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# $N$ order solutions with multi-parameters to the Boussinesq and KP equations and the degenerate rational case

Pierre Gaillard,  
Université de Bourgogne,  
Institut de mathématiques de Bourgogne,  
9 avenue Alain Savary BP 47870  
21078 Dijon Cedex, France :  
E-mail : Pierre.Gaillard@u-bourgogne.fr

## Abstract

From elementary exponential functions which depend on several parameters, we construct multi-parametric solutions to the Boussinesq equation. When we perform a passage to the limit when one of these parameters goes to 0, we get rational solutions as a quotient of a polynomial of degree  $N(N+1) - 2$  in  $x$  and  $t$ , by a polynomial of degree  $N(N+1)$  in  $x$  and  $t$  for each positive integer  $N$  depending on  $3N$  parameters. We restrict ourself to give the explicit expressions of these rational solutions for  $N = 1$  until  $N = 3$  to shortened the paper.

We easily deduce the corresponding explicit rational solutions to the Kadomtsev Petviashvili equation for the same orders from 1 to 3.

**Key Words :** Boussinesq equation, Kadomtsev Petviashvili equation, rational solutions.

**PACS numbers :**

33Q55, 37K10, 47.10A-, 47.35.Fg, 47.54.Bd

## 1 Introduction

The Boussinesq equation in the following normalization is considered

$$u_{tt} - u_{xx} + (u^2)_{xx} + \frac{1}{3}u_{xxxx} = 0. \quad (1)$$

The subscripts  $x$  and  $t$  denote partial derivatives.

This equation (1) is an equation solvable [3, 4] by inverse scattering. It was

introduced for the first time by Boussinesq [1, 2] in 1871. This equation appears in wide range of physical problems dealing with propagation of nonlinear waves; for example, in one-dimensional nonlinear lattice-waves [5], vibrations in a nonlinear string [6], ion sound waves in a plasma [7],...

The first solutions were constructed by Hirota [8] in 1977 with Bäcklund transformations. Non singular rational solutions were constructed by Ablowitz and Satsuma by using the Hirota bilinear method [9] in 1978. Freemann and Nimmo [10] gave in 1983 wronskians representations of the solutions. Other approaches were used; in particular, an algebro-geometrical method was given by Matveev et al. [11] in 1987; Darboux transformations [12] was used by Matveev; the  $\bar{\partial}$  dressing method [13] was considered by Bogdanov.

Clarkson obtained solutions in terms of particular polynomials in a series of papers [14, 15] and recently, in 2017 gives new solutions [16] as second derivatives of polynomials.

Solutions to the Boussinesq equation and the Kadomtsev Petviashvili equation are considered in this paper. We give solutions from elementary exponential functions depending on several parameters. Then we construct rational solution in performing a passage to the limit when one of these parameters goes to 0. We obtain rational solutions as a quotient of a polynomial of degree  $N(N+1)-2$  in  $x$  and  $t$  by a polynomial of degree  $N(N+1)$  in  $x$  and  $t$ , depending on  $2N$  parameters. We give explicit solutions in the simplest cases where  $N = 1, 2, 3$ . We deduce and give explicit expressions of rational solutions to the Kadomtsev-Petviashvili (KP) equation for the cases of orders from 1 to 3.

## 2 Solutions to the Boussinesq equation

### 2.1 Solutions to the Boussinesq equation in terms of elementary exponentials

We consider the Boussinesq equation

$$u_{tt} - u_{xx} + (u^2)_{xx} + \frac{1}{3}u_{xxxx} = 0.$$

We define the following notations.

We consider  $e, a_j, c_j, d_j, 1 \leq j \leq N$ , arbitrary real numbers, and  $\alpha_j, \beta_j$  the numbers defined by

$$\alpha_j = \frac{3}{2}a_j e + \frac{1}{2}\sqrt{1 - 3a_j^2 e^2} \quad (2)$$

and

$$\beta_j = -\frac{3}{2}a_j e + \frac{1}{2}\sqrt{1 - 3a_j^2 e^2}. \quad (3)$$

We consider the following elementary functions

$$f_{ij}(x, t) = \alpha_j^{i-1} \exp(\alpha_j x - \alpha_j^2 t + c_j e^{2N-1}) - \beta_j^{i-1} \exp(\beta_j x - \beta_j^2 t + d_j e^{2N-1}),$$

for  $1 \leq i \leq N$ . (4)

Then, we have the following statement :

**Theorem 2.1** *The function  $v$  defined by*

$$v(x, t) = 2\partial_x^2 \ln(\det(f_{ij})_{(i,j) \in [1,N]}) \quad (5)$$

*is a solution to the Boussinesq equation (1) with  $e$ ,  $a_j$ ,  $c_j$  and  $d_j$ ,  $1 \leq j \leq N$  arbitrarily real parameters.*

## 2.2 Rational solutions to the Boussinesq equation

To obtain rational solutions to the Boussinesq equation, we are going to perform a limit when the parameter  $e$  tends to 0.

