914 - 1007x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8194 + 9977x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8162 + 9977x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (946 - 1007x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8482 + 10009x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8450 + 10009x - 3536x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (978 - 1007x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7886 + 9905x - 3532x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7854 + 9905x - 3532x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8174+9937x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (59-16x+x^2) (-138+131x-22x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8462+9969x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7706+9849x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7674+9849x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7994+9881x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (838-995x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7510+9793x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (870-995x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (802-991x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7186+9721x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6878+9649x-3516x^2+542x^3-38x^4+x^5) \}
\end{aligned}$$

Length[commoninterlacer1n4]

194

commoninterlacer2n4 =

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findinterlacer[(x + 5) (x - 9) (x^4 - 34 x^3 + 404 x^2 - 1966 x + 3339),
list11submod128 / mu[poly11sub] // Factor] * mu[poly11sub] // Factor
{ (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-11054 + 10545 x - 3564 x^2 + 542 x^3 - 38 x^4 + x^5),
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-11022 + 10545 x - 3564 x^2 + 542 x^3 - 38 x^4 + x^5),
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-10990 + 10545 x - 3564 x^2 + 542 x^3 - 38 x^4 + x^5),
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-10958 + 10545 x - 3564 x^2 + 542 x^3 - 38 x^4 + x^5),
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-10926 + 10545 x - 3564 x^2 + 542 x^3 - 38 x^4 + x^5),
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-10894 + 10545 x - 3564 x^2 + 542 x^3 - 38 x^4 + x^5),
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-12282 + 10969 x - 3592 x^2 + 542 x^3 - 38 x^4 + x^5),
  (-11 + x)^2 (-9 + x)^10 (-7 + x) (5 + x)^30 (1750 - 1317 x + 325 x^2 - 31 x^3 + x^4),
  (-13 + x) (-11 + x)^2 (-9 + x)^10 (-7 + x) (-5 + x) (5 + x)^30 (26 - 13 x + x^2),
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-12150 + 10913 x - 3588 x^2 + 542 x^3 - 38 x^4 + x^5),
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-12118 + 10913 x - 3588 x^2 + 542 x^3 - 38 x^4 + x^5),
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-12086 + 10913 x - 3588 x^2 + 542 x^3 - 38 x^4 + x^5),
  (-11 + x)^2 (-9 + x)^10 (-7 + x) (5 + x)^30 (1722 - 1313 x + 325 x^2 - 31 x^3 + x^4),
  (-13 + x) (-11 + x)^2 (-9 + x)^10 (-5 + x) (5 + x)^30 (-178 + 117 x - 20 x^2 + x^3),
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-11538 + 10809 x - 3584 x^2 + 542 x^3 - 38 x^4 + x^5),
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-11922 + 10841 x - 3584 x^2 + 542 x^3 - 38 x^4 + x^5),
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-11890 + 10841 x - 3584 x^2 + 542 x^3 - 38 x^4 + x^5),
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-11858 + 10841 x - 3584 x^2 + 542 x^3 - 38 x^4 + x^5),
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-11826 + 10841 x - 3584 x^2 + 542 x^3 - 38 x^4 + x^5),
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-11794 + 10841 x - 3584 x^2 + 542 x^3 - 38 x^4 + x^5),
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-11762 + 10841 x - 3584 x^2 + 542 x^3 - 38 x^4 + x^5),
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-11294 + 10737 x - 3580 x^2 + 542 x^3 - 38 x^4 + x^5),
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-11262 + 10737 x - 3580 x^2 + 542 x^3 - 38 x^4 + x^5),
  (-11 + x)^2 (-9 + x)^10 (5 + x)^30 (-11230 + 10737 x - 3580 x^2 + 542 x^3 - 38 x^4 + x^5),

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$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11710+10769x-3580x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11678+10769x-3580x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11646+10769x-3580x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11614+10769x-3580x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11582+10769x-3580x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11550+10769x-3580x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11518+10769x-3580x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11486+10769x-3580x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11454+10769x-3580x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11838+10801x-3580x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11806+10801x-3580x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11242+10681x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (1121-956x+262x^2-28x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11178+10681x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11146+10681x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11114+10681x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11082+10681x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11050+10681x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (1153-956x+262x^2-28x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11498+10713x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11466+10713x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11434+10713x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11402+10713x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11370+10713x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11338+10713x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11306+10713x-3576x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11658+10745x-3576x^2+542x^3-38x^4+x^5), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (-166+117x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10758+10593x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10726+10593x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10694+10593x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1238-1043x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11110+10625x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11078+10625x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11046+10625x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11014+10625x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (17-10x+x^2) (-646+245x-28x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2190-1687x+377x^2-33x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10918+10625x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10886+10625x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10854+10625x-3572x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11366+10657x-3572x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11334 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11302 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11270 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11238 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11206 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11174 + 10657x - 3572x^2 + 542x^3 - 38x^4 + x^5), \\
& (-13+x) (-11+x)^2 (-9+x)^{12} (-5+x) (-2+x) (5+x)^{30}, \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10498 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10466 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10434 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10402 + 10521x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1202 - 1039x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10786 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10754 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10722 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2138 - 1683x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10658 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10626 + 10553x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-2+x) (5+x)^{30} (5297 - 2628x + 470x^2 - 36x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1234 - 1039x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11074 + 10585x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11042 + 10585x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11010 + 10585x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10978 + 10585x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10946 + 10585x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (17 - 10x + x^2) (-642 + 245x - 28x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10882 + 10585x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2170 - 1683x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11266 + 10617x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11234 + 10617x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11202 + 10617x - 3568x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10190 + 10449x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10158 + 10449x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10126 + 10449x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10478 + 10481x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10446 + 10481x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10414 + 10481x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10382 + 10481x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10350 + 10481x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10318 + 10481x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10766 + 10513x - 3564x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10734 + 10513x - 3564x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10702+10513x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10670+10513x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10638+10513x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10606+10513x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10574+10513x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10542+10513x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10010+10393x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9978+10393x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9946+10393x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10298+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10266+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10234+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10202+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10170+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10138+10425x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10586+10457x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10554+10457x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10522+10457x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10490+10457x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10458+10457x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10426+10457x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10874+10489x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10842+10489x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10810+10489x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10778+10489x-3560x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1094-1027x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9814+10337x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9782+10337x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1126-1027x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10102+10369x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (106-21x+x^2) (19-12x+x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10038+10369x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10006+10369x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9974+10369x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9942+10369x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1158-1027x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10390+10401x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10358+10401x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10326+10401x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10294+10401x-3556x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1190-1027x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10678+10433x-3556x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10646 + 10433x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10614 + 10433x - 3556x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1058 - 1023x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9490 + 10265x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{11} (-5+x) (5+x)^{30} (-218 + 161x - 24x^2 + x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9778 + 10297x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9746 + 10297x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9714 + 10297x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9682 + 10297x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1122 - 1023x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10066 + 10329x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10034 + 10329x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10002 + 10329x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (1994 - 1667x + 377x^2 - 33x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1154 - 1023x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10354 + 10361x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10322 + 10361x - 3552x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9470 + 10225x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9438 + 10225x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9406 + 10225x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9758 + 10257x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9726 + 10257x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9694 + 10257x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9662 + 10257x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10046 + 10289x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-10014 + 10289x - 3548x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (929 - 924x + 262x^2 - 28x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9258 + 10169x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9226 + 10169x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9194 + 10169x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9578 + 10201x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9546 + 10201x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9514 + 10201x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9866 + 10233x - 3544x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (982 - 1011x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1014 - 1011x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9094 + 10113x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9062 + 10113x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9030 + 10113x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1046 - 1011x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9382 + 10145x - 3540x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (978 - 1007x + 281x^2 - 29x^3 + x^4),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8770+10\,041x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8738+10\,041x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{11} (-5+x) (5+x)^{30} (-202+161x-24x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9058+10\,073x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8750+10\,001x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8282+9913x-3528x^2+542x^3-38x^4+x^5) \}
\end{aligned}$$

Length[commoninterlacer2n4]

198

commoninterlacer3n4 =

```
findinterlacer[(x + 5) (x - 9) (x^4 - 34 x^3 + 404 x^2 - 1942 x + 3075),
  list1submod128 / mu[poly1sub] // Factor] * mu[poly1sub] // Factor
```

$$\begin{aligned}
& \{ (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,054+10\,545x-3564x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-11\,022+10\,545x-3564x^2+542x^3-38x^4+x^5), \\
& \dots 445 \dots, (-11+x)^3 (-9+x)^{11} (5+x)^{30} (-50+83x-18x^2+x^3) \}
\end{aligned}$$

large output

show less

show more

show all

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ze limit...

Length[commoninterlacer3n4]

448

list1subrefined =

```
Union[commoninterlacer1n4, commoninterlacer2n4, commoninterlacer3n4]
```

$$\begin{aligned}
& \{ (-13+x) (-11+x)^2 (-9+x)^{12} (-5+x) (-2+x) (5+x)^{30}, \\
& (-11+x)^2 (-9+x)^{12} (-1+x) (5+x)^{30} (82-19x+x^2), \\
& (-11+x)^2 (-9+x)^{12} (-6+x) (5+x)^{30} (17-14x+x^2), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-7+x) (-5+x) (5+x)^{30} (26-13x+x^2), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (47-16x+x^2) (26-13x+x^2), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-7+x) (-6+x) (5+x)^{30} (19-12x+x^2), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (106-21x+x^2) (19-12x+x^2), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (69-18x+x^2) (13-10x+x^2), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (17-10x+x^2) (-646+245x-28x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (17-10x+x^2) (-642+245x-28x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (31-12x+x^2) (-386+199x-26x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (-3+x) (5+x)^{30} (-434+203x-26x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (15-12x+x^2) (-562+215x-26x^2+x^3), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (-3+x) (5+x)^{30} (-395+187x-25x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (-5+x) (5+x)^{30} (-218+161x-24x^2+x^3), \\
& (-11+x)^2 (-9+x)^{11} (-5+x) (5+x)^{30} (-202+161x-24x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (41-14x+x^2) (-282+165x-24x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (41-14x+x^2) (-278+165x-24x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (37-14x+x^2) (-314+169x-24x^2+x^3),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (21-14x+x^2) (-458+185x-24x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (59-16x+x^2) (-170+131x-22x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (59-16x+x^2) (-154+131x-22x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (59-16x+x^2) (-138+131x-22x^2+x^3), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-3+x) (5+x)^{30} (-314+151x-22x^2+x^3), \\
& (-11+x)^2 (-9+x)^{12} (5+x)^{30} (-118+101x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{12} (5+x)^{30} (-114+101x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{12} (5+x)^{30} (-98+101x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{12} (5+x)^{30} (-86+101x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (73-18x+x^2) (-102+109x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (73-18x+x^2) (-98+109x-20x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (69-18x+x^2) (-146+113x-20x^2+x^3), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (-178+117x-20x^2+x^3), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (-166+117x-20x^2+x^3), \\
& (-11+x)^3 (-9+x)^{11} (5+x)^{30} (-50+83x-18x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (95-20x+x^2) (-98+87x-18x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (95-20x+x^2) (-82+87x-18x^2+x^3), \\
& (-13+x) (-11+x)^2 (-9+x)^{11} (5+x)^{30} (-74+73x-16x^2+x^3), \\
& (-11+x)^2 (-9+x)^{10} (-2+x) (5+x)^{30} (5297-2628x+470x^2-36x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2190-1687x+377x^2-33x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2138-1683x+377x^2-33x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (2170-1683x+377x^2-33x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (-5+x) (5+x)^{30} (1994-1667x+377x^2-33x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (-6+x) (5+x)^{30} (1409-1440x+350x^2-32x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1750-1317x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1722-1313x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1542-1301x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1574-1301x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1514-1297x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1334-1285x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1366-1285x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1398-1285x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1306-1281x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1338-1281x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1370-1281x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1222-1269x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{10} (-7+x) (5+x)^{30} (1194-1265x+325x^2-31x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1238-1043x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1270-1043x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1202-1039x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1234-1039x+281x^2-29x^3+x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1266-1039x+281x^2-29x^3+x^4),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1030 - 1027x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1094 - 1027x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1126 - 1027x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1158 - 1027x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1190 - 1027x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (994 - 1023x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1058 - 1023x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1122 - 1023x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1154 - 1023x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1186 - 1023x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (886 - 1011x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (950 - 1011x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (982 - 1011x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1014 - 1011x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (1046 - 1011x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (850 - 1007x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (914 - 1007x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (946 - 1007x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (978 - 1007x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (806 - 995x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (838 - 995x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (870 - 995x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (770 - 991x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (802 - 991x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (834 - 991x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (662 - 979x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (694 - 979x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (626 - 975x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{11} (5+x)^{30} (658 - 975x + 281x^2 - 29x^3 + x^4), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (1121 - 956x + 262x^2 - 28x^3 + x^4), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (1153 - 956x + 262x^2 - 28x^3 + x^4), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (865 - 924x + 262x^2 - 28x^3 + x^4), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (929 - 924x + 262x^2 - 28x^3 + x^4), \\
& (-11+x)^2 (-10+x) (-9+x)^{10} (5+x)^{30} (641 - 892x + 262x^2 - 28x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (922 - 763x + 217x^2 - 25x^3 + x^4), \\
& (-13+x) (-11+x)^2 (-9+x)^{10} (5+x)^{30} (778 - 747x + 217x^2 - 25x^3 + x^4), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12282 + 10969x - 3592x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12214 + 10913x - 3588x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12182 + 10913x - 3588x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12150 + 10913x - 3588x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12118 + 10913x - 3588x^2 + 542x^3 - 38x^4 + x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-12086 + 10913x - 3588x^2 + 542x^3 - 38x^4 + x^5),
\end{aligned}$$

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8066+9977x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8482+10009x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8450+10009x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8418+10009x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8386+10009x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8770+10041x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8738+10041x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-9058+10073x-3536x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7310+9841x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7598+9873x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7566+9873x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7534+9873x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7886+9905x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7854+9905x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7822+9905x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7758+9905x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8174+9937x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8110+9937x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8078+9937x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8462+9969x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8750+10001x-3532x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7130+9785x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7418+9817x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7386+9817x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7354+9817x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7706+9849x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7674+9849x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7642+9849x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7610+9849x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7578+9849x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7994+9881x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7962+9881x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7930+9881x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-8282+9913x-3528x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6934+9729x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7222+9761x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7190+9761x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7158+9761x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7510+9793x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7478+9793x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7798+9825x-3524x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6898+9689x-3520x^2+542x^3-38x^4+x^5),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6866+9689x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6834+9689x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7186+9721x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7474+9753x-3520x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6590+9617x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6558+9617x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6526+9617x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6878+9649x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6846+9649x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-7166+9681x-3516x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6122+9529x-3512x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6378+9561x-3512x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6346+9561x-3512x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6698+9593x-3512x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5926+9473x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-6214+9505x-3508x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5890+9433x-3504x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5582+9361x-3500x^2+542x^3-38x^4+x^5), \\
& (-11+x)^2 (-9+x)^{10} (5+x)^{30} (-5114+9273x-3496x^2+542x^3-38x^4+x^5) \}
\end{aligned}$$

Length[list11subrefined]

458

poly11sub = $(-13+x)(-11+x)^3(-9+x)^{11}(-7+x)(-3+x)(5+x)^{31}$
 $(-13+x)(-11+x)^3(-9+x)^{11}(-7+x)(-3+x)(5+x)^{31}$

Allsub = **CoefficientList**[list11subrefined / mu[poly11sub] // **Factor**, x];

Dimensions[Allsub]

{458, 6}

g11sub = **CoefficientList**[D[poly11sub, x] / mu[poly11sub] // **Factor**, x]

{-561072, 519312, -171984, 26016, -1824, 48}

Length[commoninterlacer1n4]

194

Length[commoninterlacer2n4]

198

Length[commoninterlacer3n4]

448

Union[commoninterlacer1n4, commoninterlacer2n4] // **Length**

294

```
Union[commoninterlacer1n4, commoninterlacer3n4] // Length
```

```
448
```

```
Union[commoninterlacer2n4, commoninterlacer3n4] // Length
```

```
458
```

```
commoninterlacer1n4pos =
```

```
  extractindices[commoninterlacer1n4 / mu[poly11sub] // Factor,
```

```
  list11subrefined / mu[poly11sub] // Factor]
```

```
{1, 3, 6, 7, 8, 9, 15, 17, 18, 21, 22, 23, 24, 25, 26, 33, 40, 43, 46, 57, 58, 59,
 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 73, 74, 75, 78, 79, 80, 82, 83, 85,
 91, 92, 93, 94, 96, 97, 105, 106, 114, 117, 118, 119, 120, 126, 131, 132, 133,
 134, 138, 139, 140, 147, 152, 153, 154, 155, 157, 158, 159, 160, 164, 165,
 166, 177, 178, 179, 180, 181, 182, 183, 185, 186, 187, 188, 192, 193, 194,
 198, 199, 206, 207, 209, 210, 211, 212, 213, 215, 216, 217, 218, 219, 224,
 225, 226, 227, 232, 233, 238, 243, 244, 245, 246, 247, 248, 249, 250, 251,
 252, 253, 255, 256, 257, 258, 262, 263, 264, 268, 269, 274, 275, 277, 278,
 279, 280, 281, 282, 283, 284, 285, 289, 290, 294, 303, 306, 307, 308, 309,
 311, 312, 313, 314, 318, 319, 320, 323, 332, 333, 334, 337, 338, 339, 343,
 344, 345, 348, 349, 355, 358, 359, 362, 363, 367, 370, 378, 379, 382, 383,
 386, 394, 395, 399, 400, 410, 411, 414, 417, 423, 424, 428, 436, 442, 447}
```

```
commoninterlacer2n4pos =
```

```
  extractindices[commoninterlacer2n4 / mu[poly11sub] // Factor,
```

```
  list11subrefined / mu[poly11sub] // Factor]
```

```
{1, 4, 7, 9, 10, 15, 16, 32, 33, 38, 39, 40, 41, 42, 44, 45, 57, 59, 60, 63, 64, 65,
 66, 68, 69, 70, 74, 75, 76, 80, 91, 92, 94, 98, 101, 102, 103, 104, 106, 107,
 108, 109, 110, 111, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125,
 129, 130, 132, 133, 134, 135, 136, 137, 139, 140, 141, 142, 143, 144, 145, 151,
 152, 153, 154, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169,
 170, 178, 179, 180, 181, 185, 186, 187, 188, 189, 192, 193, 194, 195, 196, 197,
 201, 202, 203, 209, 210, 211, 215, 216, 217, 218, 219, 220, 224, 225, 226, 227,
 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 248, 249, 250, 255, 256, 257,
 258, 259, 260, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 282, 283, 289,
 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 311, 318, 319, 320, 321,
 323, 324, 325, 326, 327, 343, 344, 345, 348, 349, 350, 351, 352, 353, 367,
 368, 369, 370, 371, 372, 373, 386, 387, 388, 389, 403, 404, 405, 418, 431}
```

```

commoninterlacer3n4pos =
  extractindices[commoninterlacer3n4 / mu[poly11sub] // Factor,
    list11subrefined / mu[poly11sub] // Factor]
{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24,
  25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 42, 43, 44, 46,
  47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66,
  67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86,
  87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104,
  105, 106, 107, 108, 109, 110, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121,
  122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137,
  138, 139, 140, 141, 142, 143, 144, 146, 147, 148, 149, 150, 151, 152, 153, 154,
  155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170,
  171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186,
  187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202,
  204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219,
  220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 232, 233, 234, 235, 236,
  238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253,
  254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269,
  270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284,
  285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 301,
  302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317,
  318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332,
  333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348,
  349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364,
  365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380,
  381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396,
  397, 398, 399, 400, 401, 402, 403, 404, 406, 407, 408, 409, 410, 411, 412,
  413, 414, 415, 416, 417, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428,
  429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443,
  444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458}

