

(Alt) In[]:=

```
SetDirectory["C:\\drorbn\\AcademicPensieve\\Projects\\SL2Invariant"];
<< SL2Invariant.m
SetDirectory["C:\\drorbn\\AcademicPensieve\\Projects\\SL2Invariant\\k=2"];
```

Loading KnotTheory` version of January 20, 2015, 10:42:19.1122.
Read more at <http://katlas.org/wiki/KnotTheory>.

This is Profile.m of <http://www.drorbn.net/AcademicPensieve/Projects/Profile/>.

This version: June 2018. Original version: July 1994.

(Alt) In[]:=

```
OverbayP2Data = Get["C:\\drorbn\\AcademicPensieve\\People\\Overbay\\OverbayP2Data.m"];
```

(Alt) In[]:=

```
$k = 2;
h = g = 1;
$QZipFail = True;
tab = DeleteCases[Table[
  {n, k} = List @@ K;
  fname = "Data/" <> ToString[n] <> "_" <> ToString[k] <> ".m";
  Switch[FileType[fname],
    None, None,
    File, z = Get[fname]
  ];
  z,
  {K, AllKnots[{3, 10]}]
], None]
```

(Alt) Out[]:=

$$\{ \text{Knot}[3, 1] \rightarrow \left\{ 23.6875, E_{\{\} \rightarrow \{\emptyset\}} \left[\frac{1-T+T^2}{T}, 0, 0, \right. \right.$$

$$\left. \left. \left\{ 1, \frac{-2+7T-14T^2+18 \dots 1 \dots - \dots 1 \dots +10T^5-4T^6+T^7}{T^4} + \frac{\dots 1 \dots}{T^4} + \frac{(\dots 1 \dots)(\dots 1 \dots)(\dots 1 \dots)y}{T^4}, \right. \right.$$

$$\frac{1}{2T^8} \left(4 - 27T + 90T^2 - 198T^3 + 310T^4 - 357T^5 + 292T^6 - 141T^7 - 18T^8 + 115T^9 - 132T^{10} + \right.$$

$$99T^{11} - 54T^{12} + 22T^{13} - 6T^{14} + T^{15} \left. \right) + \frac{1}{T^8} a \left(4 - 24T + 66T^2 - 94T^3 + 330T^5 - 896T^6 + \right.$$

$$1494T^7 - 1836T^8 + 1750T^9 - 1320T^{10} + 786T^{11} - 364T^{12} + 126T^{13} - 30T^{14} + 4T^{15} \left. \right) +$$

$$\frac{1}{T^8} a^2 \left(2 - 10T + 18T^2 + 16T^3 - 182T^4 + \dots 12 \dots + 16T^{13} + 18T^{14} - 10T^{15} + 2T^{16} \right) +$$

$$\frac{a \left(4 - 12T + \dots 16 \dots + 36T^{14} - 8T^{15} \right) xy}{T^8} + \frac{1}{T^8} \left(2 - 12T + 36T^2 - 74T^3 + 108T^4 - 120T^5 + 92T^6 - \right.$$

$$36T^7 - 36T^8 + 92T^9 - 120T^{10} + 108T^{11} - 74T^{12} + 36T^{13} - 12T^{14} + 2T^{15} \left. \right) xy +$$

$$\frac{1}{T^8} \left(3 - 9T + 12T^2 + 21T^3 - 117T^4 + 282T^5 - 441T^6 + 513T^7 - 441T^8 + \right.$$

$$282T^9 - 117T^{10} + 21T^{11} + 12T^{12} - 9T^{13} + 3T^{14} \left. \right) x^2 y^2 \left. \right\} \left. \right\},$$

$$\dots 247 \dots, \text{Knot}[10, 165] \rightarrow \left\{ \dots 1 \dots \right\} \left. \right\}$$

large output | show less | show more | show all | set size limit...

```
(Alt) In[ ]:= tab1 = Take[tab, All] /. (Knot[n_, k_] -> Z_) := {nk, ω = Factor@Z[[2, 1]],
  Factor[ $\frac{T^2}{T^2 - 1} \partial_T \omega$ ],
  Factor[ $\frac{(T \partial_T (T \partial_T \omega)) - T \frac{T^2+1}{T^2-1} \partial_T \omega}{\frac{2(-1+T)^2(1+T)^2}{T^2}}$ ],
  ρ1 = Factor[ $\frac{(Z[[2, 4, 2]] /. a | x | y -> 0) - T \omega^3 \partial_T \omega}{T^{-1} (T - 1)^2 \omega^2}$ ],
  (*Factor[-T Coefficient[Z[[2,4,2]],x y]/(2(1+T)ω³)],*)
  (*P=Z[[2,4,3]]/.a|x|y->0; Factor[ $\frac{TP}{(T-1)\omega^4}$ ],*)
  Factor[T Coefficient[Z[[2, 4, 3]], x² y²] / ω⁶],
  Knot[n, k] /. OverbayP2Data
};
```

tab1 // MatrixForm

(Alt) Out[]//MatrixForm=

3 ₁	$\frac{1-T+T^2}{T}$	1	0
4 ₁	$-\frac{1-3T+T^2}{T}$	-1	0
5 ₁	$\frac{1-T+T^2-T^3+T^4}{T^2}$	$\frac{2-T+2T^2}{T}$	1
5 ₂	$\frac{2-3T+2T^2}{T}$	2	0
6 ₁	$-\frac{(-2+T)(-1+2T)}{T}$	-2	0
6 ₂	$-\frac{1-3T+3T^2-3T^3+T^4}{T^2}$	$-\frac{2-3T+2T^2}{T}$	-1
6 ₃	$\frac{1-3T+5T^2-3T^3+T^4}{T^2}$	$\frac{2-3T+2T^2}{T}$	1
7 ₁	$\frac{1-T+T^2-T^3+T^4-T^5+T^6}{T^3}$	$\frac{3-2T+4T^2-2T^3+3T^4}{T^2}$	$\frac{3-T+3T^2}{T}$
7 ₂	$\frac{3-5T+3T^2}{T}$	3	0
7 ₃	$\frac{2-3T+3T^2-3T^3+2T^4}{T^2}$	$\frac{4-3T+4T^2}{T}$	2
7 ₄	$\frac{4-7T+4T^2}{T}$	4	0
7 ₅	$\frac{2-4T+5T^2-4T^3+2T^4}{T^2}$	$\frac{4(1-T+T^2)}{T}$	2
7 ₆	$-\frac{1-5T+7T^2-5T^3+T^4}{T^2}$	$-\frac{(-2+T)(-1+2T)}{T}$	-1
7 ₇	$\frac{1-5T+9T^2-5T^3+T^4}{T^2}$	$\frac{(-2+T)(-1+2T)}{T}$	1
8 ₁	$-\frac{3-7T+3T^2}{T}$	-3	0
8 ₂	$-\frac{1-3T+3T^2-3T^3+3T^4-3T^5+T^6}{T^3}$	$-\frac{3(-1+T)^2(1+T^2)}{T^2}$	$-\frac{3(1-T+T^2)}{T}$
8 ₃	$-\frac{4-9T+4T^2}{T}$	-4	0
8 ₄	$-\frac{2-5T+5T^2-5T^3+2T^4}{T^2}$	$-\frac{4-5T+4T^2}{T}$	-2
8 ₅	$-\frac{(1-T+T^2)(1-2T+T^2-2T^3+T^4)}{T^3}$	$-\frac{3-6T+7T^2-6T^3+3T^4}{T^2}$	$-\frac{3(1-T+T^2)}{T}$
8 ₆	$-\frac{2-6T+7T^2-6T^3+2T^4}{T^2}$	$-\frac{2(2-3T+2T^2)}{T}$	-2
8 ₇	$\frac{1-3T+5T^2-5T^3+5T^4-3T^5+T^6}{T^3}$	$\frac{3-6T+8T^2-6T^3+3T^4}{T^2}$	$\frac{3(1-T+T^2)}{T}$
∞	$(2-2T+T^2)(1-2T+2T^2)$	$2(2-3T+2T^2)$	∞