### 2.2.1 Rational solutions as a limit case

We get the following result :

**Theorem 2.2** *The function  $v$  defined by*

$$v(x, t) = \lim_{e \rightarrow 0} 2\partial_x^2 \ln(\det(f_{ij})_{(i,j) \in [1,N]}) \quad (6)$$

*is a rational solution to the Boussinesq equation (1) depending on  $3N$  parameters  $a_j$ ,  $c_j$  and  $d_j$ ,  $1 \leq j \leq N$ ; the numerator is a polynomial of degree  $N(N+1) - 2$  in  $x$  and  $t$ , the denominator a polynomial of degree  $N(N+1)$  in  $x$  and  $t$ .*

### 2.2.2 Degenerate rational solutions

We consider the functions  $g_{ij}$  defined by :

$$g_{i1} = f_{i1}|_{e=0}, \text{ for } 1 \leq i \leq N, \text{ and}$$

$$g_{ij} = \frac{\partial^{j-1} f_{ij}}{\partial e^{j-1}|_{e=0}}, \text{ for } 1 \leq i \leq N, 2 \leq j \leq N.$$

Then get the following result :

**Theorem 2.3** *The function  $v$  defined by*

$$v(x, t) = 2\partial_x^2 \ln(\det(g_{ij})_{(i,j) \in [1,N]}) \quad (7)$$

*is a rational solution to the Boussinesq equation (1) depending on  $3N$  parameters  $a_j$ ,  $c_j$  and  $d_j$ ,  $1 \leq j \leq N$ ; the numerator is a polynomial of degree  $N(N+1) - 2$  in  $x$  and  $t$ , the denominator a polynomial of degree  $N(N+1)$  in  $x$  and  $t$ .*

So we obtain an infinite hierarchy of rational solutions to the Boussinesq equation depending on the integer  $N$ .

In the following we give some examples of rational solutions.

These results are consequences of the previous result (7).

But, it is also possible to prove it directly in replacing the expressions of each of the solutions given in the corresponding equation and check that the relation is verified.

### 2.3 First order rational solutions

We have the following result at order  $N = 1$  :

**Proposition 2.1** *The function  $v$  defined by*

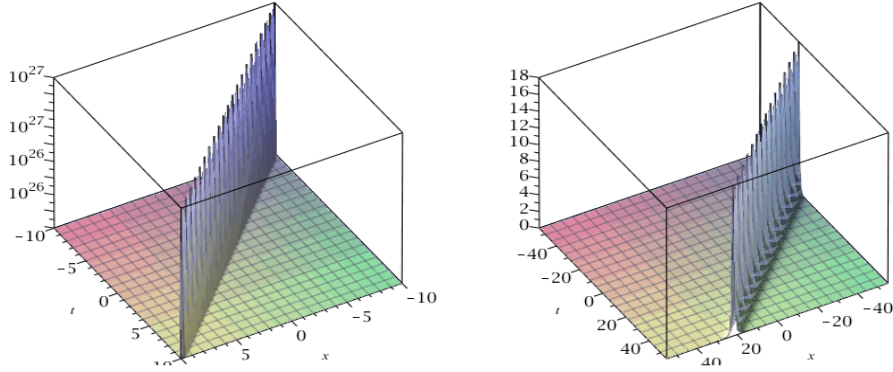
$$v(x, t) = \frac{-18 a_1^2}{(-3 a_1 x - c_1 + 3 t a_1 + d_1)^2}, \quad (8)$$

*is a solution to the Boussinesq equation (1) with  $a_1, c_1, d_1$  arbitrarily real parameters.*

**Remark 2.1** *If  $a_1 = 0$ , then the solution is the trivial solution 0.*

**Remark 2.2** *The solution (8) can be simplified and be rewritten as a solution depending on one parameter  $C_1$ .*

$$v(x, t) = \frac{-18}{(-3x + 3t + C_1)^2}. \quad (9)$$



**Figure 1.** Solution of order 1 to (1), on the left  $a_1 = 10^{13}, c_1 = 1, d_1 = 0$ ; on the right  $a_1 = 1, c_1 = 10^2, d_1 = 0$ .

**Remark 2.3** *The case where  $a_1 = 1, c_1 = 0, d_1 = 10^2$  gives the same figure as the case  $a_1 = 1, c_1 = 10^2, d_1 = 0$ .*

*The roles played by the parameters  $c$  and  $d$  being the same, we only give the figures with parameters  $d$  equal to 0.*

