

> restart, with(LinearAlgebra) :

### Generating the example

Example for the paper

```
> S6 := Matrix(6, 6, [x·z, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, x2, 0, 0, 0, 0, 0, 0, x·z, 0, 0, 0, 0, 0, 0,
1, 0, 0, 0, 0, 0, 0, y]) : S5 := Matrix(6, 6, [1, 0, 0, 0, 2·y, 0, 0, 0, 1, 0, 0, 1, y-2, 0, 0, 1, 0, 0,
-1, 0, 3, 0, 1, 6, 5 + y-2, 0, 0, 0, 0, 1, 6 + y-2, 0, 0, 0, 0, 0, 1]) : S1 := Matrix(6, 6, [y, 0,
0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, y-1]) : S2
:= Matrix(6, 6, [1, y-3, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 1,
0, 0, 0, 0, 0, 0, 1]) : S3 := Matrix(6, 6, [1, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0,
0, 1, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 1]) : S4 := Matrix(6, 6, [y2, 0, 0, 0, 0, 0, 0, y2, 0, 0, 0,
0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, y, 0, 0, 0, 0, 0, 0, y]) : F
:= MatrixMatrixMultiply(S1, MatrixMatrixMultiply(S2, MatrixMatrixMultiply(S3, S4))) : F
:= MatrixMatrixMultiply(S5, F) : F := MatrixMatrixMultiply(S6, F) : A := map(simplify,
MatrixMatrixMultiply(map(diff, F, x), MatrixInverse(F))) : B := map(simplify,
MatrixMatrixMultiply(map(diff, F, y), MatrixInverse(F))) : C := map(simplify,
MatrixMatrixMultiply(map(diff, F, z), MatrixInverse(F))) : T2 := Matrix(6, 6, [1, 0, 0, 0,
z2·y2, x·z·y2, 0, 1, z2·y4, 0, 0, 0, 0, 0, 1, x + y3, z, 0, 0, 0, 0, 1, 3·x3·y, 0, 0, 0, 0, 0, 1, y2·x, 0,
0, 0, 0, 0, 1]) : T1 := Matrix(6, 6, [y3, 0, 0, 0, 0, 0, 0, y3, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 1,
0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 1]) : T3 := Matrix(6, 6, [1, 0, 0, 0, 0, 0, x + y, 1, 0, 0, 0, 0,
0, z2·y, 1, 0, 0, 0, 0, x4·z·3 + y, x3·y + z, 1, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, -1, 2, x3, 1]) : T
:= MatrixMatrixMultiply(T3, MatrixMatrixMultiply(T1, T2)) : Tinv := MatrixInverse(T) :
G := MatrixMatrixMultiply(T, F) : A1 := map(simplify, MatrixMatrixMultiply(map(diff,
G, x), MatrixInverse(G))) : B1 := map(simplify, MatrixMatrixMultiply(map(diff, G, y),
MatrixInverse(G))) : C1 := map(simplify, MatrixMatrixMultiply(map(diff, G, z),
MatrixInverse(G))) :
```

### Verifying the complete integrability conditions

```
> Equal(map(simplify, map(diff, A1, y) + MatrixMatrixMultiply(A1, B1)), map(simplify,
map(diff, B1, x) + MatrixMatrixMultiply(B1, A1))); Equal(map(simplify, map(diff, B1, z)
+ MatrixMatrixMultiply(B1, C1)), map(simplify, map(diff, C1, y)
+ MatrixMatrixMultiply(C1, B1))); Equal(map(simplify, map(diff, A1, z)
+ MatrixMatrixMultiply(A1, C1)), map(simplify, map(diff, C1, x)
+ MatrixMatrixMultiply(C1, A1)));
true
true
true
```

(1)

### Verifying normal crossings

```
> map(ldegree, A1, y); map(ldegree, A1, z);
```

$$\begin{bmatrix} 0 & 7 & 7 & 7 & 5 & 7 \\ 0 & 7 & 7 & 7 & 5 & 7 \\ 1 & 1 & 0 & 2 & 0 & 2 \\ 0 & 0 & 0 & 0 & 0 & 2 \\ 2 & 2 & 2 & 2 & 2 & 2 \\ 0 & 0 & 0 & 0 & 0 & 2 \end{bmatrix}$$

$$\begin{bmatrix} 0 & 2 & 2 & 2 & 2 & 2 \\ 0 & 2 & 2 & 2 & 2 & 2 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \end{bmatrix}$$

(2)

> *map(ldegree, B1, x); map(ldegree, B1, z);*

$$\begin{bmatrix} 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \end{bmatrix}$$

$$\begin{bmatrix} 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \end{bmatrix}$$

(3)

> *map(ldegree, C1, x); map(ldegree, C1, y);*

$$\begin{bmatrix} 0 & 1 & 1 & 1 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 1 \\ \infty & \infty & \infty & \infty & \infty & \infty \\ 0 & 0 & 0 & 0 & 0 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 0 & 7 & 7 & 7 & 5 & 7 \\ 0 & 7 & 7 & 7 & 5 & 7 \\ 0 & 0 & 0 & 0 & 0 & 2 \\ 0 & 0 & 0 & 0 & 0 & 2 \\ \infty & \infty & \infty & \infty & \infty & \infty \\ 0 & 0 & 0 & 0 & 0 & 2 \end{bmatrix} \quad (4)$$

Poincare rank (0,3,0) and the true Poincare rank is (0,0,0) by construction

>  $map(ldegree, A1, x); map(ldegree, B1, y); map(ldegree, C1, z);$

$$\begin{bmatrix} -1 & 0 & 0 & 0 & -1 & 0 \\ -1 & -1 & -1 & -1 & -1 & 0 \\ -1 & -1 & -1 & -1 & -1 & 0 \\ -1 & -1 & -1 & -1 & -1 & 0 \\ 0 & 0 & 0 & 0 & 3 & 0 \\ -1 & -1 & -1 & -1 & -1 & 0 \end{bmatrix}$$

$$\begin{bmatrix} -3 & -3 & -1 & -1 & -1 & -1 \\ -3 & -3 & -1 & -1 & -1 & -1 \\ -4 & -4 & -4 & -4 & -4 & -4 \\ -4 & -4 & -4 & -4 & -4 & -4 \\ -4 & -4 & -4 & -4 & -4 & -4 \\ -4 & -4 & -4 & -4 & -4 & -4 \end{bmatrix}$$

$$\begin{bmatrix} -1 & 1 & 1 & 1 & 1 & 1 \\ -1 & 1 & 1 & 1 & 1 & 1 \\ -1 & -1 & -1 & -1 & -1 & -1 \\ -1 & -1 & -1 & -1 & -1 & -1 \\ \infty & \infty & \infty & \infty & \infty & \infty \\ -1 & -1 & -1 & -1 & -1 & -1 \end{bmatrix} \quad (5)$$

The explicit matrices of the system  $dF/dx = A F$ ,  $dF/dy = B F$ ,  $dF/dz = C F$

>  $A1;$

$$\left[ \left[ -\frac{1}{x} (-2x^5 y^9 z^4 - 2x^4 y^{10} z^4 + 6x^6 y^7 z^3 + 6x^5 y^8 z^3 - 2x^2 y^8 z^5 - 2xy^9 z^5 - x^2 y^8 z^4 \right. \right. \quad (6)$$

$$\left. \left. - xy^9 z^4 + 2x^2 y^8 z^2 + 2xy^9 z^2 - 1), y^7 z^2 (-2x^3 y^2 z^2 + 6x^4 z - 2yz^3 - yz^2 \right. \right.$$

$$\left. \left. + 2y), y^7 z^2 (2x^3 y + 2z + 1), -2y^7 z^2, -\frac{y^5 z^2 (x^4 y^2 + 1)}{x}, y^7 z^2 \right], \right]$$

$$\begin{aligned}
& \left[ \frac{1}{x} (-12x^8y^{15}z^4 - 12x^7y^{16}z^4 + 36x^9y^{13}z^3 - 12x^9y^{12}z^4 + 36x^8y^{14}z^3 \right. \\
& - 12x^8y^{13}z^4 - 12x^5y^{14}z^5 - 12x^4y^{15}z^5 + 36x^{10}y^{10}z^3 + 36x^9y^{11}z^3 - 6x^5y^{14}z^4 \\
& - 6x^4y^{15}z^4 - 12x^6y^{11}z^5 - 12x^5y^{12}z^5 - 6x^6y^{11}z^4 + 12x^5y^{14}z^2 - 6x^5y^{12}z^4 \\
& + 4x^5y^{11}z^5 + 12x^4y^{15}z^2 + 4x^4y^{12}z^5 + 2x^4y^{12}z^4 + 2x^3y^{13}z^4 + 12x^6y^{11}z^2 \\
& - 10x^6y^9z^4 + 12x^5y^{12}z^2 - 8x^5y^{10}z^4 + 2x^4y^{11}z^4 - 6x^5y^{10}z^3 + 2x^5y^9z^4 \\
& - 6x^4y^{11}z^3 + 2x^4y^{10}z^4 + 4x^2y^{10}z^6 + 4xy^{11}z^6 - 6x^7y^7z^3 - 12x^6y^8z^3 \\
& - 6x^5y^9z^3 + 2x^2y^{10}z^5 + 4xy^{11}z^5 + 2y^{12}z^5 - 6x^6y^7z^3 - 6x^5y^8z^3 + 2x^3y^8z^5 \\
& + 4x^2y^9z^5 + 2xy^{10}z^5 + x^3y^8z^4 - 4x^2y^{10}z^3 + 2x^2y^9z^4 + 2x^2y^8z^5 - 4xy^{11}z^3 \\
& + xy^{10}z^4 + 2xy^9z^5 - 2xy^{11}z^2 - 2y^{12}z^2 - 2x^3y^8z^2 - 4x^2y^9z^2 - 2xy^{10}z^2 \\
& + 2xy^8z^4 + 2y^9z^4 - 2x^2y^8z^2 - 2xy^9z^2 + 2x + y), -\frac{1}{x}(y^7z^2(-12x^7y^8z^2 \\
& + 36x^8y^6z - 12x^8y^5z^2 - 12x^4y^7z^3 + 36x^9y^3z - 6x^4y^7z^2 - 12x^5y^4z^3 \\
& - 6x^5y^4z^2 + 12x^4y^7 + 4x^4y^4z^3 + 2x^3y^5z^2 + 12x^5y^4 - 10x^5y^2z^2 + 2x^4y^3z^2 \\
& - 6x^4y^3z + 2x^4y^2z^2 + 4xy^3z^4 - 6x^6z - 6x^5yz + 2xy^3z^3 + 2y^4z^3 - 6x^5z \\
& + 2x^2yz^3 + 2xy^2z^3 + x^2yz^2 - 4xy^3z + xy^2z^2 + 2xyz^3 - 2y^4 - 2x^2y - 2xy^2 \\
& + 2yz^2 - 2xy)), -\frac{1}{x}(y^7z^2(12x^7y^7 + 12x^8y^4 + 12x^4y^6z + 6x^4y^6 \\
& + 12x^5y^3z + 6x^5y^3 - 4x^4y^3z - 2x^3y^4 - 2x^5y - 2x^4y^2 - 2x^4y - 4xy^2z^2 \\
& - 2xy^2z - 2y^3z - 2x^2z - 2xyz - x^2 - xy - 2xz - 2)), \\
& \left. \frac{2y^7z^2(6x^4y^6 + 6x^5y^3 - 2xy^2z - y^3 - x^2 - xy - x)}{x} \right],
\end{aligned}$$

$$\frac{y^5 z^2 (6x^7 y^8 + 6x^8 y^5 - 2x^4 y^4 z + 6x^3 y^6 - x^5 y^2 + 5x^4 y^3 - 2y^2 z - x - y)}{x},$$

$$-y^7 z^2 (6x^3 y^6 + 6x^4 y^3 - 2y^2 z - x - y) \Big],$$

$$\left[ \frac{1}{x} (y (-12x^8 y^{15} z^6 - 12x^7 y^{16} z^6 + 36x^9 y^{13} z^5 - 12x^9 y^{12} z^6 + 36x^8 y^{14} z^5 - 12x^8 y^{13} z^6 - 12x^5 y^{14} z^7 - 12x^4 y^{15} z^7 + 36x^{10} y^{10} z^5 + 36x^9 y^{11} z^5 - 6x^5 y^{14} z^6 - 6x^4 y^{15} z^6 - 12x^6 y^{11} z^7 - 12x^5 y^{12} z^7 - 6x^6 y^{11} z^6 + 12x^5 y^{14} z^4 - 6x^5 y^{12} z^6 + 4x^5 y^{11} z^7 + 12x^4 y^{15} z^4 + 4x^4 y^{12} z^7 + 2x^4 y^{12} z^6 + 2x^3 y^{13} z^6 + 12x^6 y^{11} z^4 - 12x^6 y^9 z^6 + 12x^5 y^{12} z^4 - 12x^5 y^{10} z^6 - 6x^5 y^{10} z^5 + 2x^5 y^9 z^6 - 6x^4 y^{11} z^5 + 2x^4 y^{10} z^6 + 4x^2 y^{10} z^8 + 4xy^{11} z^8 + 2x^2 y^{10} z^7 + 4xy^{11} z^7 + 2y^{12} z^7 - 6x^6 y^7 z^5 - 6x^5 y^8 z^5 - 6x^8 y^7 z^2 - 6x^7 y^8 z^2 - 4x^2 y^{10} z^5 + 2x^2 y^8 z^7 - 4xy^{11} z^5 + 2xy^9 z^7 - 2xy^{11} z^4 - 2y^{12} z^4 + 18x^9 y^5 z + 18x^8 y^6 z + 2xy^8 z^6 + 2y^9 z^6 - 6x^5 y^6 z^3 - 6x^4 y^7 z^3 - 2x^2 y^8 z^4 - 2xy^9 z^4 - 3x^5 y^6 z^2 - 3x^4 y^7 z^2 + 6x^5 y^6 + 4x^5 y^3 z^3 + 6x^4 y^7 + 4x^4 y^4 z^3 + x^4 y^4 z^2 + x^3 y^5 z^2 - 12x^6 y z^2 - 12x^5 y^2 z^2 - 3x^5 y^2 z - 3x^4 y^3 z + 4x^2 y^2 z^4 + 4xy^3 z^4 + 2x^2 y^2 z^3 + 3xy^3 z^3 + y^4 z^3 - 4x^2 y^2 z - 4xy^3 z - xy^3 - y^4 + 2xz^2 + 2yz^2) , -\frac{1}{x} (y (-12x^7 y^{15} z^6 + 36x^8 y^{13} z^5 - 12x^8 y^{12} z^6 - 12x^4 y^{14} z^7 + 36x^9 y^{10} z^5 - 6x^4 y^{14} z^6 - 12x^5 y^{11} z^7 - 6x^5 y^{11} z^6 + 12x^4 y^{14} z^4 + 4x^4 y^{11} z^7 + 2x^3 y^{12} z^6 + 12x^5 y^{11} z^4 - 12x^5 y^9 z^6 - 6x^4 y^{10} z^5 + 2x^4 y^9 z^6 + 4xy^{10} z^8 + 2xy^{10} z^7 + 2y^{11} z^7 - 6x^5 y^7 z^5 - 6x^7 y^7 z^2 - 4xy^{10} z^5 + 2xy^8 z^7 - 2y^{11} z^4 + 18x^8 y^5 z + 2y^8 z^6 - 6x^4 y^6 z^3 - 2xy^8 z^4 - 3x^4 y^6 z^2 + 6x^4 y^6$$

$$\begin{aligned}
& + 4x^4 y^3 z^3 + x^3 y^4 z^2 - 12x^5 y z^2 - 3x^4 y^2 z + 4xy^2 z^4 + 2xy^2 z^3 + y^3 z^3 - 4xy^2 z \\
& - y^3 + 2z^2), -\frac{1}{x}(12x^7 y^{15} z^4 + 12x^8 y^{12} z^4 + 12x^4 y^{14} z^5 + 6x^4 y^{14} z^4 \\
& + 12x^5 y^{11} z^5 + 6x^5 y^{11} z^4 - 4x^4 y^{11} z^5 - 2x^3 y^{12} z^4 - 2x^4 y^9 z^4 - 4xy^{10} z^6 \\
& - 2xy^{10} z^5 - 2y^{11} z^5 + 6x^7 y^7 - 2xy^8 z^5 - 2y^8 z^4 + 6x^4 y^6 z + 3x^4 y^6 - 4x^4 y^3 z \\
& - x^3 y^4 - 4xy^2 z^2 - 2xy^2 z - y^3 z - 2),
\end{aligned}$$

$$\begin{aligned}
& \frac{1}{x}(y^2(12x^4 y^{12} z^4 + 12x^5 y^9 z^4 - 4xy^8 z^5 - 2y^9 z^4 - 2xy^6 z^4 + 6x^4 y^4 \\
& - 4xz - y)), \frac{1}{x}(6x^7 y^{14} z^4 + 6x^8 y^{11} z^4 - 2x^4 y^{10} z^5 + 6x^3 y^{12} z^4 + 6x^4 y^9 z^4 \\
& + 3x^7 y^6 - 2y^8 z^5 - 2x^4 y^2 z + 3x^3 y^4 - 2z), -y^2(6x^3 y^{12} z^4 + 6x^4 y^9 z^4 - 2y^8 z^5 \\
& + 3x^3 y^4 - 2z) \Big],
\end{aligned}$$

$$\begin{aligned}
& \left[ \frac{1}{x}(-36x^{12} y^{15} z^5 - 36x^{11} y^{16} z^5 + 108x^{13} y^{13} z^4 - 36x^{13} y^{12} z^5 + 108x^{12} y^{14} z^4 \right. \\
& - 36x^{12} y^{13} z^5 - 36x^9 y^{14} z^6 - 36x^8 y^{15} z^6 + 108x^{14} y^{10} z^4 + 108x^{13} y^{11} z^4 \\
& - 18x^9 y^{14} z^5 - 12x^8 y^{16} z^4 - 18x^8 y^{15} z^5 - 12x^7 y^{17} z^4 - 36x^{10} y^{11} z^6 - 36x^9 y^{12} z^6 \\
& - 18x^{10} y^{11} z^5 + 72x^9 y^{14} z^3 - 12x^9 y^{13} z^4 - 18x^9 y^{12} z^5 + 12x^9 y^{11} z^6 + 72x^8 y^{15} z^3 \\
& - 12x^8 y^{14} z^4 + 12x^8 y^{12} z^6 + 6x^8 y^{12} z^5 + 6x^7 y^{13} z^5 - 12x^5 y^{15} z^5 - 12x^4 y^{16} z^5 \\
& + 72x^{10} y^{11} z^3 - 36x^{10} y^9 z^5 + 72x^9 y^{12} z^3 - 36x^9 y^{10} z^5 - 6x^5 y^{15} z^4 - 6x^4 y^{16} z^4 \\
& - 18x^9 y^{10} z^4 + 6x^9 y^9 z^5 - 18x^8 y^{11} z^4 + 6x^8 y^{10} z^5 - 12x^6 y^{12} z^5 + 12x^6 y^{10} z^7 \\
& - 12x^5 y^{13} z^5 + 12x^5 y^{11} z^7 - 6x^{11} y^9 z^2 - 6x^{10} y^{10} z^2 - 6x^6 y^{12} z^4 + 6x^6 y^{10} z^6 \\
& \left. + 12x^5 y^{15} z^2 - 6x^5 y^{13} z^4 + 4x^5 y^{12} z^5 + 12x^5 y^{11} z^6 + 12x^4 y^{16} z^2 + 4x^4 y^{13} z^5 \right]
\end{aligned}$$