```

```

Complement[Range[458], Union[commoninterlacer1n4pos, commoninterlacer3n4pos]]
{41, 45, 111, 145, 203, 231, 237, 300, 405, 418}

```

```

FindInstance[Total[Array[n, 458][[commoninterlacer1n4pos]]] ≥ 16 &&
  Total[Array[n, 458][[commoninterlacer2n4pos]]] ≥ 28 &&
  Total[Array[n, 458][[commoninterlacer3n4pos]]] ≥ 20 &&
  Total[Array[n, 458][[
    Union[commoninterlacer1n4pos, commoninterlacer2n4pos]]]] ≥ 44 &&
  n[1] ≥ 0 && n[2] ≥ 0 && n[3] ≥ 0 && n[4] ≥ 0 && n[5] ≥ 0 && n[6] ≥ 0 && n[7] ≥ 0 &&
  n[8] ≥ 0 && n[9] ≥ 0 && n[10] ≥ 0 && n[11] ≥ 0 && n[12] ≥ 0 && n[13] ≥ 0 && n[14] ≥ 0 &&
  n[15] ≥ 0 && n[16] ≥ 0 && n[17] ≥ 0 && n[18] ≥ 0 && n[19] ≥ 0 && n[20] ≥ 0 && n[21] ≥ 0 &&
  n[22] ≥ 0 && n[23] ≥ 0 && n[24] ≥ 0 && n[25] ≥ 0 && n[26] ≥ 0 && n[27] ≥ 0 && n[28] ≥ 0 &&
  n[29] ≥ 0 && n[30] ≥ 0 && n[31] ≥ 0 && n[32] ≥ 0 && n[33] ≥ 0 && n[34] ≥ 0 && n[35] ≥ 0 &&
  n[36] ≥ 0 && n[37] ≥ 0 && n[38] ≥ 0 && n[39] ≥ 0 && n[40] ≥ 0 && n[41] ≥ 0 && n[42] ≥ 0 &&
  n[43] ≥ 0 && n[44] ≥ 0 && n[45] ≥ 0 && n[46] ≥ 0 && n[47] ≥ 0 && n[48] ≥ 0 &&
  n[49] ≥ 0 && n[50] ≥ 0 && n[51] ≥ 0 && n[52] ≥ 0 && n[53] ≥ 0 && n[54] ≥ 0 &&

```


[illegible]

[illegible]

```
Array[n, 458] /. {n[1] → 0, n[2] → 0, n[3] → 0, n[4] → 0, n[5] → 0, n[6] → 0, n[7] → 0,
  n[8] → 0, n[9] → 0, n[10] → 0, n[11] → 0, n[12] → 0, n[13] → 0, n[14] → 0,
  n[15] → 0, n[16] → 0, n[17] → 0, n[18] → 0, n[19] → 0, n[20] → 0, n[21] → 0,
  n[22] → 0, n[23] → 0, n[24] → 0, n[25] → 0, n[26] → 0, n[27] → 0, n[28] → 0,
  n[29] → 0, n[30] → 0, n[31] → 0, n[32] → 0, n[33] → 0, n[34] → 0, n[35] → 0,
```


[illegible]

[illegible]

```
FindInstance[n[1] ≥ 0 && n[2] ≥ 0 && n[3] ≥ 0 && n[4] ≥ 0 && n[5] ≥ 0 && n[6] ≥ 0 &&
n[7] ≥ 0 && n[8] ≥ 0 && n[9] ≥ 0 && n[10] ≥ 0 && n[11] ≥ 0 && n[12] ≥ 0 && n[13] ≥ 0 &&
n[14] ≥ 0 && n[15] ≥ 0 && n[16] ≥ 0 && n[17] ≥ 0 && n[18] ≥ 0 && n[19] ≥ 0 &&
n[20] ≥ 0 && n[21] ≥ 0 && n[22] ≥ 0 && n[23] ≥ 0 && n[24] ≥ 0 && n[25] ≥ 0 &&
n[26] ≥ 0 && n[27] ≥ 0 && n[28] ≥ 0 && n[29] ≥ 0 && n[30] ≥ 0 && n[31] ≥ 0 &&
n[32] ≥ 0 && n[33] ≥ 0 && n[34] ≥ 0 && n[35] ≥ 0 && n[36] ≥ 0 && n[37] ≥ 0 &&
n[38] ≥ 0 && n[39] ≥ 0 && n[40] ≥ 0 && n[41] ≥ 0 && n[42] ≥ 0 && n[43] ≥ 0 &&
n[44] ≥ 0 && n[45] == 0 && n[46] ≥ 0 && n[47] ≥ 0 && n[48] ≥ 0 && n[49] ≥ 0 &&
n[50] ≥ 0 && n[51] ≥ 0 && n[52] ≥ 0 && n[53] ≥ 0 && n[54] ≥ 0 && n[55] ≥ 0 &&
n[56] ≥ 0 && n[57] ≥ 0 && n[58] ≥ 0 && n[59] ≥ 0 && n[60] ≥ 0 && n[61] ≥ 0 &&
n[62] ≥ 0 && n[63] ≥ 0 && n[64] ≥ 0 && n[65] ≥ 0 && n[66] ≥ 0 && n[67] ≥ 0 &&
n[68] ≥ 0 && n[69] ≥ 0 && n[70] ≥ 0 && n[71] ≥ 0 && n[72] ≥ 0 && n[73] ≥ 0 &&
n[74] ≥ 0 && n[75] ≥ 0 && n[76] ≥ 0 && n[77] ≥ 0 && n[78] ≥ 0 && n[79] ≥ 0 &&
```

[illegible]


```

n[203] → 0, n[204] → 0, n[205] → 0, n[206] → 0, n[207] → 0, n[208] → 0, n[209] → 0,
n[210] → 0, n[211] → 0, n[212] → 0, n[213] → 0, n[214] → 0, n[215] → 0, n[216] → 0,
n[217] → 0, n[218] → 0, n[219] → 0, n[220] → 0, n[221] → 0, n[222] → 0, n[223] → 0,
n[224] → 0, n[225] → 0, n[226] → 0, n[227] → 0, n[228] → 0, n[229] → 0, n[230] → 0,
n[231] → 0, n[232] → 0, n[233] → 0, n[234] → 0, n[235] → 0, n[236] → 0, n[237] → 0,
n[238] → 0, n[239] → 0, n[240] → 0, n[241] → 0, n[242] → 0, n[243] → 0, n[244] → 0,
n[245] → 0, n[246] → 0, n[247] → 0, n[248] → 0, n[249] → 0, n[250] → 0, n[251] → 0,
n[252] → 0, n[253] → 0, n[254] → 0, n[255] → 0, n[256] → 0, n[257] → 0, n[258] → 0,
n[259] → 0, n[260] → 0, n[261] → 0, n[262] → 0, n[263] → 0, n[264] → 0, n[265] → 0,
n[266] → 0, n[267] → 0, n[268] → 0, n[269] → 0, n[270] → 0, n[271] → 0, n[272] → 0,
n[273] → 0, n[274] → 0, n[275] → 0, n[276] → 0, n[277] → 0, n[278] → 0, n[279] → 0,
n[280] → 0, n[281] → 0, n[282] → 0, n[283] → 0, n[284] → 0, n[285] → 0, n[286] → 0,
n[287] → 0, n[288] → 0, n[289] → 0, n[290] → 0, n[291] → 0, n[292] → 0, n[293] → 0,
n[294] → 0, n[295] → 0, n[296] → 0, n[297] → 0, n[298] → 0, n[299] → 0, n[300] → 0,
n[301] → 0, n[302] → 0, n[303] → 0, n[304] → 0, n[305] → 0, n[306] → 0, n[307] → 0,
n[308] → 0, n[309] → 0, n[310] → 0, n[311] → 0, n[312] → 0, n[313] → 0, n[314] → 0,
n[315] → 0, n[316] → 0, n[317] → 0, n[318] → 0, n[319] → 0, n[320] → 0, n[321] → 0,
n[322] → 0, n[323] → 0, n[324] → 0, n[325] → 0, n[326] → 0, n[327] → 0, n[328] → 0,
n[329] → 0, n[330] → 0, n[331] → 0, n[332] → 0, n[333] → 0, n[334] → 0, n[335] → 0,
n[336] → 0, n[337] → 0, n[338] → 0, n[339] → 0, n[340] → 0, n[341] → 0, n[342] → 0,
n[343] → 0, n[344] → 0, n[345] → 0, n[346] → 0, n[347] → 0, n[348] → 0, n[349] → 0,
n[350] → 0, n[351] → 0, n[352] → 0, n[353] → 0, n[354] → 0, n[355] → 0, n[356] → 0,
n[357] → 0, n[358] → 0, n[359] → 0, n[360] → 0, n[361] → 0, n[362] → 0, n[363] → 0,
n[364] → 0, n[365] → 0, n[366] → 0, n[367] → 0, n[368] → 0, n[369] → 0, n[370] → 0,
n[371] → 0, n[372] → 0, n[373] → 0, n[374] → 0, n[375] → 0, n[376] → 0, n[377] → 0,
n[378] → 0, n[379] → 0, n[380] → 0, n[381] → 0, n[382] → 0, n[383] → 0, n[384] → 0,
n[385] → 0, n[386] → 0, n[387] → 0, n[388] → 0, n[389] → 0, n[390] → 0, n[391] → 0,
n[392] → 0, n[393] → 0, n[394] → 0, n[395] → 0, n[396] → 0, n[397] → 0, n[398] → 0,
n[399] → 0, n[400] → 0, n[401] → 0, n[402] → 0, n[403] → 0, n[404] → 0, n[405] → 0,
n[406] → 0, n[407] → 0, n[408] → 0, n[409] → 0, n[410] → 0, n[411] → 0, n[412] → 0,
n[413] → 0, n[414] → 0, n[415] → 0, n[416] → 0, n[417] → 0, n[418] → 0, n[419] → 0,
n[420] → 0, n[421] → 0, n[422] → 0, n[423] → 0, n[424] → 0, n[425] → 0, n[426] → 0,
n[427] → 0, n[428] → 0, n[429] → 0, n[430] → 0, n[431] → 0, n[432] → 0, n[433] → 0,
n[434] → 0, n[435] → 0, n[436] → 0, n[437] → 0, n[438] → 0, n[439] → 0, n[440] → 0,
n[441] → 0, n[442] → 0, n[443] → 0, n[444] → 0, n[445] → 0, n[446] → 0,
n[447] → 0, n[448] → 0, n[449] → 0, n[450] → 0, n[451] → 0, n[452] → 0,
n[453] → 0, n[454] → 0, n[455] → 0, n[456] → 0, n[457] → 0, n[458] → 0} }

```

```

Array[n, 458] /. {n[1] → 0, n[2] → 0, n[3] → 0, n[4] → 0, n[5] → 0, n[6] → 0, n[7] → 0,
n[8] → 0, n[9] → 0, n[10] → 0, n[11] → 0, n[12] → 0, n[13] → 0, n[14] → 0,
n[15] → 0, n[16] → 0, n[17] → 0, n[18] → 0, n[19] → 0, n[20] → 0, n[21] → 0,
n[22] → 0, n[23] → 0, n[24] → 0, n[25] → 0, n[26] → 0, n[27] → 0, n[28] → 0,
n[29] → 0, n[30] → 0, n[31] → 0, n[32] → 0, n[33] → 0, n[34] → 0, n[35] → 0,
n[36] → 0, n[37] → 0, n[38] → 0, n[39] → 0, n[40] → 0, n[41] → 0, n[42] → 0,
n[43] → 0, n[44] → 9, n[45] → 0, n[46] → 0, n[47] → 21, n[48] → 0, n[49] → 0,
n[50] → 0, n[51] → 0, n[52] → 0, n[53] → 0, n[54] → 0, n[55] → 0, n[56] → 0,
n[57] → 0, n[58] → 0, n[59] → 0, n[60] → 0, n[61] → 0, n[62] → 0, n[63] → 0,

```


[illegible]

last14[12]

$$(-11 + x)^2 (-9 + x)^{11} (5 + x)^{32} (7160 - 3321 x + 551 x^2 - 39 x^3 + x^4)$$

$$\begin{aligned} \text{list}[12] = & \left\{ (59 - 16x + x^2) (5587 - 2914x + 516x^2 - 38x^3 + x^4), \right. \\ & 329217 - 261286x + 82655x^2 - 13412x^3 + 1183x^4 - 54x^5 + x^6, \\ & (-11 + x) (-30131 + 21049x - 5602x^2 + 710x^3 - 43x^4 + x^5), \\ & (-11 + x) (-30099 + 21049x - 5602x^2 + 710x^3 - 43x^4 + x^5), \\ & 331153 - 261638x + 82671x^2 - 13412x^3 + 1183x^4 - 54x^5 + x^6, \\ & 330801 - 261606x + 82671x^2 - 13412x^3 + 1183x^4 - 54x^5 + x^6, \\ & (-11 + x) (-30211 + 21065x - 5602x^2 + 710x^3 - 43x^4 + x^5), \\ & \left. (-9 + x) (-35521 + 24773x - 6402x^2 + 778x^3 - 45x^4 + x^5), \right\} \end{aligned}$$

$$\begin{aligned}
& (37 - 14x + x^2) (8629 - 3720x + 586x^2 - 40x^3 + x^4), \\
& 319337 - 258446x + 82391x^2 - 13404x^3 + 1183x^4 - 54x^5 + x^6, \\
& 318985 - 258414x + 82391x^2 - 13404x^3 + 1183x^4 - 54x^5 + x^6, \\
& (-9 + x) (-35729 + 24789x - 6402x^2 + 778x^3 - 45x^4 + x^5), \\
& (-11 + x) (-29195 + 20873x - 5594x^2 + 710x^3 - 43x^4 + x^5), \\
& 321209 - 258798x + 82407x^2 - 13404x^3 + 1183x^4 - 54x^5 + x^6, \\
& (-9 + x) (73 - 18x + x^2) (-489 + 219x - 27x^2 + x^3), \\
& 320857 - 258766x + 82407x^2 - 13404x^3 + 1183x^4 - 54x^5 + x^6, \\
& (-11 + x)^2 (-9 + x) (-297 + 151x - 23x^2 + x^3), \\
& (-11 + x) (-29371 + 20889x - 5594x^2 + 710x^3 - 43x^4 + x^5), \\
& (-9 + x) (-35905 + 24805x - 6402x^2 + 778x^3 - 45x^4 + x^5), \\
& (-11 + x) (-29339 + 20889x - 5594x^2 + 710x^3 - 43x^4 + x^5), \\
& 322793 - 259118x + 82423x^2 - 13404x^3 + 1183x^4 - 54x^5 + x^6, \\
& (-11 + x) (-29307 + 20889x - 5594x^2 + 710x^3 - 43x^4 + x^5), \\
& (73 - 18x + x^2) (4417 - 2460x + 462x^2 - 36x^3 + x^4), \\
& (-11 + x) (-9 + x) (3283 - 1958x + 404x^2 - 34x^3 + x^4), \\
& (-11 + x) (-29515 + 20905x - 5594x^2 + 710x^3 - 43x^4 + x^5), \\
& (-9 + x) (-36081 + 24821x - 6402x^2 + 778x^3 - 45x^4 + x^5), \\
& (-11 + x) (-29483 + 20905x - 5594x^2 + 710x^3 - 43x^4 + x^5), \\
& 324377 - 259438x + 82439x^2 - 13404x^3 + 1183x^4 - 54x^5 + x^6, \\
& (-11 + x) (-29451 + 20905x - 5594x^2 + 710x^3 - 43x^4 + x^5), \\
& (-11 + x) (-29659 + 20921x - 5594x^2 + 710x^3 - 43x^4 + x^5), \\
& (-13 + x) (-11 + x) (2279 - 1434x + 320x^2 - 30x^3 + x^4), \\
& (-9 + x) (-34169 + 24565x - 6394x^2 + 778x^3 - 45x^4 + x^5), \\
& (-9 + x) (-7 + x) (4911 - 2810x + 512x^2 - 38x^3 + x^4), \\
& 309041 - 255574x + 82127x^2 - 13396x^3 + 1183x^4 - 54x^5 + x^6, \\
& (-11 + x) (-28291 + 20697x - 5586x^2 + 710x^3 - 43x^4 + x^5), \\
& (-9 + x) (-34585 + 24597x - 6394x^2 + 778x^3 - 45x^4 + x^5), \\
& (-11 + x)^2 (-7 + x) (-367 + 183x - 25x^2 + x^3), \\
& 310913 - 255926x + 82143x^2 - 13396x^3 + 1183x^4 - 54x^5 + x^6, \\
& (-9 + x) (-34553 + 24597x - 6394x^2 + 778x^3 - 45x^4 + x^5), \\
& (-7 + x) (-44375 + 30217x - 7418x^2 + 854x^3 - 47x^4 + x^5), \\
& (-11 + x) (-9 + x) (3163 - 1950x + 404x^2 - 34x^3 + x^4), \\
& (-11 + x)^2 (2585 - 1648x + 358x^2 - 32x^3 + x^4), \\
& (-9 + x) (-34761 + 24613x - 6394x^2 + 778x^3 - 45x^4 + x^5), \\
& (-11 + x) (-28403 + 20713x - 5586x^2 + 710x^3 - 43x^4 + x^5), \\
& 312497 - 256246x + 82159x^2 - 13396x^3 + 1183x^4 - 54x^5 + x^6, \\
& (-9 + x) (-34729 + 24613x - 6394x^2 + 778x^3 - 45x^4 + x^5), \\
& 312145 - 256214x + 82159x^2 - 13396x^3 + 1183x^4 - 54x^5 + x^6, \\
& (-11 + x)^2 (-9 + x) (-289 + 151x - 23x^2 + x^3), \\
& (-11 + x) (-28579 + 20729x - 5586x^2 + 710x^3 - 43x^4 + x^5), \\
& (-9 + x) (-34937 + 24629x - 6394x^2 + 778x^3 - 45x^4 + x^5), \\
& (-11 + x) (-28547 + 20729x - 5586x^2 + 710x^3 - 43x^4 + x^5),
\end{aligned}$$