## 2.4 Second order rational solutions

**Proposition 2.2** *The function  $v$  defined by*

$$v(x, t) = -2 \frac{n(x, t)}{d(x, t)^2}, \quad (10)$$

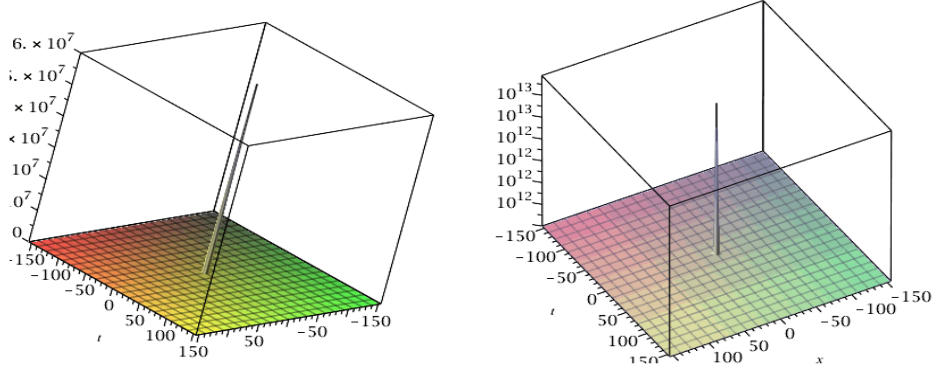
with

$$\begin{aligned} n(x, t) = & 9 a_1 a_2 (27 a_1^5 a_2 + 243 a_2^5 a_1 - 162 a_2^3 a_1^3) x^4 + 9 a_1 a_2 (-972 a_2^5 t a_1 - 324 a_2^5 a_1 + \\ & 216 a_2^3 a_1^3 + 648 a_2^3 a_1^3 t - 36 a_1^5 a_2 - 108 a_1^5 t a_2) x^3 + 9 a_1 a_2 (972 a_2^5 t a_1 - 648 a_2^3 a_1^3 t - \\ & 108 a_2^3 a_1^3 - 972 a_2^3 a_1^3 t^2 + 162 a_1^5 t^2 a_2 + 162 a_2^5 a_1 + 18 a_1^5 a_2 + 108 a_1^5 t a_2 + 1458 a_2^5 t^2 a_1) x^2 + \\ & 9 a_1 a_2 (-108 a_1^5 t^3 a_2 + 216 a_2^2 c_2 a_1 + 72 d_2 a_1^3 - 432 a_2^3 a_1^3 t + 648 a_2^3 a_1^3 t^3 - 24 a_1^2 d_1 a_2 + \\ & 648 a_2^3 a_1^3 t^2 + 648 a_2^5 t a_1 - 72 a_1^3 c_2 + 72 d_1 a_2^3 + 24 a_1^2 c_1 a_2 - 972 a_2^5 a_1 t^3 - 72 a_2^3 c_1 - \\ & 972 a_2^5 t^2 a_1 + 72 a_1^5 t a_2 - 216 a_2^2 d_2 a_1 - 108 a_1^5 t^2 a_2) x + 9 a_1 a_2 (24 a_2^3 c_1 + 24 a_1^3 c_2 + \\ & 324 a_2^5 a_1 t^3 + 540 a_2^3 a_1^3 t^2 + 216 a_2^3 a_1^3 t - 216 a_2^3 a_1^3 t^3 + 8 a_1^2 d_1 a_2 - 90 a_1^5 t^2 a_2 - \\ & 36 a_1^5 t a_2 + 36 a_1^5 t^3 a_2 + 243 t^4 a_2^5 a_1 - 162 t^4 a_2^3 a_1^3 + 27 a_1^5 t^4 a_2 + 72 a_2^2 d_2 a_1 - 810 a_2^5 t^2 a_1 - \\ & 324 a_2^5 t a_1 - 72 t a_2^3 d_1 - 72 a_1^3 t d_2 + 216 t a_2^2 d_2 a_1 + 24 a_1^2 t d_1 a_2 - 216 t a_2^2 c_2 a_1 - 24 a_1^2 t c_1 a_2 - \\ & 24 d_2 a_1^3 - 24 d_1 a_2^3 - 8 a_1^2 c_1 a_2 + 72 t a_2^3 c_1 + 72 a_1^3 t c_2 - 72 a_2^2 c_2 a_1), \end{aligned}$$

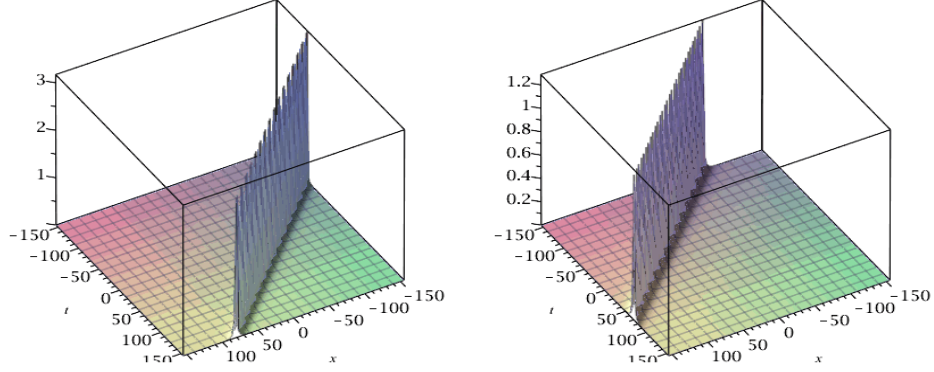
and

$$\begin{aligned} d(x, t) = & (-9 a_1^3 a_2 + 27 a_1 a_2^3) x^3 + (27 t a_1^3 a_2 - 81 t a_1 a_2^3 + 9 a_1^3 a_2 - 27 a_1 a_2^3) x^2 + \\ & (-27 t^2 a_1^3 a_2 + 81 t^2 a_1 a_2^3 - 18 t a_1^3 a_2 + 54 t a_1 a_2^3) x + 9 t^3 a_1^3 a_2 - 27 t^3 a_1 a_2^3 + 9 t^2 a_1^3 a_2 - \\ & 27 t^2 a_1 a_2^3 + 18 t a_1^3 a_2 - 54 t a_1 a_2^3 - 12 a_1 c_2 + 12 a_1 d_2 + 4 a_2 c_1 - 4 a_2 d_1, \end{aligned}$$

is a rational solution to the Boussinesq equation (1), quotient of two polynomials with numerator of order 4 in  $x$  and  $t$ , denominator of degree 6 in  $x$  and  $t$ .