$$\begin{aligned}
& + 6x^4y^{12}z^6 - 18x^{10}y^7z^4 - 18x^9y^8z^4 + 2x^4y^{13}z^4 + 2x^3y^{14}z^4 + 18x^{12}y^7z \\
& + 18x^{11}y^8z + 12x^6y^{12}z^2 - 24x^6y^{10}z^4 + 6x^6y^8z^6 + 12x^5y^{13}z^2 - 24x^5y^{11}z^4 \\
& + 6x^5y^9z^6 - 12x^8y^8z^3 - 12x^7y^9z^3 - 12x^5y^{11}z^3 + 2x^5y^{10}z^4 - 12x^4y^{12}z^3 \\
& + 2x^4y^{11}z^4 + 4x^2y^{11}z^6 + 4xy^{12}z^6 - 3x^8y^8z^2 - 3x^7y^9z^2 + 6x^5y^8z^5 + 6x^4y^9z^5 \\
& + 2x^2y^{11}z^5 + 4xy^{12}z^5 + 2y^{13}z^5 + 18x^9y^6z^2 + 18x^8y^7z^2 - 12x^6y^8z^3 \\
& - 12x^5y^9z^3 + 6x^8y^8 + 4x^8y^5z^3 + 6x^7y^9 + 4x^7y^6z^3 - 6x^5y^7z^4 - 6x^4y^8z^4 \\
& - 4x^2y^{11}z^3 + 2x^2y^9z^5 - 4xy^{12}z^3 + 2xy^{10}z^5 - 12x^8y^5z^2 - 11x^7y^6z^2 + x^6y^7z^2 \\
& - 3x^5y^7z^3 - 3x^4y^8z^3 - 2xy^{12}z^2 - 2y^{13}z^2 - 12x^9y^3z^2 - 12x^8y^4z^2 + 2xy^9z^4 \\
& + 2y^{10}z^4 + 36x^9y^3z + 33x^8y^4z - 3x^7y^5z + 6x^5y^7z + 8x^5y^4z^4 + 6x^4y^8z \\
& + 8x^4y^5z^4 - 2x^2y^9z^2 - 2xy^{10}z^2 - 10x^5y^4z^3 - 8x^4y^5z^3 + 2x^3y^6z^3 - 12x^6y^2z^3 \\
& - 6x^5y^4z^2 - 12x^5y^3z^3 - 6x^4y^5z^2 - 4x^5y^4z - 3x^5y^3z^2 - 4x^4y^5z - 3x^4y^4z^2 \\
& + 4x^2y^3z^5 + 4xy^4z^5 + 12x^5y^4 + 11x^4y^5 - x^3y^6 + 2x^2y^3z^4 + 3xy^4z^4 + y^5z^4 \\
& + 4x^4y^2z^2 + 4x^3y^3z^2 - 4x^2y^3z^2 - 4xy^4z^2 - 9x^5z - 9x^4yz - xy^4z - y^5z \\
& + xy^3z^3 + y^2z^3 + xy + y^2), -\frac{1}{x}(-36x^{11}y^{15}z^5 + 108x^{12}y^{13}z^4 - 36x^{12}y^{12}z^5 \\
& - 36x^8y^{14}z^6 + 108x^{13}y^{10}z^4 - 18x^8y^{14}z^5 - 12x^7y^{16}z^4 - 36x^9y^{11}z^6 - 18x^9y^{11}z^5 \\
& + 72x^8y^{14}z^3 - 12x^8y^{13}z^4 + 12x^8y^{11}z^6 + 6x^7y^{12}z^5 - 12x^4y^{15}z^5 + 72x^9y^{11}z^3 \\
& - 36x^9y^9z^5 - 6x^4y^{15}z^4 - 18x^8y^{10}z^4 + 6x^8y^9z^5 - 12x^5y^{12}z^5 + 12x^5y^{10}z^7 \\
& - 6x^{10}y^9z^2 - 6x^5y^{12}z^4 + 6x^5y^{10}z^6 + 12x^4y^{15}z^2 + 4x^4y^{12}z^5 + 6x^4y^{11}z^6
\end{aligned}$$

$$\begin{aligned}
& - 18x^9y^7z^4 + 2x^3y^{13}z^4 + 18x^{11}y^7z + 12x^5y^{12}z^2 - 24x^5y^{10}z^4 + 6x^5y^8z^6 \\
& - 12x^7y^8z^3 - 12x^4y^{11}z^3 + 2x^4y^{10}z^4 + 4xy^{11}z^6 - 3x^7y^8z^2 + 6x^4y^8z^5 \\
& + 2xy^{11}z^5 + 2y^{12}z^5 + 18x^8y^6z^2 - 12x^5y^8z^3 + 6x^7y^8 + 4x^7y^5z^3 - 6x^4y^7z^4 \\
& - 4xy^{11}z^3 + 2xy^9z^5 - 12x^7y^5z^2 + x^6y^6z^2 - 3x^4y^7z^3 - 2y^{12}z^2 - 12x^8y^3z^2 \\
& + 2y^9z^4 + 36x^8y^3z - 3x^7y^4z + 6x^4y^7z + 8x^4y^4z^4 - 2xy^9z^2 - 10x^4y^4z^3 \\
& + 2x^3y^5z^3 - 12x^5y^2z^3 - 6x^4y^4z^2 - 4x^4y^4z - 3x^4y^3z^2 + 4xy^3z^5 + 12x^4y^4 \\
& - x^3y^5 + 2xy^3z^4 + y^4z^4 + 4x^3y^2z^2 - 4xy^3z^2 - 9x^4z - y^4z + yz^3 + y), \\
& - \frac{1}{x} (36x^{11}y^{14}z^3 + 36x^{12}y^{11}z^3 + 36x^8y^{13}z^4 + 18x^8y^{13}z^3 + 12x^7y^{15}z^2 \\
& + 36x^9y^{10}z^4 + 18x^9y^{10}z^3 + 12x^8y^{12}z^2 - 12x^8y^{10}z^4 - 6x^7y^{11}z^3 + 12x^4y^{14}z^3 \\
& + 6x^4y^{14}z^2 - 6x^8y^8z^3 + 12x^5y^{11}z^3 - 12x^5y^9z^5 + 6x^{10}y^8 + 6x^5y^{11}z^2 \\
& - 6x^5y^9z^4 - 4x^4y^{11}z^3 - 6x^4y^{10}z^4 - 2x^3y^{12}z^2 - 6x^5y^7z^4 + 12x^7y^7z - 2x^4y^9z^2 \\
& - 4xy^{10}z^4 + 3x^7y^7 - 6x^4y^7z^3 - 2xy^{10}z^3 - 2y^{11}z^3 - 4x^7y^4z + 6x^4y^6z^2 \\
& - 2xy^8z^3 + 12x^7y^4 - x^6y^5 + 3x^4y^6z - 2y^8z^2 - 8x^4y^3z^2 + 10x^4y^3z - 2x^3y^4z \\
& + 6x^4y^3 - 4xy^2z^3 - 2xy^2z^2 - y^3z^2 - 4x^3y - z), \frac{1}{x} (36x^8y^{13}z^3 + 36x^9y^{10}z^3 \\
& + 12x^4y^{14}z^2 + 12x^5y^{11}z^2 - 12x^5y^9z^4 - 6x^4y^{10}z^3 - 6x^5y^7z^3 + 6x^7y^7 \\
& - 4xy^{10}z^3 - 2y^{11}z^2 + 6x^4y^6z - 2xy^8z^2 - 4x^4y^3z + 12x^4y^3 - x^3y^4 - 4xy^2z^2 \\
& - y^3z + 1), \frac{1}{x} (18x^{11}y^{13}z^3 + 18x^{12}y^{10}z^3 + 6x^7y^{14}z^2 + 6x^8y^{11}z^2 - 6x^8y^9z^4 \\
& + 18x^7y^{11}z^3 + 18x^8y^8z^3 + 3x^{10}y^7 - 2x^4y^{10}z^3 + 6x^3y^{12}z^2 + 6x^4y^9z^2 \\
& - 6x^4y^7z^4 + 3x^7y^6z - 2x^7y^3z + 3x^6y^5 - 2y^8z^3 + 6x^7y^3 - 2x^4y^2z^2 + 3x^3y^4z
\end{aligned}$$



$$\begin{aligned}
& -2x^3yz + 6x^3y - 2z^2), -y^2(18x^7y^{11}z^3 + 18x^8y^8z^3 + 6x^3y^{12}z^2 + 6x^4y^9z^2 \\
& - 6x^4y^7z^4 + 3x^6y^5 - 2y^8z^3 + 3x^3y^4z - 2x^3yz + 6x^3y - 2z^2)], \\
& [-y^2(-2x^3y^2z^2 + 6x^4z - 2yz^3 - yz^2 + 2y)(x+y), y^2(-2x^3y^2z^2 + 6x^4z \\
& - 2yz^3 - yz^2 + 2y), y^2(2x^3y + 2z + 1), -2y^2, -x^3y^2, y^2], \\
& \left[ -\frac{1}{x}(-6x^8y^8z^2 - 6x^7y^9z^2 + 18x^9y^6z + 18x^8y^7z + 24x^8y^5z^2 + 24x^7y^6z^2 \right. \\
& - 6x^5y^7z^3 - 6x^4y^8z^3 - 2x^8y^4z^2 - 2x^7y^5z^2 - 3x^5y^7z^2 - 3x^4y^8z^2 - 72x^9y^3z \\
& - 72x^8y^4z + 6x^9y^2z + 6x^8y^3z + 6x^5y^7 + 28x^5y^4z^3 + 6x^4y^8 + 28x^4y^5z^3 \\
& + 12x^5y^4z^2 - 2x^5y^3z^3 + 13x^4y^5z^2 - 2x^4y^4z^3 + x^3y^6z^2 - 12x^6y^2z^2 - 13x^5y^3z^2 \\
& - x^4y^4z^2 - 24x^5y^4 - 3x^5y^3z - 24x^4y^5 - 3x^4y^4z + 4x^2y^3z^4 + 4xy^4z^4 + 2x^5y^3 \\
& + 2x^4y^4 + 2x^4y^2z^2 + 2x^3y^3z^2 + 2x^2y^3z^3 + 3xy^4z^3 + y^5z^3 - 6x^5z - 6x^4yz \\
& - 4x^2y^3z - 4xy^4z - xy^4 + 2xyz^3 - y^5 + 2y^2z^3 + 2xyz^2 + 2y^2z^2 - 2xy \\
& \left. - 2y^2), \frac{1}{x}(-6x^7y^8z^2 + 18x^8y^6z + 24x^7y^5z^2 - 6x^4y^7z^3 - 2x^7y^4z^2 \right. \\
& - 3x^4y^7z^2 - 72x^8y^3z + 6x^8y^2z + 6x^4y^7 + 28x^4y^4z^3 + 12x^4y^4z^2 - 2x^4y^3z^3 \\
& + x^3y^5z^2 - 12x^5y^2z^2 - x^4y^3z^2 - 24x^4y^4 - 3x^4y^3z + 4xy^3z^4 + 2x^4y^3 \\
& + 2x^3y^2z^2 + 2xy^3z^3 + y^4z^3 - 6x^4z - 4xy^3z - y^4 + 2yz^3 + 2yz^2 - 2y), \\
& \left. \frac{1}{x}(6x^7y^7 - 24x^7y^4 + 6x^4y^6z + 2x^7y^3 + 3x^4y^6 - 28x^4y^3z - 12x^4y^3 + 2x^4y^2z \right. \\
& - x^3y^4 + x^4y^2 - 4xy^2z^2 - 2x^3y - 2xy^2z - y^3z - 2z - 2), \\
& \left. - \frac{6x^4y^6 - 24x^4y^3 + 2x^4y^2 - 4xy^2z - y^3 - 2}{x}, \right. \\
& \left. - \frac{3x^7y^6 - 12x^7y^3 + x^7y^2 - 2x^4y^2z + 3x^3y^4 - 12x^3y - 3x^3 - 2z}{x}, y^2(3x^3y^4 \right. \\
& \left. - 12x^3y + x^3 - 2z) \right] \Bigg]
\end{aligned}$$

> BI;

$$\left[ \begin{aligned} & -\frac{1}{y^3} (-72x^9y^{18}z^5 - 72x^8y^{19}z^5 + 216x^{10}y^{16}z^4 - 72x^{10}y^{15}z^5 + 216x^9y^{17}z^4 \\ & - 72x^9y^{16}z^5 + 18x^9y^{15}z^5 + 18x^8y^{16}z^5 - 72x^6y^{17}z^6 - 72x^5y^{18}z^6 + 216x^{11}y^{13}z^4 \\ & + 216x^{10}y^{14}z^4 - 36x^6y^{17}z^5 - 36x^5y^{18}z^5 - 54x^{10}y^{13}z^4 + 18x^{10}y^{12}z^5 \\ & - 54x^9y^{14}z^4 + 18x^9y^{13}z^5 - 72x^7y^{14}z^6 - 72x^6y^{15}z^6 - 36x^7y^{14}z^5 + 72x^6y^{17}z^3 \\ & - 36x^6y^{15}z^5 + 42x^6y^{14}z^6 + 72x^5y^{18}z^3 + 42x^5y^{15}z^6 - 54x^{11}y^{10}z^4 - 54x^{10}y^{11}z^4 \\ & + 9x^6y^{14}z^5 + 21x^5y^{15}z^5 + 12x^4y^{16}z^5 + 72x^7y^{14}z^3 - 72x^7y^{12}z^5 + 18x^7y^{11}z^6 \\ & + 72x^6y^{15}z^3 - 72x^6y^{13}z^5 + 18x^6y^{12}z^6 + 9x^7y^{11}z^5 - 18x^6y^{14}z^3 - 36x^6y^{13}z^4 \\ & + 21x^6y^{12}z^5 - 6x^6y^{11}z^6 - 18x^5y^{15}z^3 - 36x^5y^{14}z^4 + 12x^5y^{13}z^5 - 6x^5y^{12}z^6 \\ & + 24x^3y^{13}z^7 + 24x^2y^{14}z^7 - 3x^5y^{12}z^5 - 3x^4y^{13}z^5 + 12x^3y^{13}z^6 + 24x^2y^{14}z^6 \\ & + 12x^3y^{15}z^6 + 24x^8y^{11}z^2 + 24x^7y^{12}z^2 - 18x^7y^{11}z^3 - 36x^7y^{10}z^4 + 18x^7y^9z^5 \\ & - 18x^6y^{12}z^3 - 36x^6y^{11}z^4 + 18x^6y^{10}z^5 + 9x^6y^{10}z^4 - 3x^6y^9z^5 + 9x^5y^{11}z^4 \\ & - 3x^5y^{10}z^5 - 24x^3y^{13}z^4 + 12x^3y^{11}z^6 - 6x^3y^{10}z^7 - 24x^2y^{14}z^4 + 12x^2y^{12}z^6 \\ & - 6x^2y^{11}z^7 - 72x^9y^9z - 72x^8y^{10}z + 24x^6y^{10}z^3 + 24x^5y^{11}z^3 - 3x^3y^{10}z^6 \\ & - 12x^2y^{14}z^3 - 6x^2y^{11}z^6 - 12xy^{15}z^3 - 3xy^{12}z^6 + 9x^7y^7z^4 + 9x^6y^8z^4 \\ & + 24x^5y^{10}z^3 + 24x^4y^{11}z^3 + 12x^2y^{11}z^5 + 12xy^{12}z^5 - 72x^7y^8z^2 - 72x^6y^9z^2 \\ & + 12x^5y^{10}z^2 + 12x^4y^{11}z^2 - 12x^3y^{11}z^3 + 6x^3y^{10}z^4 - 3x^3y^8z^6 - 12x^2y^{12}z^3 \end{aligned} \right] \quad (7)$$

$$\begin{aligned}
& + 6x^2y^{11}z^4 - 3x^2y^9z^6 + 6x^6y^7z^3 + 6x^5y^8z^3 + 12x^4y^8z^4 + 36x^3y^9z^4 \\
& + 3x^2y^{11}z^3 + 24x^2y^{10}z^4 + 3xy^{12}z^3 - 24x^5y^{10} + 104x^5y^7z^3 - 24x^4y^{11} \\
& + 104x^4y^8z^3 + 12x^3y^9z^3 + 12x^2y^{10}z^3 - 3x^2y^8z^5 - 3xy^9z^5 - 18x^7y^5z^2 \\
& - 18x^6y^6z^2 - 36x^5y^6z^3 - 4x^4y^8z^2 - 36x^4y^7z^3 + 6x^4y^6z^4 - 4x^3y^9z^2 + 3x^3y^8z^3 \\
& + 6x^3y^7z^4 + 3x^2y^9z^3 - 312x^6y^5z^2 - 312x^5y^6z^2 + 40x^5y^5z^3 + 40x^4y^6z^3 \\
& - 24x^3y^9z + 6x^3y^6z^4 - 24x^2y^{10}z + 6x^2y^7z^4 + 12xy^7z^5 + 12y^8z^5 + 12x^5y^6z \\
& + 18x^5y^4z^3 + 12x^4y^7z + 18x^4y^5z^3 + 3x^3y^6z^3 + 3x^2y^7z^3 + 104x^2y^6z^4 \\
& + 110xy^7z^4 + 6y^8z^4 - 120x^6y^3z^2 - 120x^5y^4z^2 + 52x^2y^6z^3 + 48xy^7z^3 \\
& + 6xy^5z^5 - 4y^8z^3 + 6y^6z^5 - 108x^6y^2z^2 - 108x^5y^3z^2 - 6x^3y^6z - 6x^2y^7z \\
& + 40x^2y^4z^4 - 12xy^7z^2 + 43xy^5z^4 - 12y^8z^2 + 3y^6z^4 - 104x^2y^6z + 20x^2y^4z^3 \\
& + 36x^2y^3z^4 - 104xy^7z + 20xy^5z^3 + 36xy^4z^4 + 18x^2y^3z^3 + 4xy^7 - 6xy^5z^2 \\
& + 18xy^4z^3 + 4y^8 - 6y^6z^2 - 40x^2y^4z - 40xy^5z - 24x^2y^3z - 24xy^4z - 3x^2z \\
& - 3xyz - 6y^2), \frac{1}{y^3}(-72x^8y^{18}z^5 + 216x^9y^{16}z^4 - 72x^9y^{15}z^5 + 18x^8y^{15}z^5 \\
& - 72x^5y^{17}z^6 + 216x^{10}y^{13}z^4 - 36x^5y^{17}z^5 - 54x^9y^{13}z^4 + 18x^9y^{12}z^5 - 72x^6y^{14}z^6 \\
& - 36x^6y^{14}z^5 + 72x^5y^{17}z^3 + 42x^5y^{14}z^6 - 54x^{10}y^{10}z^4 + 9x^5y^{14}z^5 + 12x^4y^{15}z^5 \\
& + 72x^6y^{14}z^3 - 72x^6y^{12}z^5 + 18x^6y^{11}z^6 + 9x^6y^{11}z^5 - 18x^5y^{14}z^3 - 36x^5y^{13}z^4 \\
& + 12x^5y^{12}z^5 - 6x^5y^{11}z^6 + 24x^2y^{13}z^7 - 3x^4y^{12}z^5 + 12x^2y^{13}z^6 + 12xy^{14}z^6
\end{aligned}$$

$$\begin{aligned}
& + 24x^7y^{11}z^2 - 18x^6y^{11}z^3 - 36x^6y^{10}z^4 + 18x^6y^9z^5 + 9x^5y^{10}z^4 - 3x^5y^9z^5 \\
& - 24x^2y^{13}z^4 + 12x^2y^{11}z^6 - 6x^2y^{10}z^7 - 72x^8y^9z + 24x^5y^{10}z^3 - 3x^2y^{10}z^6 \\
& - 12xy^{14}z^3 - 3xy^{11}z^6 + 9x^6y^7z^4 + 24x^4y^{10}z^3 + 12xy^{11}z^5 - 72x^6y^8z^2 \\
& + 12x^4y^{10}z^2 - 12x^2y^{11}z^3 + 6x^2y^{10}z^4 - 3x^2y^8z^6 + 6x^5y^7z^3 + 12x^3y^8z^4 \\
& + 24x^2y^9z^4 + 3xy^{11}z^3 - 24x^4y^{10} + 104x^4y^7z^3 + 12x^2y^9z^3 - 3xy^8z^5 \\
& - 18x^6y^5z^2 - 36x^4y^6z^3 - 4x^3y^8z^2 + 6x^3y^6z^4 + 3x^2y^8z^3 - 312x^5y^5z^2 \\
& + 40x^4y^5z^3 - 24x^2y^9z + 6x^2y^6z^4 + 12y^7z^5 + 12x^4y^6z + 18x^4y^4z^3 + 3x^2y^6z^3 \\
& + 104xy^6z^4 + 6y^7z^4 - 120x^5y^3z^2 + 52xy^6z^3 - 4y^7z^3 + 6y^5z^5 - 108x^5y^2z^2 \\
& - 6x^2y^6z + 40xy^4z^4 - 12y^7z^2 + 3y^5z^4 - 104xy^6z + 20xy^4z^3 + 36xy^3z^4 \\
& + 18xy^3z^3 + 4y^7 - 6y^5z^2 - 40xy^4z - 24xy^3z - 3xz), \frac{1}{y}(72x^8y^{15}z^3 \\
& + 72x^9y^{12}z^3 - 18x^8y^{12}z^3 + 72x^5y^{14}z^4 + 36x^5y^{14}z^3 - 18x^9y^9z^3 + 72x^6y^{11}z^4 \\
& + 36x^6y^{11}z^3 - 42x^5y^{11}z^4 - 9x^5y^{11}z^3 - 12x^4y^{12}z^3 - 18x^6y^8z^4 - 9x^6y^8z^3 \\
& - 12x^5y^9z^3 + 6x^5y^8z^4 - 24x^2y^{10}z^5 + 3x^4y^9z^3 - 12x^2y^{10}z^4 - 12xy^{11}z^4 \\
& - 24x^7y^8 + 3x^5y^6z^3 - 12x^2y^8z^4 + 6x^2y^7z^5 - 24x^5y^7z + 3x^2y^7z^4 + 3xy^8z^4 \\
& - 24x^4y^7z - 12xy^8z^3 - 12x^4y^7 + 3x^2y^5z^4 - 6x^5y^4z - 12x^3y^5z^2 - 24x^2y^6z^2 \\
& - 104x^4y^4z - 12x^2y^6z + 3xy^5z^3 + 4x^3y^5 - 6x^3y^3z^2 - 40x^4y^2z - 6x^2y^3z^2 \\
& - 12y^4z^3 - 36x^4yz - 3x^2y^3z - 104xy^3z^2 - 6y^4z^2 - 52xy^3z + 4y^4z - 6y^2z^3 \\
& - 40xy^2z^2 - 3y^2z^2 - 20xyz - 36xz^2 - 18xz), -\frac{1}{y}(72x^5y^{14}z^3 + 72x^6y^{11}z^3
\end{aligned}$$