8 ₈	$\frac{T^2}{(-1+T-2T^2+T^3)(-1+2T-T^2+T^3)}$	$\frac{T}{3-6T+8T^2-6T^3+3T^4}$	$\frac{4}{3(1-T+T^2)}$
8 ₉	$\frac{(1-T+T^2)^3}{T^3}$	$\frac{3(1-T+T^2)^2}{T^2}$	$\frac{3(1-T+T^2)}{T}$
8 ₁₀	$\frac{(-2+T)(-1+2T)(1-T+T^2)}{T^2}$	$\frac{4-7T+4T^2}{T}$	-2
8 ₁₁	$\frac{1-7T+13T^2-7T^3+T^4}{T^2}$	$\frac{2-7T+2T^2}{T}$	1
8 ₁₂	$\frac{2-7T+11T^2-7T^3+2T^4}{T^2}$	$\frac{4-7T+4T^2}{T}$	2
8 ₁₃	$\frac{2-8T+11T^2-8T^3+2T^4}{T^2}$	$\frac{4(-1+T)^2}{T}$	-2
8 ₁₄	$\frac{(1-T+T^2)(3-5T+3T^2)}{T^2}$	$\frac{2(3-4T+3T^2)}{T}$	3
8 ₁₅	$\frac{1-4T+8T^2-9T^3+8T^4-4T^5+T^6}{T^3}$	$\frac{(1-T+T^2)(3-5T+3T^2)}{T^2}$	$\frac{3-4T+3T^2}{T}$
8 ₁₆	$\frac{1-4T+8T^2-11T^3+8T^4-4T^5+T^6}{T^3}$	$\frac{(1-T+T^2)(3-5T+3T^2)}{T^2}$	$\frac{3-4T+3T^2}{T}$
8 ₁₇	$\frac{(1-3T+T^2)(1-T+T^2)^2}{T^3}$	$\frac{(1-T+T^2)(3-7T+3T^2)}{T^2}$	$\frac{3-5T+3T^2}{T}$
8 ₁₈	$\frac{(1-T+T^2)(1-T^2+T^4)}{T^3}$	$\frac{3-2T+3T^2-2T^3+3T^4}{T^2}$	$\frac{3-T+3T^2}{T}$
8 ₁₉	$\frac{(1-T+T^2)^2}{T^2}$	$\frac{2(1-T+T^2)}{T}$	1
8 ₂₀	$\frac{(1-3T+T^2)(1-T+T^2)}{T^2}$	$\frac{2(-1+T)^2}{T}$	-1
9 ₁	$\frac{(1-T+T^2)(1-T^3+T^6)}{T^4}$	$\frac{4-3T+6T^2-4T^3+6T^4-3T^5+4T^6}{T^3}$	$\frac{3(1-T+T^2)(2+T+2T^2)}{T^2}$
9 ₂	$\frac{4-7T+4T^2}{T}$	4	0
9 ₃	$\frac{2-3T+3T^2-3T^3+3T^4-3T^5+2T^6}{T^3}$	$\frac{3(2-2T+3T^2-2T^3+2T^4)}{T^2}$	$\frac{3(2-T+2T^2)}{T}$
9 ₄	$\frac{3-5T+5T^2-5T^3+3T^4}{T^2}$	$\frac{6-5T+6T^2}{T}$	3
9 ₅	$\frac{6-11T+6T^2}{T}$	6	0
9 ₆	$\frac{(1-T+T^2)(2-2T+T^2-2T^3+2T^4)}{T^3}$	$\frac{6-8T+11T^2-8T^3+6T^4}{T^2}$	$\frac{2(3-2T+3T^2)}{T}$
9 ₇	$\frac{3-7T+9T^2-7T^3+3T^4}{T^2}$	$\frac{6-7T+6T^2}{T}$	3
9 ₈	$\frac{2-8T+11T^2-8T^3+2T^4}{T^2}$	$\frac{4(-1+T)^2}{T}$	-2
9 ₉	$\frac{2-4T+6T^2-7T^3+6T^4-4T^5+2T^6}{T^3}$	$\frac{2(1+T^2)(3-4T+3T^2)}{T^2}$	$\frac{2(3-2T+3T^2)}{T}$
9 ₁₀	$\frac{4-8T+9T^2-8T^3+4T^4}{T^2}$	$\frac{8(1-T+T^2)}{T}$	4
9 ₁₁	$\frac{1-5T+7T^2-7T^3+7T^4-5T^5+T^6}{T^3}$	$\frac{3-10T+10T^2-10T^3+3T^4}{T^2}$	$\frac{3-5T+3T^2}{T}$
9 ₁₂	$\frac{(1-3T+T^2)(2-3T+2T^2)}{T^2}$	$\frac{4-9T+4T^2}{T}$	-2
9 ₁₃	$\frac{4-9T+11T^2-9T^3+4T^4}{T^2}$	$\frac{8-9T+8T^2}{T}$	4
9 ₁₄	$\frac{2-9T+15T^2-9T^3+2T^4}{T^2}$	$\frac{4-9T+4T^2}{T}$	2
9 ₁₅	$\frac{2-10T+15T^2-10T^3+2T^4}{T^2}$	$\frac{2(-2+T)(-1+2T)}{T}$	-2
9 ₁₆	$\frac{(1-T+T^2)(2-3T+3T^2-3T^3+2T^4)}{T^3}$	$\frac{2(3-5T+7T^2-5T^3+3T^4)}{T^2}$	$\frac{6-5T+6T^2}{T}$
9 ₁₇	$\frac{1-5T+9T^2-9T^3+9T^4-5T^5+T^6}{T^3}$	$\frac{3-10T+12T^2-10T^3+3T^4}{T^2}$	$\frac{3-5T+3T^2}{T}$
9 ₁₈	$\frac{4-10T+13T^2-10T^3+4T^4}{T^2}$	$\frac{2(4-5T+4T^2)}{T}$	4
9 ₁₉	$\frac{2-10T+17T^2-10T^3+2T^4}{T^2}$	$\frac{2(-2+T)(-1+2T)}{T}$	2