**Figure 2.** Solution of order 2 to (1); on the left,  $a_1 = 10^7$ ,  $a_2 = 1$ ,  $c_1 = 1$ ,  $c_2 = 1$ ,  $d_1 = 0$ ,  $d_2 = 0$ ; on the right,  $a_1 = 1$ ,  $a_2 = 10^7$ ,  $c_1 = 1$ ,  $c_2 = 1$ ,  $d_1 = 0$ ,  $d_2 = 0$ .



**Figure 3.** Solution of order 2 to (1); on the left,  $a_1 = 1, a_2 = 1, c_1 = 10^7, c_2 = 0, d_1 = 1, d_2 = 1$ ; on the right,  $a_1 = 1, a_2 = 1, c_1 = 0, c_2 = 10^7, d_1 = 0, d_2 = 0$ .

## 2.5 Rational solutions of order three

We get the following rational solutions given by :

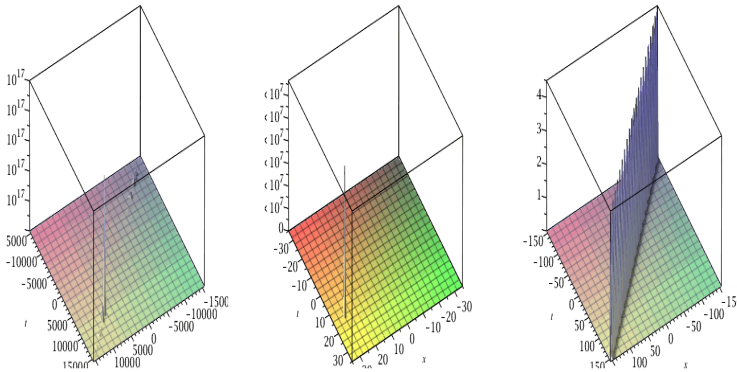
**Proposition 2.3** *The function  $v$  defined by*

$$v(x, t) = -2 \frac{n(x, t)}{d(x, t)^2}, \quad (11)$$

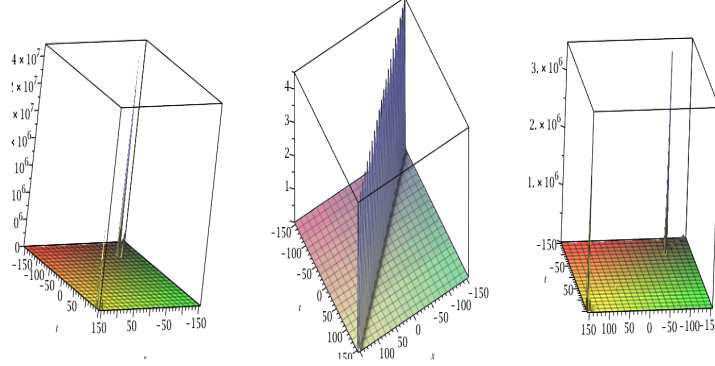
*is a rational solution to the Boussinesq equation (1), quotient of two polynomials with numerator of order 10 in  $x$  and  $t$ , denominator of degree 12 in  $x$  and  $t$ .*

Because of the length of the solution, we give it only in the appendix.

**Remark 2.4** *If  $c_1 = c_2 = c_3 = d_1 = d_2 = d_3 = 0$ , then the determinant in the formula (7) can be simplified by  $\frac{(177147)}{80}a_1a_2a_3^3(-80a_2^4 + 360a_3^2a_2^2 + a_1^4 - 30a_3^2a_1^2)$  and the solution to the Boussinesq equation depends no longer on any parameter. If one of the parameters  $a_1, a_2$  or  $a_3$  is equal to 0 then the solution of the Boussinesq equation is the trivial solution (equal to 0).*



**Figure 4.** Solution of order 3 to (1); on the left,  $a_1 = 1, a_2 = 1, a_3 = 1, c_1 = 0, c_2 = 0, c_3 = 10^7, d_1 = 0, d_2 = 0, d_3 = 0$ ; in the center,  $a_1 = 1, a_2 = 1, a_3 = 1, c_1 = 0, c_2 = 10^7, c_3 = 1, d_1 = 0, d_2 = 0, d_3 = 0$ ; on the right,  $a_1 = 1, a_2 = 1, a_3 = 10^7, c_1 = 1, c_2 = 1, c_3 = 1, d_1 = 0, d_2 = 0, d_3 = 0$ .



**Figure 5.** Solution of order 3 to (1) on the left,  $a_1 = 1, a_2 = 10^7, a_3 = 1, c_1 = 1, c_2 = 1, c_3 = 10^7, d_1 = 0, d_2 = 0, d_3 = 0$ ; in the center,  $a_1 = 10^7, a_2 = 1, a_3 = 1, c_1 = 1, c_2 = 10^7, c_3 = 1, d_1 = 0, d_2 = 0, d_3 = 0$ ; on the right,  $a_1 = 1, a_2 = 1, a_3 = 10^7, c_1 = 10^5, c_2 = 1, c_3 = 1, d_1 = 0, d_2 = 0, d_3 = 0$ .