$$\begin{aligned}
& - 18x^5y^{11}z^3 - 18x^6y^8z^3 - 24x^2y^{10}z^4 - 12xy^{11}z^3 - 12x^2y^8z^3 + 6x^2y^7z^4 \\
& + 3xy^8z^3 - 24x^4y^7 + 3x^2y^5z^3 - 24x^2y^6z - 6x^2y^3z - 12y^4z^2 - 104xy^3z + 4y^4 \\
& - 6y^2z^2 - 40xyz - 36xz), -\frac{1}{y}(x(36x^7y^{14}z^3 + 36x^8y^{11}z^3 - 9x^7y^{11}z^3 \\
& - 9x^8y^8z^3 - 12x^4y^{10}z^4 + 36x^3y^{12}z^3 + 36x^4y^9z^3 + 3x^4y^7z^4 - 9x^3y^9z^3 \\
& - 12x^6y^7 - 9x^4y^6z^3 - 12y^8z^4 - 12x^4y^6z + 3y^5z^4 - 3x^4y^3z - 6x^2y^4z^2 \\
& - 52x^3y^3z - 12x^2y^5 - 3x^2y^2z^2 - 20x^3yz - 12y^4z - 18x^3z - 3yz)), \\
& \frac{1}{y}(36x^5y^{14}z^3 + 36x^6y^{11}z^3 - 9x^5y^{11}z^3 - 9x^6y^8z^3 - 12x^2y^{10}z^4 + 3x^2y^7z^4 \\
& - 12x^4y^7 - 12x^2y^6z - 3x^2y^3z - 6y^4z^2 - 52xy^3z - 3y^2z^2 - 20xyz - 18xz) \Big], \\
& \left[ -\frac{1}{y^3}(-72x^{10}y^{18}z^5 - 144x^9y^{19}z^5 - 72x^8y^{20}z^5 + 216x^{11}y^{16}z^4 - 72x^{11}y^{15}z^5 \right. \\
& + 432x^{10}y^{17}z^4 - 144x^{10}y^{16}z^5 + 216x^9y^{18}z^4 - 72x^9y^{17}z^5 + 18x^{10}y^{15}z^5 \\
& + 36x^9y^{16}z^5 + 18x^8y^{17}z^5 - 72x^7y^{17}z^6 - 144x^6y^{18}z^6 - 72x^5y^{19}z^6 \\
& + 216x^{12}y^{13}z^4 + 432x^{11}y^{14}z^4 + 216x^{10}y^{15}z^4 + 12x^8y^{17}z^4 + 12x^7y^{18}z^4 \\
& - 36x^7y^{17}z^5 - 72x^6y^{18}z^5 - 36x^5y^{19}z^5 - 54x^{11}y^{13}z^4 + 18x^{11}y^{12}z^5 \\
& - 108x^{10}y^{14}z^4 + 36x^{10}y^{13}z^5 - 54x^9y^{15}z^4 + 18x^9y^{14}z^5 - 72x^8y^{14}z^6 \\
& - 144x^7y^{15}z^6 - 72x^6y^{16}z^6 - 36x^9y^{15}z^3 + 12x^9y^{14}z^4 - 36x^8y^{16}z^3 + 12x^8y^{15}z^4 \\
& - 36x^8y^{14}z^5 + 72x^7y^{17}z^3 - 72x^7y^{15}z^5 + 42x^7y^{14}z^6 + 144x^6y^{18}z^3 - 36x^6y^{16}z^5 \\
& + 84x^6y^{15}z^6 + 72x^5y^{19}z^3 + 42x^5y^{16}z^6 - 54x^{12}y^{10}z^4 - 108x^{11}y^{11}z^4 \\
& \left. - 54x^{10}y^{12}z^4 + 9x^7y^{14}z^5 + 30x^6y^{15}z^5 + 45x^5y^{16}z^5 + 24x^4y^{17}z^5 - 36x^{10}y^{12}z^3 \right]
\end{aligned}$$

$$\begin{aligned}
& - 36x^9y^{13}z^3 + 72x^8y^{14}z^3 - 72x^8y^{12}z^5 + 18x^8y^{11}z^6 + 144x^7y^{15}z^3 - 144x^7y^{13}z^5 \\
& + 36x^7y^{12}z^6 + 72x^6y^{16}z^3 - 72x^6y^{14}z^5 + 18x^6y^{13}z^6 + 6x^5y^{16}z^4 + 6x^4y^{17}z^4 \\
& + 9x^8y^{11}z^5 - 18x^7y^{14}z^3 - 36x^7y^{13}z^4 + 30x^7y^{12}z^5 - 6x^7y^{11}z^6 - 36x^6y^{15}z^3 \\
& - 72x^6y^{14}z^4 + 45x^6y^{13}z^5 - 12x^6y^{12}z^6 - 18x^5y^{16}z^3 - 36x^5y^{15}z^4 + 24x^5y^{14}z^5 \\
& - 6x^5y^{13}z^6 + 24x^4y^{13}z^7 + 48x^3y^{14}z^7 + 24x^2y^{15}z^7 + 6x^6y^{13}z^4 - 3x^6y^{12}z^5 \\
& - 12x^5y^{16}z^2 + 6x^5y^{14}z^4 - 10x^5y^{13}z^5 - 12x^4y^{17}z^2 - 7x^4y^{14}z^5 + 12x^4y^{13}z^6 \\
& + 36x^3y^{14}z^6 + 36x^2y^{15}z^6 + 12xy^{16}z^6 + 24x^9y^{11}z^2 + 48x^8y^{12}z^2 - 18x^8y^{11}z^3 \\
& - 36x^8y^{10}z^4 + 18x^8y^9z^5 + 24x^7y^{13}z^2 - 36x^7y^{12}z^3 - 72x^7y^{11}z^4 + 36x^7y^{10}z^5 \\
& - 18x^6y^{13}z^3 - 36x^6y^{12}z^4 + 18x^6y^{11}z^5 - 2x^4y^{14}z^4 - 2x^3y^{15}z^4 + 9x^7y^{10}z^4 \\
& - 3x^7y^9z^5 - 12x^6y^{13}z^2 + 30x^6y^{11}z^4 - 6x^6y^{10}z^5 - 12x^5y^{14}z^2 + 21x^5y^{12}z^4 \\
& - 3x^5y^{11}z^5 - 24x^4y^{13}z^4 + 12x^4y^{11}z^6 - 6x^4y^{10}z^7 - 48x^3y^{14}z^4 + 24x^3y^{12}z^6 \\
& - 12x^3y^{11}z^7 - 24x^2y^{15}z^4 + 12x^2y^{13}z^6 - 6x^2y^{12}z^7 - 72x^{10}y^9z - 144x^9y^{10}z \\
& - 72x^8y^{11}z + 24x^7y^{10}z^3 + 48x^6y^{11}z^3 + 30x^5y^{12}z^3 - 2x^5y^{11}z^4 + 6x^4y^{13}z^3 \\
& - 2x^4y^{12}z^4 - 3x^4y^{10}z^6 - 12x^3y^{14}z^3 - 9x^3y^{11}z^6 - 24x^2y^{15}z^3 - 13x^2y^{12}z^6 \\
& - 12xy^{16}z^3 - 7xy^{13}z^6 + 9x^8y^7z^4 + 18x^7y^8z^4 + 24x^6y^{10}z^3 + 9x^6y^9z^4 \\
& + 48x^5y^{11}z^3 + 24x^4y^{12}z^3 + 12x^3y^{11}z^5 + 22x^2y^{12}z^5 + 8xy^{13}z^5 - 2y^{14}z^5 \\
& - 72x^8y^8z^2 - 144x^7y^9z^2 - 60x^6y^{10}z^2 + 6x^6y^9z^3 + 24x^5y^{11}z^2 + 6x^5y^{10}z^3
\end{aligned}$$

$$\begin{aligned}
& + 12x^4y^{12}z^2 - 12x^4y^{11}z^3 + 6x^4y^{10}z^4 - 3x^4y^8z^6 - 24x^3y^{12}z^3 + 12x^3y^{11}z^4 \\
& - 6x^3y^9z^6 - 12x^2y^{13}z^3 + 6x^2y^{12}z^4 - 3x^2y^{10}z^6 + 6x^7y^7z^3 + 12x^6y^8z^3 \\
& + 6x^5y^9z^3 + 12x^5y^8z^4 + 48x^4y^9z^4 + 3x^3y^{11}z^3 + 60x^3y^{10}z^4 + 10x^2y^{12}z^3 \\
& + 24x^2y^{11}z^4 - 2x^2y^{10}z^5 + 7xy^{13}z^3 - 2xy^{11}z^5 - 24x^6y^{10} + 104x^6y^7z^3 \\
& - 48x^5y^{11} - 2x^5y^9z^2 + 208x^5y^8z^3 - 24x^4y^{12} - 2x^4y^{10}z^2 + 116x^4y^9z^3 \\
& + 24x^3y^{10}z^3 - 3x^3y^8z^5 + 12x^2y^{11}z^3 - 6x^2y^9z^5 + 2xy^{13}z^2 - 3xy^{10}z^5 + 2y^{14}z^2 \\
& - 18x^8y^5z^2 - 36x^7y^6z^2 - 18x^6y^7z^2 - 36x^6y^6z^3 - 4x^5y^8z^2 - 72x^5y^7z^3 \\
& + 6x^5y^6z^4 - 8x^4y^9z^2 - 33x^4y^8z^3 + 12x^4y^7z^4 - 4x^3y^{10}z^2 + 6x^3y^9z^3 + 6x^3y^8z^4 \\
& + 3x^2y^{10}z^3 - 2xy^{10}z^4 - 2y^{11}z^4 - 312x^7y^5z^2 + 6x^6y^7z - 624x^6y^6z^2 \\
& + 40x^6y^5z^3 + 6x^5y^8z - 312x^5y^7z^2 + 80x^5y^6z^3 - 24x^4y^9z + 40x^4y^7z^3 \\
& + 6x^4y^6z^4 - 48x^3y^{10}z + 12x^3y^7z^4 - 24x^2y^{11}z + 2x^2y^{10}z^2 + 6x^2y^8z^4 \\
& + 12x^2y^7z^5 + 2xy^{11}z^2 + 24xy^8z^5 + 12y^9z^5 + 12x^6y^6z + 18x^6y^4z^3 + 24x^5y^7z \\
& + 36x^5y^5z^3 + 12x^4y^8z + 21x^4y^6z^3 + 6x^3y^7z^3 + 104x^3y^6z^4 + x^2y^8z^3 \\
& + 214x^2y^7z^4 - 2xy^9z^3 + 116xy^8z^4 + 6y^9z^4 - 120x^7y^3z^2 - 240x^6y^4z^2 \\
& - 120x^5y^5z^2 - 12x^4y^6z^2 - 12x^3y^7z^2 + 52x^3y^6z^3 - x^2y^8z^2 + 100x^2y^7z^3 \\
& + 6x^2y^5z^5 - xy^9z^2 + 44xy^8z^3 + 12xy^6z^5 - 4y^9z^3 + 6y^7z^5 - 108x^7y^2z^2 \\
& - 216x^6y^3z^2 - 108x^5y^4z^2 - 6x^4y^6z - 12x^3y^7z + 40x^3y^4z^4 - 6x^2y^8z
\end{aligned}$$

$$\begin{aligned}
& - 12x^2y^7z^2 + 83x^2y^5z^4 - 24xy^8z^2 + 46xy^6z^4 - 12y^9z^2 + 3y^7z^4 + 36x^5y^4z \\
& + 36x^4y^5z + 6x^4y^4z^2 - 104x^3y^6z + 6x^3y^5z^2 + 20x^3y^4z^3 + 36x^3y^3z^4 + 2x^2y^8 \\
& - 208x^2y^7z + 40x^2y^5z^3 + 72x^2y^4z^4 + 2xy^9 - 104xy^8z + 20xy^6z^3 + 36xy^5z^4 \\
& + 18x^3y^3z^3 + 4x^2y^7 - 6x^2y^5z^2 + 36x^2y^4z^3 + 8xy^8 - 12xy^6z^2 + 6xy^5z^3 + 4y^9 \\
& - 6y^7z^2 - 12y^6z^3 - 18x^5y^2z - 18x^4y^3z - 40x^3y^4z - 80x^2y^5z - 40xy^6z \\
& - 6xy^5z^2 - 6y^6z^2 - 24x^3y^3z - 48x^2y^4z - 24xy^5z + 6xy^3z^3 + 6y^4z^3 + 12xy^5 \\
& + 3xy^3z^2 + 12y^6 + 3y^4z^2 - 3x^3z - 6x^2yz - 6xy^3 - 3xy^2z - 6y^4 - xy^2 - 2y^3) \\
& , \frac{1}{y^3} (-72x^9y^{18}z^5 - 72x^8y^{19}z^5 + 216x^{10}y^{16}z^4 - 72x^{10}y^{15}z^5 + 216x^9y^{17}z^4 \\
& - 72x^9y^{16}z^5 + 18x^9y^{15}z^5 + 18x^8y^{16}z^5 - 72x^6y^{17}z^6 - 72x^5y^{18}z^6 + 216x^{11}y^{13}z^4 \\
& + 216x^{10}y^{14}z^4 + 12x^7y^{17}z^4 - 36x^6y^{17}z^5 - 36x^5y^{18}z^5 - 54x^{10}y^{13}z^4 \\
& + 18x^{10}y^{12}z^5 - 54x^9y^{14}z^4 + 18x^9y^{13}z^5 - 72x^7y^{14}z^6 - 72x^6y^{15}z^6 - 36x^8y^{15}z^3 \\
& + 12x^8y^{14}z^4 - 36x^7y^{14}z^5 + 72x^6y^{17}z^3 - 36x^6y^{15}z^5 + 42x^6y^{14}z^6 + 72x^5y^{18}z^3 \\
& + 42x^5y^{15}z^6 - 54x^{11}y^{10}z^4 - 54x^{10}y^{11}z^4 + 9x^6y^{14}z^5 + 21x^5y^{15}z^5 + 24x^4y^{16}z^5 \\
& - 36x^9y^{12}z^3 + 72x^7y^{14}z^3 - 72x^7y^{12}z^5 + 18x^7y^{11}z^6 + 72x^6y^{15}z^3 - 72x^6y^{13}z^5 \\
& + 18x^6y^{12}z^6 + 6x^4y^{16}z^4 + 9x^7y^{11}z^5 - 18x^6y^{14}z^3 - 36x^6y^{13}z^4 + 21x^6y^{12}z^5 \\
& - 6x^6y^{11}z^6 - 18x^5y^{15}z^3 - 36x^5y^{14}z^4 + 24x^5y^{13}z^5 - 6x^5y^{12}z^6 + 24x^3y^{13}z^7 \\
& + 24x^2y^{14}z^7 + 6x^5y^{13}z^4 - 3x^5y^{12}z^5 - 12x^4y^{16}z^2 - 7x^4y^{13}z^5 + 12x^3y^{13}z^6
\end{aligned}$$



$$\begin{aligned}
& + 24x^2y^{14}z^6 + 12xy^{15}z^6 + 24x^8y^{11}z^2 + 24x^7y^{12}z^2 - 18x^7y^{11}z^3 - 36x^7y^{10}z^4 \\
& + 18x^7y^9z^5 - 18x^6y^{12}z^3 - 36x^6y^{11}z^4 + 18x^6y^{10}z^5 - 2x^3y^{14}z^4 + 9x^6y^{10}z^4 \\
& - 3x^6y^9z^5 - 12x^5y^{13}z^2 + 21x^5y^{11}z^4 - 3x^5y^{10}z^5 - 24x^3y^{13}z^4 + 12x^3y^{11}z^6 \\
& - 6x^3y^{10}z^7 - 24x^2y^{14}z^4 + 12x^2y^{12}z^6 - 6x^2y^{11}z^7 - 72x^9y^9z - 72x^8y^{10}z \\
& + 24x^6y^{10}z^3 + 24x^5y^{11}z^3 + 6x^4y^{12}z^3 - 2x^4y^{11}z^4 - 3x^3y^{10}z^6 - 12x^2y^{14}z^3 \\
& - 6x^2y^{11}z^6 - 12xy^{15}z^3 - 7xy^{12}z^6 + 9x^7y^7z^4 + 9x^6y^8z^4 + 24x^5y^{10}z^3 \\
& + 24x^4y^{11}z^3 + 12x^2y^{11}z^5 + 10xy^{12}z^5 - 2y^{13}z^5 - 72x^7y^8z^2 - 72x^6y^9z^2 \\
& + 12x^5y^{10}z^2 + 6x^5y^9z^3 + 12x^4y^{11}z^2 - 12x^3y^{11}z^3 + 6x^3y^{10}z^4 - 3x^3y^8z^6 \\
& - 12x^2y^{12}z^3 + 6x^2y^{11}z^4 - 3x^2y^9z^6 + 6x^6y^7z^3 + 6x^5y^8z^3 + 12x^4y^8z^4 \\
& + 36x^3y^9z^4 + 3x^2y^{11}z^3 + 24x^2y^{10}z^4 + 7xy^{12}z^3 - 2xy^{10}z^5 - 24x^5y^{10} \\
& + 104x^5y^7z^3 - 24x^4y^{11} - 2x^4y^9z^2 + 104x^4y^8z^3 + 12x^3y^9z^3 + 12x^2y^{10}z^3 \\
& - 3x^2y^8z^5 - 3xy^9z^5 + 2y^{13}z^2 - 18x^7y^5z^2 - 18x^6y^6z^2 - 36x^5y^6z^3 - 4x^4y^8z^2 \\
& - 36x^4y^7z^3 + 6x^4y^6z^4 - 4x^3y^9z^2 + 3x^3y^8z^3 + 6x^3y^7z^4 + 3x^2y^9z^3 - 2y^{10}z^4 \\
& - 312x^6y^5z^2 + 6x^5y^7z - 312x^5y^6z^2 + 40x^5y^5z^3 + 40x^4y^6z^3 - 24x^3y^9z \\
& + 6x^3y^6z^4 - 24x^2y^{10}z + 6x^2y^7z^4 + 2xy^{10}z^2 + 12xy^7z^5 + 12y^8z^5 + 12x^5y^6z \\
& + 18x^5y^4z^3 + 12x^4y^7z + 18x^4y^5z^3 + 3x^3y^6z^3 + 3x^2y^7z^3 + 104x^2y^6z^4 \\
& - 2xy^8z^3 + 110xy^7z^4 + 6y^8z^4 - 120x^6y^3z^2 - 120x^5y^4z^2 - 12x^3y^6z^2 \\
& + 52x^2y^6z^3 - xy^8z^2 + 48xy^7z^3 + 6xy^5z^5 - 4y^8z^3 + 6y^6z^5 - 108x^6y^2z^2
\end{aligned}$$