9 ₂₀	$-\frac{1-5T+9T^2-11T^3+9T^4-5T^5+T^6}{T^3}$	$-\frac{3-10T+12T^2-10T^3+3T^4}{T^2}$	$-\frac{3-5T+3T^2}{T}$
9 ₂₁	$-\frac{2-11T+17T^2-11T^3+2T^4}{T^2}$	$-\frac{4-11T+4T^2}{T}$	-2
9 ₂₂	$\frac{1-5T+10T^2-11T^3+10T^4-5T^5+T^6}{T^3}$	$\frac{(1-T+T^2)(3-7T+3T^2)}{T^2}$	$\frac{3-5T+3T^2}{T}$
9 ₂₃	$\frac{(1-T+T^2)(4-7T+4T^2)}{T^2}$	$\frac{8-11T+8T^2}{T}$	4
9 ₂₄	$-\frac{(1-3T+T^2)(1-T+T^2)^2}{T^3}$	$-\frac{(1-T+T^2)(3-7T+3T^2)}{T^2}$	$-\frac{3-5T+3T^2}{T}$
9 ₂₅	$-\frac{3-12T+17T^2-12T^3+3T^4}{T^2}$	$-\frac{6(-1+T)^2}{T}$	-3
9 ₂₆	$\frac{1-5T+11T^2-13T^3+11T^4-5T^5+T^6}{T^3}$	$\frac{(-1+T)^2(3-4T+3T^2)}{T^2}$	$\frac{3-5T+3T^2}{T}$
9 ₂₇	$-\frac{(-1+2T-3T^2+T^3)(-1+3T-2T^2+T^3)}{T^3}$	$-\frac{(-1+T)^2(3-4T+3T^2)}{T^2}$	$-\frac{3-5T+3T^2}{T}$
9 ₂₈	$\frac{(1-T+T^2)(1-4T+7T^2-4T^3+T^4)}{T^3}$	$\frac{3-10T+15T^2-10T^3+3T^4}{T^2}$	$\frac{3-5T+3T^2}{T}$
9 ₂₉	$\frac{(1-T+T^2)(1-4T+7T^2-4T^3+T^4)}{T^3}$	$\frac{3-10T+15T^2-10T^3+3T^4}{T^2}$	$\frac{3-5T+3T^2}{T}$
9 ₃₀	$-\frac{1-5T+12T^2-17T^3+12T^4-5T^5+T^6}{T^3}$	$-\frac{3-10T+15T^2-10T^3+3T^4}{T^2}$	$-\frac{3-5T+3T^2}{T}$
9 ₃₁	$\frac{1-5T+13T^2-17T^3+13T^4-5T^5+T^6}{T^3}$	$\frac{3-10T+16T^2-10T^3+3T^4}{T^2}$	$\frac{3-5T+3T^2}{T}$
9 ₃₂	$\frac{1-6T+14T^2-17T^3+14T^4-6T^5+T^6}{T^3}$	$\frac{3-12T+17T^2-12T^3+3T^4}{T^2}$	$\frac{3(-1+T)^2}{T}$
9 ₃₃	$-\frac{1-6T+14T^2-19T^3+14T^4-6T^5+T^6}{T^3}$	$-\frac{3-12T+17T^2-12T^3+3T^4}{T^2}$	$-\frac{3(-1+T)^2}{T}$
9 ₃₄	$-\frac{1-6T+16T^2-23T^3+16T^4-6T^5+T^6}{T^3}$	$-\frac{(3-3T+T^2)(1-3T+3T^2)}{T^2}$	$-\frac{3(-1+T)^2}{T}$
9 ₃₅	$\frac{7-13T+7T^2}{T}$	7	0
9 ₃₆	$-\frac{1-5T+8T^2-9T^3+8T^4-5T^5+T^6}{T^3}$	$-\frac{3-10T+11T^2-10T^3+3T^4}{T^2}$	$-\frac{3-5T+3T^2}{T}$
9 ₃₇	$\frac{(-2+T)(-1+2T)(1-3T+T^2)}{T^2}$	$\frac{4-11T+4T^2}{T}$	2
9 ₃₈	$\frac{(1-T+T^2)(5-9T+5T^2)}{T^2}$	$\frac{2(5-7T+5T^2)}{T}$	5
9 ₃₉	$-\frac{(1-3T+T^2)(3-5T+3T^2)}{T^2}$	$-\frac{2(3-7T+3T^2)}{T}$	-3
9 ₄₀	$\frac{(1-3T+T^2)^2(1-T+T^2)}{T^3}$	$\frac{(1-3T+T^2)(3-5T+3T^2)}{T^2}$	$\frac{3-7T+3T^2}{T}$
9 ₄₁	$\frac{(3-3T+T^2)(1-3T+3T^2)}{T^2}$	$\frac{6(-1+T)^2}{T}$	3
9 ₄₂	$-\frac{1-2T+T^2-2T^3+T^4}{T^2}$	$-\frac{2(1-T+T^2)}{T}$	-1
9 ₄₃	$-\frac{1-3T+2T^2-T^3+2T^4-3T^5+T^6}{T^3}$	$-\frac{3-6T+5T^2-6T^3+3T^4}{T^2}$	$-\frac{3(1-T+T^2)}{T}$
9 ₄₄	$\frac{1-4T+7T^2-4T^3+T^4}{T^2}$	$\frac{2(-1+T)^2}{T}$	1
9 ₄₅	$-\frac{1-6T+9T^2-6T^3+T^4}{T^2}$	$-\frac{2(1-3T+T^2)}{T}$	-1
9 ₄₆	$-\frac{(-2+T)(-1+2T)}{T}$	-2	0
9 ₄₇	$\frac{1-4T+6T^2-5T^3+6T^4-4T^5+T^6}{T^3}$	$\frac{3-8T+9T^2-8T^3+3T^4}{T^2}$	$\frac{3-4T+3T^2}{T}$
9 ₄₈	$-\frac{1-7T+11T^2-7T^3+T^4}{T^2}$	$-\frac{2-7T+2T^2}{T}$	-1
9 ₄₉	$\frac{3-6T+7T^2-6T^3+3T^4}{T^2}$	$\frac{6(1-T+T^2)}{T}$	3
10 ₁	$-\frac{4-9T+4T^2}{T}$	-4	0
10 ₂	$-\frac{1-3T+3T^2-3T^3+3T^4-3T^5+3T^6-3T^7+T^8}{T^4}$	$-\frac{4-9T+10T^2-12T^3+10T^4-9T^5+4T^6}{T^3}$	$-\frac{6-9T+11T^2-9T^3+6T^4}{T^2}$
10 ₃	$-\frac{(-3+2T)(-2+3T)}{T}$	-6	0