### 3 Solutions to the Kadomtsev Petviashvili equation

We consider the Kadomtsev Petviashvili equation (KP) which can be written in the form

$$(4u_T - 6uu_X + u_{XX})_X - 3u_{YY} = 0, \quad (12)$$

where subscripts  $X, Y$  and  $T$  denote as usual partial derivatives.

From the previous study, we can deduce easily solutions to the KP equation. It is sufficient for this, to use the following transformations  $x = X + \frac{3iT}{4}, t = Y$  from the solutions to the Boussinesq equation to obtain solutions to the KP equation.

#### 3.1 Solutions to the KP equation

#### 3.2 First order rational solutions

We have the following result at order  $N = 1$  :

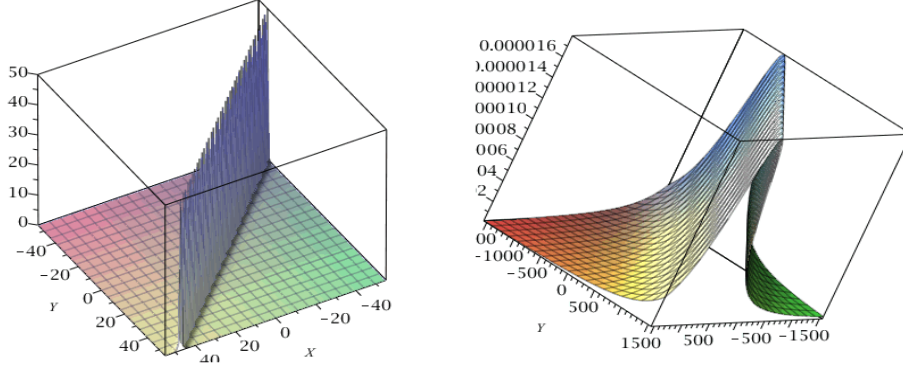
**Proposition 3.1** *The function  $v$  defined by*

$$v(X, Y, T) = \frac{-288 a_1^2}{(12 i a_1 X + 9 i a_1 T + 4 c_1 - 12 i Y a_1 - 4 d_1)^2}, \quad (13)$$



is a solution to the KP equation (12).

**Remark 3.1** The solution (13) can be simplified and be rewritten as depending on one parameter  $v(X,Y,T) = \frac{-288}{(12iX + 9iT + 4C_1 - 12iY)^2}$



**Figure 6.** Solution of order 1 to (12), on the left  $T = 10$ ,  $a_1 = 10^6$ ,  $c_1 = 1$ ,  $d_1 = 1$ ; on the right  $T = 10$ ,  $a_1 = 1$ ,  $c_1 = 10^3$ ,  $d_1 = 1$ .

**Remark 3.2** The case where  $T = 10$ ,  $a_1 = 1$ ,  $c_1 = 1$ ,  $d_1 = 10^3$  gives the same figure as the case  $T = 10$ ,  $a_1 = 1$ ,  $c_1 = 10^3$ ,  $d_1 = 1$ .

### 3.3 Second order rational solutions

We obtain the following solutions :