$$\begin{aligned}
& - 108 x^5 y^3 z^2 - 6 x^3 y^6 z - 6 x^2 y^7 z + 40 x^2 y^4 z^4 - 12 x y^7 z^2 + 43 x y^5 z^4 - 12 y^8 z^2 \\
& + 3 y^6 z^4 + 36 x^4 y^4 z + 6 x^3 y^4 z^2 - 104 x^2 y^6 z + 20 x^2 y^4 z^3 + 36 x^2 y^3 z^4 + 2 x y^8 \\
& - 104 x y^7 z + 20 x y^5 z^3 + 36 x y^4 z^4 + 18 x^2 y^3 z^3 + 4 x y^7 - 6 x y^5 z^2 + 18 x y^4 z^3 \\
& + 4 y^8 - 6 y^6 z^2 - 12 y^5 z^3 - 18 x^4 y^2 z - 40 x^2 y^4 z - 40 x y^5 z - 6 y^5 z^2 - 24 x^2 y^3 z \\
& - 24 x y^4 z + 6 y^3 z^3 + 12 y^5 + 3 y^3 z^2 - 3 x^2 z - 3 x y z - 6 y^3 + 5 y^2),
\end{aligned}$$

$$\begin{aligned}
& \frac{1}{y} (72 x^9 y^{15} z^3 + 72 x^8 y^{16} z^3 + 72 x^{10} y^{12} z^3 + 72 x^9 y^{13} z^3 - 18 x^9 y^{12} z^3 - 18 x^8 y^{13} z^3 \\
& + 72 x^6 y^{14} z^4 + 72 x^5 y^{15} z^4 - 12 x^7 y^{14} z^2 + 36 x^6 y^{14} z^3 + 36 x^5 y^{15} z^3 - 18 x^{10} y^9 z^3 \\
& - 18 x^9 y^{10} z^3 + 72 x^7 y^{11} z^4 + 72 x^6 y^{12} z^4 - 12 x^8 y^{11} z^2 + 36 x^7 y^{11} z^3 + 36 x^6 y^{12} z^3 \\
& - 42 x^6 y^{11} z^4 - 42 x^5 y^{12} z^4 - 9 x^6 y^{11} z^3 - 21 x^5 y^{12} z^3 - 24 x^4 y^{13} z^3 - 18 x^7 y^8 z^4 \\
& - 18 x^6 y^9 z^4 - 6 x^4 y^{13} z^2 - 9 x^7 y^8 z^3 - 21 x^6 y^9 z^3 + 6 x^6 y^8 z^4 - 24 x^5 y^{10} z^3 \\
& + 6 x^5 y^9 z^4 - 24 x^3 y^{10} z^5 - 24 x^2 y^{11} z^5 - 6 x^5 y^{10} z^2 + 3 x^5 y^9 z^3 + 7 x^4 y^{10} z^3 \\
& - 12 x^3 y^{10} z^4 - 24 x^2 y^{11} z^4 - 12 x y^{12} z^4 - 24 x^8 y^8 - 24 x^7 y^9 + 2 x^3 y^{11} z^2 \\
& + 3 x^6 y^6 z^3 + 3 x^5 y^7 z^3 - 12 x^3 y^8 z^4 + 6 x^3 y^7 z^5 - 12 x^2 y^9 z^4 + 6 x^2 y^8 z^5 - 24 x^6 y^7 z \\
& - 24 x^5 y^8 z + 2 x^4 y^8 z^2 + 3 x^3 y^7 z^4 + 6 x^2 y^8 z^4 + 7 x y^9 z^4 - 24 x^5 y^7 z - 24 x^4 y^8 z \\
& - 12 x^2 y^8 z^3 - 10 x y^9 z^3 + 2 y^{10} z^3 - 12 x^5 y^7 - 12 x^4 y^8 + 3 x^3 y^5 z^4 + 3 x^2 y^6 z^4 \\
& - 6 x^6 y^4 z - 6 x^5 y^5 z - 12 x^4 y^5 z^2 - 36 x^3 y^6 z^2 - 24 x^2 y^7 z^2 + 2 x y^7 z^3 - 104 x^5 y^4 z \\
& + 2 x^4 y^6 - 104 x^4 y^5 z - 12 x^3 y^6 z - 12 x^2 y^7 z + 3 x^2 y^5 z^3 + 3 x y^6 z^3 + 4 x^4 y^5 \\
& - 6 x^4 y^3 z^2 + 4 x^3 y^6 - 6 x^3 y^4 z^2 + 2 y^7 z^2 - 40 x^5 y^2 z - 40 x^4 y^3 z - 6 x^3 y^3 z^2
\end{aligned}$$

$$\begin{aligned}
& - 6x^2y^4z^2 - 12xy^4z^3 - 12y^5z^3 - 36x^5yz - 36x^4y^2z - 3x^3y^3z - 3x^2y^4z \\
& - 104x^2y^3z^2 + 2xy^5z - 110xy^4z^2 - 6y^5z^2 + 12x^3y^3 - 52x^2y^3z + xy^5 \\
& - 48xy^4z - 6xy^2z^3 + 4y^5z - 6y^3z^3 - 40x^2yz^2 - 43xy^2z^2 - 3y^3z^2 - 6x^3y \\
& - 20x^2yz - 36x^2z^2 - 20xy^2z - 36xyz^2 - 18x^2z - 18xyz + 12y^2z + 6y^2 - 6z \\
& - 3), -\frac{1}{y}(72x^6y^{14}z^3 + 72x^5y^{15}z^3 + 72x^7y^{11}z^3 + 72x^6y^{12}z^3 - 18x^6y^{11}z^3 \\
& - 18x^5y^{12}z^3 - 12x^4y^{13}z^2 - 18x^7y^8z^3 - 18x^6y^9z^3 - 12x^5y^{10}z^2 - 24x^3y^{10}z^4 \\
& - 24x^2y^{11}z^4 - 12x^2y^{11}z^3 - 12xy^{12}z^3 - 12x^3y^8z^3 + 6x^3y^7z^4 - 12x^2y^9z^3 \\
& + 6x^2y^8z^4 + 3x^2y^8z^3 + 7xy^9z^3 - 24x^5y^7 - 24x^4y^8 + 2y^{10}z^2 + 3x^3y^5z^3 \\
& + 3x^2y^6z^3 - 24x^3y^6z - 24x^2y^7z + 2xy^7z^2 - 6x^3y^3z - 6x^2y^4z - 12xy^4z^2 \\
& - 12y^5z^2 - 104x^2y^3z + 2xy^5 - 104xy^4z + 4xy^4 - 6xy^2z^2 + 4y^5 - 6y^3z^2 \\
& - 40x^2yz - 40xy^2z - 36x^2z - 36xyz + 12y^2 - 6), -\frac{1}{y}(36x^9y^{14}z^3 \\
& + 36x^8y^{15}z^3 + 36x^{10}y^{11}z^3 + 36x^9y^{12}z^3 - 9x^9y^{11}z^3 - 9x^8y^{12}z^3 - 6x^7y^{13}z^2 \\
& - 9x^{10}y^8z^3 - 9x^9y^9z^3 - 6x^8y^{10}z^2 - 12x^6y^{10}z^4 + 36x^5y^{12}z^3 - 12x^5y^{11}z^4 \\
& + 36x^4y^{13}z^3 + 36x^6y^9z^3 + 36x^5y^{10}z^3 + 3x^6y^7z^4 - 9x^5y^9z^3 + 3x^5y^8z^4 \\
& - 9x^4y^{10}z^3 + 2x^4y^9z^3 - 6x^3y^{11}z^2 - 12x^8y^7 - 12x^7y^8 - 9x^6y^6z^3 - 9x^5y^7z^3 \\
& - 6x^4y^8z^2 - 12x^2y^8z^4 - 12xy^9z^4 - 12x^6y^6z - 12x^5y^7z + 3x^2y^5z^4 + 3xy^6z^4 \\
& - 3x^6y^3z - 3x^5y^4z - 6x^4y^4z^2 - 6x^3y^5z^2 + 2y^7z^3 - 52x^5y^3z - 11x^4y^5 \\
& - 52x^4y^4z - 12x^3y^6 - 3x^4y^2z^2 - 3x^3y^3z^2 - 20x^5yz - 20x^4y^2z - 12x^2y^4z
\end{aligned}$$

$$- 12xy^5z - 18x^5z - 18x^4yz + 6x^3y^2 - 3x^2yz - 3xy^2z - 3x^3 + y^3),$$

$$\frac{1}{y} (36x^6y^{14}z^3 + 36x^5y^{15}z^3 + 36x^7y^{11}z^3 + 36x^6y^{12}z^3 - 9x^6y^{11}z^3 - 9x^5y^{12}z^3 - 6x^4y^{13}z^2 - 9x^7y^8z^3 - 9x^6y^9z^3 - 6x^5y^{10}z^2 - 12x^3y^{10}z^4 - 12x^2y^{11}z^4 + 3x^3y^7z^4 + 3x^2y^8z^4 + 2xy^9z^3 - 12x^5y^7 - 12x^4y^8 - 12x^3y^6z - 12x^2y^7z - 3x^3y^3z - 3x^2y^4z - 6xy^4z^2 - 6y^5z^2 - 52x^2y^3z + xy^5 - 52xy^4z - 3xy^2z^2 - 3y^3z^2 - 20x^2yz - 20xy^2z - 18x^2z - 18xyz + 6y^2 - 3),$$

$$\left[ -\frac{1}{y^4} (12x^8y^{19}z^6 + 12x^7y^{20}z^6 - 36x^9y^{18}z^5 - 36x^8y^{19}z^5 - 36x^9y^{17}z^5 + 12x^9y^{16}z^6 - 36x^8y^{18}z^5 + 12x^8y^{17}z^6 + 108x^{10}y^{16}z^4 - 72x^{10}y^{15}z^5 + 108x^9y^{17}z^4 - 72x^9y^{16}z^5 + 12x^5y^{18}z^7 + 12x^4y^{19}z^7 - 36x^{10}y^{14}z^5 - 36x^9y^{15}z^5 - 36x^6y^{17}z^6 - 30x^5y^{18}z^6 + 6x^4y^{19}z^6 + 216x^{11}y^{13}z^4 - 36x^{11}y^{12}z^5 + 216x^{10}y^{14}z^4 - 36x^{10}y^{13}z^5 - 18x^6y^{17}z^5 + 12x^6y^{15}z^7 - 18x^5y^{18}z^5 + 12x^5y^{16}z^7 - 72x^7y^{14}z^6 - 66x^6y^{15}z^6 - 12x^5y^{18}z^4 + 6x^5y^{16}z^6 - 4x^5y^{15}z^7 - 12x^4y^{19}z^4 - 4x^4y^{16}z^7 + 108x^{12}y^{10}z^4 + 108x^{11}y^{11}z^4 - 36x^7y^{14}z^5 + 36x^6y^{17}z^3 - 36x^6y^{15}z^5 + 12x^6y^{14}z^6 + 36x^5y^{18}z^3 + 12x^5y^{15}z^6 - 2x^4y^{16}z^6 - 2x^3y^{17}z^6 - 36x^8y^{11}z^6 - 36x^7y^{12}z^6 - 12x^6y^{15}z^4 + 12x^6y^{13}z^6 - 12x^5y^{16}z^4 + 6x^5y^{15}z^5 + 12x^5y^{14}z^6 + 6x^4y^{16}z^5 - 18x^8y^{11}z^5 + 72x^7y^{14}z^3 - 54x^7y^{12}z^5 + 12x^7y^{11}z^6 + 72x^6y^{15}z^3 - 36x^6y^{13}z^5 + 12x^6y^{12}z^6 + 6x^5y^{14}z^5 - 2x^5y^{13}z^6 + 6x^4y^{15}z^5 - 2x^4y^{14}z^6 - 4x^2y^{14}z^8 - 4xy^{15}z^8 - 18x^6y^{13}z^4 + 12x^6y^{12}z^5 - 18x^5y^{14}z^4 + 12x^5y^{13}z^5 + 12x^3y^{13}z^7 + 10x^2y^{14}z^7 - 4xy^{15}z^7 - 2y^{16}z^7$$

$$\begin{aligned}
& + 36x^8y^{11}z^3 - 36x^8y^9z^5 + 36x^7y^{12}z^3 - 36x^7y^{10}z^5 + 6x^6y^{11}z^5 + 6x^5y^{12}z^5 \\
& + 6x^3y^{13}z^6 + 12x^2y^{14}z^6 + 6xy^{15}z^6 - 18x^8y^{11}z^2 - 18x^7y^{12}z^2 - 36x^7y^{10}z^4 \\
& + 6x^7y^9z^5 - 36x^6y^{11}z^4 + 6x^6y^{10}z^5 + 12x^4y^{10}z^7 + 12x^3y^{11}z^7 + 4x^2y^{14}z^5 \\
& - 2x^2y^{12}z^7 + 4xy^{15}z^5 - 2xy^{13}z^7 - 2x^5y^{11}z^4 - 2x^4y^{12}z^4 + 6x^4y^{10}z^6 \\
& - 12x^3y^{13}z^4 + 18x^3y^{11}z^6 - 12x^2y^{14}z^4 + 12x^2y^{12}z^6 + 2xy^{15}z^4 + 2y^{16}z^4 \\
& + 54x^9y^9z + 54x^8y^{10}z - 18x^8y^7z^4 - 18x^7y^8z^4 - 6x^2y^{14}z^3 - 6xy^{15}z^3 \\
& - 2xy^{12}z^6 - 2y^{13}z^6 + 6x^6y^9z^3 - 12x^5y^{10}z^3 - 18x^4y^{11}z^3 - 12x^4y^{10}z^4 \\
& + 6x^4y^8z^6 - 12x^3y^{11}z^4 + 6x^3y^9z^6 + 2x^2y^{12}z^4 + 6x^2y^{11}z^5 + 2xy^{13}z^4 \\
& + 6xy^{12}z^5 - 9x^5y^{10}z^2 - 9x^4y^{11}z^2 - 12x^3y^{11}z^3 - 12x^2y^{12}z^3 - 2x^2y^{10}z^5 \\
& - 2xy^{11}z^5 - 12x^4y^8z^4 - 12x^3y^9z^4 + 6x^3y^8z^5 - x^2y^{10}z^4 + 6x^2y^9z^5 - xy^{11}z^4 \\
& + 18x^5y^{10} + 2x^5y^7z^3 + 18x^4y^{11} - 4x^4y^8z^3 - 6x^3y^9z^3 + 36x^5y^6z^3 + 3x^4y^8z^2 \\
& + 36x^4y^7z^3 + 6x^4y^6z^4 + 3x^3y^9z^2 + 6x^3y^7z^4 + 2x^2y^{10}z^2 + 2xy^{11}z^2 - 6x^6y^5z^2 \\
& - 6x^5y^6z^2 + 16x^5y^5z^3 + 16x^4y^6z^3 - 12xy^7z^5 - 12y^8z^5 - 9x^5y^6z - 18x^5y^4z^3 \\
& - 9x^4y^7z - 18x^4y^5z^3 + 2x^2y^6z^4 - 4xy^7z^4 - 6y^8z^4 - 48x^6y^3z^2 + 16x^6y^2z^3 \\
& - 48x^5y^4z^2 + 16x^5y^3z^3 + 12x^4y^4z^3 + 12x^3y^5z^3 + x^2y^6z^3 + 4xy^7z^3 + 6xy^5z^5 \\
& + 3y^8z^3 + 6y^6z^5 + 16x^2y^4z^4 + 12xy^7z^2 + 19xy^5z^4 + 12y^8z^2 + 3y^6z^4 - 48x^7z^2 \\
& - 48x^6yz^2 - 36x^5y^2z^2 - 36x^4y^3z^2 + 6x^4y^2z^3 + 6x^3y^3z^3 - 2x^2y^6z + 8x^2y^4z^3
\end{aligned}$$

$$\begin{aligned}
& -2xy^7z + 8xy^5z^3 + 16x^3yz^4 + 16x^2y^2z^4 - 3xy^7 - 6xy^5z^2 + 12xy^3z^4 - 3y^8 \\
& -6y^6z^2 + 12y^4z^4 - 18x^5z^2 - 18x^4yz^2 + 8x^3yz^3 - 16x^2y^4z + 8x^2y^2z^3 \\
& -16xy^5z + 6xy^4z^2 + 6xy^3z^3 + 6y^5z^2 + 6y^4z^3 + 6x^2y^3z + 6xy^4z + 6xyz^4 \\
& + 6y^2z^4 - 16x^3yz - 16x^2y^2z - 12xy^3z + 3xyz^3 - 12y^4z + 3y^2z^3 + 6x^3z \\
& + 6x^2yz - 6xyz - 6y^2z), \frac{1}{y^4} (12x^7y^{19}z^6 - 36x^8y^{18}z^5 - 36x^8y^{17}z^5 \\
& + 12x^8y^{16}z^6 + 108x^9y^{16}z^4 - 72x^9y^{15}z^5 + 12x^4y^{18}z^7 - 36x^9y^{14}z^5 - 36x^5y^{17}z^6 \\
& + 6x^4y^{18}z^6 + 216x^{10}y^{13}z^4 - 36x^{10}y^{12}z^5 - 18x^5y^{17}z^5 + 12x^5y^{15}z^7 - 72x^6y^{14}z^6 \\
& + 6x^5y^{15}z^6 - 12x^4y^{18}z^4 - 4x^4y^{15}z^7 + 108x^{11}y^{10}z^4 - 36x^6y^{14}z^5 + 36x^5y^{17}z^3 \\
& + 12x^5y^{14}z^6 - 2x^3y^{16}z^6 - 36x^7y^{11}z^6 - 12x^5y^{15}z^4 + 12x^5y^{13}z^6 + 6x^4y^{15}z^5 \\
& - 18x^7y^{11}z^5 + 72x^6y^{14}z^3 - 36x^6y^{12}z^5 + 12x^6y^{11}z^6 + 6x^4y^{14}z^5 - 2x^4y^{13}z^6 \\
& - 4xy^{14}z^8 - 18x^5y^{13}z^4 + 12x^5y^{12}z^5 + 12x^2y^{13}z^7 - 2xy^{14}z^7 - 2y^{15}z^7 \\
& + 36x^7y^{11}z^3 - 36x^7y^9z^5 + 6x^5y^{11}z^5 + 6x^2y^{13}z^6 + 6xy^{14}z^6 - 18x^7y^{11}z^2 \\
& - 36x^6y^{10}z^4 + 6x^6y^9z^5 + 12x^3y^{10}z^7 + 4xy^{14}z^5 - 2xy^{12}z^7 - 2x^4y^{11}z^4 \\
& + 6x^3y^{10}z^6 - 12x^2y^{13}z^4 + 12x^2y^{11}z^6 + 2y^{15}z^4 + 54x^8y^9z - 18x^7y^7z^4 \\
& - 6xy^{14}z^3 - 2y^{12}z^6 + 6x^5y^9z^3 - 18x^4y^{10}z^3 - 12x^3y^{10}z^4 + 6x^3y^8z^6 + 2xy^{12}z^4 \\
& + 6xy^{11}z^5 - 9x^4y^{10}z^2 - 12x^2y^{11}z^3 - 2xy^{10}z^5 - 12x^3y^8z^4 + 6x^2y^8z^5 - xy^{10}z^4 \\
& + 18x^4y^{10} + 2x^4y^7z^3 - 6x^3y^8z^3 + 36x^4y^6z^3 + 3x^3y^8z^2 + 6x^3y^6z^4 + 2xy^{10}z^2
\end{aligned}$$