10 ₄	$-\frac{3-7T+7T^2-7T^3+3T^4}{T^2}$	$-\frac{6-7T+6T^2}{T}$	-3	
10 ₅	$\frac{(1-T+T^2)(1-2T+2T^2-T^3+2T^4-2T^5+T^6)}{T^4}$	$\frac{4-9T+14T^2-14T^3+14T^4-9T^5+4T^6}{T^3}$	$\frac{6-9T+13T^2-9T^3+6T^4}{T^2}$	$2-8T+26T^2$
10 ₆	$-\frac{2-6T+7T^2-7T^3+7T^4-6T^5+2T^6}{T^3}$	$-\frac{6-12T+13T^2-12T^3+6T^4}{T^2}$	$-\frac{6(1-T+T^2)}{T}$	
10 ₇	$-\frac{3-11T+15T^2-11T^3+3T^4}{T^2}$	$-\frac{6-11T+6T^2}{T}$	-3	
10 ₈	$-\frac{2-5T+5T^2-5T^3+5T^4-5T^5+2T^6}{T^3}$	$-\frac{6-10T+11T^2-10T^3+6T^4}{T^2}$	$-\frac{6-5T+6T^2}{T}$	
10 ₉	$-\frac{(1-T+T^2)(1-2T+2T^2-3T^3+2T^4-2T^5+T^6)}{T^4}$	$-\frac{4-9T+14T^2-16T^3+14T^4-9T^5+4T^6}{T^3}$	$-\frac{6-9T+13T^2-9T^3+6T^4}{T^2}$	$1-4T+11T^2$
10 ₁₀	$\frac{3-11T+17T^2-11T^3+3T^4}{T^2}$	$\frac{6-11T+6T^2}{T}$	3	
10 ₁₁	$-\frac{4-11T+13T^2-11T^3+4T^4}{T^2}$	$-\frac{8-11T+8T^2}{T}$	-4	
10 ₁₂	$\frac{2-6T+10T^2-11T^3+10T^4-6T^5+2T^6}{T^3}$	$\frac{2(3-6T+8T^2-6T^3+3T^4)}{T^2}$	$\frac{6(1-T+T^2)}{T}$	
10 ₁₃	$\frac{2-13T+23T^2-13T^3+2T^4}{T^2}$	$\frac{4-13T+4T^2}{T}$	2	
10 ₁₄	$-\frac{2-8T+12T^2-13T^3+12T^4-8T^5+2T^6}{T^3}$	$-\frac{2(3-8T+9T^2-8T^3+3T^4)}{T^2}$	$-\frac{2(3-4T+3T^2)}{T}$	
10 ₁₅	$\frac{2-6T+9T^2-9T^3+9T^4-6T^5+2T^6}{T^3}$	$\frac{3(2-4T+5T^2-4T^3+2T^4)}{T^2}$	$\frac{6(1-T+T^2)}{T}$	
10 ₁₆	$-\frac{4-12T+15T^2-12T^3+4T^4}{T^2}$	$-\frac{4(2-3T+2T^2)}{T}$	-4	
10 ₁₇	$\frac{1-3T+5T^2-7T^3+9T^4-7T^5+5T^6-3T^7+T^8}{T^4}$	$\frac{4-9T+14T^2-16T^3+14T^4-9T^5+4T^6}{T^3}$	$\frac{6-9T+13T^2-9T^3+6T^4}{T^2}$	
10 ₁₈	$-\frac{4-14T+19T^2-14T^3+4T^4}{T^2}$	$-\frac{2(4-7T+4T^2)}{T}$	-4	
10 ₁₉	$\frac{2-7T+11T^2-11T^3+11T^4-7T^5+2T^6}{T^3}$	$\frac{6-14T+17T^2-14T^3+6T^4}{T^2}$	$\frac{6-7T+6T^2}{T}$	
10 ₂₀	$-\frac{3-9T+11T^2-9T^3+3T^4}{T^2}$	$-\frac{3(2-3T+2T^2)}{T}$	-3	
10 ₂₁	$-\frac{(-2+T)(-1+2T)(1-T+T^2-T^3+T^4)}{T^3}$	$-\frac{6-14T+15T^2-14T^3+6T^4}{T^2}$	$-\frac{6-7T+6T^2}{T}$	
10 ₂₂	$-\frac{(-2+2T-2T^2+T^3)(-1+2T-2T^2+2T^3)}{T^3}$	$-\frac{2(3-6T+8T^2-6T^3+3T^4)}{T^2}$	$-\frac{6(1-T+T^2)}{T}$	
10 ₂₃	$\frac{2-7T+13T^2-15T^3+13T^4-7T^5+2T^6}{T^3}$	$\frac{6-14T+19T^2-14T^3+6T^4}{T^2}$	$\frac{6-7T+6T^2}{T}$	
10 ₂₄	$-\frac{4-14T+19T^2-14T^3+4T^4}{T^2}$	$-\frac{2(4-7T+4T^2)}{T}$	-4	
10 ₂₅	$-\frac{2-8T+14T^2-17T^3+14T^4-8T^5+2T^6}{T^3}$	$-\frac{2(-1+T)^2(3-2T+3T^2)}{T^2}$	$-\frac{2(3-4T+3T^2)}{T}$	
10 ₂₆	$-\frac{2-7T+13T^2-17T^3+13T^4-7T^5+2T^6}{T^3}$	$-\frac{6-14T+19T^2-14T^3+6T^4}{T^2}$	$-\frac{6-7T+6T^2}{T}$	
10 ₂₇	$\frac{2-8T+16T^2-19T^3+16T^4-8T^5+2T^6}{T^3}$	$\frac{2(1-T+T^2)(3-5T+3T^2)}{T^2}$	$\frac{2(3-4T+3T^2)}{T}$	
10 ₂₈	$\frac{4-13T+19T^2-13T^3+4T^4}{T^2}$	$\frac{8-13T+8T^2}{T}$	4	
10 ₂₉	$\frac{1-7T+15T^2-17T^3+15T^4-7T^5+T^6}{T^3}$	$\frac{3-14T+18T^2-14T^3+3T^4}{T^2}$	$\frac{3-7T+3T^2}{T}$	
10 ₃₀	$-\frac{4-17T+25T^2-17T^3+4T^4}{T^2}$	$-\frac{8-17T+8T^2}{T}$	-4	
10 ₃₁	$\frac{4-14T+21T^2-14T^3+4T^4}{T^2}$	$\frac{2(4-7T+4T^2)}{T}$	4	
10 ₃₂	$-\frac{(1-T+T^2)(2-6T+7T^2-6T^3+2T^4)}{T^3}$	$-\frac{6-16T+21T^2-16T^3+6T^4}{T^2}$	$-\frac{2(3-4T+3T^2)}{T}$	
10 ₃₃	$\frac{4-16T+25T^2-16T^3+4T^4}{T^2}$	$\frac{8(-1+T)^2}{T}$	4	
10 ₃₄	$\frac{3-9T+13T^2-9T^3+3T^4}{T^2}$	$\frac{3(2-3T+2T^2)}{T}$	3	
10 ₃₅	$\frac{(2-4T+T^2)(1-4T+2T^2)}{T^2}$	$\frac{4(1-3T+T^2)}{T}$	2	
10 ₃₆	$-\frac{3-13T+19T^2-13T^3+3T^4}{T^2}$	$-\frac{(-3+2T)(-2+3T)}{T}$	-3	