**Proposition 3.2** The function  $v$  defined by

$$v(X,Y,T) = -2 \frac{n(X,Y,T)}{d(X,Y,T)^2}, \quad (14)$$

with

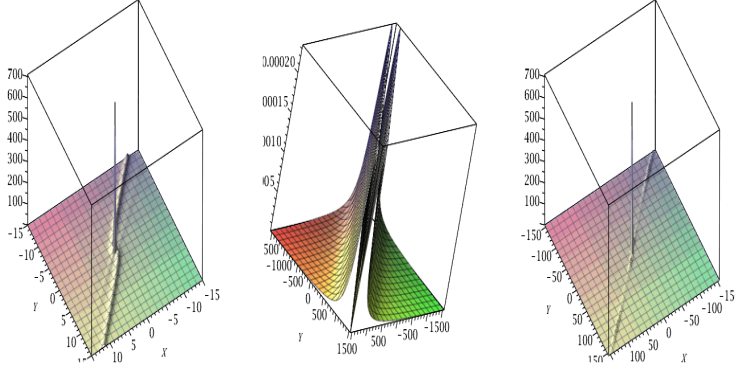
$$\begin{aligned} n(X,Y,T) = & 144 a_1 a_2 (-41472 a_2^3 a_1^3 + 62208 a_2^5 a_1 + 6912 a_1^5 a_2) X^4 + 144 a_1 a_2 (-124416 a_2^3 a_1^3 T - \\ & 27648 a_1^5 Y a_2 + 165888 a_2^3 a_1^3 Y + 9216 i a_1^5 a_2 - 55296 i a_2^3 a_1^3 + 186624 a_2^5 a_1 T + 82944 i a_2^5 a_1 + \\ & 20736 a_1^5 a_2 T - 248832 a_2^5 Y a_1) X^3 + 144 a_1 a_2 (-248832 a_2^3 a_1^3 Y^2 - 27648 i a_1^5 Y a_2 + \\ & 23328 a_1^5 a_2 T^2 + 373248 a_2^3 a_1^3 Y T + 165888 i a_2^3 a_1^3 Y - 124416 i a_2^3 a_1^3 T + 41472 a_1^5 Y^2 a_2 - \\ & 62208 a_1^5 Y a_2 T - 559872 a_2^5 Y a_1 T - 139968 a_2^3 a_1^3 T^2 - 41472 a_2^5 a_1 + 27648 a_2^3 a_1^3 + \\ & 209952 a_2^5 a_1 T^2 + 186624 i a_2^5 a_1 T + 373248 a_2^5 Y^2 a_1 - 248832 i a_2^5 Y a_1 + 20736 i a_1^5 a_2 T - \\ & 4608 a_1^5 a_2) X^2 + 144 a_1 a_2 (-419904 a_2^5 Y a_1 T^2 + 279936 a_2^3 a_1^3 Y T^2 - 46656 a_1^5 Y a_2 T^2 + \\ & 62208 a_1^5 Y^2 a_2 T + 559872 a_2^5 Y^2 a_1 T - 373248 a_2^3 a_1^3 Y^2 T - 373248 i a_2^5 Y a_1 T + 248832 i a_2^3 a_1^3 Y T - \\ & 41472 i a_1^5 Y a_2 T - 18432 i a_2^3 c_1 + 41472 a_2^3 a_1^3 T - 6912 a_1^5 a_2 T - 62208 a_2^5 a_1 T + 18432 i d_2 a_1^3 - \\ & 18432 i a_1^3 c_2 + 18432 i d_1 a_2^3 + 139968 i a_2^5 a_1 T^2 - 93312 i a_2^3 a_1^3 T^2 + 15552 i a_1^5 a_2 T^2 + \\ & 27648 i a_1^5 Y^2 a_2 + 248832 i a_2^5 Y^2 a_1 - 165888 i a_2^3 a_1^3 Y^2 - 55296 i a_2^2 d_2 a_1 - 6144 i a_1^2 d_1 a_2 + \\ & 55296 i a_2^2 c_2 a_1 + 6144 i a_1^2 c_1 a_2 - 69984 a_2^3 a_1^3 T^3 + 11664 a_1^5 a_2 T^3 + 104976 a_2^5 a_1 T^3 - \end{aligned}$$

$$\begin{aligned}
& 248832 a_2^5 a_1 Y^3 + 110592 a_2^3 a_1^3 Y + 165888 a_2^3 a_1^3 Y^3 - 18432 a_1^5 Y a_2 - 27648 a_1^5 Y^3 a_2 - \\
& 165888 a_2^5 Y a_1) X + 144 a_1 a_2 (6144 a_2^3 c_1 + 6144 a_1^3 c_2 + 41472 i a_2^2 c_2 a_1 T + 4608 i a_1^2 c_1 a_2 T - \\
& 104976 a_2^5 Y a_1 T^3 + 69984 a_2^3 a_1^3 Y T^3 - 11664 a_1^5 Y a_2 T^3 + 55296 i Y a_2^2 d_2 a_1 + 6144 i a_1^2 Y d_1 a_2 - \\
& 55296 i Y a_2^2 c_2 a_1 - 6144 i a_1^2 Y c_1 a_2 - 139968 i a_2^5 Y a_1 T^2 + 93312 i a_2^3 a_1^3 Y T^2 - 15552 i a_1^5 Y a_2 T^2 + \\
& 20736 i a_1^5 Y^2 a_2 T + 186624 i a_2^5 Y^2 a_1 T - 124416 i a_2^3 a_1^3 Y^2 T - 41472 i a_2^2 d_2 a_1 T - 4608 i a_1^2 d_1 a_2 T - \\
& 13122 a_2^3 a_1^3 T^4 + 19683 a_2^5 a_1 T^4 + 2187 a_1^5 a_2 T^4 + 13824 i d_2 a_1^3 T - 13824 i a_1^3 c_2 T + \\
& 13824 i d_1 a_2^3 T - 23328 i a_2^3 a_1^3 T^3 + 3888 i a_1^5 a_2 T^3 - 82944 i a_2^5 a_1 Y^3 + 55296 i a_2^3 a_1^3 Y + \\
& 55296 i a_2^3 a_1^3 Y^3 - 9216 i a_1^5 Y a_2 - 9216 i a_1^5 Y^3 a_2 - 82944 i a_2^5 Y a_1 - 18432 i Y a_2^3 d_1 - \\
& 18432 i a_1^3 Y d_2 + 18432 i Y a_2^3 c_1 + 18432 i a_1^3 Y c_2 + 34992 i a_2^5 a_1 T^3 - 13824 i a_2^3 c_1 T - \\
& 124416 a_2^5 Y a_1 T + 82944 a_2^3 a_1^3 Y T - 186624 a_2^5 a_1 Y^3 T + 124416 a_2^3 a_1^3 Y^3 T - 13824 a_1^5 Y a_2 T - \\
& 20736 a_1^5 Y^2 a_2 T + 209952 a_2^5 Y^2 a_1 T^2 - 139968 a_2^3 a_1^3 Y^2 T^2 + 23328 a_1^5 Y^2 a_2 T^2 + 62208 Y^4 a_2^5 a_1 - \\
& 41472 Y^4 a_2^3 a_1^3 + 6912 a_1^5 Y^4 a_2 + 2048 a_1^2 d_1 a_2 + 18432 a_2^2 d_2 a_1 - 6144 d_2 a_1^3 - 6144 d_1 a_2^3 + \\
& 15552 a_2^3 a_1^3 T^2 - 2592 a_1^5 a_2 T^2 - 23328 a_2^5 a_1 T^2 - 138240 a_2^3 a_1^3 Y^2 + 207360 a_2^5 Y^2 a_1 + \\
& 23040 a_1^5 Y^2 a_2 - 2048 a_1^2 c_1 a_2 - 18432 a_2^2 c_2 a_1),
\end{aligned}$$