$$\begin{aligned}
& -6x^5y^5z^2 + 16x^4y^5z^3 - 12y^7z^5 - 9x^4y^6z - 18x^4y^4z^3 + 2xy^6z^4 - 6y^7z^4 \\
& -48x^5y^3z^2 + 16x^5y^2z^3 + 12x^3y^4z^3 + xy^6z^3 + 3y^7z^3 + 6y^5z^5 + 16xy^4z^4 \\
& + 12y^7z^2 + 3y^5z^4 - 48x^6z^2 - 36x^4y^2z^2 + 6x^3y^2z^3 - 2xy^6z + 8xy^4z^3 \\
& + 16x^2yz^4 - 3y^7 - 6y^5z^2 + 12y^3z^4 - 18x^4z^2 + 8x^2yz^3 - 16xy^4z + 6y^4z^2 \\
& + 6y^3z^3 + 6xy^3z + 6yz^4 - 16x^2yz - 12y^3z + 3yz^3 + 6x^2z - 6yz), \frac{1}{y^4} ( \\
& -12x^7y^{18}z^4 + 36x^8y^{17}z^3 - 12x^8y^{15}z^4 + 72x^9y^{14}z^3 - 12x^4y^{17}z^5 + 36x^5y^{16}z^4 \\
& - 6x^4y^{17}z^4 + 36x^{10}y^{11}z^3 + 18x^5y^{16}z^3 - 12x^5y^{14}z^5 + 72x^6y^{13}z^4 - 6x^5y^{14}z^4 \\
& + 4x^4y^{14}z^5 + 36x^6y^{13}z^3 - 12x^5y^{13}z^4 + 2x^3y^{15}z^4 + 36x^7y^{10}z^4 - 6x^4y^{14}z^3 \\
& + 18x^7y^{10}z^3 - 12x^6y^{10}z^4 + 2x^4y^{12}z^4 + 4xy^{13}z^6 - 12x^5y^{11}z^3 - 12x^2y^{12}z^5 \\
& + 2xy^{13}z^5 + 2y^{14}z^5 - 6x^2y^{12}z^4 - 6xy^{13}z^4 + 18x^7y^{10} - 6x^6y^8z^3 - 12x^3y^9z^5 \\
& + 2xy^{11}z^5 + 2x^4y^{10}z^2 - 6x^3y^9z^4 - 12x^2y^{10}z^4 + 2y^{11}z^4 + 18x^4y^9z - 6x^3y^7z^4 \\
& - 6xy^{10}z^3 + 9x^4y^9 + 2xy^9z^3 + 12x^3y^7z^2 - 6x^2y^7z^3 + xy^9z^2 - 2x^4y^6z - 3x^3y^7 \\
& - 6x^3y^5z^2 - 16x^4y^4z + 12y^6z^3 - 2xy^5z^2 + 6y^6z^2 - 16x^5yz - 12x^3y^3z - xy^5z \\
& - 3y^6z - 6y^4z^3 - 16xy^3z^2 - 3y^4z^2 - 6x^3yz - 8xy^3z - 16x^2z^2 - 12y^2z^2 \\
& - 8x^2z - 6y^2z - 6z^2 - 3z), -\frac{1}{y^4} (-12x^4y^{17}z^4 + 36x^5y^{16}z^3 - 12x^5y^{14}z^4 \\
& + 72x^6y^{13}z^3 + 36x^7y^{10}z^3 + 4xy^{13}z^5 - 12x^2y^{12}z^4 + 2y^{14}z^4 - 6xy^{13}z^3 \\
& - 12x^3y^9z^4 + 2xy^{11}z^4 - 12x^2y^{10}z^3 + 18x^4y^9 - 6x^3y^7z^3 + 2xy^9z^2 + 12y^6z^2
\end{aligned}$$

$$\begin{aligned}
& - 2xy^5z - 3y^6 - 6y^4z^2 - 16xy^3z - 16x^2z - 12y^2z - 6z), -\frac{1}{y^4}(-6x^7y^{17}z^4 \\
& + 18x^8y^{16}z^3 - 6x^8y^{14}z^4 + 36x^9y^{13}z^3 + 18x^{10}y^{10}z^3 + 2x^4y^{13}z^5 - 6x^3y^{15}z^4 \\
& - 6x^5y^{12}z^4 + 18x^4y^{14}z^3 - 6x^4y^{12}z^4 - 6x^6y^9z^4 + 36x^5y^{11}z^3 + 18x^6y^8z^3 \\
& + 9x^7y^9 + 2y^{11}z^5 + x^4y^9z^2 - 6xy^{10}z^4 - 6x^2y^7z^4 + 6x^3y^6z^2 - x^4y^5z + 9x^3y^7 \\
& - 3x^3y^4z^2 + y^7z^2 - 8x^4y^3z - 8x^5z - 6x^3y^2z - 3x^3z - y^3z), \frac{1}{y^4}( \\
& -6x^4y^{17}z^4 + 18x^5y^{16}z^3 - 6x^5y^{14}z^4 + 36x^6y^{13}z^3 + 18x^7y^{10}z^3 + 2xy^{13}z^5 \\
& - 6x^2y^{12}z^4 - 6x^3y^9z^4 + 9x^4y^9 + xy^9z^2 + 6y^6z^2 - xy^5z - 3y^4z^2 - 8xy^3z \\
& - 8x^2z - 6y^2z - 3z)], \\
& \left[ -\frac{1}{y^4}(-36x^{12}y^{19}z^5 - 36x^{11}y^{20}z^5 + 36x^{12}y^{18}z^5 + 36x^{11}y^{19}z^5 + 108x^{13}y^{17}z^4 \right. \\
& - 72x^{13}y^{16}z^5 + 108x^{12}y^{18}z^4 - 72x^{12}y^{17}z^5 - 108x^{13}y^{16}z^4 + 36x^{13}y^{15}z^5 \\
& - 108x^{12}y^{17}z^4 + 36x^{12}y^{16}z^5 - 72x^9y^{18}z^6 - 72x^8y^{19}z^6 + 216x^{14}y^{14}z^4 \\
& - 36x^{14}y^{13}z^5 + 216x^{13}y^{15}z^4 - 36x^{13}y^{14}z^5 - 18x^9y^{18}z^5 + 36x^9y^{17}z^6 \\
& - 18x^8y^{19}z^5 + 36x^8y^{18}z^6 - 108x^{14}y^{13}z^4 - 108x^{13}y^{14}z^4 + 108x^{10}y^{16}z^5 \\
& - 144x^{10}y^{15}z^6 + 126x^9y^{17}z^5 - 144x^9y^{16}z^6 + 12x^8y^{19}z^4 + 18x^8y^{18}z^5 \\
& + 12x^7y^{20}z^4 + 108x^{15}y^{11}z^4 + 108x^{14}y^{12}z^4 - 36x^{10}y^{15}z^5 + 36x^{10}y^{14}z^6 \\
& + 36x^9y^{18}z^3 - 36x^9y^{16}z^5 + 48x^9y^{15}z^6 + 36x^8y^{19}z^3 + 12x^8y^{16}z^6 - 36x^6y^{17}z^7 \\
& - 36x^5y^{18}z^7 + 216x^{11}y^{13}z^5 - 72x^{11}y^{12}z^6 + 234x^{10}y^{14}z^5 - 72x^{10}y^{13}z^6 \\
& \left. - 72x^9y^{17}z^3 + 12x^9y^{16}z^4 - 18x^9y^{15}z^5 - 12x^9y^{14}z^6 - 72x^8y^{18}z^3 + 12x^8y^{17}z^4 \right]
\end{aligned}$$



$$\begin{aligned}
& - 30x^8y^{16}z^5 - 12x^8y^{15}z^6 + 6x^7y^{17}z^5 - 18x^6y^{17}z^6 - 18x^5y^{18}z^6 - 18x^{11}y^{12}z^5 \\
& + 72x^{10}y^{15}z^3 - 54x^{10}y^{13}z^5 + 12x^{10}y^{12}z^6 + 72x^9y^{16}z^3 - 36x^9y^{14}z^5 \\
& + 12x^9y^{13}z^6 - 6x^8y^{15}z^5 - 6x^7y^{16}z^5 - 72x^7y^{14}z^7 - 72x^6y^{15}z^7 + 12x^5y^{18}z^5 \\
& + 12x^4y^{19}z^5 + 108x^{12}y^{10}z^5 + 108x^{11}y^{11}z^5 - 72x^{10}y^{14}z^3 + 108x^{10}y^{13}z^4 \\
& - 72x^9y^{15}z^3 + 90x^9y^{14}z^4 + 12x^9y^{13}z^5 - 18x^8y^{15}z^4 + 12x^8y^{14}z^5 - 36x^7y^{14}z^6 \\
& + 36x^6y^{17}z^4 - 36x^6y^{15}z^6 + 24x^6y^{14}z^7 + 42x^5y^{18}z^4 + 24x^5y^{15}z^7 + 6x^4y^{19}z^4 \\
& + 36x^{11}y^{12}z^3 - 36x^{11}y^{10}z^5 + 36x^{10}y^{13}z^3 - 36x^{10}y^{11}z^5 + 18x^9y^{13}z^4 \\
& - 6x^9y^{12}z^5 + 18x^8y^{14}z^4 - 6x^8y^{13}z^5 - 36x^8y^{11}z^7 - 36x^7y^{12}z^7 + 12x^6y^{15}z^5 \\
& - 30x^6y^{14}z^6 - 12x^6y^{13}z^7 + 12x^5y^{16}z^5 - 18x^5y^{15}z^6 - 12x^5y^{14}z^7 + 12x^4y^{16}z^6 \\
& - 18x^{11}y^{12}z^2 + 108x^{11}y^{10}z^4 - 18x^{10}y^{13}z^2 + 72x^{10}y^{11}z^4 + 6x^{10}y^{10}z^5 \\
& - 36x^9y^{12}z^4 + 6x^9y^{11}z^5 - 18x^8y^{11}z^6 + 72x^7y^{14}z^4 - 54x^7y^{12}z^6 + 24x^7y^{11}z^7 \\
& + 78x^6y^{15}z^4 - 18x^6y^{14}z^5 - 42x^6y^{13}z^6 + 24x^6y^{12}z^7 - 12x^5y^{18}z^2 + 6x^5y^{16}z^4 \\
& - 22x^5y^{15}z^5 - 12x^5y^{14}z^6 - 12x^4y^{19}z^2 - 4x^4y^{16}z^5 - 6x^4y^{15}z^6 + 18x^{10}y^{10}z^4 \\
& + 18x^9y^{11}z^4 - 30x^7y^{11}z^6 - 12x^6y^{14}z^4 - 18x^6y^{13}z^5 - 6x^6y^{12}z^6 - 12x^5y^{15}z^4 \\
& - 18x^5y^{14}z^5 + 24x^5y^{13}z^6 - 2x^4y^{16}z^4 - 2x^3y^{17}z^4 + 12x^3y^{13}z^8 + 12x^2y^{14}z^8 \\
& + 54x^{12}y^{10}z + 54x^{11}y^{11}z - 18x^{11}y^8z^4 - 18x^{10}y^9z^4 + 36x^8y^{11}z^4 - 36x^8y^9z^6 \\
& + 36x^7y^{12}z^4 - 18x^7y^{11}z^5 - 36x^7y^{10}z^6 - 12x^6y^{15}z^2 + 36x^6y^{14}z^3 + 24x^6y^{13}z^4
\end{aligned}$$

$$\begin{aligned}
& - 18x^6y^{12}z^5 + 6x^6y^{11}z^6 - 12x^5y^{16}z^2 + 30x^5y^{15}z^3 + 24x^5y^{14}z^4 + 6x^5y^{12}z^6 \\
& - 6x^4y^{16}z^3 + 6x^3y^{13}z^7 + 12x^2y^{14}z^7 + 6xy^{15}z^7 - 6x^9y^{10}z^3 - 42x^8y^{11}z^3 \\
& - 36x^7y^{12}z^3 - 12x^7y^{11}z^4 - 36x^7y^{10}z^5 + 12x^7y^9z^6 - 12x^6y^{12}z^4 - 36x^6y^{11}z^5 \\
& + 12x^6y^{10}z^6 + 12x^5y^{14}z^3 - 2x^5y^{13}z^4 + 12x^5y^{12}z^5 + 12x^4y^{15}z^3 - 2x^4y^{14}z^4 \\
& + 12x^4y^{13}z^5 + 12x^4y^{10}z^8 + 12x^3y^{11}z^8 - 4x^2y^{14}z^6 - 4xy^{15}z^6 - 9x^8y^{11}z^2 \\
& - 9x^7y^{12}z^2 + 36x^7y^{11}z^3 - 36x^7y^9z^5 + 24x^6y^{12}z^3 - 36x^6y^{10}z^5 - 12x^5y^{13}z^3 \\
& - 6x^5y^{11}z^5 - 6x^4y^{12}z^5 + 6x^4y^{10}z^7 - 12x^3y^{13}z^5 + 18x^3y^{11}z^7 - 14x^2y^{14}z^5 \\
& + 12x^2y^{12}z^7 - 4xy^{15}z^5 - 2y^{16}z^5 + 18x^{10}y^8z^2 + 72x^9y^9z^2 + 54x^8y^{10}z^2 \\
& - 18x^8y^7z^5 - 18x^7y^8z^5 + 12x^6y^{11}z^3 - 18x^6y^{10}z^4 + 12x^6y^9z^5 + 12x^5y^{12}z^3 \\
& - 18x^5y^{11}z^4 + 12x^5y^{10}z^5 + 12x^3y^{10}z^7 - 6x^2y^{14}z^4 + 12x^2y^{11}z^7 - 6xy^{15}z^4 \\
& + 18x^8y^{11} + 2x^8y^8z^3 + 18x^7y^{12} - 4x^7y^9z^3 - 6x^6y^{10}z^3 - 6x^6y^9z^4 - 24x^5y^{10}z^4 \\
& - 18x^4y^{11}z^4 - 12x^4y^{10}z^5 + 6x^4y^8z^7 - 12x^3y^{11}z^5 + 6x^3y^{10}z^6 + 6x^3y^9z^7 \\
& + 4x^2y^{14}z^3 - 2x^2y^{12}z^5 + 18x^2y^{11}z^6 + 4xy^{15}z^3 - 2xy^{13}z^5 + 12xy^{12}z^6 \\
& + 12x^8y^8z^2 - 36x^8y^7z^3 + 15x^7y^9z^2 - 36x^7y^8z^3 - 18x^7y^7z^4 + 3x^6y^{10}z^2 \\
& - 3x^6y^9z^3 - 18x^6y^8z^4 - 2x^5y^{11}z^2 - 12x^5y^{10}z^3 - 2x^4y^{12}z^2 - 9x^4y^{11}z^3 \\
& - 12x^3y^{11}z^4 - 12x^2y^{12}z^4 + 2xy^{15}z^2 + 2y^{16}z^2 - 6x^9y^6z^2 - 6x^8y^7z^2 \\
& + 16x^8y^6z^3 + 16x^7y^7z^3 - 12x^3y^{10}z^4 + 12x^3y^8z^6 - 12x^2y^{11}z^4 + 12x^2y^9z^6
\end{aligned}$$

$$\begin{aligned}
& - 2xy^{12}z^4 - 2y^{13}z^4 - 36x^9y^6z + 108x^9y^5z^2 - 45x^8y^7z + 108x^8y^6z^2 \\
& + 18x^8y^5z^3 - 9x^7y^8z + 18x^7y^6z^3 + 12x^6y^9z + 30x^5y^{10}z + 4x^5y^7z^4 \\
& + 18x^4y^{11}z - 2x^4y^8z^4 - 6x^3y^9z^4 + 2x^2y^{12}z^2 - 6x^2y^{11}z^3 + 2xy^{13}z^2 - 6xy^{12}z^3 \\
& - 48x^9y^4z^2 + 16x^9y^3z^3 - 48x^8y^5z^2 + 16x^8y^4z^3 + 12x^7y^5z^3 + 12x^6y^6z^3 \\
& + 13x^5y^7z^3 - 36x^5y^6z^4 + 19x^4y^8z^3 - 36x^4y^7z^4 + 6x^3y^9z^3 - 2x^2y^{10}z^3 \\
& + 6x^2y^8z^5 - 2xy^{11}z^3 + 6xy^9z^5 - 54x^9y^3z^2 - 54x^8y^4z^2 + 36x^7y^5z^2 \\
& + 36x^6y^6z^2 - 6x^6y^5z^3 + 6x^5y^7z^2 - 24x^5y^6z^3 + 32x^5y^5z^4 - 6x^4y^8z^2 \\
& - 18x^4y^7z^3 + 32x^4y^6z^4 - 12x^3y^9z^2 - 6x^3y^8z^3 - x^2y^{10}z^2 - 6x^2y^9z^3 - xy^{11}z^2 \\
& - 48x^{10}yz^2 - 48x^9y^2z^2 - 36x^8y^3z^2 - 36x^7y^4z^2 + 6x^7y^3z^3 + 6x^6y^4z^3 \\
& - 2x^5y^7z - 9x^5y^6z^2 + 8x^5y^5z^3 + 18x^5y^4z^4 - 2x^4y^8z - 9x^4y^7z^2 + 8x^4y^6z^3 \\
& + 18x^4y^5z^4 + 2x^2y^6z^5 + 2xy^7z^5 - 108x^8y^3z - 108x^7y^4z + 18x^7y^3z^2 \\
& + 18x^6y^4z^2 - 48x^6y^3z^3 + 32x^6y^2z^4 - 12x^5y^7 + 72x^5y^6z - 39x^5y^4z^3 \\
& + 32x^5y^3z^4 - 15x^4y^8 + 72x^4y^7z + 6x^4y^6z^2 + 9x^4y^5z^3 + 24x^4y^4z^4 - 3x^3y^9 \\
& + 6x^3y^7z^2 + 24x^3y^5z^4 + 2x^2y^{10} + x^2y^6z^4 + 2xy^{11} + 4xy^7z^4 + 3y^8z^4 \\
& - 18x^8yz^2 - 18x^7y^2z^2 + 8x^6y^2z^3 - 16x^5y^5z + 8x^5y^3z^3 - 16x^4y^6z - x^4y^5z^2 \\
& + 42x^4y^4z^3 - x^3y^6z^2 + 42x^3y^5z^3 + 16x^2y^4z^5 - 12xy^7z^3 + 16xy^5z^5 - 12y^8z^3 \\
& - 54x^8yz - 54x^7y^2z - 48x^7z^3 - 48x^6yz^3 - 30x^5y^4z - 20x^5y^2z^3 - 30x^4y^5z
\end{aligned}$$

$$\begin{aligned}
& + 18x^4y^4z^2 - 20x^4y^3z^3 + 12x^4y^2z^4 + 18x^3y^5z^2 + 12x^3y^3z^4 - 2x^2y^6z^2 \\
& + 8x^2y^4z^4 - 8xy^7z^2 + 8xy^5z^4 - 6y^8z^2 - 16x^6y^2z - x^5y^3z + 3x^4y^4z \\
& + 21x^4y^2z^3 - 12x^3y^5z + 21x^3y^3z^3 + 16x^3yz^5 + 16x^2y^2z^5 - 3xy^7z + 6xy^5z^3 \\
& + 12xy^3z^5 - 3y^8z + 6y^6z^3 + 12y^4z^5 + 6x^6yz - 48x^6z^2 + 6x^5y^2z - 48x^5yz^2 \\
& - 18x^5z^3 - 36x^4y^4 + 9x^4y^2z^2 - 18x^4yz^3 - 36x^3y^5 + 9x^3y^3z^2 + 8x^3yz^4 \\
& - 16x^2y^4z^2 + 8x^2y^2z^4 + 12xy^7 - 13xy^5z^2 + 6xy^3z^4 + 12y^8 + 3y^6z^2 + 6y^4z^4 \\
& - 6x^4y^2z - 6x^3y^3z + 6x^2y^3z^2 + 16x^2yz^4 + 6xy^4z^2 + 16xy^2z^4 + 6xyz^5 \\
& + 6y^2z^5 - 18x^4y^2 - 18x^3y^3 - 16x^3yz^2 - 16x^2y^2z^2 + 8x^2yz^3 - 6xy^5 \\
& - 12xy^3z^2 + 8xy^2z^3 + 3xyz^4 - 6y^6 - 12y^4z^2 + 3y^2z^4 + 6x^3z^2 + 6x^2yz^2 \\
& + 6xy^4 + 6y^5 - 16x^2yz - 16xy^2z - 6xyz^2 - 6y^2z^2 + 6x^2z + 6xyz), \frac{1}{y^4} ( \\
& -36x^{11}y^{19}z^5 + 36x^{11}y^{18}z^5 + 108x^{12}y^{17}z^4 - 72x^{12}y^{16}z^5 - 108x^{12}y^{16}z^4 \\
& + 36x^{12}y^{15}z^5 - 72x^8y^{18}z^6 + 216x^{13}y^{14}z^4 - 36x^{13}y^{13}z^5 - 18x^8y^{18}z^5 \\
& + 36x^8y^{17}z^6 - 108x^{13}y^{13}z^4 + 108x^9y^{16}z^5 - 144x^9y^{15}z^6 + 18x^8y^{17}z^5 \\
& + 12x^7y^{19}z^4 + 108x^{14}y^{11}z^4 - 36x^9y^{15}z^5 + 36x^9y^{14}z^6 + 36x^8y^{18}z^3 + 12x^8y^{15}z^6 \\
& - 36x^5y^{17}z^7 + 216x^{10}y^{13}z^5 - 72x^{10}y^{12}z^6 + 18x^9y^{14}z^5 - 72x^8y^{17}z^3 \\
& + 12x^8y^{16}z^4 - 36x^8y^{15}z^5 - 12x^8y^{14}z^6 + 6x^7y^{16}z^5 - 18x^5y^{17}z^6 - 18x^{10}y^{12}z^5 \\
& + 72x^9y^{15}z^3 - 36x^9y^{13}z^5 + 12x^9y^{12}z^6 - 6x^7y^{15}z^5 - 72x^6y^{14}z^7 + 12x^4y^{18}z^5
\end{aligned}$$