10 ₃₇	$\frac{4-13T+19T^2-13T^3+4T^4}{T^2}$	$\frac{8-13T+8T^2}{T}$	4
10 ₃₈	$-\frac{4-15T+21T^2-15T^3+4T^4}{T^2}$	$-\frac{8-15T+8T^2}{T}$	-4
10 ₃₉	$-\frac{2-8T+13T^2-15T^3+13T^4-8T^5+2T^6}{T^3}$	$-\frac{6-16T+19T^2-16T^3+6T^4}{T^2}$	$-\frac{2(3-4T+3T^2)}{T}$
10 ₄₀	$\frac{(2-2T+T^2)(1-T+T^2)(1-2T+2T^2)}{T^3}$	$\frac{6-16T+23T^2-16T^3+6T^4}{T^2}$	$\frac{2(3-4T+3T^2)}{T}$
10 ₄₁	$\frac{1-7T+17T^2-21T^3+17T^4-7T^5+T^6}{T^3}$	$\frac{3-14T+20T^2-14T^3+3T^4}{T^2}$	$\frac{3-7T+3T^2}{T}$
10 ₄₂	$-\frac{(-1+3T-4T^2+T^3)(-1+4T-3T^2+T^3)}{T^3}$	$-\frac{(-1+T)^2(3-8T+3T^2)}{T^2}$	$-\frac{3-7T+3T^2}{T}$
10 ₄₃	$-\frac{1-7T+17T^2-23T^3+17T^4-7T^5+T^6}{T^3}$	$-\frac{3-14T+20T^2-14T^3+3T^4}{T^2}$	$-\frac{3-7T+3T^2}{T}$
10 ₄₄	$\frac{1-7T+19T^2-25T^3+19T^4-7T^5+T^6}{T^3}$	$\frac{(-1+T)^2(3-8T+3T^2)}{T^2}$	$\frac{3-7T+3T^2}{T}$
10 ₄₅	$-\frac{1-7T+21T^2-31T^3+21T^4-7T^5+T^6}{T^3}$	$-\frac{3-14T+24T^2-14T^3+3T^4}{T^2}$	$-\frac{3-7T+3T^2}{T}$
10 ₄₆	$-\frac{1-3T+4T^2-5T^3+5T^4-5T^5+4T^6-3T^7+T^8}{T^4}$	$-\frac{(-1+T)^2(4-T+6T^2-T^3+4T^4)}{T^3}$	$-\frac{3(1+T^2)(2-3T+2T^2)}{T^2}$ 3-12T+21
10 ₄₇	$\frac{1-3T+6T^2-7T^3+7T^4-7T^5+6T^6-3T^7+T^8}{T^4}$	$\frac{4-9T+16T^2-16T^3+16T^4-9T^5+4T^6}{T^3}$	$\frac{6-9T+14T^2-9T^3+6T^4}{T^2}$ 2-8T+21
10 ₄₈	$\frac{(1-T+2T^2-2T^3+T^4)(1-2T+2T^2-T^3+T^4)}{T^4}$	$\frac{(1+T^2)(4-9T+12T^2-9T^3+4T^4)}{T^3}$	$\frac{6-9T+14T^2-9T^3+6T^4}{T^2}$
10 ₄₉	$\frac{3-8T+12T^2-13T^3+12T^4-8T^5+3T^6}{T^3}$	$\frac{9-16T+21T^2-16T^3+9T^4}{T^2}$	$\frac{9-8T+9T^2}{T}$ 2
10 ₅₀	$-\frac{2-7T+11T^2-13T^3+11T^4-7T^5+2T^6}{T^3}$	$-\frac{6-14T+17T^2-14T^3+6T^4}{T^2}$	$-\frac{6-7T+6T^2}{T}$
10 ₅₁	$\frac{2-7T+15T^2-19T^3+15T^4-7T^5+2T^6}{T^3}$	$\frac{6-14T+21T^2-14T^3+6T^4}{T^2}$	$\frac{6-7T+6T^2}{T}$
10 ₅₂	$\frac{2-7T+13T^2-15T^3+13T^4-7T^5+2T^6}{T^3}$	$\frac{6-14T+19T^2-14T^3+6T^4}{T^2}$	$\frac{6-7T+6T^2}{T}$
10 ₅₃	$\frac{6-18T+25T^2-18T^3+6T^4}{T^2}$	$\frac{6(2-3T+2T^2)}{T}$	6
10 ₅₄	$\frac{2-6T+10T^2-11T^3+10T^4-6T^5+2T^6}{T^3}$	$\frac{2(3-6T+8T^2-6T^3+3T^4)}{T^2}$	$\frac{6(1-T+T^2)}{T}$
10 ₅₅	$\frac{5-15T+21T^2-15T^3+5T^4}{T^2}$	$\frac{5(2-3T+2T^2)}{T}$	5
10 ₅₆	$-\frac{2-8T+14T^2-17T^3+14T^4-8T^5+2T^6}{T^3}$	$-\frac{2(-1+T)^2(3-2T+3T^2)}{T^2}$	$-\frac{2(3-4T+3T^2)}{T}$
10 ₅₇	$\frac{2-8T+18T^2-23T^3+18T^4-8T^5+2T^6}{T^3}$	$\frac{2(3-8T+12T^2-8T^3+3T^4)}{T^2}$	$\frac{2(3-4T+3T^2)}{T}$
10 ₅₈	$\frac{(1-3T+T^2)(3-7T+3T^2)}{T^2}$	$\frac{2(3-8T+3T^2)}{T}$	3
10 ₅₉	$\frac{(1-3T+T^2)^2(1-T+T^2)}{T^3}$	$\frac{(1-3T+T^2)(3-5T+3T^2)}{T^2}$	$\frac{3-7T+3T^2}{T}$
10 ₆₀	$-\frac{(1-3T+T^2)(1-4T+7T^2-4T^3+T^4)}{T^3}$	$-\frac{3-14T+23T^2-14T^3+3T^4}{T^2}$	$-\frac{3-7T+3T^2}{T}$
10 ₆₁	$-\frac{(1-T+T^2)(2-3T+T^2-3T^3+2T^4)}{T^3}$	$-\frac{2(1+T^2)(3-5T+3T^2)}{T^2}$	$-\frac{6-5T+6T^2}{T}$
10 ₆₂	$\frac{(1-T+T^2)^2(1-T+T^2-T^3+T^4)}{T^4}$	$\frac{(1-T+T^2)(4-5T+7T^2-5T^3+4T^4)}{T^3}$	$\frac{6-9T+14T^2-9T^3+6T^4}{T^2}$ (1+T
10 ₆₃	$\frac{(1-T+T^2)(5-9T+5T^2)}{T^2}$	$\frac{2(5-7T+5T^2)}{T}$	5
10 ₆₄	$-\frac{(1-T+T^2)(1-2T+3T^2-5T^3+3T^4-2T^5+T^6)}{T^4}$	$-\frac{4-9T+16T^2-19T^3+16T^4-9T^5+4T^6}{T^3}$	$-\frac{6-9T+14T^2-9T^3+6T^4}{T^2}$ (1+T ²
10 ₆₅	$\frac{(1-T+T^2)^2(2-3T+2T^2)}{T^3}$	$\frac{2(1-T+T^2)(3-4T+3T^2)}{T^2}$	$\frac{6-7T+6T^2}{T}$
10 ₆₆	$\frac{(1-T+T^2)(3-6T+7T^2-6T^3+3T^4)}{T^3}$	$\frac{9-18T+25T^2-18T^3+9T^4}{T^2}$	$\frac{9(1-T+T^2)}{T}$
10 ₆₇	$-\frac{(-2+T)(-1+2T)(2-3T+2T^2)}{T^2}$	$-\frac{8(-1+T)^2}{T}$	-4
10 ₆₈	$\frac{4-14T+21T^2-14T^3+4T^4}{T^2}$	$\frac{2(4-7T+4T^2)}{T}$	4