$$\begin{aligned}
& 314\,081 - 256\,566x + 82\,175x^2 - 13\,396x^3 + 1183x^4 - 54x^5 + x^6, \\
& (-11+x)(-9+x)(3195 - 1950x + 404x^2 - 34x^3 + x^4), \\
& (-11+x)(-28\,723 + 20\,745x - 5586x^2 + 710x^3 - 43x^4 + x^5), \\
& (-13+x)(-9+x)(73 - 18x + x^2)(37 - 14x + x^2), \\
& (-13+x)(-11+x)(2207 - 1426x + 320x^2 - 30x^3 + x^4), \\
& (-11+x)(-28\,659 + 20\,745x - 5586x^2 + 710x^3 - 43x^4 + x^5), \\
& (-13+x)(-11+x)(-9+x)(-247 + 131x - 21x^2 + x^3), \\
& (-11+x)(-28\,867 + 20\,761x - 5586x^2 + 710x^3 - 43x^4 + x^5), \\
& (-11+x)(73 - 18x + x^2)(-395 + 187x - 25x^2 + x^3), \\
& (-11+x)(-9+x)(3227 - 1950x + 404x^2 - 34x^3 + x^4), \\
& (-9+x)(-33\,233 + 24\,389x - 6386x^2 + 778x^3 - 45x^4 + x^5), \\
& (-9+x)^2(3689 - 2300x + 454x^2 - 36x^3 + x^4), \\
& (-11+x)(-27\,355 + 20\,521x - 5578x^2 + 710x^3 - 43x^4 + x^5), \\
& (-9+x)(-33\,441 + 24\,405x - 6386x^2 + 778x^3 - 45x^4 + x^5), \\
& 300\,617 - 253\,054x + 81\,879x^2 - 13\,388x^3 + 1183x^4 - 54x^5 + x^6, \\
& (-9+x)(-33\,409 + 24\,405x - 6386x^2 + 778x^3 - 45x^4 + x^5), \\
& (-11+x)(-9+x)(-7+x)(-437 + 215x - 27x^2 + x^3), \\
& (-11+x)(-27\,499 + 20\,537x - 5578x^2 + 710x^3 - 43x^4 + x^5), \\
& (-9+x)(-33\,617 + 24\,421x - 6386x^2 + 778x^3 - 45x^4 + x^5), \\
& 302\,201 - 253\,374x + 81\,895x^2 - 13\,388x^3 + 1183x^4 - 54x^5 + x^6, \\
& (-9+x)(-33\,585 + 24\,421x - 6386x^2 + 778x^3 - 45x^4 + x^5), \\
& (-11+x)(-9+x)(3075 - 1942x + 404x^2 - 34x^3 + x^4), \\
& (-11+x)^2(-7+x)(-359 + 183x - 25x^2 + x^3), \\
& (-9+x)(-33\,793 + 24\,437x - 6386x^2 + 778x^3 - 45x^4 + x^5), \\
& (-11+x)(-27\,611 + 20\,553x - 5578x^2 + 710x^3 - 43x^4 + x^5), \\
& 303\,785 - 253\,694x + 81\,911x^2 - 13\,388x^3 + 1183x^4 - 54x^5 + x^6, \\
& (-11+x)^2(-9+x)(-281 + 151x - 23x^2 + x^3), \\
& (-11+x)(-27\,787 + 20\,569x - 5578x^2 + 710x^3 - 43x^4 + x^5), \\
& (-13+x)(-9+x)(2613 - 1680x + 362x^2 - 32x^3 + x^4), \\
& (-13+x)(-11+x)(-7+x)(-305 + 159x - 23x^2 + x^3), \\
& 305\,369 - 254\,014x + 81\,927x^2 - 13\,388x^3 + 1183x^4 - 54x^5 + x^6, \\
& (-13+x)(-11+x)(-9+x)(-239 + 131x - 21x^2 + x^3), \\
& (-11+x)(-27\,931 + 20\,585x - 5578x^2 + 710x^3 - 43x^4 + x^5), \\
& (-11+x)(-27\,899 + 20\,585x - 5578x^2 + 710x^3 - 43x^4 + x^5), \\
& (-11+x)(-9+x)(3123 - 1942x + 404x^2 - 34x^3 + x^4), \\
& (-11+x)(-28\,075 + 20\,601x - 5578x^2 + 710x^3 - 43x^4 + x^5), \\
& (-11+x)(-9+x)(73 - 18x + x^2)(43 - 16x + x^2), \\
& (-11+x)(-9+x)(2939 - 1934x + 404x^2 - 34x^3 + x^4), \\
& (-9+x)(-32\,297 + 24\,213x - 6378x^2 + 778x^3 - 45x^4 + x^5), \\
& (-11+x)(-9+x)(2955 - 1934x + 404x^2 - 34x^3 + x^4), \\
& (-9+x)(-32\,473 + 24\,229x - 6378x^2 + 778x^3 - 45x^4 + x^5), \\
& (-9+x)(-32\,441 + 24\,229x - 6378x^2 + 778x^3 - 45x^4 + x^5), \\
& (-11+x)(-9+x)(2971 - 1934x + 404x^2 - 34x^3 + x^4),
\end{aligned}$$

$$\begin{aligned}
& (-11+x) (-26\,707 + 20\,377 x - 5570 x^2 + 710 x^3 - 43 x^4 + x^5), \\
& (-9+x) (-32\,649 + 24\,245 x - 6378 x^2 + 778 x^3 - 45 x^4 + x^5), \\
& (-13+x) (-9+x) (2509 - 1672 x + 362 x^2 - 32 x^3 + x^4), \\
& (-11+x) (-9+x) (2987 - 1934 x + 404 x^2 - 34 x^3 + x^4), \\
& (-11+x)^2 (2441 - 1632 x + 358 x^2 - 32 x^3 + x^4), \\
& (-13+x) (-9+x) (2525 - 1672 x + 362 x^2 - 32 x^3 + x^4), \\
& 295\,073 - 251\,142 x + 81\,663 x^2 - 13\,380 x^3 + 1183 x^4 - 54 x^5 + x^6, \\
& (-13+x) (-11+x)^2 (-9+x) (-7+x) (-3+x), \\
& (-11+x) (-26\,995 + 20\,409 x - 5570 x^2 + 710 x^3 - 43 x^4 + x^5), \\
& (-9+x) (-33\,001 + 24\,277 x - 6378 x^2 + 778 x^3 - 45 x^4 + x^5), \\
& (-11+x) (-9+x) (3019 - 1934 x + 404 x^2 - 34 x^3 + x^4), \\
& (-11+x) (-7+x) (3877 - 2364 x + 458 x^2 - 36 x^3 + x^4), \\
& (-11+x) (-27\,107 + 20\,425 x - 5570 x^2 + 710 x^3 - 43 x^4 + x^5), \\
& (-11+x) (-9+x) (3035 - 1934 x + 404 x^2 - 34 x^3 + x^4), \\
& (-11+x) (-9+x) (2851 - 1926 x + 404 x^2 - 34 x^3 + x^4), \\
& (-11+x) (-9+x) (2867 - 1926 x + 404 x^2 - 34 x^3 + x^4), \\
& (-9+x) (-31\,505 + 24\,053 x - 6370 x^2 + 778 x^3 - 45 x^4 + x^5), \\
& (-11+x) (-9+x) (2883 - 1926 x + 404 x^2 - 34 x^3 + x^4), \\
& (-13+x) (-9+x) (2437 - 1664 x + 362 x^2 - 32 x^3 + x^4), \\
& (-13+x) (-11+x) (-9+x) (-223 + 131 x - 21 x^2 + x^3), \\
& (-11+x)^2 (2369 - 1624 x + 358 x^2 - 32 x^3 + x^4), \\
& (-9+x) (-31\,857 + 24\,085 x - 6370 x^2 + 778 x^3 - 45 x^4 + x^5), \\
& (-11+x)^2 (-9+x) (-265 + 151 x - 23 x^2 + x^3), \\
& (-11+x) (-26\,203 + 20\,249 x - 5562 x^2 + 710 x^3 - 43 x^4 + x^5), \\
& (-11+x) (-9+x) (2931 - 1926 x + 404 x^2 - 34 x^3 + x^4), \\
& (-11+x) (-26\,347 + 20\,265 x - 5562 x^2 + 710 x^3 - 43 x^4 + x^5), \\
& (-11+x) (-9+x) (-7+x) (-421 + 215 x - 27 x^2 + x^3), \\
& (-13+x) (-11+x) (-9+x) (-215 + 131 x - 21 x^2 + x^3), \\
& (-9+x) (-30\,713 + 23\,893 x - 6362 x^2 + 778 x^3 - 45 x^4 + x^5), \\
& (-11+x) (-9+x) (2811 - 1918 x + 404 x^2 - 34 x^3 + x^4), \\
& (-9+x) (-30\,889 + 23\,909 x - 6362 x^2 + 778 x^3 - 45 x^4 + x^5), \\
& (-11+x)^2 (-9+x) (-257 + 151 x - 23 x^2 + x^3), \\
& (-11+x) (-9+x) (2843 - 1918 x + 404 x^2 - 34 x^3 + x^4), \\
& (-11+x) (95 - 20 x + x^2) (-269 + 155 x - 23 x^2 + x^3), \\
& (-11+x) (-9+x) (2723 - 1910 x + 404 x^2 - 34 x^3 + x^4), \\
& (-11+x)^2 (-9+x) (-249 + 151 x - 23 x^2 + x^3), (-11+x) (-9+x) \\
& (95 - 20 x + x^2) (29 - 14 x + x^2), (-11+x)^2 (-9+x) (-241 + 151 x - 23 x^2 + x^3) \};
\end{aligned}$$

$$\begin{pmatrix}
329\,633 & -261\,318 & 82\,655 & -13\,412 & 1183 & -54 & 1 \\
329\,217 & -261\,286 & 82\,655 & -13\,412 & 1183 & -54 & 1 \\
331\,441 & -261\,670 & 82\,671 & -13\,412 & 1183 & -54 & 1 \\
331\,089 & -261\,638 & 82\,671 & -13\,412 & 1183 & -54 & 1 \\
331\,153 & -261\,638 & 82\,671 & -13\,412 & 1183 & -54 & 1 \\
330\,801 & -261\,606 & 82\,671 & -13\,412 & 1183 & -54 & 1 \\
332\,321 & -261\,926 & 82\,687 & -13\,412 & 1183 & -54 & 1
\end{pmatrix}$$

319 689	-258 478	82 391	-13 404	1183	-54	1
319 273	-258 446	82 391	-13 404	1183	-54	1
319 337	-258 446	82 391	-13 404	1183	-54	1
318 985	-258 414	82 391	-13 404	1183	-54	1
321 561	-258 830	82 407	-13 404	1183	-54	1
321 145	-258 798	82 407	-13 404	1183	-54	1
321 209	-258 798	82 407	-13 404	1183	-54	1
321 273	-258 798	82 407	-13 404	1183	-54	1
320 857	-258 766	82 407	-13 404	1183	-54	1
323 433	-259 182	82 423	-13 404	1183	-54	1
323 081	-259 150	82 423	-13 404	1183	-54	1
323 145	-259 150	82 423	-13 404	1183	-54	1
322 729	-259 118	82 423	-13 404	1183	-54	1
322 793	-259 118	82 423	-13 404	1183	-54	1
322 377	-259 086	82 423	-13 404	1183	-54	1
322 441	-259 086	82 423	-13 404	1183	-54	1
325 017	-259 502	82 439	-13 404	1183	-54	1
324 665	-259 470	82 439	-13 404	1183	-54	1
324 729	-259 470	82 439	-13 404	1183	-54	1
324 313	-259 438	82 439	-13 404	1183	-54	1
324 377	-259 438	82 439	-13 404	1183	-54	1
323 961	-259 406	82 439	-13 404	1183	-54	1
326 249	-259 790	82 455	-13 404	1183	-54	1
325 897	-259 758	82 455	-13 404	1183	-54	1
307 521	-255 254	82 111	-13 396	1183	-54	1
309 393	-255 606	82 127	-13 396	1183	-54	1
309 041	-255 574	82 127	-13 396	1183	-54	1
311 201	-255 958	82 143	-13 396	1183	-54	1
311 265	-255 958	82 143	-13 396	1183	-54	1
310 849	-255 926	82 143	-13 396	1183	-54	1
310 913	-255 926	82 143	-13 396	1183	-54	1
310 977	-255 926	82 143	-13 396	1183	-54	1
310 625	-255 894	82 143	-13 396	1183	-54	1
313 137	-256 310	82 159	-13 396	1183	-54	1
312 785	-256 278	82 159	-13 396	1183	-54	1
312 849	-256 278	82 159	-13 396	1183	-54	1
312 433	-256 246	82 159	-13 396	1183	-54	1
312 497	-256 246	82 159	-13 396	1183	-54	1
312 561	-256 246	82 159	-13 396	1183	-54	1
312 145	-256 214	82 159	-13 396	1183	-54	1
314 721	-256 630	82 175	-13 396	1183	-54	1
314 369	-256 598	82 175	-13 396	1183	-54	1
314 433	-256 598	82 175	-13 396	1183	-54	1
314 017	-256 566	82 175	-13 396	1183	-54	1
314 081	-256 566	82 175	-13 396	1183	-54	1
316 305	-256 950	82 191	-13 396	1183	-54	1
315 953	-256 918	82 191	-13 396	1183	-54	1
316 017	-256 918	82 191	-13 396	1183	-54	1
315 601	-256 886	82 191	-13 396	1183	-54	1
315 249	-256 854	82 191	-13 396	1183	-54	1
317 889	-257 270	82 207	-13 396	1183	-54	1
317 537	-257 238	82 207	-13 396	1183	-54	1
317 185	-257 206	82 207	-13 396	1183	-54	1
319 473	-257 590	82 223	-13 396	1183	-54	1
299 097	-252 734	81 863	-13 388	1183	-54	1

$$A[12] = \begin{pmatrix} 298\,809 & -252\,702 & 81\,863 & -13\,388 & 1183 & -54 & 1 \\ 300\,905 & -253\,086 & 81\,879 & -13\,388 & 1183 & -54 & 1 \\ 300\,969 & -253\,086 & 81\,879 & -13\,388 & 1183 & -54 & 1 \\ 300\,617 & -253\,054 & 81\,879 & -13\,388 & 1183 & -54 & 1 \\ 300\,681 & -253\,054 & 81\,879 & -13\,388 & 1183 & -54 & 1 \\ 302\,841 & -253\,438 & 81\,895 & -13\,388 & 1183 & -54 & 1 \\ 302\,489 & -253\,406 & 81\,895 & -13\,388 & 1183 & -54 & 1 \\ 302\,553 & -253\,406 & 81\,895 & -13\,388 & 1183 & -54 & 1 \\ 302\,201 & -253\,374 & 81\,895 & -13\,388 & 1183 & -54 & 1 \\ 302\,265 & -253\,374 & 81\,895 & -13\,388 & 1183 & -54 & 1 \\ 304\,425 & -253\,758 & 81\,911 & -13\,388 & 1183 & -54 & 1 \\ 304\,073 & -253\,726 & 81\,911 & -13\,388 & 1183 & -54 & 1 \\ 304\,137 & -253\,726 & 81\,911 & -13\,388 & 1183 & -54 & 1 \\ 303\,721 & -253\,694 & 81\,911 & -13\,388 & 1183 & -54 & 1 \\ 303\,785 & -253\,694 & 81\,911 & -13\,388 & 1183 & -54 & 1 \\ 306\,009 & -254\,078 & 81\,927 & -13\,388 & 1183 & -54 & 1 \\ 305\,657 & -254\,046 & 81\,927 & -13\,388 & 1183 & -54 & 1 \\ 305\,721 & -254\,046 & 81\,927 & -13\,388 & 1183 & -54 & 1 \\ 305\,305 & -254\,014 & 81\,927 & -13\,388 & 1183 & -54 & 1 \\ 305\,369 & -254\,014 & 81\,927 & -13\,388 & 1183 & -54 & 1 \\ 307\,593 & -254\,398 & 81\,943 & -13\,388 & 1183 & -54 & 1 \\ 307\,241 & -254\,366 & 81\,943 & -13\,388 & 1183 & -54 & 1 \\ 306\,889 & -254\,334 & 81\,943 & -13\,388 & 1183 & -54 & 1 \\ 309\,177 & -254\,718 & 81\,959 & -13\,388 & 1183 & -54 & 1 \\ 308\,825 & -254\,686 & 81\,959 & -13\,388 & 1183 & -54 & 1 \\ 310\,761 & -255\,038 & 81\,975 & -13\,388 & 1183 & -54 & 1 \\ 290\,961 & -250\,246 & 81\,615 & -13\,380 & 1183 & -54 & 1 \\ 290\,673 & -250\,214 & 81\,615 & -13\,380 & 1183 & -54 & 1 \\ 292\,545 & -250\,566 & 81\,631 & -13\,380 & 1183 & -54 & 1 \\ 292\,257 & -250\,534 & 81\,631 & -13\,380 & 1183 & -54 & 1 \\ 291\,969 & -250\,502 & 81\,631 & -13\,380 & 1183 & -54 & 1 \\ 294\,129 & -250\,886 & 81\,647 & -13\,380 & 1183 & -54 & 1 \\ 293\,777 & -250\,854 & 81\,647 & -13\,380 & 1183 & -54 & 1 \\ 293\,841 & -250\,854 & 81\,647 & -13\,380 & 1183 & -54 & 1 \\ 293\,553 & -250\,822 & 81\,647 & -13\,380 & 1183 & -54 & 1 \\ 295\,713 & -251\,206 & 81\,663 & -13\,380 & 1183 & -54 & 1 \\ 295\,361 & -251\,174 & 81\,663 & -13\,380 & 1183 & -54 & 1 \\ 295\,425 & -251\,174 & 81\,663 & -13\,380 & 1183 & -54 & 1 \\ 295\,073 & -251\,142 & 81\,663 & -13\,380 & 1183 & -54 & 1 \\ 297\,297 & -251\,526 & 81\,679 & -13\,380 & 1183 & -54 & 1 \\ 296\,945 & -251\,494 & 81\,679 & -13\,380 & 1183 & -54 & 1 \\ 297\,009 & -251\,494 & 81\,679 & -13\,380 & 1183 & -54 & 1 \\ 298\,881 & -251\,846 & 81\,695 & -13\,380 & 1183 & -54 & 1 \\ 298\,529 & -251\,814 & 81\,695 & -13\,380 & 1183 & -54 & 1 \\ 298\,177 & -251\,782 & 81\,695 & -13\,380 & 1183 & -54 & 1 \\ 300\,465 & -252\,166 & 81\,711 & -13\,380 & 1183 & -54 & 1 \\ 282\,249 & -247\,694 & 81\,367 & -13\,372 & 1183 & -54 & 1 \\ 283\,833 & -248\,014 & 81\,383 & -13\,372 & 1183 & -54 & 1 \\ 283\,545 & -247\,982 & 81\,383 & -13\,372 & 1183 & -54 & 1 \\ 285\,417 & -248\,334 & 81\,399 & -13\,372 & 1183 & -54 & 1 \\ 285\,129 & -248\,302 & 81\,399 & -13\,372 & 1183 & -54 & 1 \\ 287\,001 & -248\,654 & 81\,415 & -13\,372 & 1183 & -54 & 1 \\ 286\,649 & -248\,622 & 81\,415 & -13\,372 & 1183 & -54 & 1 \\ 286\,713 & -248\,622 & 81\,415 & -13\,372 & 1183 & -54 & 1 \\ 288\,585 & -248\,974 & 81\,431 & -13\,372 & 1183 & -54 & 1 \end{pmatrix};$$