$$\begin{aligned}
& + 108x^{11}y^{10}z^5 - 72x^9y^{14}z^3 + 108x^9y^{13}z^4 - 18x^8y^{14}z^4 + 12x^8y^{13}z^5 \\
& - 36x^6y^{14}z^6 + 36x^5y^{17}z^4 + 24x^5y^{14}z^7 + 6x^4y^{18}z^4 + 36x^{10}y^{12}z^3 - 36x^{10}y^{10}z^5 \\
& + 18x^8y^{13}z^4 - 6x^8y^{12}z^5 - 36x^7y^{11}z^7 + 12x^5y^{15}z^5 - 30x^5y^{14}z^6 - 12x^5y^{13}z^7 \\
& + 12x^4y^{15}z^6 - 18x^{10}y^{12}z^2 + 108x^{10}y^{10}z^4 - 36x^9y^{11}z^4 + 6x^9y^{10}z^5 - 18x^7y^{11}z^6 \\
& + 72x^6y^{14}z^4 - 36x^6y^{12}z^6 + 24x^6y^{11}z^7 + 6x^5y^{15}z^4 - 18x^5y^{14}z^5 - 6x^5y^{13}z^6 \\
& - 12x^4y^{18}z^2 - 4x^4y^{15}z^5 - 6x^4y^{14}z^6 + 18x^9y^{10}z^4 - 30x^6y^{11}z^6 - 12x^5y^{14}z^4 \\
& - 18x^5y^{13}z^5 + 24x^5y^{12}z^6 - 2x^3y^{16}z^4 + 12x^2y^{13}z^8 + 54x^{11}y^{10}z - 18x^{10}y^8z^4 \\
& + 36x^7y^{11}z^4 - 36x^7y^9z^6 - 18x^6y^{11}z^5 - 12x^5y^{15}z^2 + 36x^5y^{14}z^3 + 24x^5y^{13}z^4 \\
& + 6x^5y^{11}z^6 - 6x^4y^{15}z^3 + 6x^2y^{13}z^7 + 6xy^{14}z^7 - 6x^8y^{10}z^3 - 36x^7y^{11}z^3 \\
& - 12x^6y^{11}z^4 - 36x^6y^{10}z^5 + 12x^6y^9z^6 + 12x^4y^{14}z^3 - 2x^4y^{13}z^4 + 12x^4y^{12}z^5 \\
& + 12x^3y^{10}z^8 - 4xy^{14}z^6 - 9x^7y^{11}z^2 + 36x^6y^{11}z^3 - 36x^6y^9z^5 - 12x^5y^{12}z^3 \\
& - 6x^4y^{11}z^5 + 6x^3y^{10}z^7 - 12x^2y^{13}z^5 + 12x^2y^{11}z^7 - 2xy^{14}z^5 - 2y^{15}z^5 \\
& + 18x^9y^8z^2 + 54x^8y^9z^2 - 18x^7y^7z^5 + 12x^5y^{11}z^3 - 18x^5y^{10}z^4 + 12x^5y^9z^5 \\
& + 12x^2y^{10}z^7 - 6xy^{14}z^4 + 18x^7y^{11} + 2x^7y^8z^3 - 6x^6y^9z^3 - 6x^5y^9z^4 \\
& - 18x^4y^{10}z^4 - 12x^3y^{10}z^5 + 6x^3y^8z^7 + 6x^2y^{10}z^6 + 4xy^{14}z^3 - 2xy^{12}z^5 \\
& + 12xy^{11}z^6 + 12x^7y^8z^2 - 36x^7y^7z^3 + 3x^6y^9z^2 - 18x^6y^7z^4 - 3x^5y^9z^3 \\
& - 2x^4y^{11}z^2 - 9x^4y^{10}z^3 - 12x^2y^{11}z^4 + 2y^{15}z^2 - 6x^8y^6z^2 + 16x^7y^6z^3
\end{aligned}$$

$$\begin{aligned}
& - 12x^2y^{10}z^4 + 12x^2y^8z^6 - 2y^{12}z^4 - 36x^8y^6z + 108x^8y^5z^2 - 9x^7y^7z \\
& + 18x^7y^5z^3 + 12x^5y^9z + 18x^4y^{10}z + 4x^4y^7z^4 - 6x^3y^8z^4 + 2xy^{12}z^2 - 6xy^{11}z^3 \\
& - 48x^8y^4z^2 + 16x^8y^3z^3 + 12x^6y^5z^3 + 13x^4y^7z^3 - 36x^4y^6z^4 + 6x^3y^8z^3 \\
& - 2xy^{10}z^3 + 6xy^8z^5 - 54x^8y^3z^2 + 36x^6y^5z^2 - 6x^5y^5z^3 + 6x^4y^7z^2 - 18x^4y^6z^3 \\
& + 32x^4y^5z^4 - 12x^3y^8z^2 - 6x^2y^8z^3 - xy^{10}z^2 - 48x^9yz^2 - 36x^7y^3z^2 + 6x^6y^3z^3 \\
& - 2x^4y^7z - 9x^4y^6z^2 + 8x^4y^5z^3 + 18x^4y^4z^4 + 2xy^6z^5 - 108x^7y^3z + 18x^6y^3z^2 \\
& - 48x^5y^3z^3 + 32x^5y^2z^4 - 12x^4y^7 + 72x^4y^6z + 9x^4y^4z^3 - 3x^3y^8 + 6x^3y^6z^2 \\
& + 24x^3y^4z^4 + 2xy^{10} + xy^6z^4 + 3y^7z^4 - 18x^7yz^2 + 8x^5y^2z^3 - 16x^4y^5z \\
& - x^3y^5z^2 + 42x^3y^4z^3 + 16xy^4z^5 - 12y^7z^3 - 54x^7yz - 48x^6z^3 - 30x^4y^4z \\
& - 20x^4y^2z^3 + 18x^3y^4z^2 + 12x^3y^2z^4 - 2xy^6z^2 + 8xy^4z^4 - 6y^7z^2 - 16x^5y^2z \\
& + 15x^4y^3z - 12x^3y^4z + 21x^3y^2z^3 + 16x^2yz^5 - 3y^7z + 6y^5z^3 + 12y^3z^5 \\
& + 6x^5yz - 48x^5z^2 - 18x^4z^3 - 36x^3y^4 + 9x^3y^2z^2 + 8x^2yz^4 - 16xy^4z^2 + 12y^7 \\
& + 3y^5z^2 + 6y^3z^4 - 6x^3y^2z + 6xy^3z^2 + 16xyz^4 + 6yz^5 - 18x^3y^2 - 16x^2yz^2 \\
& + 8xyz^3 - 6y^5 - 12y^3z^2 + 3yz^4 + 6x^2z^2 + 6y^4 - 16xyz - 6yz^2 + 6xz), \\
& \frac{1}{y^4} (36x^{11}y^{18}z^3 - 36x^{11}y^{17}z^3 + 72x^{12}y^{15}z^3 - 36x^{12}y^{14}z^3 + 72x^8y^{17}z^4 \\
& + 36x^{13}y^{12}z^3 + 18x^8y^{17}z^3 - 36x^8y^{16}z^4 + 144x^9y^{14}z^4 - 18x^8y^{16}z^3 - 12x^7y^{18}z^2 \\
& + 36x^9y^{14}z^3 - 36x^9y^{13}z^4 - 12x^8y^{14}z^4 + 36x^5y^{16}z^5 + 72x^{10}y^{11}z^4 - 18x^9y^{13}z^3
\end{aligned}$$

$$\begin{aligned}
& - 12x^8y^{15}z^2 + 36x^8y^{14}z^3 + 12x^8y^{13}z^4 - 6x^7y^{15}z^3 + 18x^5y^{16}z^4 + 18x^{10}y^{11}z^3 \\
& - 12x^9y^{11}z^4 + 6x^7y^{14}z^3 + 72x^6y^{13}z^5 - 12x^4y^{17}z^3 + 36x^9y^{11}z^3 - 12x^8y^{12}z^3 \\
& + 36x^6y^{13}z^4 - 24x^5y^{13}z^5 - 6x^4y^{17}z^2 + 6x^8y^{11}z^3 + 36x^7y^{10}z^5 - 12x^5y^{14}z^3 \\
& + 30x^5y^{13}z^4 + 12x^5y^{12}z^5 - 12x^4y^{14}z^4 + 18x^{10}y^{11} - 6x^9y^9z^3 + 18x^7y^{10}z^4 \\
& - 24x^6y^{10}z^5 - 6x^5y^{14}z^2 + 18x^5y^{13}z^3 + 6x^5y^{12}z^4 + 4x^4y^{14}z^3 + 6x^4y^{13}z^4 \\
& + 30x^6y^{10}z^4 - 24x^5y^{11}z^4 + 2x^3y^{15}z^2 - 12x^2y^{12}z^6 + 18x^6y^{10}z^3 - 6x^5y^{10}z^4 \\
& - 6x^2y^{12}z^5 - 6xy^{13}z^5 + 6x^8y^9z + 36x^7y^{10}z - 12x^6y^8z^4 + 2x^4y^{12}z^2 \\
& - 12x^4y^{11}z^3 - 12x^3y^9z^6 + 4xy^{13}z^4 + 9x^7y^{10} + 6x^4y^{10}z^3 - 6x^3y^9z^5 \\
& - 12x^2y^{10}z^5 + 2xy^{13}z^3 + 2y^{14}z^3 - 12x^5y^8z^3 - 12x^2y^9z^5 - 2x^7y^7z + 6x^5y^8z^2 \\
& + 18x^4y^9z^2 - 6x^3y^7z^5 - 6x^2y^9z^4 + 2xy^{11}z^3 - 12xy^{10}z^4 - 12x^7y^7 + 36x^7y^6z \\
& - 3x^6y^8 + 3x^5y^8z + 2x^4y^{10} + 9x^4y^9z - 16x^7y^5z - 12x^2y^7z^4 + 2y^{11}z^2 \\
& - 18x^7y^4z - 4x^4y^6z^2 - 16x^8y^2z - 12x^6y^4z - 13x^4y^6z + 36x^4y^5z^2 - 6x^3y^7z \\
& + 2xy^9z - 6xy^7z^3 - 36x^6y^4 - 6x^4y^6 + 18x^4y^5z - 32x^4y^4z^2 + 12x^3y^7 + xy^9 \\
& - 6x^6y^2z - 8x^4y^4z - 18x^4y^3z^2 - 2xy^5z^3 - 18x^6y^2 - 32x^5yz^2 - 9x^4y^3z \\
& - 6x^3y^5 - 24x^3y^3z^2 - xy^5z^2 - 3y^6z^2 - 8x^5yz + x^3y^4 - 42x^3y^3z - 16xy^3z^3 \\
& + 12y^6z - 16x^4yz - 18x^3y^3 - 12x^3yz^2 - 8xy^3z^2 + 6y^6 - 21x^3yz - 16x^2z^3 \\
& - 6y^4z - 12y^2z^3 - 9x^3y - 8x^2z^2 - 3y^4 - 6y^2z^2 - 16xz^2 - 6z^3 - 8xz - 3z^2),
\end{aligned}$$

$$\begin{aligned}
& -\frac{1}{y^4} (36x^8y^{17}z^3 - 36x^8y^{16}z^3 + 72x^9y^{14}z^3 - 36x^9y^{13}z^3 + 36x^5y^{16}z^4 \\
& + 36x^{10}y^{11}z^3 + 72x^6y^{13}z^4 - 12x^4y^{17}z^2 - 12x^5y^{13}z^4 + 36x^7y^{10}z^4 - 12x^5y^{14}z^2 \\
& + 36x^5y^{13}z^3 + 12x^5y^{12}z^4 - 6x^4y^{14}z^3 - 12x^6y^{10}z^4 + 6x^4y^{13}z^3 + 36x^6y^{10}z^3 \\
& - 12x^5y^{11}z^3 - 12x^2y^{12}z^5 + 6x^5y^{10}z^3 - 6xy^{13}z^4 + 18x^7y^{10} - 6x^6y^8z^3 \\
& - 12x^3y^9z^5 + 4xy^{13}z^3 - 12x^2y^{10}z^4 + 2y^{14}z^2 - 12x^2y^9z^4 + 6x^5y^8z + 18x^4y^9z \\
& - 6x^3y^7z^4 + 2xy^{11}z^2 - 6xy^{10}z^3 - 6x^2y^7z^3 - 2x^4y^6z - 12x^4y^6 + 36x^4y^5z \\
& - 3x^3y^7 + 2xy^9 - 16x^4y^4z - 18x^4y^3z - 2xy^5z^2 - 16x^5yz - 12x^3y^3z - 3y^6z \\
& - 36x^3y^3 - 16xy^3z^2 + 12y^6 - 6x^3yz - 18x^3y - 16x^2z^2 - 6y^4 - 12y^2z^2 - 16xz \\
& - 6z^2), -\frac{1}{y^4} (18x^{11}y^{17}z^3 - 18x^{11}y^{16}z^3 + 36x^{12}y^{14}z^3 - 18x^{12}y^{13}z^3 \\
& + 18x^8y^{16}z^4 + 18x^{13}y^{11}z^3 + 36x^9y^{13}z^4 - 6x^7y^{17}z^2 - 6x^8y^{13}z^4 + 18x^7y^{15}z^3 \\
& + 18x^{10}y^{10}z^4 - 6x^8y^{14}z^2 + 18x^8y^{13}z^3 + 6x^8y^{12}z^4 - 18x^7y^{14}z^3 - 6x^9y^{10}z^4 \\
& + 36x^8y^{12}z^3 + 18x^9y^{10}z^3 - 18x^8y^{11}z^3 - 6x^5y^{12}z^5 + 18x^4y^{14}z^4 + 18x^9y^9z^3 \\
& + 9x^{10}y^{10} - 6x^6y^9z^5 + 36x^5y^{11}z^4 + 2x^4y^{13}z^3 - 6x^3y^{15}z^2 - 6x^4y^{11}z^4 \\
& + 18x^6y^8z^4 - 6x^5y^9z^4 - 6x^4y^{12}z^2 + 18x^4y^{11}z^3 + 6x^4y^{10}z^4 + 3x^8y^8z + 9x^7y^9z \\
& - 6x^5y^8z^4 + 18x^5y^8z^3 - 6xy^{10}z^5 - x^7y^6z + 9x^6y^8 - 6x^2y^7z^5 + 2y^{11}z^3 \\
& - 6x^7y^6 + 18x^7y^5z + x^4y^9 - 8x^7y^4z - 6xy^7z^4 - 9x^7y^3z + 3x^4y^6z - x^4y^5z^2 \\
& + 9x^3y^7z - 8x^8yz - 6x^6y^3z - 18x^6y^3 - 8x^4y^3z^2 + 6x^3y^6 - 3x^6yz - x^3y^4z
\end{aligned}$$



$$-9x^6y - 8x^5z^2 - 9x^3y^4 - 6x^3y^2z^2 + y^7 - 8x^4z - 3x^3z^2 - y^3z^2),$$

$$\frac{1}{y^4} (18x^8y^{17}z^3 - 18x^8y^{16}z^3 + 36x^9y^{14}z^3 - 18x^9y^{13}z^3 + 18x^5y^{16}z^4 + 18x^{10}y^{11}z^3 + 36x^6y^{13}z^4 - 6x^4y^{17}z^2 - 6x^5y^{13}z^4 + 18x^7y^{10}z^4 - 6x^5y^{14}z^2 + 18x^5y^{13}z^3 + 6x^5y^{12}z^4 - 6x^6y^{10}z^4 + 18x^6y^{10}z^3 - 6x^2y^{12}z^5 + 9x^7y^{10} - 6x^3y^9z^5 + 2xy^{13}z^3 - 6x^2y^9z^4 + 3x^5y^8z + 9x^4y^9z - x^4y^6z - 6x^4y^6 + 18x^4y^5z + xy^9 - 8x^4y^4z - 9x^4y^3z - xy^5z^2 - 8x^5yz - 6x^3y^3z - 18x^3y^3 - 8x^3z^2 + 6y^6 - 3x^3yz - 9x^3y - 8x^2z^2 - 3y^4 - 6y^2z^2 - 8xz - 3z^2)],$$

$$\left[ - \frac{(-2x^3y^2z^2 + 6x^4z - 2yz^3 - yz^2 + 2y)(x+y)(2xy^5 - 6y^2 - 3)}{y^4}, \right.$$

$$\left. \frac{(-2x^3y^2z^2 + 6x^4z - 2yz^3 - yz^2 + 2y)(2xy^5 - 6y^2 - 3)}{y^4}, \right.$$

$$\left. \frac{(2x^3y + 2z + 1)(2xy^5 - 6y^2 - 3)}{y^4}, - \frac{2(2xy^5 - 6y^2 - 3)}{y^4}, \right.$$

$$\left. - \frac{2x^4y^5 - 6x^3y^2 - 3x^3 - y^3}{y^4}, \frac{2xy^5 - 6y^2 - 3}{y^4} \right],$$

$$\left[ \frac{1}{y^4} (-36x^9y^{18}z^5 - 36x^8y^{19}z^5 + 108x^{10}y^{16}z^4 - 72x^{10}y^{15}z^5 + 108x^9y^{17}z^4 \right.$$

$$- 72x^9y^{16}z^5 + 72x^9y^{15}z^5 + 72x^8y^{16}z^5 - 36x^6y^{17}z^6 - 36x^5y^{18}z^6 + 216x^{11}y^{13}z^4$$

$$- 36x^{11}y^{12}z^5 + 216x^{10}y^{14}z^4 - 36x^{10}y^{13}z^5 - 18x^6y^{17}z^5 - 18x^5y^{18}z^5$$

$$- 216x^{10}y^{13}z^4 + 72x^{10}y^{12}z^5 - 216x^9y^{14}z^4 + 72x^9y^{13}z^5 - 72x^7y^{14}z^6$$

$$- 72x^6y^{15}z^6 + 108x^{12}y^{10}z^4 + 108x^{11}y^{11}z^4 - 36x^7y^{14}z^5 + 36x^6y^{17}z^3$$

$$- 36x^6y^{15}z^5 + 84x^6y^{14}z^6 + 36x^5y^{18}z^3 + 84x^5y^{15}z^6 - 216x^{11}y^{10}z^4$$

$$- 216x^{10}y^{11}z^4 - 36x^8y^{11}z^6 - 36x^7y^{12}z^6 + 36x^6y^{14}z^5 + 42x^5y^{15}z^5 + 6x^4y^{16}z^5$$

$$- 18x^8y^{11}z^5 + 72x^7y^{14}z^3 - 54x^7y^{12}z^5 + 84x^7y^{11}z^6 + 72x^6y^{15}z^3 - 36x^6y^{13}z^5$$