10 ₆₉	$\frac{1-7T+21T^2-29T^3+21T^4-7T^5+T^6}{T^3}$	$\frac{3-14T+24T^2-14T^3+3T^4}{T^2}$	$\frac{3-7T+3T^2}{T}$
10 ₇₀	$\frac{1-7T+16T^2-19T^3+16T^4-7T^5+T^6}{T^3}$	$\frac{3-14T+19T^2-14T^3+3T^4}{T^2}$	$\frac{3-7T+3T^2}{T}$
10 ₇₁	$-\frac{1-7T+18T^2-25T^3+18T^4-7T^5+T^6}{T^3}$	$-\frac{(1-3T+T^2)(3-5T+3T^2)}{T^2}$	$-\frac{3-7T+3T^2}{T}$
10 ₇₂	$-\frac{2-9T+16T^2-19T^3+16T^4-9T^5+2T^6}{T^3}$	$-\frac{2(3-9T+11T^2-9T^3+3T^4)}{T^2}$	$-\frac{3(2-3T+2T^2)}{T}$
10 ₇₃	$\frac{1-7T+20T^2-27T^3+20T^4-7T^5+T^6}{T^3}$	$\frac{3-14T+23T^2-14T^3+3T^4}{T^2}$	$\frac{3-7T+3T^2}{T}$
10 ₇₄	$-\frac{(-2+T)(-1+2T)(2-3T+2T^2)}{T^2}$	$-\frac{8(-1+T)^2}{T}$	-4
10 ₇₅	$-\frac{(-1+3T-4T^2+T^3)(-1+4T-3T^2+T^3)}{T^3}$	$-\frac{(-1+T)^2(3-8T+3T^2)}{T^2}$	$-\frac{3-7T+3T^2}{T}$
10 ₇₆	$-\frac{(1-T+T^2)(2-5T+5T^2-5T^3+2T^4)}{T^3}$	$-\frac{2(3-7T+9T^2-7T^3+3T^4)}{T^2}$	$-\frac{6-7T+6T^2}{T}$
10 ₇₇	$\frac{(1-T+T^2)^2(2-3T+2T^2)}{T^3}$	$\frac{2(1-T+T^2)(3-4T+3T^2)}{T^2}$	$\frac{6-7T+6T^2}{T}$
10 ₇₈	$-\frac{(1-T+T^2)(1-6T+9T^2-6T^3+T^4)}{T^3}$	$-\frac{3-14T+19T^2-14T^3+3T^4}{T^2}$	$-\frac{3-7T+3T^2}{T}$
10 ₇₉	$\frac{1-3T+7T^2-12T^3+15T^4-12T^5+7T^6-3T^7+T^8}{T^4}$	$\frac{4-9T+18T^2-21T^3+18T^4-9T^5+4T^6}{T^3}$	$\frac{3(1-T+T^2)(2-T+2T^2)}{T^2}$
10 ₈₀	$\frac{3-9T+15T^2-17T^3+15T^4-9T^5+3T^6}{T^3}$	$\frac{3(3-6T+8T^2-6T^3+3T^4)}{T^2}$	$\frac{9(1-T+T^2)}{T}$
10 ₈₁	$-\frac{1-8T+20T^2-27T^3+20T^4-8T^5+T^6}{T^3}$	$-\frac{3-16T+23T^2-16T^3+3T^4}{T^2}$	$-\frac{3-8T+3T^2}{T}$
10 ₈₂	$-\frac{(1-T+T^2)^2(1-2T+T^2-2T^3+T^4)}{T^4}$	$-\frac{4(-1+T)^2(1+T^2)(1-T+T^2)}{T^3}$	$-\frac{2(3-6T+8T^2-6T^3+3T^4)}{T^2}$
10 ₈₃	$\frac{2-9T+19T^2-23T^3+19T^4-9T^5+2T^6}{T^3}$	$\frac{6-18T+25T^2-18T^3+6T^4}{T^2}$	$\frac{3(2-3T+2T^2)}{T}$
10 ₈₄	$\frac{(1-T+T^2)(2-7T+11T^2-7T^3+2T^4)}{T^3}$	$\frac{2(3-9T+13T^2-9T^3+3T^4)}{T^2}$	$\frac{3(2-3T+2T^2)}{T}$
10 ₈₅	$\frac{(1-T+T^2)(1-3T+4T^2-3T^3+4T^4-3T^5+T^6)}{T^4}$	$\frac{2(2-6T+10T^2-11T^3+10T^4-6T^5+2T^6)}{T^3}$	$\frac{2(3-6T+8T^2-6T^3+3T^4)}{T^2}$ $-\frac{2-12T+36T^2}{T}$
10 ₈₆	$-\frac{2-9T+19T^2-25T^3+19T^4-9T^5+2T^6}{T^3}$	$-\frac{6-18T+25T^2-18T^3+6T^4}{T^2}$	$-\frac{3(2-3T+2T^2)}{T}$
10 ₈₇	$-\frac{(-2+T)(-1+2T)(1-T+T^2)^2}{T^3}$	$-\frac{6(-1+T)^2(1-T+T^2)}{T^2}$	$-\frac{3(2-3T+2T^2)}{T}$
10 ₈₈	$-\frac{1-8T+24T^2-35T^3+24T^4-8T^5+T^6}{T^3}$	$-\frac{(1-3T+T^2)(3-7T+3T^2)}{T^2}$	$-\frac{3-8T+3T^2}{T}$
10 ₈₉	$\frac{1-8T+24T^2-33T^3+24T^4-8T^5+T^6}{T^3}$	$\frac{(1-3T+T^2)(3-7T+3T^2)}{T^2}$	$\frac{3-8T+3T^2}{T}$
10 ₉₀	$-\frac{2-8T+17T^2-23T^3+17T^4-8T^5+2T^6}{T^3}$	$-\frac{6-16T+23T^2-16T^3+6T^4}{T^2}$	$-\frac{2(3-4T+3T^2)}{T}$
10 ₉₁	$\frac{1-4T+9T^2-14T^3+17T^4-14T^5+9T^6-4T^7+T^8}{T^4}$	$\frac{2(1-T+T^2)(2-4T+5T^2-4T^3+2T^4)}{T^3}$	$\frac{6-12T+17T^2-12T^3+6T^4}{T^2}$
10 ₉₂	$-\frac{2-10T+20T^2-25T^3+20T^4-10T^5+2T^6}{T^3}$	$-\frac{2(1-T+T^2)(3-7T+3T^2)}{T^2}$	$-\frac{2(3-5T+3T^2)}{T}$
10 ₉₃	$\frac{2-8T+15T^2-17T^3+15T^4-8T^5+2T^6}{T^3}$	$\frac{6-16T+21T^2-16T^3+6T^4}{T^2}$	$\frac{2(3-4T+3T^2)}{T}$
10 ₉₄	$-\frac{1-4T+9T^2-14T^3+15T^4-14T^5+9T^6-4T^7+T^8}{T^4}$	$-\frac{2(1-T+T^2)(2-4T+5T^2-4T^3+2T^4)}{T^3}$	$-\frac{6-12T+17T^2-12T^3+6T^4}{T^2}$ $(1-T+T^2)$
10 ₉₅	$\frac{(2-3T+2T^2)(1-3T+5T^2-3T^3+T^4)}{T^3}$	$\frac{3(2-2T+T^2)(1-2T+2T^2)}{T^2}$	$\frac{3(2-3T+2T^2)}{T}$
10 ₉₆	$-\frac{1-7T+22T^2-33T^3+22T^4-7T^5+T^6}{T^3}$	$-\frac{3-14T+25T^2-14T^3+3T^4}{T^2}$	$-\frac{3-7T+3T^2}{T}$
10 ₉₇	$-\frac{5-22T+33T^2-22T^3+5T^4}{T^2}$	$-\frac{2(5-11T+5T^2)}{T}$	-5
10 ₉₈	$-\frac{(-2+T)(-1+2T)(1-T+T^2)^2}{T^3}$	$-\frac{6(-1+T)^2(1-T+T^2)}{T^2}$	$-\frac{3(2-3T+2T^2)}{T}$
10 ₉₉	$\frac{(1-T+T^2)^4}{T^4}$	$\frac{4(1-T+T^2)^3}{T^3}$	$\frac{6(1-T+T^2)^2}{T^2}$
10 ₁₀₀	$\frac{(1-3T+5T^2-3T^3+T^4)(1-T+T^2-T^3+T^4)}{T^4}$	$\frac{2(1+T^2)(2-2T+T^2)(1-2T+2T^2)}{T^3}$	$\frac{6-12T+17T^2-12T^3+6T^4}{T^2}$ $-\frac{2-12T+39T^2}{T}$
10 ₁₀₁	$\frac{7-21T+29T^2-21T^3+7T^4}{T^3}$	$\frac{7(2-3T+2T^2)}{T^2}$	7