288 233	-248 942	81 431	-13 372	1183	-54	1
290 169	-249 294	81 447	-13 372	1183	-54	1
289 817	-249 262	81 447	-13 372	1183	-54	1
291 753	-249 614	81 463	-13 372	1183	-54	1
276 705	-245 782	81 151	-13 364	1183	-54	1
276 417	-245 750	81 151	-13 364	1183	-54	1
278 289	-246 102	81 167	-13 364	1183	-54	1
278 001	-246 070	81 167	-13 364	1183	-54	1
279 873	-246 422	81 183	-13 364	1183	-54	1
281 457	-246 742	81 199	-13 364	1183	-54	1
281 105	-246 710	81 199	-13 364	1183	-54	1
269 577	-243 550	80 919	-13 356	1183	-54	1
271 161	-243 870	80 935	-13 356	1183	-54	1
272 745	-244 190	80 951	-13 356	1183	-54	1
262 449	-241 318	80 687	-13 348	1183	-54	1

Dimensions[A[12]]

{132, 7}

g[12] = CoefficientList[D[last14[[12]], x] / mu[last14[[12]]] // Factor, x]

{16 062 785, -12 776 262, 4 046 815, -657 060, 57 967, -2646, 49}

last14[[12]]

$(-11 + x)^2 (-9 + x)^{11} (5 + x)^{32} (7160 - 3321 x + 551 x^2 - 39 x^3 + x^4)$

poly12warranted = list[12][[7]] * mu[last14[[12]]] // Factor

$(-11 + x)^2 (-9 + x)^{10} (5 + x)^{31} (-30 211 + 21 065 x - 5602 x^2 + 710 x^3 - 43 x^4 + x^5)$

last14[[13]]

$(-11 + x)^4 (-9 + x)^{10} (-7 + x) (5 + x)^{32} (76 - 19 x + x^2)$

list[13] = { $(-7 + x) (3543 - 2030 x + 408 x^2 - 34 x^3 + x^4)$, $-24 137 + 17 593 x - 4878 x^2 + 646 x^3 - 41 x^4 + x^5$,
 $(-7 + x) (3439 - 2022 x + 408 x^2 - 34 x^3 + x^4)$, $(59 - 16 x + x^2) (-411 + 187 x - 25 x^2 + x^3)$,
 $-24 217 + 17 609 x - 4878 x^2 + 646 x^3 - 41 x^4 + x^5$,
 $(-7 + x) (3455 - 2022 x + 408 x^2 - 34 x^3 + x^4)$, $-24 329 + 17 625 x - 4878 x^2 + 646 x^3 - 41 x^4 + x^5$,
 $(-13 + x) (-7 + x) (-267 + 135 x - 21 x^2 + x^3)$,
 $(-11 + x) (-7 + x) (-317 + 155 x - 23 x^2 + x^3)$, $(-9 + x)^2 (-289 + 151 x - 23 x^2 + x^3)$,
 $-23 377 + 17 433 x - 4870 x^2 + 646 x^3 - 41 x^4 + x^5$,
 $(-7 + x) (3335 - 2014 x + 408 x^2 - 34 x^3 + x^4)$,
 $(-9 + x) (2617 - 1648 x + 358 x^2 - 32 x^3 + x^4)$, $-23 521 + 17 449 x - 4870 x^2 + 646 x^3 - 41 x^4 + x^5$,
 $-23 489 + 17 449 x - 4870 x^2 + 646 x^3 - 41 x^4 + x^5$,
 $(-7 + x) (3351 - 2014 x + 408 x^2 - 34 x^3 + x^4)$, $-23 665 + 17 465 x - 4870 x^2 +$

$$\begin{aligned}
& 646x^3 - 41x^4 + x^5, -23633 + 17465x - 4870x^2 + 646x^3 - 41x^4 + x^5, \\
& -23601 + 17465x - 4870x^2 + 646x^3 - 41x^4 + x^5, (-13+x)(-7+x)^2(37-14x+x^2), \\
& (-13+x)(59-16x+x^2)(31-12x+x^2), -23745 + 17481x - 4870x^2 + 646x^3 - 41x^4 + x^5, \\
& -23713 + 17481x - 4870x^2 + 646x^3 - 41x^4 + x^5, \\
& (-7+x)(3383 - 2014x + 408x^2 - 34x^3 + x^4), \\
& -23857 + 17497x - 4870x^2 + 646x^3 - 41x^4 + x^5, \\
& -23825 + 17497x - 4870x^2 + 646x^3 - 41x^4 + x^5, (-11+x)(-7+x) \\
& (-309 + 155x - 23x^2 + x^3), (-9+x)(-7+x)(-359 + 183x - 25x^2 + x^3), \\
& (-9+x)^2(-281 + 151x - 23x^2 + x^3), (-7+x)(3247 - 2006x + 408x^2 - 34x^3 + x^4), \\
& (-9+x)(2545 - 1640x + 358x^2 - 32x^3 + x^4), -22873 + 17305x - 4862x^2 + \\
& 646x^3 - 41x^4 + x^5, (-13+x)(-7+x)(-251 + 135x - 21x^2 + x^3), \\
& (-13+x)(-9+x)(-197 + 111x - 19x^2 + x^3), -23017 + 17321x - 4862x^2 + \\
& 646x^3 - 41x^4 + x^5, -22985 + 17321x - 4862x^2 + 646x^3 - 41x^4 + x^5, (-7+x) \\
& (3279 - 2006x + 408x^2 - 34x^3 + x^4), (-9+x)(2577 - 1640x + 358x^2 - 32x^3 + x^4), \\
& -23161 + 17337x - 4862x^2 + 646x^3 - 41x^4 + x^5, -23129 + 17337x - 4862x^2 + \\
& 646x^3 - 41x^4 + x^5, -23097 + 17337x - 4862x^2 + 646x^3 - 41x^4 + x^5, \\
& (-7+x)(3295 - 2006x + 408x^2 - 34x^3 + x^4), (59-16x+x^2)(-395 + 187x - 25x^2 + x^3), \\
& (37-14x+x^2)(-629 + 231x - 27x^2 + x^3), -23241 + 17353x - 4862x^2 + \\
& 646x^3 - 41x^4 + x^5, -23209 + 17353x - 4862x^2 + 646x^3 - 41x^4 + x^5, \\
& (-11+x)(-7+x)^2(43-16x+x^2), -23385 + 17369x - 4862x^2 + 646x^3 - 41x^4 + x^5, \\
& (-11+x)(2123 - 1386x + 316x^2 - 30x^3 + x^4), \\
& (-13+x)(-9+x)^2(-7+x)(-3+x), (-9+x)(2473 - 1632x + 358x^2 - 32x^3 + x^4), \\
& (-7+x)(3175 - 1998x + 408x^2 - 34x^3 + x^4), \\
& (-9+x)(2489 - 1632x + 358x^2 - 32x^3 + x^4), -22369 + 17177x - \\
& 4854x^2 + 646x^3 - 41x^4 + x^5, (-7+x)(3191 - 1998x + 408x^2 - 34x^3 + x^4), \\
& (-9+x)(2505 - 1632x + 358x^2 - 32x^3 + x^4), -22513 + 17193x - 4854x^2 + \\
& 646x^3 - 41x^4 + x^5, -22481 + 17193x - 4854x^2 + 646x^3 - 41x^4 + x^5, (-7+x) \\
& (3207 - 1998x + 408x^2 - 34x^3 + x^4), (-9+x)(2521 - 1632x + 358x^2 - 32x^3 + x^4), \\
& -22657 + 17209x - 4854x^2 + 646x^3 - 41x^4 + x^5, -22625 + 17209x - 4854x^2 + \\
& 646x^3 - 41x^4 + x^5, -22593 + 17209x - 4854x^2 + 646x^3 - 41x^4 + x^5, \\
& (-11+x)(-7+x)(-293 + 155x - 23x^2 + x^3), (-9+x)(43-16x+x^2)(59-16x+x^2), \\
& -22801 + 17225x - 4854x^2 + 646x^3 - 41x^4 + x^5, \\
& -22769 + 17225x - 4854x^2 + 646x^3 - 41x^4 + x^5, (-11+x) \\
& (2067 - 1378x + 316x^2 - 30x^3 + x^4), (-11+x)(2083 - 1378x + 316x^2 - 30x^3 + x^4), \\
& (-9+x)(-7+x)(-343 + 183x - 25x^2 + x^3), (-9+x)(2417 - 1624x + 358x^2 - 32x^3 + x^4), \\
& (-7+x)(3103 - 1990x + 408x^2 - 34x^3 + x^4), (-9+x)(-3+x)(-811 + 271x - 29x^2 + x^3), \\
& -21865 + 17049x - 4846x^2 + 646x^3 - 41x^4 + x^5, \\
& (-7+x)(3119 - 1990x + 408x^2 - 34x^3 + x^4), \\
& (-9+x)(2449 - 1624x + 358x^2 - 32x^3 + x^4), -22009 + 17065x - 4846x^2 + \\
& 646x^3 - 41x^4 + x^5, -21977 + 17065x - 4846x^2 + 646x^3 - 41x^4 + x^5, \\
& (-11+x)(-7+x)(-3+x)(95-20x+x^2), (-9+x)(2465 - 1624x + 358x^2 - 32x^3 + x^4), \\
& -22153 + 17081x - 4846x^2 + 646x^3 - 41x^4 + x^5, \\
& (-11+x)(2011 - 1370x + 316x^2 - 30x^3 + x^4), (-9+x) \\
& (2481 - 1624x + 358x^2 - 32x^3 + x^4), (-11+x)(2027 - 1370x + 316x^2 - 30x^3 + x^4),
\end{aligned}$$

$(-9 + x)(-7 + x)(-335 + 183x - 25x^2 + x^3)$, $(-9 + x)(2361 - 1616x + 358x^2 - 32x^3 + x^4)$,
 $(-7 + x)(3031 - 1982x + 408x^2 - 34x^3 + x^4)$,
 $(-9 + x)(2377 - 1616x + 358x^2 - 32x^3 + x^4)$,
 $-21361 + 16921x - 4838x^2 + 646x^3 - 41x^4 + x^5$, $(-11 + x)(-7 + x)$
 $(-277 + 155x - 23x^2 + x^3)$, $(-9 + x)(2393 - 1616x + 358x^2 - 32x^3 + x^4)$,
 $(-11 + x)(1955 - 1362x + 316x^2 - 30x^3 + x^4)$, $(-11 + x)(-9 + x)(-3 + x)(73 - 18x + x^2)$,
 $(-9 + x)(-7 + x)(-327 + 183x - 25x^2 + x^3)$, $(-9 + x)(2305 - 1608x + 358x^2 - 32x^3 + x^4)$,
 $(-11 + x)(-7 + x)(-269 + 155x - 23x^2 + x^3)$, $(-11 + x)(-9 + x)$
 $(-211 + 127x - 21x^2 + x^3)$, $(-11 + x)(-9 + x)(-7 + x)(29 - 14x + x^2)\};$

-24 801	17 753	-4886	646	-41	1
-24 137	17 593	-4878	646	-41	1
-24 105	17 593	-4878	646	-41	1
-24 073	17 593	-4878	646	-41	1
-24 249	17 609	-4878	646	-41	1
-24 217	17 609	-4878	646	-41	1
-24 185	17 609	-4878	646	-41	1
-24 329	17 625	-4878	646	-41	1
-24 297	17 625	-4878	646	-41	1
-24 409	17 641	-4878	646	-41	1
-23 409	17 433	-4870	646	-41	1
-23 377	17 433	-4870	646	-41	1
-23 345	17 433	-4870	646	-41	1
-23 553	17 449	-4870	646	-41	1
-23 521	17 449	-4870	646	-41	1
-23 489	17 449	-4870	646	-41	1
-23 457	17 449	-4870	646	-41	1
-23 665	17 465	-4870	646	-41	1
-23 633	17 465	-4870	646	-41	1
-23 601	17 465	-4870	646	-41	1
-23 569	17 465	-4870	646	-41	1
-23 777	17 481	-4870	646	-41	1
-23 745	17 481	-4870	646	-41	1
-23 713	17 481	-4870	646	-41	1
-23 681	17 481	-4870	646	-41	1
-23 857	17 497	-4870	646	-41	1
-23 825	17 497	-4870	646	-41	1
-23 793	17 497	-4870	646	-41	1
-22 617	17 273	-4862	646	-41	1
-22 761	17 289	-4862	646	-41	1
-22 729	17 289	-4862	646	-41	1
-22 905	17 305	-4862	646	-41	1
-22 873	17 305	-4862	646	-41	1
-22 841	17 305	-4862	646	-41	1
-23 049	17 321	-4862	646	-41	1
-23 017	17 321	-4862	646	-41	1
-22 985	17 321	-4862	646	-41	1
-22 953	17 321	-4862	646	-41	1
-23 193	17 337	-4862	646	-41	1
-23 161	17 337	-4862	646	-41	1
-23 129	17 337	-4862	646	-41	1
-23 097	17 337	-4862	646	-41	1
-23 065	17 337	-4862	646	-41	1

$$A[13] = \begin{pmatrix} -23\,305 & 17\,353 & -4862 & 646 & -41 & 1 \\ -23\,273 & 17\,353 & -4862 & 646 & -41 & 1 \\ -23\,241 & 17\,353 & -4862 & 646 & -41 & 1 \\ -23\,209 & 17\,353 & -4862 & 646 & -41 & 1 \\ -23\,177 & 17\,353 & -4862 & 646 & -41 & 1 \\ -23\,385 & 17\,369 & -4862 & 646 & -41 & 1 \\ -23\,353 & 17\,369 & -4862 & 646 & -41 & 1 \\ -22\,113 & 17\,145 & -4854 & 646 & -41 & 1 \\ -22\,257 & 17\,161 & -4854 & 646 & -41 & 1 \\ -22\,225 & 17\,161 & -4854 & 646 & -41 & 1 \\ -22\,401 & 17\,177 & -4854 & 646 & -41 & 1 \\ -22\,369 & 17\,177 & -4854 & 646 & -41 & 1 \\ -22\,337 & 17\,177 & -4854 & 646 & -41 & 1 \\ -22\,545 & 17\,193 & -4854 & 646 & -41 & 1 \\ -22\,513 & 17\,193 & -4854 & 646 & -41 & 1 \\ -22\,481 & 17\,193 & -4854 & 646 & -41 & 1 \\ -22\,449 & 17\,193 & -4854 & 646 & -41 & 1 \\ -22\,689 & 17\,209 & -4854 & 646 & -41 & 1 \\ -22\,657 & 17\,209 & -4854 & 646 & -41 & 1 \\ -22\,625 & 17\,209 & -4854 & 646 & -41 & 1 \\ -22\,593 & 17\,209 & -4854 & 646 & -41 & 1 \\ -22\,561 & 17\,209 & -4854 & 646 & -41 & 1 \\ -22\,833 & 17\,225 & -4854 & 646 & -41 & 1 \\ -22\,801 & 17\,225 & -4854 & 646 & -41 & 1 \\ -22\,769 & 17\,225 & -4854 & 646 & -41 & 1 \\ -22\,737 & 17\,225 & -4854 & 646 & -41 & 1 \\ -22\,913 & 17\,241 & -4854 & 646 & -41 & 1 \\ -21\,609 & 17\,017 & -4846 & 646 & -41 & 1 \\ -21\,753 & 17\,033 & -4846 & 646 & -41 & 1 \\ -21\,721 & 17\,033 & -4846 & 646 & -41 & 1 \\ -21\,897 & 17\,049 & -4846 & 646 & -41 & 1 \\ -21\,865 & 17\,049 & -4846 & 646 & -41 & 1 \\ -21\,833 & 17\,049 & -4846 & 646 & -41 & 1 \\ -22\,041 & 17\,065 & -4846 & 646 & -41 & 1 \\ -22\,009 & 17\,065 & -4846 & 646 & -41 & 1 \\ -21\,977 & 17\,065 & -4846 & 646 & -41 & 1 \\ -21\,945 & 17\,065 & -4846 & 646 & -41 & 1 \\ -22\,185 & 17\,081 & -4846 & 646 & -41 & 1 \\ -22\,153 & 17\,081 & -4846 & 646 & -41 & 1 \\ -22\,121 & 17\,081 & -4846 & 646 & -41 & 1 \\ -22\,329 & 17\,097 & -4846 & 646 & -41 & 1 \\ -22\,297 & 17\,097 & -4846 & 646 & -41 & 1 \\ -21\,105 & 16\,889 & -4838 & 646 & -41 & 1 \\ -21\,249 & 16\,905 & -4838 & 646 & -41 & 1 \\ -21\,217 & 16\,905 & -4838 & 646 & -41 & 1 \\ -21\,393 & 16\,921 & -4838 & 646 & -41 & 1 \\ -21\,361 & 16\,921 & -4838 & 646 & -41 & 1 \\ -21\,329 & 16\,921 & -4838 & 646 & -41 & 1 \\ -21\,537 & 16\,937 & -4838 & 646 & -41 & 1 \\ -21\,505 & 16\,937 & -4838 & 646 & -41 & 1 \\ -21\,681 & 16\,953 & -4838 & 646 & -41 & 1 \\ -20\,601 & 16\,761 & -4830 & 646 & -41 & 1 \\ -20\,745 & 16\,777 & -4830 & 646 & -41 & 1 \\ -20\,713 & 16\,777 & -4830 & 646 & -41 & 1 \\ -20\,889 & 16\,793 & -4830 & 646 & -41 & 1 \end{pmatrix};$$

$$\begin{pmatrix} -20097 & 16633 & -4822 & 646 & -41 & 1 \end{pmatrix}$$

Dimensions[A[13]]

{99, 6}

g[13] = CoefficientList[D[last14[[13]], x] / mu[last14[[13]]] // Factor, x]