$$\begin{aligned}
& + 84x^6y^{12}z^6 + 36x^7y^{11}z^5 - 72x^6y^{14}z^3 - 18x^6y^{13}z^4 + 48x^6y^{12}z^5 - 24x^6y^{11}z^6 \\
& - 72x^5y^{15}z^3 - 18x^5y^{14}z^4 + 12x^5y^{13}z^5 - 24x^5y^{12}z^6 + 12x^3y^{13}z^7 + 12x^2y^{14}z^7 \\
& + 36x^8y^{11}z^3 - 36x^8y^9z^5 + 36x^7y^{12}z^3 - 36x^7y^{10}z^5 - 12x^5y^{12}z^5 - 12x^4y^{13}z^5 \\
& + 6x^3y^{13}z^6 + 12x^2y^{14}z^6 + 6xy^{15}z^6 - 18x^8y^{11}z^2 - 18x^7y^{12}z^2 - 72x^7y^{11}z^3 \\
& - 36x^7y^{10}z^4 + 78x^7y^9z^5 - 72x^6y^{12}z^3 - 36x^6y^{11}z^4 + 78x^6y^{10}z^5 + 12x^4y^{10}z^7 \\
& + 12x^3y^{11}z^7 + 36x^6y^{10}z^4 - 12x^6y^9z^5 + 36x^5y^{11}z^4 - 12x^5y^{10}z^5 + 6x^4y^{10}z^6 \\
& - 12x^3y^{13}z^4 + 18x^3y^{11}z^6 - 24x^3y^{10}z^7 - 12x^2y^{14}z^4 + 12x^2y^{12}z^6 - 24x^2y^{11}z^7 \\
& + 54x^9y^9z + 54x^8y^{10}z - 18x^8y^7z^4 - 18x^7y^8z^4 - 12x^3y^{10}z^6 - 6x^2y^{14}z^3 \\
& - 24x^2y^{11}z^6 - 6xy^{15}z^3 - 12xy^{12}z^6 - 24x^8y^8z^2 - 24x^7y^9z^2 + 36x^7y^7z^4 \\
& + 36x^6y^8z^4 - 18x^5y^{10}z^3 - 18x^4y^{11}z^3 - 12x^4y^{10}z^4 + 6x^4y^8z^6 - 12x^3y^{11}z^4 \\
& + 6x^3y^9z^6 + 6x^2y^{11}z^5 + 6xy^{12}z^5 + 4x^8y^7z^2 + 4x^7y^8z^2 - 9x^5y^{10}z^2 - 9x^4y^{11}z^2 \\
& - 12x^3y^{11}z^3 + 24x^3y^{10}z^4 - 12x^3y^8z^6 - 12x^2y^{12}z^3 + 24x^2y^{11}z^4 - 12x^2y^9z^6 \\
& + 72x^9y^6z + 72x^8y^7z + 6x^3y^8z^5 + 12x^2y^{11}z^3 + 6x^2y^9z^5 + 12xy^{12}z^3 \\
& - 12x^9y^5z - 12x^8y^6z + 18x^5y^{10} - 22x^5y^7z^3 + 18x^4y^{11} - 28x^4y^8z^3 - 6x^3y^9z^3 \\
& - 12x^2y^8z^5 - 12xy^9z^5 - 72x^7y^5z^2 - 72x^6y^6z^2 - 12x^5y^7z^2 + 4x^5y^6z^3 \\
& - 9x^4y^8z^2 + 4x^4y^7z^3 + 3x^3y^9z^2 + 12x^3y^8z^3 + 12x^2y^9z^3 - 12x^7y^4z^2 \\
& - 18x^6y^5z^2 - 4x^5y^6z^2 + 16x^5y^5z^3 + 2x^4y^7z^2 + 16x^4y^6z^3 + 216x^8y^3z
\end{aligned}$$

$$\begin{aligned}
& + 216x^7y^4z - 36x^7y^3z^2 - 36x^6y^4z^2 + 24x^5y^7 - 9x^5y^6z + 24x^4y^8 - 9x^4y^7z \\
& + 2x^2y^6z^4 + 2xy^7z^4 + 36x^8y^2z + 36x^7y^3z - 6x^7y^2z^2 - 54x^6y^3z^2 + 16x^6y^2z^3 \\
& - 4x^5y^6 - 48x^5y^4z^2 + 16x^5y^3z^3 - 4x^4y^7 + 2x^4y^5z^2 - 60x^4y^4z^3 + 2x^3y^6z^2 \\
& - 60x^3y^5z^3 + x^2y^6z^3 + 4xy^7z^3 + 3y^8z^3 + 108x^8yz + 108x^7y^2z - 32x^5y^2z^3 \\
& - 36x^4y^4z^2 - 44x^4y^3z^3 - 36x^3y^5z^2 - 12x^3y^4z^3 + 16x^2y^4z^4 + 16xy^5z^4 \\
& + 18x^8z + 18x^7yz - 48x^7z^2 - 48x^6yz^2 - 6x^5y^3z - 36x^5y^2z^2 - 6x^4y^4z \\
& - 42x^4y^3z^2 - 30x^4y^2z^3 - 6x^3y^4z^2 - 30x^3y^3z^3 - 2x^2y^6z + 8x^2y^4z^3 - 2xy^7z \\
& + 8xy^5z^3 + 96x^6z^2 + 96x^5yz^2 + 72x^4y^4 - 18x^4y^2z^2 - 6x^4yz^3 + 72x^3y^5 \\
& - 18x^3y^3z^2 - 6x^3y^2z^3 + 16x^3yz^4 + 16x^2y^2z^4 - 3xy^7 + 2xy^4z^3 + 12xy^3z^4 \\
& - 3y^8 + 2y^5z^3 + 12y^4z^4 - 18x^5z^2 + 12x^4y^3 - 21x^4yz^2 + 12x^3y^4 - 3x^3y^2z^2 \\
& + 8x^3yz^3 - 16x^2y^4z + 8x^2y^2z^3 - 32x^2yz^4 - 16xy^5z + xy^4z^2 + 6xy^3z^3 \\
& - 32xy^2z^4 + y^5z^2 + 6y^4z^3 + 36x^4y^2 + 36x^3y^3 + 6x^2y^3z - 16x^2yz^3 + 6xy^4z \\
& - 16xy^2z^3 + 6xyz^4 + 6y^2z^4 + 6x^4y + 6x^3y^2 - 16x^3yz - 16x^2y^2z - 2xy^4 \\
& - 12xy^3z + 3xyz^3 - 2y^5 - 12y^4z + 3y^2z^3 + 6x^3z + 38x^2yz + 32xy^2z \\
& - 12x^2z - 18xyz - 6y^2z), -\frac{1}{y^4}(-36x^8y^{18}z^5 + 108x^9y^{16}z^4 - 72x^9y^{15}z^5 \\
& + 72x^8y^{15}z^5 - 36x^5y^{17}z^6 + 216x^{10}y^{13}z^4 - 36x^{10}y^{12}z^5 - 18x^5y^{17}z^5 \\
& - 216x^9y^{13}z^4 + 72x^9y^{12}z^5 - 72x^6y^{14}z^6 + 108x^{11}y^{10}z^4 - 36x^6y^{14}z^5
\end{aligned}$$

$$\begin{aligned}
& + 36x^5y^{17}z^3 + 84x^5y^{14}z^6 - 216x^{10}y^{10}z^4 - 36x^7y^{11}z^6 + 36x^5y^{14}z^5 + 6x^4y^{15}z^5 \\
& - 18x^7y^{11}z^5 + 72x^6y^{14}z^3 - 36x^6y^{12}z^5 + 84x^6y^{11}z^6 + 36x^6y^{11}z^5 - 72x^5y^{14}z^3 \\
& - 18x^5y^{13}z^4 + 12x^5y^{12}z^5 - 24x^5y^{11}z^6 + 12x^2y^{13}z^7 + 36x^7y^{11}z^3 - 36x^7y^9z^5 \\
& - 12x^4y^{12}z^5 + 6x^2y^{13}z^6 + 6xy^{14}z^6 - 18x^7y^{11}z^2 - 72x^6y^{11}z^3 - 36x^6y^{10}z^4 \\
& + 78x^6y^9z^5 + 12x^3y^{10}z^7 + 36x^5y^{10}z^4 - 12x^5y^9z^5 + 6x^3y^{10}z^6 - 12x^2y^{13}z^4 \\
& + 12x^2y^{11}z^6 - 24x^2y^{10}z^7 + 54x^8y^9z - 18x^7y^7z^4 - 12x^2y^{10}z^6 - 6xy^{14}z^3 \\
& - 12xy^{11}z^6 - 24x^7y^8z^2 + 36x^6y^7z^4 - 18x^4y^{10}z^3 - 12x^3y^{10}z^4 + 6x^3y^8z^6 \\
& + 6xy^{11}z^5 + 4x^7y^7z^2 - 9x^4y^{10}z^2 - 12x^2y^{11}z^3 + 24x^2y^{10}z^4 - 12x^2y^8z^6 \\
& + 72x^8y^6z + 6x^2y^8z^5 + 12xy^{11}z^3 - 12x^8y^5z + 18x^4y^{10} - 22x^4y^7z^3 - 6x^3y^8z^3 \\
& - 12xy^8z^5 - 72x^6y^5z^2 - 12x^4y^7z^2 + 4x^4y^6z^3 + 3x^3y^8z^2 + 12x^2y^8z^3 \\
& - 12x^6y^4z^2 - 6x^5y^5z^2 + 2x^4y^6z^2 + 16x^4y^5z^3 + 216x^7y^3z - 36x^6y^3z^2 + 24x^4y^7 \\
& - 9x^4y^6z + 2xy^6z^4 + 36x^7y^2z - 6x^6y^2z^2 - 48x^5y^3z^2 + 16x^5y^2z^3 - 4x^4y^6 \\
& + 2x^3y^5z^2 - 60x^3y^4z^3 + xy^6z^3 + 3y^7z^3 + 108x^7yz - 32x^4y^2z^3 - 36x^3y^4z^2 \\
& - 12x^3y^3z^3 + 16xy^4z^4 + 18x^7z - 48x^6z^2 - 6x^4y^3z - 36x^4y^2z^2 - 6x^3y^3z^2 \\
& - 30x^3y^2z^3 - 2xy^6z + 8xy^4z^3 + 96x^5z^2 + 72x^3y^4 - 18x^3y^2z^2 - 6x^3yz^3 \\
& + 16x^2yz^4 - 3y^7 + 2y^4z^3 + 12y^3z^4 - 18x^4z^2 + 12x^3y^3 - 3x^3yz^2 + 8x^2yz^3 \\
& - 16xy^4z - 32xyz^4 + y^4z^2 + 6y^3z^3 + 36x^3y^2 + 6xy^3z - 16xyz^3 + 6yz^4
\end{aligned}$$

$$+ 6x^3y - 16x^2yz - 2y^4 - 12y^3z + 3yz^3 + 6x^2z + 32xyz - 12xz - 6yz),$$

$$- \frac{1}{y^4} (36x^8y^{17}z^3 + 72x^9y^{14}z^3 - 72x^8y^{14}z^3 + 36x^5y^{16}z^4 + 36x^{10}y^{11}z^3$$

$$+ 18x^5y^{16}z^3 - 72x^9y^{11}z^3 + 72x^6y^{13}z^4 + 36x^6y^{13}z^3 - 84x^5y^{13}z^4 + 36x^7y^{10}z^4$$

$$- 36x^5y^{13}z^3 - 6x^4y^{14}z^3 + 18x^7y^{10}z^3 - 84x^6y^{10}z^4 - 36x^6y^{10}z^3 - 12x^5y^{11}z^3$$

$$+ 24x^5y^{10}z^4 - 12x^2y^{12}z^5 + 12x^4y^{11}z^3 - 6x^2y^{12}z^4 - 6xy^{13}z^4 + 18x^7y^{10}$$

$$- 6x^6y^8z^3 - 12x^3y^9z^5 + 12x^5y^8z^3 - 6x^3y^9z^4 - 12x^2y^{10}z^4 + 24x^2y^9z^5$$

$$+ 12x^2y^9z^4 + 12xy^{10}z^4 + 24x^7y^7 + 18x^4y^9z - 6x^3y^7z^4 - 6xy^{10}z^3 - 4x^7y^6$$

$$+ 9x^4y^9 + 12x^2y^7z^4 - 6x^2y^7z^3 + 22x^4y^6z + 12xy^7z^3 + 72x^6y^4 + 12x^4y^6$$

$$- 4x^4y^5z - 3x^3y^7 + 12x^6y^3 - 2x^4y^5 - 16x^4y^4z + 36x^6y^2 - 2xy^5z^2 + 6x^6y$$

$$- 16x^5yz - 2x^3y^4 + 60x^3y^3z - xy^5z - 3y^6z + 32x^4yz + 36x^3y^3 + 12x^3y^2z$$

$$- 16xy^3z^2 + 6x^3y^2 + 30x^3yz - 8xy^3z + 18x^3y + 6x^3z - 16x^2z^2 - 2y^3z$$

$$- 12y^2z^2 + 3x^3 - 8x^2z + 32xz^2 - y^3 - 6y^2z + 16xz - 6z^2 - 3z),$$

$$\frac{1}{y^4} (36x^5y^{16}z^3 + 72x^6y^{13}z^3 - 72x^5y^{13}z^3 + 36x^7y^{10}z^3 - 72x^6y^{10}z^3 - 12x^2y^{12}z^4$$

$$- 6xy^{13}z^3 - 12x^3y^9z^4 - 12x^2y^{10}z^3 + 24x^2y^9z^4 + 12xy^{10}z^3 + 18x^4y^9$$

$$- 6x^3y^7z^3 + 12x^2y^7z^3 + 24x^4y^6 - 4x^4y^5 - 2xy^5z + 72x^3y^3 - 3y^6 + 12x^3y^2$$

$$- 16xy^3z + 36x^3y + 6x^3 - 16x^2z - 2y^3 - 12y^2z + 32xz - 6z),$$

$$\frac{1}{y^4} (18x^8y^{16}z^3 + 36x^9y^{13}z^3 - 36x^8y^{13}z^3 + 18x^{10}y^{10}z^3 - 36x^9y^{10}z^3 - 6x^5y^{12}z^4$$

$$\begin{aligned}
& + 18x^4y^{14}z^3 - 6x^6y^9z^4 + 36x^5y^{11}z^3 + 12x^5y^9z^4 - 36x^4y^{11}z^3 + 18x^6y^8z^3 \\
& + 9x^7y^9 - 36x^5y^8z^3 - 6xy^{10}z^4 + 12x^7y^6 - 6x^2y^7z^4 - 2x^7y^5 + 12xy^7z^4 \\
& - x^4y^5z + 9x^3y^7 + 36x^6y^3 + 6x^6y^2 - 8x^4y^3z + 18x^6y + 12x^3y^4 + 3x^6 - 8x^5z \\
& - 6x^3y^2z + 16x^4z - 3x^3z - y^3z), -\frac{1}{y^4}(18x^5y^{16}z^3 + 36x^6y^{13}z^3 \\
& - 36x^5y^{13}z^3 + 18x^7y^{10}z^3 - 36x^6y^{10}z^3 - 6x^2y^{12}z^4 - 6x^3y^9z^4 + 12x^2y^9z^4 \\
& + 9x^4y^9 + 12x^4y^6 - 2x^4y^5 - xy^5z + 36x^3y^3 + 6x^3y^2 - 8xy^3z + 18x^3y + 3x^3 \\
& - 8x^2z - y^3 - 6y^2z + 16xz - 3z) ] ]
\end{aligned}$$

> CI;

$$\left[ \left[ \frac{1}{z}(-2x^5y^9z^4 - 2x^4y^{10}z^4 + 6x^6y^7z^3 + 6x^5y^8z^3 - 2x^2y^8z^5 - 2xy^9z^5 - x^2y^8z^4 \right. \right. \quad (8)$$

$$\left. - xy^9z^4 + 2x^2y^8z^2 + 2xy^9z^2 + 1), -y^7z(-2x^3y^2z^2 + 6x^4z - 2yz^3 - yz^2 \right.$$

$$\left. + 2y)x, -y^7zx(2x^3y + 2z + 1), 2xy^7z, y^5z(x^4y^2 + 1), -xy^7z \right],$$

$$\left[ \frac{1}{z}((x+y)(-12x^7y^{15}z^4 + 36x^8y^{13}z^3 - 12x^8y^{12}z^4 - 12x^4y^{14}z^5 \right.$$

$$+ 36x^9y^{10}z^3 - 6x^4y^{14}z^4 - 12x^5y^{11}z^5 - 6x^5y^{11}z^4 + 12x^4y^{14}z^2 + 4x^4y^{11}z^5$$

$$+ 2x^3y^{12}z^4 + 12x^5y^{11}z^2 - 14x^5y^9z^4 - 2x^4y^{10}z^4 - 6x^4y^{10}z^3 + 2x^4y^9z^4$$

$$+ 4xy^{10}z^6 + 6x^6y^7z^3 + 6x^5y^8z^3 + 2xy^{10}z^5 + 2y^{11}z^5 - 6x^5y^7z^3 - 2x^2y^8z^5$$

$$- 2xy^9z^5 - x^2y^8z^4 - 4xy^{10}z^3 - xy^9z^4 + 2xy^8z^5 - 2y^{11}z^2 + 2x^2y^8z^2 + 2xy^9z^2$$

$$+ 2y^8z^4 - 2xy^8z^2 + 1)), -y^7z(-12x^7y^8z^2 + 36x^8y^6z - 12x^8y^5z^2 - 12x^4y^7z^3$$

$$+ 36x^9y^3z - 6x^4y^7z^2 - 12x^5y^4z^3 - 6x^5y^4z^2 + 12x^4y^7 + 4x^4y^4z^3 + 2x^3y^5z^2$$

$$+ 12x^5y^4 - 14x^5y^2z^2 - 2x^4y^3z^2 - 6x^4y^3z + 2x^4y^2z^2 + 4xy^3z^4 + 6x^6z$$

$$+ 6x^5yz + 2xy^3z^3 + 2y^4z^3 - 6x^5z - 2x^2yz^3 - 2xy^2z^3 - x^2yz^2 - 4xy^3z$$

$$- xy^2z^2 + 2xyz^3 - 2y^4 + 2x^2y + 2xy^2 + 2yz^2 - 2xy), -y^7z(12x^7y^7 + 12x^8y^4$$

$$+ 12x^4y^6z + 6x^4y^6 + 12x^5y^3z + 6x^5y^3 - 4x^4y^3z - 2x^3y^4 + 2x^5y + 2x^4y^2$$

$$- 2x^4y - 4xy^2z^2 - 2xy^2z - 2y^3z + 2x^2z + 2xyz + x^2 + xy - 2xz - 2),$$

$$2y^7z(6x^4y^6 + 6x^5y^3 - 2xy^2z - y^3 + x^2 + xy - x), y^5z(6x^7y^8 + 6x^8y^5$$

$$- 2x^4y^4z + 6x^3y^6 + x^5y^2 + 7x^4y^3 - 2y^2z + x + y), -y^7zx(6x^3y^6 + 6x^4y^3$$