10 ₁₀₂	$-\frac{2-8T+16T^2-21T^3+16T^4-8T^5+2T^6}{T^3}$	$-\frac{2(1-T+T^2)(3-5T+3T^2)}{T^2}$	$-\frac{2(3-4T+3T^2)}{T}$	
10 ₁₀₃	$\frac{(2-2T+T^2)(1-T+T^2)(1-2T+2T^2)}{T^3}$	$\frac{6-16T+23T^2-16T^3+6T^4}{T^2}$	$\frac{2(3-4T+3T^2)}{T}$	
10 ₁₀₄	$\frac{1-4T+9T^2-15T^3+19T^4-15T^5+9T^6-4T^7+T^8}{T^4}$	$\frac{4-12T+22T^2-27T^3+22T^4-12T^5+4T^6}{T^3}$	$\frac{6-12T+17T^2-12T^3+6T^4}{T^2}$	
10 ₁₀₅	$\frac{1-8T+22T^2-29T^3+22T^4-8T^5+T^6}{T^3}$	$\frac{3-16T+25T^2-16T^3+3T^4}{T^2}$	$\frac{3-8T+3T^2}{T}$	
10 ₁₀₆	$-\frac{(1-T+T^2)(-1+T-2T^2+T^3)(-1+2T-T^2+T^3)}{T^4}$	$-\frac{4-12T+22T^2-27T^3+22T^4-12T^5+4T^6}{T^3}$	$-\frac{6-12T+17T^2-12T^3+6T^4}{T^2}$	$\frac{1-6T+20T}{T}$
10 ₁₀₇	$-\frac{1-8T+22T^2-31T^3+22T^4-8T^5+T^6}{T^3}$	$-\frac{3-16T+25T^2-16T^3+3T^4}{T^2}$	$-\frac{3-8T+3T^2}{T}$	
10 ₁₀₈	$\frac{2-8T+14T^2-15T^3+14T^4-8T^5+2T^6}{T^3}$	$\frac{2(-1+T)^2(3-2T+3T^2)}{T^2}$	$\frac{2(3-4T+3T^2)}{T}$	
10 ₁₀₉	$\frac{1-4T+10T^2-17T^3+21T^4-17T^5+10T^6-4T^7+T^8}{T^4}$	$\frac{4-12T+24T^2-29T^3+24T^4-12T^5+4T^6}{T^3}$	$\frac{6(1-T+T^2)^2}{T^2}$	
10 ₁₁₀	$\frac{1-8T+20T^2-25T^3+20T^4-8T^5+T^6}{T^3}$	$\frac{3-16T+23T^2-16T^3+3T^4}{T^2}$	$\frac{3-8T+3T^2}{T}$	
10 ₁₁₁	$-\frac{(2-3T+2T^2)(1-3T+3T^2-3T^3+T^4)}{T^3}$	$-\frac{6-18T+23T^2-18T^3+6T^4}{T^2}$	$-\frac{3(2-3T+2T^2)}{T}$	
10 ₁₁₂	$-\frac{(1-T+T^2)(1-4T+6T^2-7T^3+6T^4-4T^5+T^6)}{T^4}$	$-\frac{4-15T+26T^2-32T^3+26T^4-15T^5+4T^6}{T^3}$	$-\frac{6-15T+19T^2-15T^3+6T^4}{T^2}$	$-\frac{1-8T+29T}{T}$
10 ₁₁₃	$\frac{(1-T+T^2)(2-9T+15T^2-9T^3+2T^4)}{T^3}$	$\frac{2(-1+T)^2(3-5T+3T^2)}{T^2}$	$\frac{6-11T+6T^2}{T}$	
10 ₁₁₄	$-\frac{(1-T+T^2)(2-8T+11T^2-8T^3+2T^4)}{T^3}$	$-\frac{6-20T+27T^2-20T^3+6T^4}{T^2}$	$-\frac{2(3-5T+3T^2)}{T}$	
10 ₁₁₅	$-\frac{1-9T+26T^2-37T^3+26T^4-9T^5+T^6}{T^3}$	$-\frac{3-18T+29T^2-18T^3+3T^4}{T^2}$	$-\frac{3(1-3T+T^2)}{T}$	
10 ₁₁₆	$-\frac{1-5T+12T^2-19T^3+21T^4-19T^5+12T^6-5T^7+T^8}{T^4}$	$-\frac{(-1+T)^2(4-7T+10T^2-7T^3+4T^4)}{T^3}$	$-\frac{6-15T+20T^2-15T^3+6T^4}{T^2}$	
10 ₁₁₇	$\frac{2-10T+24T^2-31T^3+24T^4-10T^5+2T^6}{T^3}$	$\frac{2(3-10T+15T^2-10T^3+3T^4)}{T^2}$	$\frac{2(3-5T+3T^2)}{T}$	
10 ₁₁₈	$\frac{1-5T+12T^2-19T^3+23T^4-19T^5+12T^6-5T^7+T^8}{T^4}$	$\frac{(-1+T)^2(4-7T+10T^2-7T^3+4T^4)}{T^3}$	$\frac{6-15T+20T^2-15T^3+6T^4}{T^2}$	
10 ₁₁₉	$-\frac{2-10T+23T^2-31T^3+23T^4-10T^5+2T^6}{T^3}$	$-\frac{(3-4T+2T^2)(2-4T+3T^2)}{T^2}$	$-\frac{2(3-5T+3T^2)}{T}$	
10 ₁₂₀	$\frac{(2-3T+2T^2)(4-7T+4T^2)}{T^2}$	$\frac{2(8-13T+8T^2)}{T}$	8	
10 ₁₂₁	$\frac{2-11T+27T^2-35T^3+27T^4-11T^5+2T^6}{T^3}$	$\frac{6-22T+33T^2-22T^3+6T^4}{T^2}$	$\frac{6-11T+6T^2}{T}$	
10 ₁₂₂	$-\frac{(1-3T+T^2)(1-T+T^2)(2-3T+2T^2)}{T^3}$	$-\frac{2(3-11T+15T^2-11T^3+3T^4)}{T^2}$	$-\frac{6-11T+6T^2}{T}$	
10 ₁₂₃	$\frac{(1-3T+3T^2-3T^3+T^4)^2}{T^4}$	$\frac{2(2-3T+2T^2)(1-3T+3T^2-3T^3+T^4)}{T^3}$	$\frac{6-18T+23T^2-18T^3+6T^4}{T^2}$	
10 ₁₂₄	$\frac{1-T+T^3-T^4+T^5-T^7+T^8}{T^4}$	$\frac{4-3T+4T^2-2T^3+4T^4-3T^5+4T^6}{T^3}$	$\frac{6-3T+8T^2-3T^3+6T^4}{T^2}$	
10 ₁₂₅	$\frac{1-2T+2T^2-T^3+2T^4-2T^5+T^6}{T^3}$	$\frac{3-4T+5T^2-4T^3+3T^4}{T^2}$	$\frac{3-2T+3T^2}{T}$	
10 ₁₂₆	$\frac{1-2T+4T^2-5T^3+4T^4-2T^5+T^6}{T^3}$	$\frac{(1-T+T^2)(3-T+3T^2)}{T^2}$	$\frac{3-2T+3T^2}{T}$	
10 ₁₂₇	$-\frac{1-4T+6T^2-7T^3+6T^4-4T^5+T^6}{T^3}$	$-\frac{3-8T+9T^2-8T^3+3T^4}{T^2}$	$-\frac{3-4T+3T^2}{T}$	
10 ₁₂₈	$\frac{2-3T+T^2+T^3+T^4-3T^5+2T^6}{T^3}$	$\frac{6-6T+7T^2-6T^3+6T^4}{T^2}$	$\frac{3(2-T+2T^2)}{T}$	
10 ₁₂₉	$\frac{(2-2T+T^2)(1-2T+2T^2)}{T^2}$	$\frac{2(2-3T+2T^2)}{T}$	2	
10 ₁₃₀	$\frac{2-4T+5T^2-4T^3+2T^4}{T^2}$	$\frac{4(1-T+T^2)}{T}$	2	
10 ₁₃₁	$-\frac{2-8T+11T^2-8T^3+2T^4}{T^2}$	$-\frac{4(-1+T)^2}{T}$	-2	
10 ₁₃₂	$\frac{1-T+T^2-T^3+T^4}{T^2}$	$\frac{2-T+2T^2}{T}$	1	
10 ₁₃₃	$-\frac{1-5T+7T^2-5T^3+T^4}{T^2}$	$-\frac{(-2+T)(-1+2T)}{T}$	-1	
10 ₁₃₄	$\frac{2-4T+4T^2-3T^3+4T^4-4T^5+2T^6}{T^3}$	$\frac{2(3-4T+5T^2-4T^3+3T^4)}{T^2}$	$\frac{2(3-2T+3T^2)}{T}$	