{-1193561, 864505, -239102, 31654, -2009, 49}

$$\begin{pmatrix} \frac{899}{1372} & \frac{323+\sqrt{57}}{39102} & 0 & \frac{12}{49} & \frac{1}{12} & \frac{323-\sqrt{57}}{39102} \\ \frac{671}{1029} & \frac{1273+125\sqrt{57}}{156408} & \frac{1}{12} & \frac{4}{49} & \frac{1}{6} & \frac{1273-125\sqrt{57}}{156408} \\ \frac{10735}{16464} & \frac{5947+543\sqrt{57}}{312816} & \frac{1}{24} & \frac{6}{49} & \frac{7}{48} & \frac{5947-543\sqrt{57}}{312816} \\ \frac{1789}{2744} & \frac{123+11\sqrt{57}}{4116} & 0 & \frac{8}{49} & \frac{1}{8} & \frac{123-11\sqrt{57}}{4116} \\ \frac{5371}{8232} & \frac{437-39\sqrt{57}}{52136} & \frac{1}{12} & \frac{6}{49} & \frac{1}{8} & \frac{437+39\sqrt{57}}{52136} \\ \frac{10741}{16464} & \frac{6023+59\sqrt{57}}{312816} & \frac{1}{24} & \frac{8}{49} & \frac{5}{48} & \frac{6023-59\sqrt{57}}{312816} \\ \frac{895}{1372} & \frac{589+22\sqrt{57}}{19551} & 0 & \frac{10}{49} & \frac{1}{12} & \frac{589-22\sqrt{57}}{19551} \\ \frac{10747}{16464} & \frac{6099-425\sqrt{57}}{312816} & \frac{1}{24} & \frac{10}{49} & \frac{1}{16} & \frac{6099+425\sqrt{57}}{312816} \\ \frac{1791}{2744} & \frac{2375-33\sqrt{57}}{78204} & 0 & \frac{12}{49} & \frac{1}{24} & \frac{2375+33\sqrt{57}}{78204} \\ \frac{32}{49} & \frac{3}{98} - \frac{11}{98\sqrt{57}} & 0 & \frac{2}{7} & 0 & \frac{3}{98} + \frac{11}{98\sqrt{57}} \\ \frac{109}{168} & \frac{95+11\sqrt{57}}{3192} & \frac{1}{12} & 0 & \frac{5}{24} & \frac{95-11\sqrt{57}}{3192} \\ \frac{10681}{16464} & \frac{4237+457\sqrt{57}}{104272} & \frac{1}{24} & \frac{2}{49} & \frac{3}{16} & \frac{4237-457\sqrt{57}}{104272} \\ \frac{445}{686} & \frac{1007+104\sqrt{57}}{19551} & 0 & \frac{4}{49} & \frac{1}{6} & \frac{1007-104\sqrt{57}}{19551} \\ \frac{509}{784} & \frac{855+43\sqrt{57}}{44688} & \frac{1}{8} & 0 & \frac{3}{16} & \frac{855-43\sqrt{57}}{44688} \\ \frac{668}{1029} & \frac{4693+297\sqrt{57}}{156408} & \frac{1}{12} & \frac{2}{49} & \frac{1}{6} & \frac{4693-297\sqrt{57}}{156408} \\ \frac{10687}{16464} & \frac{12787+887\sqrt{57}}{312816} & \frac{1}{24} & \frac{4}{49} & \frac{7}{48} & \frac{12787-887\sqrt{57}}{312816} \\ \frac{1781}{2744} & \frac{4047+295\sqrt{57}}{78204} & 0 & \frac{6}{49} & \frac{1}{8} & \frac{4047-295\sqrt{57}}{78204} \\ \frac{3565}{5488} & \frac{6061-183\sqrt{57}}{312816} & \frac{1}{8} & \frac{2}{49} & \frac{7}{48} & \frac{6061+183\sqrt{57}}{312816} \\ \frac{5347}{8232} & \frac{4731+55\sqrt{57}}{156408} & \frac{1}{12} & \frac{4}{49} & \frac{1}{8} & \frac{4731-55\sqrt{57}}{156408} \\ \frac{10693}{16464} & \frac{12863+403\sqrt{57}}{312816} & \frac{1}{24} & \frac{6}{49} & \frac{5}{48} & \frac{12863-403\sqrt{57}}{312816} \\ \frac{891}{1372} & \frac{2033+87\sqrt{57}}{39102} & 0 & \frac{8}{49} & \frac{1}{12} & \frac{2033-87\sqrt{57}}{39102} \\ \frac{3567}{5488} & \frac{6137-667\sqrt{57}}{312816} & \frac{1}{8} & \frac{4}{49} & \frac{5}{48} & \frac{6137+667\sqrt{57}}{312816} \\ \frac{2675}{4116} & \frac{4769-187\sqrt{57}}{156408} & \frac{1}{12} & \frac{6}{49} & \frac{1}{12} & \frac{4769+187\sqrt{57}}{156408} \\ \frac{10699}{16464} & \frac{4313-27\sqrt{57}}{104272} & \frac{1}{24} & \frac{8}{49} & \frac{1}{16} & \frac{4313+27\sqrt{57}}{104272} \\ \frac{1783}{2744} & \frac{4085+53\sqrt{57}}{78204} & 0 & \frac{10}{49} & \frac{1}{24} & \frac{4085-53\sqrt{57}}{78204} \\ \frac{5353}{8232} & -\frac{11(-437+39\sqrt{57})}{156408} & \frac{1}{12} & \frac{8}{49} & \frac{1}{24} & \frac{11(437+39\sqrt{57})}{156408} \\ \frac{10705}{16464} & -\frac{5(-2603+113\sqrt{57})}{312816} & \frac{1}{24} & \frac{10}{49} & \frac{1}{48} & \frac{5(2603+113\sqrt{57})}{312816} \\ \frac{223}{343} & \frac{18}{343} - \frac{17}{343\sqrt{57}} & 0 & \frac{12}{49} & 0 & \frac{18}{343} + \frac{17}{343\sqrt{57}} \\ \frac{253}{392} & \frac{817+89\sqrt{57}}{11172} & 0 & 0 & \frac{5}{24} & \frac{817-89\sqrt{57}}{11172} \\ \frac{31}{31} & \frac{1}{57+5\sqrt{57}} & \frac{1}{31} & 0 & \frac{3}{31} & \frac{1}{57-5\sqrt{57}} \end{pmatrix}$$

anglesq[13] =

$$\begin{array}{rcl}
48 & 912 \sqrt{} & / \quad 24 \quad 16 \quad 912 \sqrt{} / \\
443 & \frac{2869+251 \sqrt{57}}{39102} & 0 \quad \frac{2}{49} \quad \frac{1}{6} \quad \frac{2869-251 \sqrt{57}}{39102} \\
686 & & \\
95 & \frac{1159+67 \sqrt{57}}{22344} & \frac{1}{12} \quad 0 \quad \frac{1}{6} \quad \frac{1159-67 \sqrt{57}}{22344} \\
147 & & \\
10639 & \frac{19627+1231 \sqrt{57}}{312816} & \frac{1}{24} \quad \frac{2}{49} \quad \frac{7}{48} \quad \frac{19627-1231 \sqrt{57}}{312816} \\
16464 & & \\
1773 & \frac{1919+127 \sqrt{57}}{26068} & 0 \quad \frac{4}{49} \quad \frac{1}{8} \quad \frac{1919-127 \sqrt{57}}{26068} \\
2744 & & \\
507 & \frac{1843+23 \sqrt{57}}{44688} & \frac{1}{8} \quad 0 \quad \frac{7}{48} \quad \frac{1843-23 \sqrt{57}}{44688} \\
784 & & \\
5323 & \frac{8151+227 \sqrt{57}}{156408} & \frac{1}{12} \quad \frac{2}{49} \quad \frac{1}{8} \quad \frac{8151-227 \sqrt{57}}{156408} \\
8232 & & \\
10645 & \frac{19703+747 \sqrt{57}}{312816} & \frac{1}{24} \quad \frac{4}{49} \quad \frac{5}{48} \quad \frac{19703-747 \sqrt{57}}{312816} \\
16464 & & \\
887 & \frac{1444+65 \sqrt{57}}{19551} & 0 \quad \frac{6}{49} \quad \frac{1}{12} \quad \frac{1444-65 \sqrt{57}}{19551} \\
1372 & & \\
761 & \frac{3}{98} - \frac{11}{98 \sqrt{57}} & \frac{1}{6} \quad 0 \quad \frac{1}{8} \quad \frac{3}{98} + \frac{11}{98 \sqrt{57}} \\
1176 & & \\
3551 & \frac{683-17 \sqrt{57}}{16464} & \frac{1}{8} \quad \frac{2}{49} \quad \frac{5}{48} \quad \frac{683+17 \sqrt{57}}{16464} \\
5488 & & \\
2663 & \frac{8189-15 \sqrt{57}}{156408} & \frac{1}{12} \quad \frac{4}{49} \quad \frac{1}{12} \quad \frac{8189+15 \sqrt{57}}{156408} \\
4116 & & \\
10651 & \frac{19779+263 \sqrt{57}}{312816} & \frac{1}{24} \quad \frac{6}{49} \quad \frac{1}{16} \quad \frac{19779-263 \sqrt{57}}{312816} \\
16464 & & \\
1775 & \frac{5795+139 \sqrt{57}}{78204} & 0 \quad \frac{8}{49} \quad \frac{1}{24} \quad \frac{5795-139 \sqrt{57}}{78204} \\
2744 & & \\
2665 & \frac{2413-275 \sqrt{57}}{78204} & \frac{1}{6} \quad \frac{2}{49} \quad \frac{1}{12} \quad \frac{2413+275 \sqrt{57}}{78204} \\
4116 & & \\
3553 & \frac{4351-269 \sqrt{57}}{104272} & \frac{1}{8} \quad \frac{4}{49} \quad \frac{1}{16} \quad \frac{4351+269 \sqrt{57}}{104272} \\
5488 & & \\
5329 & \frac{8227-257 \sqrt{57}}{156408} & \frac{1}{12} \quad \frac{6}{49} \quad \frac{1}{24} \quad \frac{8227+257 \sqrt{57}}{156408} \\
8232 & & \\
10657 & \frac{19855-221 \sqrt{57}}{312816} & \frac{1}{24} \quad \frac{8}{49} \quad \frac{1}{48} \quad \frac{19855+221 \sqrt{57}}{312816} \\
16464 & & \\
222 & \frac{3(323+\sqrt{57})}{13034} & 0 \quad \frac{10}{49} \quad 0 \quad -\frac{3(-323+\sqrt{57})}{13034} \\
343 & & \\
3555 & \frac{13129-1291 \sqrt{57}}{312816} & \frac{1}{8} \quad \frac{6}{49} \quad \frac{1}{48} \quad \frac{13129+1291 \sqrt{57}}{312816} \\
5488 & & \\
1333 & \frac{8265-499 \sqrt{57}}{156408} & \frac{1}{12} \quad \frac{8}{49} \quad 0 \quad \frac{8265+499 \sqrt{57}}{156408} \\
2058 & & \\
\frac{9}{14} & \frac{1}{399} (38+3 \sqrt{57}) & 0 \quad 0 \quad \frac{1}{6} \quad \frac{1}{399} (38-3 \sqrt{57}) \\
1513 & \frac{3781+225 \sqrt{57}}{44688} & \frac{1}{24} \quad 0 \quad \frac{7}{48} \quad \frac{3781-225 \sqrt{57}}{44688} \\
2352 & & \\
1765 & \frac{7467+467 \sqrt{57}}{78204} & 0 \quad \frac{2}{49} \quad \frac{1}{8} \quad \frac{7467-467 \sqrt{57}}{78204} \\
2744 & & \\
757 & \frac{1}{392} (29+\sqrt{57}) & \frac{1}{12} \quad 0 \quad \frac{1}{8} \quad \frac{1}{392} (29-\sqrt{57}) \\
1176 & & \\
10597 & \frac{26543+1091 \sqrt{57}}{312816} & \frac{1}{24} \quad \frac{2}{49} \quad \frac{5}{48} \quad \frac{26543-1091 \sqrt{57}}{312816} \\
16464 & & \\
883 & \frac{3743+173 \sqrt{57}}{39102} & 0 \quad \frac{4}{49} \quad \frac{1}{12} \quad \frac{3743-173 \sqrt{57}}{39102} \\
1372 & & \\
505 & \frac{2831+3 \sqrt{57}}{44688} & \frac{1}{8} \quad 0 \quad \frac{5}{48} \quad \frac{2831-3 \sqrt{57}}{44688} \\
784 & & \\
2651 & \frac{11609+157 \sqrt{57}}{156408} & \frac{1}{12} \quad \frac{2}{49} \quad \frac{1}{12} \quad \frac{11609-157 \sqrt{57}}{156408} \\
4116 & & \\
10603 & \frac{26619+607 \sqrt{57}}{312816} & \frac{1}{24} \quad \frac{4}{49} \quad \frac{1}{16} \quad \frac{26619-607 \sqrt{57}}{312816} \\
16464 & & \\
1767 & \frac{5(1501+45 \sqrt{57})}{78204} & 0 \quad \frac{6}{49} \quad \frac{1}{24} \quad -\frac{5(-1501+45 \sqrt{57})}{78204} \\
2744 & & \\
379 & \frac{589-27 \sqrt{57}}{11172} & \frac{1}{6} \quad 0 \quad \frac{1}{12} \quad \frac{589+27 \sqrt{57}}{11172} \\
588 & & \\
3537 & \frac{19893-463 \sqrt{57}}{312816} & \frac{1}{8} \quad \frac{2}{49} \quad \frac{1}{16} \quad \frac{19893+463 \sqrt{57}}{312816} \\
5488 & & \\
5305 & \frac{11647-85 \sqrt{57}}{156408} & \frac{1}{12} \quad \frac{4}{49} \quad \frac{1}{24} \quad \frac{11647+85 \sqrt{57}}{156408} \\
8232 & & \\
10609 & \frac{26695+123 \sqrt{57}}{312816} & \frac{1}{24} \quad \frac{6}{49} \quad \frac{1}{48} \quad \frac{26695-123 \sqrt{57}}{312816} \\
16464 & & \\
221 & \frac{33}{242} + \frac{26}{242 \sqrt{57}} & 0 \quad \frac{8}{49} \quad 0 \quad \frac{33}{242} - \frac{26}{242 \sqrt{57}}
\end{array}$$

343	343	343 $\sqrt{57}$	49	343	343 $\sqrt{57}$
$\frac{1517}{2352}$	$\frac{627-73 \sqrt{57}}{14896}$	$\frac{5}{24}$	$\frac{1}{16}$	$\frac{627+73 \sqrt{57}}{14896}$	
$\frac{5309}{8232}$	$\frac{2071-155 \sqrt{57}}{39102}$	$\frac{1}{6}$	$\frac{2}{49}$	$\frac{2071+155 \sqrt{57}}{39102}$	
$\frac{3539}{5488}$	$\frac{19969-947 \sqrt{57}}{312816}$	$\frac{1}{8}$	$\frac{4}{49}$	$\frac{19969+947 \sqrt{57}}{312816}$	
$\frac{1327}{2058}$	$\frac{3895-109 \sqrt{57}}{52136}$	$\frac{1}{12}$	$\frac{6}{49}$	$\frac{3895+109 \sqrt{57}}{52136}$	
$\frac{664}{1029}$	$\frac{4161-431 \sqrt{57}}{78204}$	$\frac{1}{6}$	$\frac{4}{49}$	$\frac{4161+431 \sqrt{57}}{78204}$	
$\frac{251}{392}$	$\frac{23}{196} + \frac{79}{196 \sqrt{57}}$	0	$\frac{1}{8}$	$\frac{23}{196} - \frac{79}{196 \sqrt{57}}$	
$\frac{1507}{2352}$	$\frac{4769+205 \sqrt{57}}{44688}$	$\frac{1}{24}$	$\frac{5}{48}$	$\frac{4769-205 \sqrt{57}}{44688}$	
$\frac{879}{1372}$	$\frac{2299+108 \sqrt{57}}{19551}$	0	$\frac{2}{49}$	$\frac{2299-108 \sqrt{57}}{19551}$	
$\frac{377}{588}$	$\frac{2147+47 \sqrt{57}}{22344}$	$\frac{1}{12}$	$\frac{0}{12}$	$\frac{2147-47 \sqrt{57}}{22344}$	
$\frac{10555}{16464}$	$\frac{11153+317 \sqrt{57}}{104272}$	$\frac{1}{24}$	$\frac{2}{49}$	$\frac{11153-317 \sqrt{57}}{104272}$	
$\frac{1759}{2744}$	$\frac{9215+311 \sqrt{57}}{78204}$	0	$\frac{4}{49}$	$\frac{9215-311 \sqrt{57}}{78204}$	
$\frac{503}{784}$	$\frac{67}{784} - \frac{17}{784 \sqrt{57}}$	$\frac{1}{8}$	$\frac{0}{16}$	$\frac{67}{784} + \frac{17}{784 \sqrt{57}}$	
$\frac{5281}{8232}$	$\frac{15067+87 \sqrt{57}}{156408}$	$\frac{1}{12}$	$\frac{2}{49}$	$\frac{15067-87 \sqrt{57}}{156408}$	
$\frac{10561}{16464}$	$\frac{33535+467 \sqrt{57}}{312816}$	$\frac{1}{24}$	$\frac{4}{49}$	$\frac{33535-467 \sqrt{57}}{312816}$	
$\frac{220}{343}$	$\frac{243+5 \sqrt{57}}{2058}$	0	$\frac{6}{49}$	$\frac{243-5 \sqrt{57}}{2058}$	
$\frac{755}{1176}$	$\frac{209-8 \sqrt{57}}{2793}$	$\frac{1}{6}$	$\frac{0}{24}$	$\frac{209+8 \sqrt{57}}{2793}$	
$\frac{3523}{5488}$	$\frac{26809-603 \sqrt{57}}{312816}$	$\frac{1}{8}$	$\frac{2}{49}$	$\frac{26809+603 \sqrt{57}}{312816}$	
$\frac{1321}{2058}$	$5(-3021+31 \sqrt{57})$	$\frac{1}{12}$	$\frac{4}{49}$	$5(3021+31 \sqrt{57})$	
$\frac{1511}{2352}$	$\frac{2869-239 \sqrt{57}}{44688}$	$\frac{5}{24}$	$\frac{0}{48}$	$\frac{2869+239 \sqrt{57}}{44688}$	
$\frac{661}{1029}$	$\frac{1957-115 \sqrt{57}}{26068}$	$\frac{1}{6}$	$\frac{2}{49}$	$\frac{1957+115 \sqrt{57}}{26068}$	
$\frac{125}{196}$	$\frac{779+37 \sqrt{57}}{5586}$	0	$\frac{0}{12}$	$\frac{779-37 \sqrt{57}}{5586}$	
$\frac{1501}{2352}$	$\frac{5757+185 \sqrt{57}}{44688}$	$\frac{1}{24}$	$\frac{0}{16}$	$\frac{5757-185 \sqrt{57}}{44688}$	
$\frac{1751}{2744}$	$\frac{10925+397 \sqrt{57}}{78204}$	0	$\frac{2}{49}$	$\frac{10925-397 \sqrt{57}}{78204}$	
$\frac{751}{1176}$	$\frac{2641+37 \sqrt{57}}{22344}$	$\frac{1}{12}$	$\frac{0}{24}$	$\frac{2641-37 \sqrt{57}}{22344}$	
$\frac{10513}{16464}$	$\frac{40375+811 \sqrt{57}}{312816}$	$\frac{1}{24}$	$\frac{2}{49}$	$\frac{40375-811 \sqrt{57}}{312816}$	
$\frac{219}{343}$	$\frac{912+23 \sqrt{57}}{6517}$	0	$\frac{4}{49}$	$\frac{912-23 \sqrt{57}}{6517}$	
$\frac{501}{784}$	$\frac{4807-37 \sqrt{57}}{44688}$	$\frac{1}{8}$	$\frac{0}{48}$	$\frac{4807+37 \sqrt{57}}{44688}$	
$\frac{1315}{2058}$	$\frac{18525+17 \sqrt{57}}{156408}$	$\frac{1}{12}$	$\frac{2}{49}$	$\frac{18525-17 \sqrt{57}}{156408}$	
$\frac{94}{147}$	$\frac{19}{196} - \frac{37}{196 \sqrt{57}}$	$\frac{1}{6}$	$\frac{0}{0}$	$\frac{19}{196} + \frac{37}{196 \sqrt{57}}$	
$\frac{249}{392}$	$\frac{1805+69 \sqrt{57}}{11172}$	0	$\frac{0}{24}$	$\frac{1805-69 \sqrt{57}}{11172}$	
$\frac{1495}{2352}$	$5(1349+33 \sqrt{57})$	$\frac{1}{24}$	$\frac{0}{48}$	$5(-1349+33 \sqrt{57})$	
$\frac{218}{343}$	$\frac{6327+181 \sqrt{57}}{39102}$	0	$\frac{2}{49}$	$\frac{6327-181 \sqrt{57}}{39102}$	
$\frac{187}{294}$	$\frac{1045+9 \sqrt{57}}{7448}$	$\frac{1}{12}$	$\frac{0}{0}$	$\frac{1045-9 \sqrt{57}}{7448}$	
$\frac{31}{49}$	$\frac{9}{49} + \frac{16}{49 \sqrt{57}}$	0	$\frac{0}{0}$	$\frac{9}{49} - \frac{16}{49 \sqrt{57}}$	