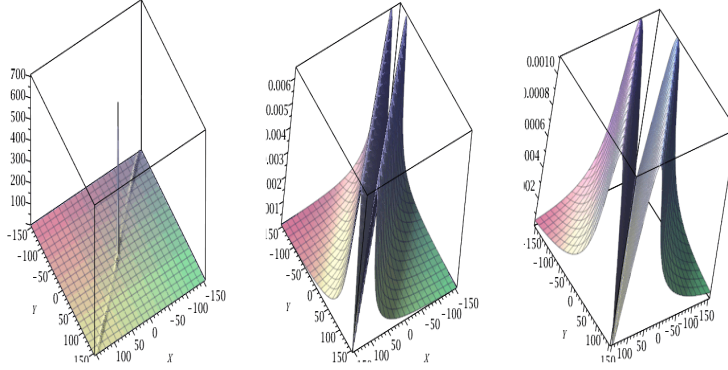
and

$$\begin{aligned}
d(X, Y, T) = & -1728 i a_1 a_2^3 X^3 + 576 i a_1^3 a_2 X^3 + 1728 a_1 a_2^3 X^2 - 576 a_1^3 a_2 X^2 - 3888 i a_1 a_2^3 X^2 T + \\
& 5184 i Y a_1 a_2^3 X^2 - 1728 i Y a_1^3 a_2 X^2 + 1296 i a_1^3 a_2 T X^2 + 7776 i Y a_1 a_2^3 T X + 972 i a_1^3 a_2 T^2 X - \\
& 2916 i a_1 a_2^3 X T^2 - 5184 i Y^2 a_1 a_2^3 X + 1728 i Y^2 a_1^3 a_2 X - 2592 i Y a_1^3 a_2 X T - 864 a_1^3 a_2 T X - \\
& 3456 Y a_1 a_2^3 X + 2592 a_1 a_2^3 T X + 1152 Y a_1^3 a_2 X - 768 a_1 c_2 - 256 a_2 d_1 - 3888 i Y^2 a_1 a_2^3 T + \\
& 2916 i Y a_1 a_2^3 T^2 + 1728 i Y^3 a_1 a_2^3 - 576 i Y^3 a_1^3 a_2 - 3456 i Y a_1 a_2^3 + 1152 i Y a_1^3 a_2 - \\
& 972 i Y a_1^3 a_2 T^2 - 729 i a_1 a_2^3 T^3 + 256 a_2 c_1 + 243 i a_1^3 a_2 T^3 + 768 a_1 d_2 + 1296 i Y^2 a_1^3 a_2 T + \\
& 972 a_1 a_2^3 T^2 - 2592 Y a_1 a_2^3 T - 324 a_1^3 a_2 T^2 + 864 Y a_1^3 a_2 T + 1728 Y^2 a_1 a_2^3 - 576 Y^2 a_1^3 a_2,
\end{aligned}$$

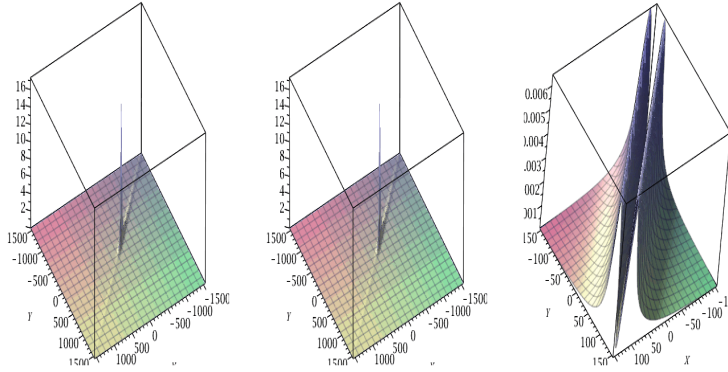
is a rational solution to the KP equation (12), quotient of two polynomials with numerator of degree 4 in  $x, y$  and  $t$  and denominator of degree 6 in  $x, y$  and  $t$ .



**Figure 7.** Solution of order 2 to (12); on the left  $T = 0, 1, a_1 = 1, a_2 = 1, c_1 = 0, c_2 = 0, d_1 = 0, d_2 = 0$ ; in the center  $T = 0, 1, a_1 = 1, a_2 = 1, c_1 = 0, c_2 = 10^8, d_1 = 0, d_2 = 0$ ; on the right  $T = 0, 1, a_1 = 1, a_2 = 10^9, c_1 = 1, c_2 = 1, d_1 = 0, d_2 = 0$ .