10 ₁₃₄	$\frac{T^3}{T^3}$	$\frac{T^2}{T^2}$	$\frac{T}{T}$
10 ₁₃₅	$\frac{3-9T+13T^2-9T^3+3T^4}{T^2}$	$\frac{3(2-3T+2T^2)}{T}$	3
10 ₁₃₆	$-\frac{(1-3T+T^2)(1-T+T^2)}{T^2}$	$-\frac{2(-1+T)^2}{T}$	-1
10 ₁₃₇	$\frac{(1-3T+T^2)^2}{T^2}$	$\frac{2(1-3T+T^2)}{T}$	1
10 ₁₃₈	$\frac{(1-3T+T^2)(1-2T+T^2-2T^3+T^4)}{T^3}$	$\frac{3-10T+11T^2-10T^3+3T^4}{T^2}$	$\frac{3-5T+3T^2}{T}$
10 ₁₃₉	$\frac{(1-T+T^2)(1-T^2+T^3-T^4+T^6)}{T^4}$	$\frac{4-3T+4T^2-T^3+4T^4-3T^5+4T^6}{T^3}$	$\frac{6-3T+8T^2-3T^3+6T^4}{T^2}$
10 ₁₄₀	$\frac{(1-T+T^2)^2}{T^2}$	$\frac{2(1-T+T^2)}{T}$	1
10 ₁₄₁	$-\frac{(1-T+T^2)(1-2T+T^2-2T^3+T^4)}{T^3}$	$-\frac{3-6T+7T^2-6T^3+3T^4}{T^2}$	$-\frac{3(1-T+T^2)}{T}$
10 ₁₄₂	$\frac{(1-T+T^2)(2-T-T^2-T^3+2T^4)}{T^3}$	$\frac{2(3-3T+4T^2-3T^3+3T^4)}{T^2}$	$\frac{3(2-T+2T^2)}{T}$
10 ₁₄₃	$\frac{(1-T+T^2)^3}{T^3}$	$\frac{3(1-T+T^2)^2}{T^2}$	$\frac{3(1-T+T^2)}{T}$
10 ₁₄₄	$-\frac{(1-T+T^2)(3-7T+3T^2)}{T^2}$	$-\frac{2(3-5T+3T^2)}{T}$	-3
10 ₁₄₅	$\frac{1+T-3T^2+T^3+T^4}{T^2}$	$\frac{2+T+2T^2}{T}$	1
10 ₁₄₆	$\frac{2-8T+13T^2-8T^3+2T^4}{T^2}$	$\frac{4(-1+T)^2}{T}$	2
10 ₁₄₇	$-\frac{(-2+T)(-1+2T)(1-T+T^2)}{T^2}$	$-\frac{4-7T+4T^2}{T}$	-2
10 ₁₄₈	$\frac{1-3T+7T^2-9T^3+7T^4-3T^5+T^6}{T^3}$	$\frac{3-6T+10T^2-6T^3+3T^4}{T^2}$	$\frac{3(1-T+T^2)}{T}$
10 ₁₄₉	$-\frac{1-5T+9T^2-11T^3+9T^4-5T^5+T^6}{T^3}$	$-\frac{3-10T+12T^2-10T^3+3T^4}{T^2}$	$-\frac{3-5T+3T^2}{T}$
10 ₁₅₀	$-\frac{1-4T+6T^2-7T^3+6T^4-4T^5+T^6}{T^3}$	$-\frac{3-8T+9T^2-8T^3+3T^4}{T^2}$	$-\frac{3-4T+3T^2}{T}$
10 ₁₅₁	$\frac{1-4T+10T^2-13T^3+10T^4-4T^5+T^6}{T^3}$	$\frac{3-8T+13T^2-8T^3+3T^4}{T^2}$	$\frac{3-4T+3T^2}{T}$
10 ₁₅₂	$\frac{1-T-T^2+4T^3-5T^4+4T^5-T^6-T^7+T^8}{T^4}$	$\frac{4-3T+2T^2+T^3+2T^4-3T^5+4T^6}{T^3}$	$\frac{6-3T+7T^2-3T^3+6T^4}{T^2}$
10 ₁₅₃	$\frac{(1-T+T^3)(1-T^2+T^3)}{T^3}$	$\frac{3-2T+2T^2-2T^3+3T^4}{T^2}$	$\frac{3-T+3T^2}{T}$
10 ₁₅₄	$\frac{1-4T^2+7T^3-4T^4+T^6}{T^3}$	$\frac{3-T^2+3T^4}{T^2}$	$\frac{3(1+T^2)}{T}$
10 ₁₅₅	$-\frac{(-1+T-2T^2+T^3)(-1+2T-T^2+T^3)}{T^3}$	$-\frac{3-6T+8T^2-6T^3+3T^4}{T^2}$	$-\frac{3(1-T+T^2)}{T}$
10 ₁₅₆	$\frac{1-4T+8T^2-9T^3+8T^4-4T^5+T^6}{T^3}$	$\frac{(1-T+T^2)(3-5T+3T^2)}{T^2}$	$\frac{3-4T+3T^2}{T}$
10 ₁₅₇	$-\frac{1-6T+11T^2-13T^3+11T^4-6T^5+T^6}{T^3}$	$-\frac{3-12T+14T^2-12T^3+3T^4}{T^2}$	$-\frac{3(-1+T)^2}{T}$
10 ₁₅₈	$-\frac{1-4T+10T^2-15T^3+10T^4-4T^5+T^6}{T^3}$	$-\frac{3-8T+13T^2-8T^3+3T^4}{T^2}$	$-\frac{3-4T+3T^2}{T}$
10 ₁₅₉	$\frac{(1-T+T^2)(1-3T+5T^2-3T^3+T^4)}{T^3}$	$\frac{3-8T+12T^2-8T^3+3T^4}{T^2}$	$\frac{3-4T+3T^2}{T}$
10 ₁₆₀	$-\frac{1-4T+4T^2-3T^3+4T^4-4T^5+T^6}{T^3}$	$-\frac{3-8T+7T^2-8T^3+3T^4}{T^2}$	$-\frac{3-4T+3T^2}{T}$
10 ₁₆₁	$\frac{1-2T^2+3T^3-2T^4+T^6}{T^3}$	$\frac{3+T^2+3T^4}{T^2}$	$\frac{3(1+T^2)}{T}$
10 ₁₆₂	$-\frac{3-9T+11T^2-9T^3+3T^4}{T^2}$	$-\frac{3(2-3T+2T^2)}{T}$	-3
10 ₁₆₃	$\frac{(1-T+T^2)(1-4T+7T^2-4T^3+T^4)}{T^3}$	$\frac{3-10T+15T^2-10T^3+3T^4}{T^2}$	$\frac{3-5T+3T^2}{T}$
10 ₁₆₄	$\frac{3-11T+17T^2-11T^3+3T^4}{T^2}$	$\frac{6-11T+6T^2}{T}$	3
10 ₁₆₅	$-\frac{2-10T+15T^2-10T^3+2T^4}{T^2}$	$-\frac{2(-2+T)(-1+2T)}{T}$	-2

```
(Alt) In[*]:= 543 // FactorInteger
```

```
(Alt) Out[*]:= {{3, 1}, {181, 1}}
```