last14[[13]]

$$(-11+x)^4 (-9+x)^{10} (-7+x) (5+x)^{32} (76-19x+x^2)$$

poly13warranted = list[13][[1]] * mu[last14[[13]]] // Factor

$$(-11+x)^3 (-9+x)^9 (-7+x) (5+x)^{31} (3543-2030x+408x^2-34x^3+x^4)$$

list13refined = list[13][[1, 5, 7, 11, 48]] * mu[last14[[13]]] // Factor

$$\begin{aligned} &\{ (-11+x)^3 (-9+x)^9 (-7+x) (5+x)^{31} (3543-2030x+408x^2-34x^3+x^4), \\ &\quad (-11+x)^3 (-9+x)^9 (5+x)^{31} (59-16x+x^2) (-411+187x-25x^2+x^3), \\ &\quad (-11+x)^3 (-9+x)^9 (-7+x) (5+x)^{31} (3455-2022x+408x^2-34x^3+x^4), \\ &\quad (-11+x)^3 (-9+x)^{11} (5+x)^{31} (-289+151x-23x^2+x^3), \\ &\quad (-11+x)^4 (-9+x)^9 (-7+x)^2 (5+x)^{31} (43-16x+x^2) \} \end{aligned}$$

Array[n, 5] /. Solve[n[1] ≥ 0 && n[2] ≥ 0 && n[3] ≥ 0 && n[4] ≥ 0 && n[5] ≥ 0 &&

Array[n, 5].CoefficientList[list[13][[1, 5, 7, 11, 48]], x] == g[13],

Array[n, 5], Integers]

{{24, 12, 6, 0, 7}, {27, 11, 2, 1, 8}}

combinations[(-11+x)⁴ (-9+x)¹⁰ (-7+x) (5+x)³² (76-19x+x²),
(x+5) (x-9) (x-11), list[13][[1]], list[13][[5]],
list[13], anglesq[13]] // FullSimplify

$$\left\{ 7\sqrt{\frac{3}{19}}, -1, 7\sqrt{\frac{3}{19}}, -1 \right\}$$

combinations[(-11+x)⁴ (-9+x)¹⁰ (-7+x) (5+x)³² (76-19x+x²),
(x+5) (x-9) (x-11), list[13][[1]], list[13][[7]],
list[13], anglesq[13]] // FullSimplify

$$\left\{ \frac{43}{\sqrt{57}}, 1, \frac{43}{\sqrt{57}}, 1 \right\}$$

combinations[(-11+x)⁴ (-9+x)¹⁰ (-7+x) (5+x)³² (76-19x+x²),
(x+5) (x-9) (x-11), list[13][[1]], list[13][[11]],
list[13], anglesq[13]] // FullSimplify

$$\left\{ 5, \frac{23}{\sqrt{57}}, 5, \frac{23}{\sqrt{57}} \right\}$$

combinations[(-11+x)⁴ (-9+x)¹⁰ (-7+x) (5+x)³² (76-19x+x²),
(x+5) (x-9) (x-11), list[13][[1]], list[13][[48]],
list[13], anglesq[13]] // FullSimplify

$$\left\{ 9, \sqrt{\frac{3}{19}}, 9, \sqrt{\frac{3}{19}} \right\}$$

```

combinations[(-11 + x)4 (-9 + x)10 (-7 + x) (5 + x)32 (76 - 19 x + x2),
  (x + 5) (x - 9) (x - 11), list[13][[5]], list[13][[7]],
  list[13], anglesq[13]] // FullSimplify

```

$$\left\{5, -3\sqrt{\frac{3}{19}}, 5, -3\sqrt{\frac{3}{19}}\right\}$$

```

combinations[(-11 + x)4 (-9 + x)10 (-7 + x) (5 + x)32 (76 - 19 x + x2),
  (x + 5) (x - 9) (x - 11), list[13][[5]], list[13][[11]],
  list[13], anglesq[13]] // FullSimplify

```

$$\left\{8 + 9\sqrt{\frac{3}{19}}, 9, -8 + 9\sqrt{\frac{3}{19}}, -7\right\}$$

```

combinations[(-11 + x)4 (-9 + x)10 (-7 + x) (5 + x)32 (76 - 19 x + x2),
  (x + 5) (x - 9) (x - 11), list[13][[5]], list[13][[48]],
  list[13], anglesq[13]] // FullSimplify

```

$$\left\{21\sqrt{\frac{3}{19}}, -3, 21\sqrt{\frac{3}{19}}, -3\right\}$$

```

combinations[(-11 + x)4 (-9 + x)10 (-7 + x) (5 + x)32 (76 - 19 x + x2),
  (x + 5) (x - 9) (x - 11), list[13][[7]], list[13][[11]],
  list[13], anglesq[13]] // FullSimplify

```

$$\left\{\frac{77}{\sqrt{57}}, 7, \frac{77}{\sqrt{57}}, 7\right\}$$

```

combinations[(-11 + x)4 (-9 + x)10 (-7 + x) (5 + x)32 (76 - 19 x + x2),
  (x + 5) (x - 9) (x - 11), list[13][[7]], list[13][[48]],
  list[13], anglesq[13]] // FullSimplify

```

$$\left\{43\sqrt{\frac{3}{19}}, 3, 43\sqrt{\frac{3}{19}}, 3\right\}$$

```

combinations[(-11 + x)4 (-9 + x)10 (-7 + x) (5 + x)32 (76 - 19 x + x2),
  (x + 5) (x - 9) (x - 11), list[13][[11]], list[13][[48]],
  list[13], anglesq[13]] // FullSimplify

```

$$\left\{15, 23\sqrt{\frac{3}{19}}, 15, 23\sqrt{\frac{3}{19}}\right\}$$

last14[[14]]

$$(-11 + x)^6 (-9 + x)^{10} (-4 + x) (5 + x)^{32}$$

```
list[14] = {(-9 + x) (17 - 10 x + x^2), (-7 + x) (23 - 12 x + x^2),
  -169 + 107 x - 19 x^2 + x^3, (-3 + x) (59 - 16 x + x^2), (-5 + x) (37 - 14 x + x^2)};
```

$$A[14] = \begin{pmatrix} -153 & 107 & -19 & 1 \\ -161 & 107 & -19 & 1 \\ -169 & 107 & -19 & 1 \\ -177 & 107 & -19 & 1 \\ -185 & 107 & -19 & 1 \end{pmatrix};$$

```
Dimensions[A[14]]
```

```
{5, 4}
```

```
g[14] = CoefficientList[D[last14[[14]], x] / mu[last14[[14]]] // Factor, x]
```

```
{-8897, 5243, -931, 49}
```

$$\text{anglesq}[14] = \begin{pmatrix} \frac{23}{36} & \frac{1}{9} & 0 & \frac{1}{4} \\ \frac{9}{14} & \frac{3}{35} & \frac{2}{35} & \frac{3}{14} \\ \frac{163}{252} & \frac{19}{315} & \frac{4}{35} & \frac{5}{28} \\ \frac{41}{63} & \frac{11}{315} & \frac{6}{35} & \frac{1}{7} \\ \frac{55}{84} & \frac{1}{105} & \frac{8}{35} & \frac{3}{28} \end{pmatrix};$$

```
last14[[14]]
```

```
(-11 + x)^6 (-9 + x)^10 (-4 + x) (5 + x)^32
```

```
poly14warranted = list[14][[5]] * mu[last14[[14]]] // Factor
```

```
(-11 + x)^5 (-9 + x)^9 (-5 + x) (5 + x)^31 (37 - 14 x + x^2)
```

```
interlacepoly14compatiblew5 = {2, 5}
```

```
{2, 5}
```

```
list14refined = list[14][[{2, 5}]] * mu[last14[[14]]] // Factor
```

```
{(-11 + x)^5 (-9 + x)^9 (-7 + x) (5 + x)^31 (23 - 12 x + x^2),
  (-11 + x)^5 (-9 + x)^9 (-5 + x) (5 + x)^31 (37 - 14 x + x^2)}
```

```
Flatten[Array[n, 2] /. Solve[
```

```
  n[1] ≥ 0 && n[2] ≥ 0 && Array[n, 2].CoefficientList[list[14][[{2, 5}]], x] == g[14],
  Array[n, 2], Integers]]
```

```
{7, 42}
```

```
7 (-11 + x)^5 (-9 + x)^9 (-7 + x) (5 + x)^31 (23 - 12 x + x^2) +
  42 (-11 + x)^5 (-9 + x)^9 (-5 + x) (5 + x)^31 (37 - 14 x + x^2) // Factor
```

```
7 (-11 + x)^5 (-9 + x)^9 (5 + x)^31 (-1271 + 749 x - 133 x^2 + 7 x^3)
```

```
D[last14[[14]], x] // Factor
```

```
7 (-11 + x)^5 (-9 + x)^9 (5 + x)^31 (-1271 + 749 x - 133 x^2 + 7 x^3)
```

```
feasibleinterlacingpolylist[poly14warranted]
```

```
{(-11 + x) (-5 + x) (-154 + 95 x - 18 x^2 + x^3), (-5 + x) (46 - 15 x + x^2) (37 - 14 x + x^2),
  (-11 + x) (-10 + x) (-5 + x)^2 (-3 + x), -8322 + 7633 x - 2660 x^2 + 438 x^3 - 34 x^4 + x^5,
```

$$\begin{aligned}
& -8306 + 7633x - 2660x^2 + 438x^3 - 34x^4 + x^5, (-5+x)(1658 - 1195x + 293x^2 - 29x^3 + x^4), \\
& (37 - 14x + x^2)(-226 + 121x - 20x^2 + x^3), (-11+x)(-5+x)(-146 + 95x - 18x^2 + x^3), \\
& (-11+x)(-6+x)(-3+x)(41 - 14x + x^2), -8102 + 7569x - 2656x^2 + 438x^3 - 34x^4 + x^5, \\
& -8086 + 7569x - 2656x^2 + 438x^3 - 34x^4 + x^5, (-5+x)(1614 - 1191x + 293x^2 - 29x^3 + x^4), \\
& -8174 + 7577x - 2656x^2 + 438x^3 - 34x^4 + x^5, -8158 + 7577x - 2656x^2 + 438x^3 - 34x^4 + x^5, \\
& (-3+x)(59 - 16x + x^2)(46 - 15x + x^2), (-6+x)(37 - 14x + x^2)^2, \\
& (-11+x)(-5+x)(-142 + 95x - 18x^2 + x^3), (-11+x)(718 - 617x + 185x^2 - 23x^3 + x^4), \\
& -7882 + 7505x - 2652x^2 + 438x^3 - 34x^4 + x^5, -7866 + 7505x - 2652x^2 + 438x^3 - 34x^4 + x^5, \\
& (-10+x)(-5+x)(-157 + 103x - 19x^2 + x^3), (-11+x)(-3+x)(-242 + 125x - 20x^2 + x^3), \\
& -7970 + 7513x - 2652x^2 + 438x^3 - 34x^4 + x^5, (41 - 14x + x^2)(-194 + 117x - 20x^2 + x^3), \\
& -7938 + 7513x - 2652x^2 + 438x^3 - 34x^4 + x^5, -7922 + 7513x - 2652x^2 + 438x^3 - 34x^4 + x^5, \\
& (59 - 16x + x^2)(-134 + 91x - 18x^2 + x^3), -8026 + 7521x - 2652x^2 + 438x^3 - 34x^4 + x^5, \\
& (-10+x)(-3+x)(-267 + 135x - 21x^2 + x^3), -7994 + 7521x - 2652x^2 + 438x^3 - 34x^4 + x^5, \\
& (37 - 14x + x^2)(-218 + 121x - 20x^2 + x^3), (-11+x)(-6+x)(-5+x)(23 - 12x + x^2), \\
& (-11+x)(698 - 613x + 185x^2 - 23x^3 + x^4), -7662 + 7441x - 2648x^2 + 438x^3 - 34x^4 + x^5, \\
& -7646 + 7441x - 2648x^2 + 438x^3 - 34x^4 + x^5, (-5+x)(1526 - 1183x + 293x^2 - 29x^3 + x^4), \\
& (-11+x)(706 - 613x + 185x^2 - 23x^3 + x^4), -7750 + 7449x - 2648x^2 + 438x^3 - 34x^4 + x^5, \\
& -7734 + 7449x - 2648x^2 + 438x^3 - 34x^4 + x^5, -7718 + 7449x - 2648x^2 + 438x^3 - 34x^4 + x^5, \\
& -7702 + 7449x - 2648x^2 + 438x^3 - 34x^4 + x^5, (-6+x)(1281 - 1028x + 270x^2 - 28x^3 + x^4), \\
& (-5+x)(59 - 16x + x^2)(26 - 13x + x^2), (-11+x)(-7+x)(-3+x)(34 - 13x + x^2), \\
& -7838 + 7457x - 2648x^2 + 438x^3 - 34x^4 + x^5, -7822 + 7457x - 2648x^2 + 438x^3 - 34x^4 + x^5, \\
& -7806 + 7457x - 2648x^2 + 438x^3 - 34x^4 + x^5, (41 - 14x + x^2)(-190 + 117x - 20x^2 + x^3), \\
& (46 - 15x + x^2)(-169 + 107x - 19x^2 + x^3), -7758 + 7457x - 2648x^2 + 438x^3 - 34x^4 + x^5, \\
& (-3+x)(2626 - 1613x + 345x^2 - 31x^3 + x^4), -7862 + 7465x - 2648x^2 + 438x^3 - 34x^4 + x^5, \\
& -7846 + 7465x - 2648x^2 + 438x^3 - 34x^4 + x^5, (37 - 14x + x^2)(-214 + 121x - 20x^2 + x^3), \\
& (-11+x)(-5+x)(-134 + 95x - 18x^2 + x^3), (-11+x)(678 - 609x + 185x^2 - 23x^3 + x^4), \\
& -7442 + 7377x - 2644x^2 + 438x^3 - 34x^4 + x^5, -7426 + 7377x - 2644x^2 + 438x^3 - 34x^4 + x^5, \\
& (-5+x)(1482 - 1179x + 293x^2 - 29x^3 + x^4), (-11+x)(-7+x)(-98 + 73x - 16x^2 + x^3), \\
& -7530 + 7385x - 2644x^2 + 438x^3 - 34x^4 + x^5, -7514 + 7385x - 2644x^2 + 438x^3 - 34x^4 + x^5, \\
& (23 - 12x + x^2)(-326 + 151x - 22x^2 + x^3), -7482 + 7385x - 2644x^2 + 438x^3 - 34x^4 + x^5, \\
& -7466 + 7385x - 2644x^2 + 438x^3 - 34x^4 + x^5, (-10+x)(-5+x)(-149 + 103x - 19x^2 + x^3), \\
& (-11+x)(694 - 609x + 185x^2 - 23x^3 + x^4), -7618 + 7393x - 2644x^2 + 438x^3 - 34x^4 + x^5, \\
& (-7+x)(1086 - 901x + 249x^2 - 27x^3 + x^4), -7586 + 7393x - 2644x^2 + 438x^3 - 34x^4 + x^5, \\
& -7570 + 7393x - 2644x^2 + 438x^3 - 34x^4 + x^5, -7554 + 7393x - 2644x^2 + 438x^3 - 34x^4 + x^5, \\
& -7538 + 7393x - 2644x^2 + 438x^3 - 34x^4 + x^5, -7522 + 7393x - 2644x^2 + 438x^3 - 34x^4 + x^5, \\
& -7706 + 7401x - 2644x^2 + 438x^3 - 34x^4 + x^5, -7690 + 7401x - 2644x^2 + 438x^3 - 34x^4 + x^5, \\
& -7674 + 7401x - 2644x^2 + 438x^3 - 34x^4 + x^5, (-7+x)(1094 - 901x + 249x^2 - 27x^3 + x^4), \\
& -7642 + 7401x - 2644x^2 + 438x^3 - 34x^4 + x^5, (41 - 14x + x^2)(-186 + 117x - 20x^2 + x^3), \\
& (-10+x)(761 - 664x + 198x^2 - 24x^3 + x^4), -7730 + 7409x - 2644x^2 + 438x^3 - 34x^4 + x^5, \\
& (-7+x)(1102 - 901x + 249x^2 - 27x^3 + x^4), -7698 + 7409x - 2644x^2 + 438x^3 - 34x^4 + x^5, \\
& (-10+x)(-7+x)(-3+x)(37 - 14x + x^2), (-11+x)(-5+x)(-130 + 95x - 18x^2 + x^3), \\
& (-11+x)(-7+x)(-94 + 73x - 16x^2 + x^3), -7222 + 7313x - 2640x^2 + 438x^3 - 34x^4 + x^5, \\
& -7206 + 7313x - 2640x^2 + 438x^3 - 34x^4 + x^5, (-5+x)(1438 - 1175x + 293x^2 - 29x^3 + x^4),
\end{aligned}$$