$$- 2y^2z + x + y) ],$$

$$\begin{aligned}
& \left[ \frac{1}{z} \left( -12x^8y^{16}z^6 - 12x^7y^{17}z^6 + 36x^9y^{14}z^5 - 12x^9y^{13}z^6 + 36x^8y^{15}z^5 \right. \right. \\
& - 12x^8y^{14}z^6 - 12x^5y^{15}z^7 - 12x^4y^{16}z^7 + 36x^{10}y^{11}z^5 + 36x^9y^{12}z^5 - 6x^5y^{15}z^6 \\
& - 6x^4y^{16}z^6 - 12x^6y^{12}z^7 - 12x^5y^{13}z^7 - 6x^6y^{12}z^6 + 12x^5y^{15}z^4 - 6x^5y^{13}z^6 \\
& + 4x^5y^{12}z^7 + 12x^4y^{16}z^4 + 4x^4y^{13}z^7 + 2x^4y^{13}z^6 + 2x^3y^{14}z^6 + 12x^6y^{12}z^4 \\
& - 12x^6y^{10}z^6 + 12x^5y^{13}z^4 - 12x^5y^{11}z^6 - 6x^5y^{11}z^5 + 2x^5y^{10}z^6 - 6x^4y^{12}z^5 \\
& + 2x^4y^{11}z^6 + 4x^2y^{11}z^8 + 4xy^{12}z^8 + 2x^2y^{11}z^7 + 4xy^{12}z^7 + 2y^{13}z^7 - 6x^6y^8z^5 \\
& - 6x^5y^9z^5 + 6x^8y^8z^2 + 6x^7y^9z^2 - 4x^2y^{11}z^5 + 2x^2y^9z^7 - 4xy^{12}z^5 + 2xy^{10}z^7 \\
& - 2xy^{12}z^4 - 2y^{13}z^4 - 18x^9y^6z + 6x^9y^5z^2 - 18x^8y^7z + 6x^8y^6z^2 + 2xy^9z^6 \\
& + 2y^{10}z^6 + 6x^5y^7z^3 + 6x^4y^8z^3 - 2x^2y^9z^4 - 2xy^{10}z^4 - 18x^{10}y^3z - 18x^9y^4z \\
& + 3x^5y^7z^2 + 3x^4y^8z^2 + 6x^6y^4z^3 + 6x^5y^5z^3 + 3x^6y^4z^2 - 6x^5y^7 + 3x^5y^5z^2 \\
& - 2x^5y^4z^3 - 6x^4y^8 - 2x^4y^5z^3 - x^4y^5z^2 - x^3y^6z^2 - 6x^6y^4 + 6x^6y^2z^2 - 6x^5y^5 \\
& + 6x^5y^3z^2 + 3x^5y^3z - x^5y^2z^2 + 3x^4y^4z - x^4y^3z^2 - 2x^2y^3z^4 - 2xy^4z^4 \\
& - x^2y^3z^3 - 2xy^4z^3 - y^5z^3 + 3x^6z + 3x^5yz + 2x^2y^3z - x^2yz^3 + 2xy^4z - xy^2z^3 \\
& \left. + xy^4 + y^5 - 2xyz^2 - 2y^2z^2 + x^2y + xy^2 \right), -\frac{1}{z} \left( -12x^7y^{16}z^6 + 36x^8y^{14}z^5 \right. \\
& - 12x^8y^{13}z^6 - 12x^4y^{15}z^7 + 36x^9y^{11}z^5 - 6x^4y^{15}z^6 - 12x^5y^{12}z^7 - 6x^5y^{12}z^6 \\
& + 12x^4y^{15}z^4 + 4x^4y^{12}z^7 + 2x^3y^{13}z^6 + 12x^5y^{12}z^4 - 12x^5y^{10}z^6 - 6x^4y^{11}z^5 \\
& + 2x^4y^{10}z^6 + 4xy^{11}z^8 + 2xy^{11}z^7 + 2y^{12}z^7 - 6x^5y^8z^5 + 6x^7y^8z^2 - 4xy^{11}z^5 \\
& \left. + 2xy^9z^7 - 2y^{12}z^4 - 18x^8y^6z + 6x^8y^5z^2 + 2y^9z^6 + 6x^4y^7z^3 - 2xy^9z^4 \right)
\end{aligned}$$

$$\begin{aligned}
& - 18x^9y^3z + 3x^4y^7z^2 + 6x^5y^4z^3 + 3x^5y^4z^2 - 6x^4y^7 - 2x^4y^4z^3 - x^3y^5z^2 \\
& - 6x^5y^4 + 6x^5y^2z^2 + 3x^4y^3z - x^4y^2z^2 - 2xy^3z^4 - xy^3z^3 - y^4z^3 + 3x^5z \\
& + 2xy^3z - xy^3z^3 + y^4 - 2yz^2 + xy), -\frac{1}{z}(12x^7y^{15}z^4 + 12x^8y^{12}z^4 \\
& + 12x^4y^{14}z^5 + 6x^4y^{14}z^4 + 12x^5y^{11}z^5 + 6x^5y^{11}z^4 - 4x^4y^{11}z^5 - 2x^3y^{12}z^4 \\
& - 2x^4y^9z^4 - 4xy^{10}z^6 - 2xy^{10}z^5 - 2y^{11}z^5 - 6x^7y^7 - 2xy^8z^5 - 6x^8y^4 - 2y^8z^4 \\
& - 6x^4y^6z - 3x^4y^6 - 6x^5y^3z - 3x^5y^3 + 2x^4y^3z + x^3y^4 + x^4y + 2xy^2z^2 + xy^2z \\
& + y^3z + xz), \frac{1}{z}(12x^4y^{14}z^4 + 12x^5y^{11}z^4 - 4xy^{10}z^5 - 2y^{11}z^4 - 2xy^8z^4 \\
& - 6x^4y^6 - 6x^5y^3 + 2xy^2z + y^3 + x), \frac{1}{z}(6x^7y^{14}z^4 + 6x^8y^{11}z^4 - 2x^4y^{10}z^5 \\
& + 6x^3y^{12}z^4 + 6x^4y^9z^4 - 3x^7y^6 - 2y^8z^5 - 3x^8y^3 + x^4y^2z - 3x^3y^4 - 3x^4y + z), \\
& \left. - \frac{y^2x(6x^3y^{12}z^4 + 6x^4y^9z^4 - 2y^8z^5 - 3x^3y^4 - 3x^4y + z)}{z} \right]
\end{aligned}$$

$$\begin{aligned}
& \left[ \frac{1}{z}(-36x^{12}y^{15}z^5 - 36x^{11}y^{16}z^5 + 108x^{13}y^{13}z^4 - 36x^{13}y^{12}z^5 + 108x^{12}y^{14}z^4 \right. \\
& - 36x^{12}y^{13}z^5 - 36x^9y^{14}z^6 - 36x^8y^{15}z^6 + 108x^{14}y^{10}z^4 + 108x^{13}y^{11}z^4 \\
& - 18x^9y^{14}z^5 - 12x^8y^{16}z^4 - 18x^8y^{15}z^5 - 12x^7y^{17}z^4 - 36x^{10}y^{11}z^6 - 36x^9y^{12}z^6 \\
& - 18x^{10}y^{11}z^5 + 72x^9y^{14}z^3 - 12x^9y^{13}z^4 - 18x^9y^{12}z^5 + 12x^9y^{11}z^6 + 72x^8y^{15}z^3 \\
& - 12x^8y^{14}z^4 + 12x^8y^{12}z^6 + 6x^8y^{12}z^5 + 6x^7y^{13}z^5 - 12x^5y^{15}z^5 - 12x^4y^{16}z^5 \\
& + 72x^{10}y^{11}z^3 - 36x^{10}y^9z^5 + 72x^9y^{12}z^3 - 36x^9y^{10}z^5 - 6x^5y^{15}z^4 - 6x^4y^{16}z^4 \\
& - 18x^9y^{10}z^4 + 6x^9y^9z^5 - 18x^8y^{11}z^4 + 6x^8y^{10}z^5 - 12x^6y^{12}z^5 + 12x^6y^{10}z^7 \\
& \left. - 12x^5y^{13}z^5 + 12x^5y^{11}z^7 + 6x^{11}y^9z^2 + 6x^{10}y^{10}z^2 - 6x^6y^{12}z^4 + 6x^6y^{10}z^6 \right]
\end{aligned}$$



$$\begin{aligned}
& + 12x^5y^{15}z^2 - 6x^5y^{13}z^4 + 4x^5y^{12}z^5 + 12x^5y^{11}z^6 + 12x^4y^{16}z^2 + 4x^4y^{13}z^5 \\
& + 6x^4y^{12}z^6 - 18x^{10}y^7z^4 - 18x^9y^8z^4 + 2x^4y^{13}z^4 + 2x^3y^{14}z^4 - 18x^{12}y^7z \\
& + 6x^{12}y^6z^2 - 18x^{11}y^8z + 6x^{11}y^7z^2 + 12x^6y^{12}z^2 - 24x^6y^{10}z^4 + 6x^6y^8z^6 \\
& + 12x^5y^{13}z^2 - 24x^5y^{11}z^4 + 6x^5y^9z^6 + 12x^8y^8z^3 + 12x^7y^9z^3 - 12x^5y^{11}z^3 \\
& + 2x^5y^{10}z^4 - 12x^4y^{12}z^3 + 2x^4y^{11}z^4 + 4x^2y^{11}z^6 + 4xy^{12}z^6 - 18x^{13}y^4z \\
& - 18x^{12}y^5z + 3x^8y^8z^2 + 3x^7y^9z^2 + 6x^5y^8z^5 + 6x^4y^9z^5 + 2x^2y^{11}z^5 + 4xy^{12}z^5 \\
& + 2y^{13}z^5 - 18x^9y^6z^2 + 12x^9y^5z^3 - 18x^8y^7z^2 + 12x^8y^6z^3 - 12x^6y^8z^3 \\
& - 12x^5y^9z^3 + 3x^9y^5z^2 - 6x^8y^8 + 3x^8y^6z^2 - 2x^8y^5z^3 - 6x^7y^9 - 2x^7y^6z^3 \\
& + 6x^5y^7z^4 + 6x^4y^8z^4 - 4x^2y^{11}z^3 + 2x^2y^9z^5 - 4xy^{12}z^3 + 2xy^{10}z^5 - 18x^{10}y^3z^2 \\
& - 18x^9y^4z^2 + 6x^8y^5z^2 + 5x^7y^6z^2 - x^6y^7z^2 + 3x^5y^7z^3 + 3x^4y^8z^3 - 2xy^{12}z^2 \\
& - 2y^{13}z^2 - 6x^9y^5 + 6x^9y^3z^2 - 6x^8y^6 + 6x^8y^4z^2 + 6x^6y^4z^4 + 6x^5y^5z^4 \\
& + 2xy^9z^4 + 2y^{10}z^4 - 18x^9y^3z - 15x^8y^4z - x^8y^3z^2 + 3x^7y^5z - x^7y^4z^2 \\
& + 3x^6y^4z^3 - 6x^5y^7z + 3x^5y^5z^3 - 4x^5y^4z^4 - 6x^4y^8z - 4x^4y^5z^4 - 2x^2y^9z^2 \\
& - 2xy^{10}z^2 + 5x^5y^4z^3 + 3x^4y^5z^3 - 2x^3y^6z^3 + 3x^9yz + 3x^8y^2z - 6x^6y^4z \\
& + 6x^6y^2z^3 - 6x^5y^5z + 3x^5y^4z^2 + 6x^5y^3z^3 + 3x^4y^5z^2 + 2x^5y^4z + 3x^5y^3z^2 \\
& - 2x^5y^2z^3 + 2x^4y^5z + 3x^4y^4z^2 - 2x^4y^3z^3 - 2x^2y^3z^5 - 2xy^4z^5 - 6x^5y^4 \\
& - 5x^4y^5 + x^3y^6 - x^2y^3z^4 - 2xy^4z^4 - y^5z^4 + 3x^6z^2 + 3x^5yz^2 - x^4y^2z^2 - x^3y^3z^2 \\
& + x^5y^2 + x^4y^3 + 2x^2y^3z^2 - x^2yz^4 + 2xy^4z^2 - xy^2z^4 + xy^4z + y^5z + x^2yz
\end{aligned}$$

$$\begin{aligned}
& + xy^2z + xy + y^2), -\frac{1}{z}(-36x^{11}y^{15}z^5 + 108x^{12}y^{13}z^4 - 36x^{12}y^{12}z^5 \\
& - 36x^8y^{14}z^6 + 108x^{13}y^{10}z^4 - 18x^8y^{14}z^5 - 12x^7y^{16}z^4 - 36x^9y^{11}z^6 - 18x^9y^{11}z^5 \\
& + 72x^8y^{14}z^3 - 12x^8y^{13}z^4 + 12x^8y^{11}z^6 + 6x^7y^{12}z^5 - 12x^4y^{15}z^5 + 72x^9y^{11}z^3 \\
& - 36x^9y^9z^5 - 6x^4y^{15}z^4 - 18x^8y^{10}z^4 + 6x^8y^9z^5 - 12x^5y^{12}z^5 + 12x^5y^{10}z^7 \\
& + 6x^{10}y^9z^2 - 6x^5y^{12}z^4 + 6x^5y^{10}z^6 + 12x^4y^{15}z^2 + 4x^4y^{12}z^5 + 6x^4y^{11}z^6 \\
& - 18x^9y^7z^4 + 2x^3y^{13}z^4 - 18x^{11}y^7z + 6x^{11}y^6z^2 + 12x^5y^{12}z^2 - 24x^5y^{10}z^4 \\
& + 6x^5y^8z^6 + 12x^7y^8z^3 - 12x^4y^{11}z^3 + 2x^4y^{10}z^4 + 4xy^{11}z^6 - 18x^{12}y^4z \\
& + 3x^7y^8z^2 + 6x^4y^8z^5 + 2xy^{11}z^5 + 2y^{12}z^5 - 18x^8y^6z^2 + 12x^8y^5z^3 - 12x^5y^8z^3 \\
& + 3x^8y^5z^2 - 6x^7y^8 - 2x^7y^5z^3 + 6x^4y^7z^4 - 4xy^{11}z^3 + 2xy^9z^5 - 18x^9y^3z^2 \\
& + 6x^7y^5z^2 - x^6y^6z^2 + 3x^4y^7z^3 - 2y^{12}z^2 - 6x^8y^5 + 6x^8y^3z^2 + 6x^5y^4z^4 + 2y^9z^4 \\
& - 18x^8y^3z + 3x^7y^4z - x^7y^3z^2 + 3x^5y^4z^3 - 6x^4y^7z - 4x^4y^4z^4 - 2xy^9z^2 \\
& + 5x^4y^4z^3 - 2x^3y^5z^3 + 3x^8yz - 6x^5y^4z + 6x^5y^2z^3 + 3x^4y^4z^2 + 2x^4y^4z \\
& + 3x^4y^3z^2 - 2x^4y^2z^3 - 2xy^3z^5 - 6x^4y^4 + x^3y^5 - xy^3z^4 - y^4z^4 + 3x^5z^2 \\
& - x^3y^2z^2 + x^4y^2 + 2xy^3z^2 - xy^4z + y^4z + xyz + y), -\frac{1}{z}(36x^{11}y^{14}z^3 \\
& + 36x^{12}y^{11}z^3 + 36x^8y^{13}z^4 + 18x^8y^{13}z^3 + 12x^7y^{15}z^2 + 36x^9y^{10}z^4 + 18x^9y^{10}z^3 \\
& + 12x^8y^{12}z^2 - 12x^8y^{10}z^4 - 6x^7y^{11}z^3 + 12x^4y^{14}z^3 + 6x^4y^{14}z^2 - 6x^8y^8z^3 \\
& + 12x^5y^{11}z^3 - 12x^5y^9z^5 - 6x^{10}y^8 + 6x^5y^{11}z^2 - 6x^5y^9z^4 - 4x^4y^{11}z^3 \\
& - 6x^4y^{10}z^4 - 2x^3y^{12}z^2 - 6x^{11}y^5 - 6x^5y^7z^4 - 12x^7y^7z - 2x^4y^9z^2 - 4xy^{10}z^4
\end{aligned}$$

$$\begin{aligned}
& - 3x^7y^7 - 6x^4y^7z^3 - 2xy^{10}z^3 - 2y^{11}z^3 - 12x^8y^4z - 3x^8y^4 + 2x^7y^4z \\
& - 6x^4y^6z^2 - 2xy^8z^3 - 6x^7y^4 + x^6y^5 - 3x^4y^6z - 6x^5y^3z^2 - 2y^8z^2 + x^7y^2 \\
& - 3x^5y^3z + 4x^4y^3z^2 - 5x^4y^3z + 2x^3y^4z - 3x^4y^3 + 2x^4yz + 2xy^2z^3 + xy^2z^2 \\
& + y^3z^2 + x^3y + xz^2), \frac{1}{z}(36x^8y^{13}z^3 + 36x^9y^{10}z^3 + 12x^4y^{14}z^2 + 12x^5y^{11}z^2 \\
& - 12x^5y^9z^4 - 6x^4y^{10}z^3 - 6x^5y^7z^3 - 6x^7y^7 - 4xy^{10}z^3 - 2y^{11}z^2 - 6x^8y^4 \\
& - 6x^4y^6z - 2xy^8z^2 - 6x^5y^3z + 2x^4y^3z - 6x^4y^3 + x^3y^4 + x^4y + 2xy^2z^2 + y^3z \\
& + xz + 1), \frac{1}{z}(18x^{11}y^{13}z^3 + 18x^{12}y^{10}z^3 + 6x^7y^{14}z^2 + 6x^8y^{11}z^2 - 6x^8y^9z^4 \\
& + 18x^7y^{11}z^3 + 18x^8y^8z^3 - 3x^{10}y^7 - 2x^4y^{10}z^3 + 6x^3y^{12}z^2 - 3x^{11}y^4 + 6x^4y^9z^2 \\
& - 6x^4y^7z^4 - 3x^7y^6z - 3x^8y^3z + x^7y^3z - 3x^6y^5 - 2y^8z^3 - 3x^7y^3 - 3x^7y^2 \\
& + x^4y^2z^2 - 3x^3y^4z - 3x^4yz + x^3yz - 3x^3y + z^2), -\frac{1}{z}(y^2x(18x^7y^{11}z^3 \\
& + 18x^8y^8z^3 + 6x^3y^{12}z^2 + 6x^4y^9z^2 - 6x^4y^7z^4 - 3x^6y^5 - 2y^8z^3 - 3x^7y^2 \\
& - 3x^3y^4z - 3x^4yz + x^3yz - 3x^3y + z^2))), \\
& \left[ 0, 0, 0, 0, 0, 0 \right], \\
& \left[ \frac{1}{z}(-6x^8y^8z^2 - 6x^7y^9z^2 + 18x^9y^6z - 6x^9y^5z^2 + 18x^8y^7z - 6x^8y^6z^2 \right. \\
& + 12x^8y^5z^2 + 12x^7y^6z^2 - 6x^5y^7z^3 - 6x^4y^8z^3 + 18x^{10}y^3z + 18x^9y^4z \\
& - 3x^5y^7z^2 - 3x^4y^8z^2 - 36x^9y^3z - 36x^8y^4z - 6x^6y^4z^3 - 6x^5y^5z^3 - 3x^6y^4z^2 \\
& + 6x^5y^7 - 3x^5y^5z^2 + 14x^5y^4z^3 + 6x^4y^8 + 14x^4y^5z^3 + 6x^5y^4z^2 + 7x^4y^5z^2 \\
& + x^3y^6z^2 + 6x^6y^4 - 6x^6y^2z^2 + 6x^5y^5 - 6x^5y^3z^2 - 12x^5y^4 - 3x^5y^3z + x^5y^2z^2 \\
& \left. - 12x^4y^5 - 3x^4y^4z + x^4y^3z^2 + 2x^2y^3z^4 + 2xy^4z^4 - 2x^4y^2z^2 - 2x^3y^3z^2 \right]
\end{aligned}$$

$$\begin{aligned}
& + x^2 y^3 z^3 + 2xy^4 z^3 + y^5 z^3 - 3x^6 z - 3x^5 yz + 6x^5 z + 6x^4 yz - 2x^2 y^3 z + x^2 yz^3 \\
& - 2xy^4 z + xy^2 z^3 - xy^4 - 2xyz^3 - y^5 - 2y^2 z^3 - x^2 y - xy^2 + 2xy + 2y^2), \\
& - \frac{1}{z} (-6x^7 y^8 z^2 + 18x^8 y^6 z - 6x^8 y^5 z^2 + 12x^7 y^5 z^2 - 6x^4 y^7 z^3 + 18x^9 y^3 z \\
& - 3x^4 y^7 z^2 - 36x^8 y^3 z - 6x^5 y^4 z^3 - 3x^5 y^4 z^2 + 6x^4 y^7 + 14x^4 y^4 z^3 + 6x^4 y^4 z^2 \\
& + x^3 y^5 z^2 + 6x^5 y^4 - 6x^5 y^2 z^2 - 12x^4 y^4 - 3x^4 y^3 z + x^4 y^2 z^2 + 2xy^3 z^4 - 2x^3 y^2 z^2 \\
& + xy^3 z^3 + y^4 z^3 - 3x^5 z + 6x^4 z - 2xy^3 z + xyz^3 - y^4 - 2yz^3 - xy + 2y), \\
& - \frac{1}{z} (6x^7 y^7 + 6x^8 y^4 - 12x^7 y^4 + 6x^4 y^6 z + 3x^4 y^6 + 6x^5 y^3 z + 3x^5 y^3 - 14x^4 y^3 z \\
& - 6x^4 y^3 - x^3 y^4 - x^4 y - 2xy^2 z^2 + 2x^3 y - xy^2 z - y^3 z - xz + 2z), \\
& \frac{6x^4 y^6 + 6x^5 y^3 - 12x^4 y^3 - 2xy^2 z - y^3 - x + 2}{z}, \\
& \frac{3x^7 y^6 + 3x^8 y^3 - 6x^7 y^3 - x^4 y^2 z + 3x^3 y^4 + 3x^4 y - 6x^3 y - z}{z}, \\
& - \frac{y^2 x (3x^3 y^4 + 3x^4 y - 6x^3 y - z)}{z} \Big] \Big]
\end{aligned}$$