$$\begin{aligned}
& (-11+x)(-9+x)(-74+59x-14x^2+x^3), -7310+7321x-2640x^2+438x^3-34x^4+x^5, \\
& (-7+x)(1042-897x+249x^2-27x^3+x^4), -7278+7321x-2640x^2+438x^3-34x^4+x^5, \\
& -7262+7321x-2640x^2+438x^3-34x^4+x^5, -7246+7321x-2640x^2+438x^3-34x^4+x^5, \\
& (-5+x)(1446-1175x+293x^2-29x^3+x^4), (-9+x)(822-723x+213x^2-25x^3+x^4), \\
& -7382+7329x-2640x^2+438x^3-34x^4+x^5, -7366+7329x-2640x^2+438x^3-34x^4+x^5, \\
& (-7+x)(1050-897x+249x^2-27x^3+x^4), -7334+7329x-2640x^2+438x^3-34x^4+x^5, \\
& -7318+7329x-2640x^2+438x^3-34x^4+x^5, -7302+7329x-2640x^2+438x^3-34x^4+x^5, \\
& (-9+x)(830-723x+213x^2-25x^3+x^4), -7454+7337x-2640x^2+438x^3-34x^4+x^5, \\
& -7438+7337x-2640x^2+438x^3-34x^4+x^5, -7422+7337x-2640x^2+438x^3-34x^4+x^5, \\
& (-7+x)(46-15x+x^2)(23-12x+x^2), -7390+7337x-2640x^2+438x^3-34x^4+x^5, \\
& -7374+7337x-2640x^2+438x^3-34x^4+x^5, (-9+x)(838-723x+213x^2-25x^3+x^4), \\
& -7526+7345x-2640x^2+438x^3-34x^4+x^5, -7510+7345x-2640x^2+438x^3-34x^4+x^5, \\
& -7494+7345x-2640x^2+438x^3-34x^4+x^5, -7478+7345x-2640x^2+438x^3-34x^4+x^5, \\
& (-7+x)(41-14x+x^2)(26-13x+x^2), (34-13x+x^2)(-223+131x-21x^2+x^3), \\
& -7566+7353x-2640x^2+438x^3-34x^4+x^5, -7550+7353x-2640x^2+438x^3-34x^4+x^5, \\
& (37-14x+x^2)(-206+121x-20x^2+x^3), (-11+x)(-9+x)(-7+x)(-5+x)(-2+x), \\
& (-9+x)(778-719x+213x^2-25x^3+x^4), (-7+x)(998-893x+249x^2-27x^3+x^4), \\
& (-5+x)(1394-1171x+293x^2-29x^3+x^4), (-9+x)(786-719x+213x^2-25x^3+x^4), \\
& -7058+7257x-2636x^2+438x^3-34x^4+x^5, (-7+x)(1006-893x+249x^2-27x^3+x^4), \\
& -7026+7257x-2636x^2+438x^3-34x^4+x^5, (-5+x)(1402-1171x+293x^2-29x^3+x^4), \\
& (-9+x)(794-719x+213x^2-25x^3+x^4), -7130+7265x-2636x^2+438x^3-34x^4+x^5, \\
& -7114+7265x-2636x^2+438x^3-34x^4+x^5, (-7+x)(1014-893x+249x^2-27x^3+x^4), \\
& -7082+7265x-2636x^2+438x^3-34x^4+x^5, -7066+7265x-2636x^2+438x^3-34x^4+x^5, \\
& (-9+x)(802-719x+213x^2-25x^3+x^4), -7202+7273x-2636x^2+438x^3-34x^4+x^5, \\
& -7186+7273x-2636x^2+438x^3-34x^4+x^5, -7170+7273x-2636x^2+438x^3-34x^4+x^5, \\
& (-7+x)(1022-893x+249x^2-27x^3+x^4), (-9+x)(810-719x+213x^2-25x^3+x^4), \\
& -7274+7281x-2636x^2+438x^3-34x^4+x^5, -7258+7281x-2636x^2+438x^3-34x^4+x^5, \\
& -7242+7281x-2636x^2+438x^3-34x^4+x^5, -7226+7281x-2636x^2+438x^3-34x^4+x^5, \\
& (-9+x)(818-719x+213x^2-25x^3+x^4), -7346+7289x-2636x^2+438x^3-34x^4+x^5, \\
& -7330+7289x-2636x^2+438x^3-34x^4+x^5, (23-12x+x^2)(-318+151x-22x^2+x^3), \\
& (-9+x)(826-719x+213x^2-25x^3+x^4), -7418+7297x-2636x^2+438x^3-34x^4+x^5, \\
& -7402+7297x-2636x^2+438x^3-34x^4+x^5, (37-14x+x^2)(-202+121x-20x^2+x^3), \\
& (-9+x)(-5+x)(-150+113x-20x^2+x^3), (-9+x)(758-715x+213x^2-25x^3+x^4), \\
& -6806+7193x-2632x^2+438x^3-34x^4+x^5, (-7+x)(-5+x)(-194+139x-22x^2+x^3), \\
& (-9+x)(766-715x+213x^2-25x^3+x^4), -6878+7201x-2632x^2+438x^3-34x^4+x^5, \\
& -6862+7201x-2632x^2+438x^3-34x^4+x^5, (-7+x)(978-889x+249x^2-27x^3+x^4), \\
& (-5+x)(1366-1167x+293x^2-29x^3+x^4), (-9+x)(774-715x+213x^2-25x^3+x^4), \\
& -6950+7209x-2632x^2+438x^3-34x^4+x^5, -6934+7209x-2632x^2+438x^3-34x^4+x^5, \\
& -6918+7209x-2632x^2+438x^3-34x^4+x^5, (-9+x)(46-15x+x^2)(17-10x+x^2), \\
& -7022+7217x-2632x^2+438x^3-34x^4+x^5, -7006+7217x-2632x^2+438x^3-34x^4+x^5, \\
& (-9+x)(790-715x+213x^2-25x^3+x^4), -7094+7225x-2632x^2+438x^3-34x^4+x^5, \\
& -7078+7225x-2632x^2+438x^3-34x^4+x^5, (-9+x)(798-715x+213x^2-25x^3+x^4), \\
& -7166+7233x-2632x^2+438x^3-34x^4+x^5, (-9+x)(26-13x+x^2)(31-12x+x^2), \\
& (-9+x)(37-14x+x^2)(22-11x+x^2), (-9+x)(-5+x)(-146+113x-20x^2+x^3),
\end{aligned}$$

$$\begin{aligned}
&(-9+x)(738-711x+213x^2-25x^3+x^4), -6626+7137x-2628x^2+438x^3-34x^4+x^5, \\
&(-5+x)(1322-1163x+293x^2-29x^3+x^4), (-9+x)(746-711x+213x^2-25x^3+x^4), \\
&-6698+7145x-2628x^2+438x^3-34x^4+x^5, -6682+7145x-2628x^2+438x^3-34x^4+x^5, \\
&(-9+x)(-2+x)(-377+167x-23x^2+x^3), -6770+7153x-2628x^2+438x^3-34x^4+x^5, \\
&(-9+x)(762-711x+213x^2-25x^3+x^4), (-9+x)(770-711x+213x^2-25x^3+x^4), \\
&(-9+x)(-5+x)(-142+113x-20x^2+x^3), (-9+x)(718-707x+213x^2-25x^3+x^4), \\
&-6446+7081x-2624x^2+438x^3-34x^4+x^5, (-9+x)(726-707x+213x^2-25x^3+x^4)\}
\end{aligned}$$

list14warranted =

$$\begin{aligned}
&\{(-11+x)(-5+x)(-154+95x-18x^2+x^3), (-5+x)(46-15x+x^2)(37-14x+x^2), \\
&(-11+x)(-10+x)(-5+x)^2(-3+x), -8322+7633x-2660x^2+438x^3-34x^4+x^5, \\
&-8306+7633x-2660x^2+438x^3-34x^4+x^5, (-5+x)(1658-1195x+293x^2-29x^3+x^4), \\
&(37-14x+x^2)(-226+121x-20x^2+x^3), (-11+x)(-5+x)(-146+95x-18x^2+x^3), \\
&(-11+x)(-6+x)(-3+x)(41-14x+x^2), -8102+7569x-2656x^2+438x^3-34x^4+x^5, \\
&-8086+7569x-2656x^2+438x^3-34x^4+x^5, (-5+x)(1614-1191x+293x^2-29x^3+x^4), \\
&-8174+7577x-2656x^2+438x^3-34x^4+x^5, -8158+7577x-2656x^2+438x^3-34x^4+x^5, \\
&(-3+x)(59-16x+x^2)(46-15x+x^2), (-6+x)(37-14x+x^2)^2, \\
&(-11+x)(-5+x)(-142+95x-18x^2+x^3), (-11+x)(718-617x+185x^2-23x^3+x^4), \\
&-7882+7505x-2652x^2+438x^3-34x^4+x^5, -7866+7505x-2652x^2+438x^3-34x^4+x^5, \\
&(-10+x)(-5+x)(-157+103x-19x^2+x^3), \\
&(-11+x)(-3+x)(-242+125x-20x^2+x^3), \\
&-7970+7513x-2652x^2+438x^3-34x^4+x^5, (41-14x+x^2)(-194+117x-20x^2+x^3), \\
&-7938+7513x-2652x^2+438x^3-34x^4+x^5, -7922+7513x-2652x^2+438x^3-34x^4+x^5, \\
&(59-16x+x^2)(-134+91x-18x^2+x^3), -8026+7521x-2652x^2+438x^3-34x^4+x^5, \\
&(-10+x)(-3+x)(-267+135x-21x^2+x^3), \\
&-7994+7521x-2652x^2+438x^3-34x^4+x^5, (37-14x+x^2)(-218+121x-20x^2+x^3), \\
&(-11+x)(-6+x)(-5+x)(23-12x+x^2), (-11+x)(698-613x+185x^2-23x^3+x^4), \\
&-7662+7441x-2648x^2+438x^3-34x^4+x^5, -7646+7441x-2648x^2+438x^3-34x^4+x^5, \\
&(-5+x)(1526-1183x+293x^2-29x^3+x^4), (-11+x)(706-613x+185x^2-23x^3+x^4), \\
&-7750+7449x-2648x^2+438x^3-34x^4+x^5, -7734+7449x-2648x^2+438x^3-34x^4+x^5, \\
&-7718+7449x-2648x^2+438x^3-34x^4+x^5, -7702+7449x-2648x^2+438x^3-34x^4+x^5, \\
&(-6+x)(1281-1028x+270x^2-28x^3+x^4), (-5+x)(59-16x+x^2)(26-13x+x^2), \\
&(-11+x)(-7+x)(-3+x)(34-13x+x^2), -7838+7457x-2648x^2+438x^3-34x^4+x^5, \\
&-7822+7457x-2648x^2+438x^3-34x^4+x^5, -7806+7457x-2648x^2+438x^3-34x^4+x^5, \\
&(41-14x+x^2)(-190+117x-20x^2+x^3), (46-15x+x^2)(-169+107x-19x^2+x^3), \\
&-7758+7457x-2648x^2+438x^3-34x^4+x^5, (-3+x)(2626-1613x+345x^2-31x^3+x^4), \\
&-7862+7465x-2648x^2+438x^3-34x^4+x^5, -7846+7465x-2648x^2+438x^3-34x^4+x^5, \\
&(37-14x+x^2)(-214+121x-20x^2+x^3), (-11+x)(-5+x)(-134+95x-18x^2+x^3), \\
&(-11+x)(678-609x+185x^2-23x^3+x^4), -7442+7377x-2644x^2+438x^3-34x^4+x^5, \\
&-7426+7377x-2644x^2+438x^3-34x^4+x^5, (-5+x)(1482-1179x+293x^2-29x^3+x^4), \\
&(-11+x)(-7+x)(-98+73x-16x^2+x^3), -7530+7385x-2644x^2+438x^3-34x^4+x^5, \\
&-7514+7385x-2644x^2+438x^3-34x^4+x^5, (23-12x+x^2)(-326+151x-22x^2+x^3), \\
&-7482+7385x-2644x^2+438x^3-34x^4+x^5, -7466+7385x-2644x^2+438x^3-34x^4+x^5,
\end{aligned}$$

$$\begin{aligned}
& (-10+x)(-5+x)(-149+103x-19x^2+x^3), \\
& (-11+x)(694-609x+185x^2-23x^3+x^4), -7618+7393x-2644x^2+438x^3-34x^4+x^5, \\
& (-7+x)(1086-901x+249x^2-27x^3+x^4), -7586+7393x-2644x^2+438x^3-34x^4+x^5, \\
& -7570+7393x-2644x^2+438x^3-34x^4+x^5, -7554+7393x-2644x^2+438x^3-34x^4+x^5, \\
& -7538+7393x-2644x^2+438x^3-34x^4+x^5, -7522+7393x-2644x^2+438x^3-34x^4+x^5, \\
& -7706+7401x-2644x^2+438x^3-34x^4+x^5, -7690+7401x-2644x^2+438x^3-34x^4+x^5, \\
& -7674+7401x-2644x^2+438x^3-34x^4+x^5, (-7+x)(1094-901x+249x^2-27x^3+x^4), \\
& -7642+7401x-2644x^2+438x^3-34x^4+x^5, (41-14x+x^2)(-186+117x-20x^2+x^3), \\
& (-10+x)(761-664x+198x^2-24x^3+x^4), -7730+7409x-2644x^2+438x^3-34x^4+x^5, \\
& (-7+x)(1102-901x+249x^2-27x^3+x^4), -7698+7409x-2644x^2+438x^3-34x^4+x^5, \\
& (-10+x)(-7+x)(-3+x)(37-14x+x^2), (-11+x)(-5+x)(-130+95x-18x^2+x^3), \\
& (-11+x)(-7+x)(-94+73x-16x^2+x^3), -7222+7313x-2640x^2+438x^3-34x^4+x^5, \\
& -7206+7313x-2640x^2+438x^3-34x^4+x^5, (-5+x)(1438-1175x+293x^2-29x^3+x^4), \\
& (-11+x)(-9+x)(-74+59x-14x^2+x^3), -7310+7321x-2640x^2+438x^3-34x^4+x^5, \\
& (-7+x)(1042-897x+249x^2-27x^3+x^4), -7278+7321x-2640x^2+438x^3-34x^4+x^5, \\
& -7262+7321x-2640x^2+438x^3-34x^4+x^5, -7246+7321x-2640x^2+438x^3-34x^4+x^5, \\
& (-5+x)(1446-1175x+293x^2-29x^3+x^4), (-9+x)(822-723x+213x^2-25x^3+x^4), \\
& -7382+7329x-2640x^2+438x^3-34x^4+x^5, -7366+7329x-2640x^2+438x^3-34x^4+x^5, \\
& (-7+x)(1050-897x+249x^2-27x^3+x^4), -7334+7329x-2640x^2+438x^3-34x^4+x^5, \\
& -7318+7329x-2640x^2+438x^3-34x^4+x^5, -7302+7329x-2640x^2+438x^3-34x^4+x^5, \\
& (-9+x)(830-723x+213x^2-25x^3+x^4), -7454+7337x-2640x^2+438x^3-34x^4+x^5, \\
& -7438+7337x-2640x^2+438x^3-34x^4+x^5, -7422+7337x-2640x^2+438x^3-34x^4+x^5, \\
& (-7+x)(46-15x+x^2)(23-12x+x^2), -7390+7337x-2640x^2+438x^3-34x^4+x^5, \\
& -7374+7337x-2640x^2+438x^3-34x^4+x^5, (-9+x)(838-723x+213x^2-25x^3+x^4), \\
& -7526+7345x-2640x^2+438x^3-34x^4+x^5, -7510+7345x-2640x^2+438x^3-34x^4+x^5, \\
& -7494+7345x-2640x^2+438x^3-34x^4+x^5, -7478+7345x-2640x^2+438x^3-34x^4+x^5, \\
& (-7+x)(41-14x+x^2)(26-13x+x^2), (34-13x+x^2)(-223+131x-21x^2+x^3), \\
& -7566+7353x-2640x^2+438x^3-34x^4+x^5, -7550+7353x-2640x^2+438x^3-34x^4+x^5, \\
& (37-14x+x^2)(-206+121x-20x^2+x^3), (-11+x)(-9+x)(-7+x)(-5+x)(-2+x), \\
& (-9+x)(778-719x+213x^2-25x^3+x^4), (-7+x)(998-893x+249x^2-27x^3+x^4), \\
& (-5+x)(1394-1171x+293x^2-29x^3+x^4), (-9+x)(786-719x+213x^2-25x^3+x^4), \\
& -7058+7257x-2636x^2+438x^3-34x^4+x^5, (-7+x)(1006-893x+249x^2-27x^3+x^4), \\
& -7026+7257x-2636x^2+438x^3-34x^4+x^5, (-5+x)(1402-1171x+293x^2-29x^3+x^4), \\
& (-9+x)(794-719x+213x^2-25x^3+x^4), -7130+7265x-2636x^2+438x^3-34x^4+x^5, \\
& -7114+7265x-2636x^2+438x^3-34x^4+x^5, (-7+x)(1014-893x+249x^2-27x^3+x^4), \\
& -7082+7265x-2636x^2+438x^3-34x^4+x^5, -7066+7265x-2636x^2+438x^3-34x^4+x^5, \\
& (-9+x)(802-719x+213x^2-25x^3+x^4), -7202+7273x-2636x^2+438x^3-34x^4+x^5, \\
& -7186+7273x-2636x^2+438x^3-34x^4+x^5, -7170+7273x-2636x^2+438x^3-34x^4+x^5, \\
& (-7+x)(1022-893x+249x^2-27x^3+x^4), (-9+x)(810-719x+213x^2-25x^3+x^4), \\
& -7274+7281x-2636x^2+438x^3-34x^4+x^5, -7258+7281x-2636x^2+438x^3-34x^4+x^5, \\
& -7242+7281x-2636x^2+438x^3-34x^4+x^5, -7226+7281x-2636x^2+438x^3-34x^4+x^5, \\
& (-9+x)(818-719x+213x^2-25x^3+x^4), -7346+7289x-2636x^2+438x^3-34x^4+x^5, \\
& -7330+7289x-2636x^2+438x^3-34x^4+x^5, (23-12x+x^2)(-318+151x-22x^2+x^3), \\
& (-9+x)(826-719x+213x^2-25x^3+x^4), -7418+7297x-2636x^2+438x^3-34x^4+x^5,
\end{aligned}$$

$$\begin{aligned}
& -7402 + 7297x - 2636x^2 + 438x^3 - 34x^4 + x^5, (37 - 14x + x^2)(-202 + 121x - 20x^2 + x^3), \\
& (-9 + x)(-5 + x)(-150 + 113x - 20x^2 + x^3), (-9 + x)(758 - 715x + 213x^2 - 25x^3 + x^4), \\
& -6806 + 7193x - 2632x^2 + 438x^3 - 34x^4 + x^5, (-7 + x)(-5 + x)(-194 + 139x - 22x^2 + x^3), \\
& (-9 + x)(766 - 715x + 213x^2 - 25x^3 + x^4), -6878 + 7201x - 2632x^2 + 438x^3 - 34x^4 + x^5, \\
& -6862 + 7201x - 2632x^2 + 438x^3 - 34x^4 + x^5, (-7 + x)(978 - 889x + 249x^2 - 27x^3 + x^4), \\
& (-5 + x)(1366 - 1167x + 293x^2 - 29x^3 + x^4), (-9 + x)(774 - 715x + 213x^2 - 25x^3 + x^4), \\
& -6950 + 7209x - 2632x^2 + 438x^3 - 34x^4 + x^5, -6934 + 7209x - 2632x^2 + 438x^3 - 34x^4 + x^5, \\
& -6918 + 7209x - 2632x^2 + 438x^3 - 34x^4 + x^5, (-9 + x)(46 - 15x + x^2)(17 - 10x + x^2), \\
& -7022 + 7217x - 2632x^2 + 438x^3 - 34x^4 + x^5, -7006 + 7217x - 2632x^2 + 438x^3 - 34x^4 + x^5, \\
& (-9 + x)(790 - 715x + 213x^2 - 25x^3 + x^4), -7094 + 7225x - 2632x^2 + 438x^3 - 34x^4 + x^5, \\
& -7078 + 7225x - 2632x^2 + 438x^3 - 34x^4 + x^5, (-9 + x)(798 - 715x + 213x^2 - 25x^3 + x^4), \\
& -7166 + 7233x - 2632x^2 + 438x^3 - 34x^4 + x^5, (-9 + x)(26 - 13x + x^2)(31 - 12x + x^2), \\
& (-9 + x)(37 - 14x + x^2)(22 - 11x + x^2), (-9 + x)(-5 + x)(-146 + 113x - 20x^2 + x^3), \\
& (-9 + x)(738 - 711x + 213x^2 - 25x^3 + x^4), -6626 + 7137x - 2628x^2 + 438x^3 - 34x^4 + x^5, \\
& (-5 + x)(1322 - 1163x + 293x^2 - 29x^3 + x^4), (-9 + x)(746 - 711x + 213x^2 - 25x^3 + x^4), \\
& -6698 + 7145x - 2628x^2 + 438x^3 - 34x^4 + x^5, -6682 + 7145x - 2628x^2 + 438x^3 - 34x^4 + x^5, \\
& (-9 + x)(-2 + x)(-377 + 167x - 23x^2 + x^3), -6770 + 7153x - 2628x^2 + 438x^3 - 34x^4 + x^5, \\
& (-9 + x)(762 - 711x + 213x^2 - 25x^3 + x^4), (-9 + x)(770 - 711x + 213x^2 - 25x^3 + x^4), \\
& (-9 + x)(-5 + x)(-142 + 113x - 20x^2 + x^3), (-9 + x)(718 - 707x + 213x^2 - 25x^3 + x^4), \\
& -6446 + 7081x - 2624x^2 + 438x^3 - 34x^4 + x^5, (-9 + x)(726 - 707x + 213x^2 - 25x^3 + x^4)\};
\end{aligned}$$

A14warranted = CoefficientList[list14warranted, x];

A14warranted // MatrixForm

$$\begin{pmatrix}
-8470 & 7689 & -2664 & 438 & -34 & 1 \\
-8510 & 7697 & -2664 & 438 & -34 & 1 \\
-8250 & 7625 & -2660 & 438 & -34 & 1 \\
-8322 & 7633 & -2660 & 438 & -34 & 1 \\
-8306 & 7633 & -2660 & 438 & -34 & 1 \\
-8290 & 7633 & -2660 & 438 & -34 & 1 \\
-8362 & 7641 & -2660 & 438 & -34 & 1 \\
-8030 & 7561 & -2656 & 438 & -34 & 1 \\
-8118 & 7569 & -2656 & 438 & -34 & 1 \\
-8102 & 7569 & -2656 & 438 & -34 & 1 \\
-8086 & 7569 & -2656 & 438 & -34 & 1 \\
-8070 & 7569 & -2656 & 438 & -34 & 1 \\
-8174 & 7577 & -2656 & 438 & -34 & 1 \\
-8158 & 7577 & -2656 & 438 & -34 & 1 \\
-8142 & 7577 & -2656 & 438 & -34 & 1 \\
-8214 & 7585 & -2656 & 438 & -34 & 1 \\
-7810 & 7497 & -2652 & 438 & -34 & 1 \\
-7898 & 7505 & -2652 & 438 & -34 & 1 \\
-7882 & 7505 & -2652 & 438 & -34 & 1 \\
-7866 & 7505 & -2652 & 438 & -34 & 1 \\
-7850 & 7505 & -2652 & 438 & -34 & 1 \\
-7986 & 7513 & -2652 & 438 & -34 & 1 \\
-7970 & 7513 & -2652 & 438 & -34 & 1 \\
-7954 & 7513 & -2652 & 438 & -34 & 1 \\
-7938 & 7513 & -2652 & 438 & -34 & 1 \\
-7922 & 7513 & -2652 & 438 & -34 & 1
\end{pmatrix}$$

-7906	7513	-2652	438	-34	1
-8026	7521	-2652	438	-34	1
-8010	7521	-2652	438	-34	1
-7994	7521	-2652	438	-34	1
-8066	7529	-2652	438	-34	1
-7590	7433	-2648	438	-34	1
-7678	7441	-2648	438	-34	1
-7662	7441	-2648	438	-34	1
-7646	7441	-2648	438	-34	1
-7630	7441	-2648	438	-34	1
-7766	7449	-2648	438	-34	1
-7750	7449	-2648	438	-34	1
-7734	7449	-2648	438	-34	1
-7718	7449	-2648	438	-34	1
-7702	7449	-2648	438	-34	1
-7686	7449	-2648	438	-34	1
-7670	7449	-2648	438	-34	1
-7854	7457	-2648	438	-34	1
-7838	7457	-2648	438	-34	1
-7822	7457	-2648	438	-34	1
-7806	7457	-2648	438	-34	1
-7790	7457	-2648	438	-34	1
-7774	7457	-2648	438	-34	1
-7758	7457	-2648	438	-34	1
-7878	7465	-2648	438	-34	1
-7862	7465	-2648	438	-34	1
-7846	7465	-2648	438	-34	1
-7918	7473	-2648	438	-34	1
-7370	7369	-2644	438	-34	1
-7458	7377	-2644	438	-34	1
-7442	7377	-2644	438	-34	1
-7426	7377	-2644	438	-34	1
-7410	7377	-2644	438	-34	1
-7546	7385	-2644	438	-34	1
-7530	7385	-2644	438	-34	1
-7514	7385	-2644	438	-34	1
-7498	7385	-2644	438	-34	1
-7482	7385	-2644	438	-34	1
-7466	7385	-2644	438	-34	1
-7450	7385	-2644	438	-34	1
-7634	7393	-2644	438	-34	1
-7618	7393	-2644	438	-34	1
-7602	7393	-2644	438	-34	1
-7586	7393	-2644	438	-34	1
-7570	7393	-2644	438	-34	1
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-7626	7401	-2644	438	-34	1
-7610	7401	-2644	438	-34	1

-7730	7409	-2644	438	-34	1
-7714	7409	-2644	438	-34	1
-7698	7409	-2644	438	-34	1
-7770	7417	-2644	438	-34	1
-7150	7305	-2640	438	-34	1
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-7302	7329	-2640	438	-34	1
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-7422	7337	-2640	438	-34	1
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-7114	7265	-2636	438	-34	1
-7098	7265	-2636	438	-34	1
-7082	7265	-2636	438	-34	1
-7066	7265	-2636	438	-34	1

- 7066	7265	- 2636	438	- 34	1
- 7218	7273	- 2636	438	- 34	1
- 7202	7273	- 2636	438	- 34	1
- 7186	7273	- 2636	438	- 34	1
- 7170	7273	- 2636	438	- 34	1
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- 7242	7281	- 2636	438	- 34	1
- 7226	7281	- 2636	438	- 34	1
- 7362	7289	- 2636	438	- 34	1
- 7346	7289	- 2636	438	- 34	1
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- 7314	7289	- 2636	438	- 34	1
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- 7418	7297	- 2636	438	- 34	1
- 7402	7297	- 2636	438	- 34	1
- 7474	7305	- 2636	438	- 34	1
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- 6846	7201	- 2632	438	- 34	1
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- 7110	7225	- 2632	438	- 34	1
- 7094	7225	- 2632	438	- 34	1
- 7078	7225	- 2632	438	- 34	1
- 7182	7233	- 2632	438	- 34	1
- 7166	7233	- 2632	438	- 34	1
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- 7326	7249	- 2632	438	- 34	1
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- 6610	7137	- 2628	438	- 34	1
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- 6698	7145	- 2628	438	- 34	1
- 6682	7145	- 2628	438	- 34	1
- 6786	7153	- 2628	438	- 34	1
- 6770	7153	- 2628	438	- 34	1
- 6858	7161	- 2628	438	- 34	1
- 6930	7169	- 2628	438	- 34	1
- 6390	7073	- 2624	438	- 34	1
- 6462	7081	- 2624	438	- 34	1

$$\begin{pmatrix} -6446 & 7081 & -2624 & 438 & -34 & 1 \\ -6534 & 7089 & -2624 & 438 & -34 & 1 \end{pmatrix}$$

Dimensions[A14warranted]

{192, 6}

g14warranted =

CoefficientList[D[poly14warranted, x] / mu[poly14warranted] // Factor, x]

{-381600, 360816, -127296, 21024, -1632, 48}

```
FindInstance[n[1] ≥ 0 && n[2] ≥ 0 && n[3] ≥ 0 && n[4] ≥ 0 && n[5] ≥ 0 && n[6] ≥ 0 &&
  n[7] ≥ 0 && n[8] ≥ 0 && n[9] ≥ 0 && n[10] ≥ 0 && n[11] ≥ 0 && n[12] ≥ 0 && n[13] ≥ 0 &&
  n[14] ≥ 0 && n[15] ≥ 0 && n[16] ≥ 0 && n[17] ≥ 0 && n[18] ≥ 0 && n[19] ≥ 0 && n[20] ≥ 0 &&
  n[21] ≥ 0 && n[22] ≥ 0 && n[23] ≥ 0 && n[24] ≥ 0 && n[25] ≥ 0 && n[26] ≥ 0 && n[27] ≥ 0 &&
  n[28] ≥ 0 && n[29] ≥ 0 && n[30] ≥ 0 && n[31] ≥ 0 && n[32] ≥ 0 && n[33] ≥ 0 && n[34] ≥ 0 &&
  n[35] ≥ 0 && n[36] ≥ 0 && n[37] ≥ 0 && n[38] ≥ 0 && n[39] ≥ 0 && n[40] ≥ 0 && n[41] ≥ 0 &&
  n[42] ≥ 0 && n[43] ≥ 0 && n[44] ≥ 0 && n[45] ≥ 0 && n[46] ≥ 0 && n[47] ≥ 0 &&
  n[48] ≥ 0 && n[49] ≥ 0 && n[50] ≥ 0 && n[51] ≥ 0 && n[52] ≥ 0 && n[53] ≥ 0 &&
  n[54] ≥ 0 && n[55] ≥ 0 && n[56] ≥ 0 && n[57] ≥ 0 && n[58] ≥ 0 && n[59] ≥ 0 &&
  n[60] ≥ 0 && n[61] ≥ 0 && n[62] ≥ 0 && n[63] ≥ 0 && n[64] ≥ 0 && n[65] ≥ 0 &&
  n[66] ≥ 0 && n[67] ≥ 0 && n[68] ≥ 0 && n[69] ≥ 0 && n[70] ≥ 0 && n[71] ≥ 0 &&
  n[72] ≥ 0 && n[73] ≥ 0 && n[74] ≥ 0 && n[75] ≥ 0 && n[76] ≥ 0 && n[77] ≥ 0 &&
  n[78] ≥ 0 && n[79] ≥ 0 && n[80] ≥ 0 && n[81] ≥ 0 && n[82] ≥ 0 && n[83] ≥ 0 &&
  n[84] ≥ 0 && n[85] ≥ 0 && n[86] ≥ 0 && n[87] ≥ 0 && n[88] ≥ 0 && n[89] ≥ 0 &&
  n[90] ≥ 0 && n[91] ≥ 0 && n[92] ≥ 0 && n[93] ≥ 0 && n[94] ≥ 0 && n[95] ≥ 0 &&
  n[96] ≥ 0 && n[97] ≥ 0 && n[98] ≥ 0 && n[99] ≥ 0 && n[100] ≥ 0 && n[101] ≥ 0 &&
  n[102] ≥ 0 && n[103] ≥ 0 && n[104] ≥ 0 && n[105] ≥ 0 && n[106] ≥ 0 && n[107] ≥ 0 &&
  n[108] ≥ 0 && n[109] ≥ 0 && n[110] ≥ 0 && n[111] ≥ 0 && n[112] ≥ 0 && n[113] ≥ 0 &&
  n[114] ≥ 0 && n[115] ≥ 0 && n[116] ≥ 0 && n[117] ≥ 0 && n[118] ≥ 0 && n[119] ≥ 0 &&
  n[120] ≥ 0 && n[121] ≥ 0 && n[122] ≥ 0 && n[123] ≥ 0 && n[124] ≥ 0 && n[125] ≥ 0 &&
  n[126] ≥ 0 && n[127] ≥ 0 && n[128] ≥ 0 && n[129] ≥ 0 && n[130] ≥ 0 && n[131] ≥ 0 &&
  n[132] ≥ 0 && n[133] ≥ 0 && n[134] ≥ 0 && n[135] ≥ 0 && n[136] ≥ 0 && n[137] ≥ 0 &&
  n[138] ≥ 0 && n[139] ≥ 0 && n[140] ≥ 0 && n[141] ≥ 0 && n[142] ≥ 0 && n[143] ≥ 0 &&
  n[144] ≥ 0 && n[145] ≥ 0 && n[146] ≥ 0 && n[147] ≥ 0 && n[148] ≥ 0 && n[149] ≥ 0 &&
  n[150] ≥ 0 && n[151] ≥ 0 && n[152] ≥ 0 && n[153] ≥ 0 && n[154] ≥ 0 && n[155] ≥ 0 &&
  n[156] ≥ 0 && n[157] ≥ 0 && n[158] ≥ 0 && n[159] ≥ 0 && n[160] ≥ 0 && n[161] ≥ 0 &&
  n[162] ≥ 0 && n[163] ≥ 0 && n[164] ≥ 0 && n[165] ≥ 0 && n[166] ≥ 0 && n[167] ≥ 0 &&
  n[168] ≥ 0 && n[169] ≥ 0 && n[170] ≥ 0 && n[171] ≥ 0 && n[172] ≥ 0 && n[173] ≥ 0 &&
  n[174] ≥ 0 && n[175] ≥ 0 && n[176] ≥ 0 && n[177] ≥ 0 && n[178] ≥ 0 && n[179] ≥ 0 &&
  n[180] ≥ 0 && n[181] ≥ 0 && n[182] ≥ 0 && n[183] ≥ 0 && n[184] ≥ 0 && n[185] ≥ 0 &&
  n[186] ≥ 0 && n[187] ≥ 0 && n[188] ≥ 0 && n[189] ≥ 0 && n[190] ≥ 0 && n[191] ≥ 0 &&
  n[192] ≥ 0 && Array[n, 192].A14warranted == g14warranted, Array[n, 192], Integers]
```

```
{ {n[1] → 0, n[2] → 25, n[3] → 0, n[4] → 0, n[5] → 0, n[6] → 0, n[7] → 0, n[8] → 0,
  n[9] → 0, n[10] → 0, n[11] → 0, n[12] → 0, n[13] → 0, n[14] → 0, n[15] → 0,
  n[16] → 0, n[17] → 0, n[18] → 0, n[19] → 0, n[20] → 0, n[21] → 1, n[22] → 0,
  n[23] → 0, n[24] → 0, n[25] → 0, n[26] → 0, n[27] → 0, n[28] → 0, n[29] → 0,
  n[30] → 0, n[31] → 0, n[32] → 0, n[33] → 0, n[34] → 0, n[35] → 0, n[36] → 0,
  n[37] → 0, n[38] → 0, n[39] → 0, n[40] → 0, n[41] → 0, n[42] → 0, n[43] → 5,
  n[44] → 0, n[45] → 0, n[46] → 0, n[47] → 0, n[48] → 0, n[49] → 0, n[50] → 0,
  n[51] → 0, n[52] → 0, n[53] → 0, n[54] → 0, n[55] → 0, n[56] → 0, n[57] → 0,
  n[58] → 0, n[59] → 0, n[60] → 0, n[61] → 0, n[62] → 0, n[63] → 0, n[64] → 0,
  n[65] → 0, n[66] → 1, n[67] → 0, n[68] → 0, n[69] → 0, n[70] → 0, n[71] → 0,
  n[72] → 0, n[73] → 0, n[74] → 0, n[75] → 0, n[76] → 0, n[77] → 0, n[78] → 0,
  n[79] → 0, n[80] → 0, n[81] → 0, n[82] → 0, n[83] → 0, n[84] → 0, n[85] → 0,
  n[86] → 0, n[87] → 0, n[88] → 0, n[89] → 0, n[90] → 0, n[91] → 0, n[92] → 0,
  n[93] → 0, n[94] → 0, n[95] → 0, n[96] → 0, n[97] → 1, n[98] → 0, n[99] → 0,
  n[100] → 0, n[101] → 0, n[102] → 0, n[103] → 0, n[104] → 0, n[105] → 0, n[106] → 0,
  n[107] → 0, n[108] → 0, n[109] → 0, n[110] → 0, n[111] → 0, n[112] → 0, n[113] → 0,
  n[114] → 0, n[115] → 0, n[116] → 0, n[117] → 0, n[118] → 0, n[119] → 0, n[120] → 0,
  n[121] → 0, n[122] → 0, n[123] → 0, n[124] → 0, n[125] → 0, n[126] → 0,
  n[127] → 0, n[128] → 0, n[129] → 0, n[130] → 0, n[131] → 0, n[132] → 0,
  n[133] → 0, n[134] → 0, n[135] → 0, n[136] → 0, n[137] → 0, n[138] → 0,
  n[139] → 0, n[140] → 0, n[141] → 0, n[142] → 0, n[143] → 0, n[144] → 0,
  n[145] → 0, n[146] → 0, n[147] → 0, n[148] → 0, n[149] → 0, n[150] → 0,
  n[151] → 0, n[152] → 0, n[153] → 10, n[154] → 0, n[155] → 0, n[156] → 0,
  n[157] → 0, n[158] → 5, n[159] → 0, n[160] → 0, n[161] → 0, n[162] → 0,
  n[163] → 0, n[164] → 0, n[165] → 0, n[166] → 0, n[167] → 0, n[168] → 0,
  n[169] → 0, n[170] → 0, n[171] → 0, n[172] → 0, n[173] → 0, n[174] → 0,
  n[175] → 0, n[176] → 0, n[177] → 0, n[178] → 0, n[179] → 0, n[180] → 0,
  n[181] → 0, n[182] → 0, n[183] → 0, n[184] → 0, n[185] → 0, n[186] → 0,
  n[187] → 0, n[188] → 0, n[189] → 0, n[190] → 0, n[191] → 0, n[192] → 0 } }
```


[illegible]