**Figure 8.** Solution of order 2 to (12); on the left  $T = 0, 1, a_1 = 10^6, a_2 = 1, c_1 = 1, c_2 = 1, d_1 = 0, d_2 = 0$ ; in the center  $T = 0, 1, a_1 = 1, a_2 = 1, c_1 = 10^6, c_2 = 0, d_1 = 0, d_2 = 0$ ; on the right  $T = 10, a_1 = 1, a_2 = 1, c_1 = 1, c_2 = 10^7, d_1 = 0, d_2 = 0$ .



**Figure 9.** Solution of order 2 to (12); on the left  $T = 10, a_1 = 1, a_2 = 10^9, c_1 = 1, c_2 = 1, d_1 = 0, d_2 = 0$ ; in the center  $T = 10, a_1 = 10^{10}, a_2 = 1, c_1 = 1, c_2 = 1, d_1 = 0, d_2 = 0$ ; on the right  $T = 10, a_1 = 1, a_2 = 1, c_1 = 1, c_2 = 10^6, d_1 = 0, d_2 = 0$ .

### 3.4 Rational solutions of order 3

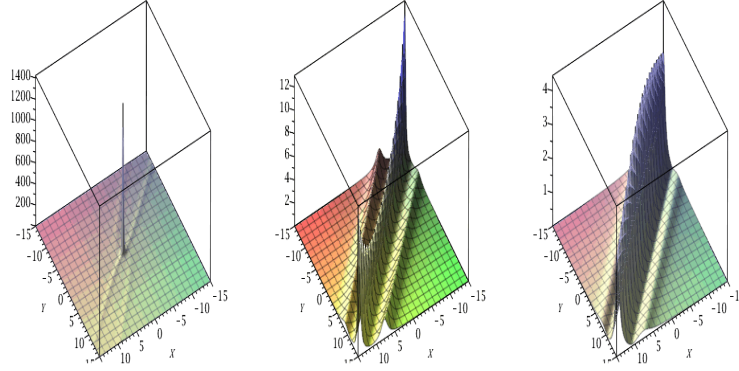
We get the non singular rational solutions given by :

**Proposition 3.3** *The function  $v$  defined by*

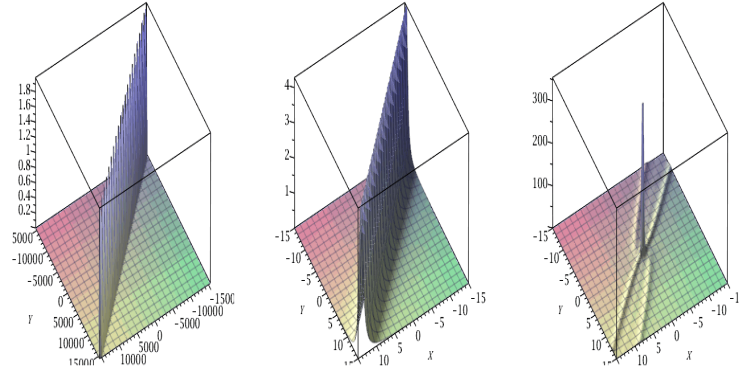
$$v(X,Y,T) = -2 \frac{n(X,Y,T)}{d(X,Y,T)^2}, \quad (15)$$

*is a rational solution to the KP equation (12), quotient of two polynomials with numerator of degree 10 in  $X, Y, T$  and denominator of degree 12 in  $X, Y$  and  $T$ .*

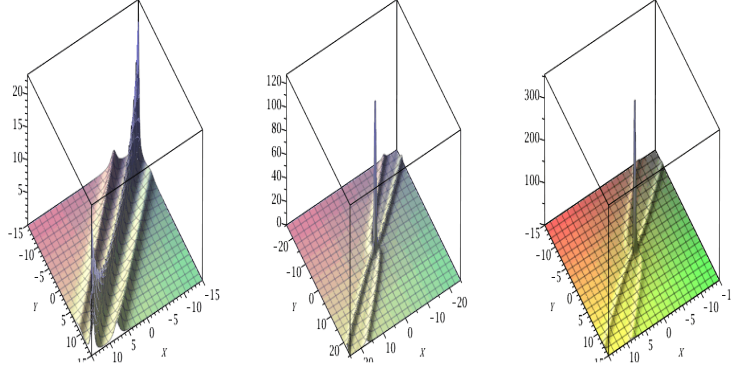
Because of the length of the solution, we only give it in the appendix.



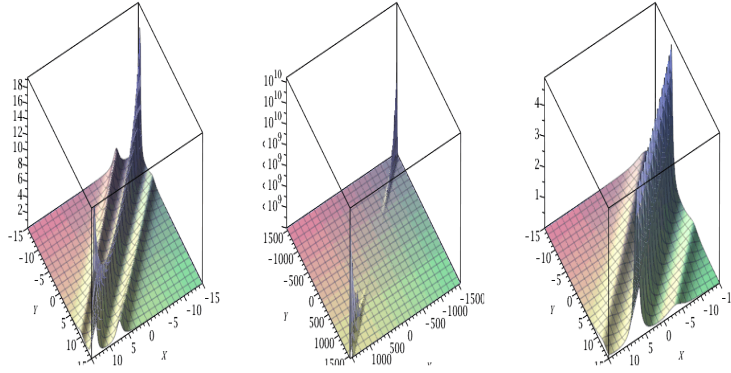
**Figure 10.** Solution of order 3 to (12); on the left  $T = 0, 1, a_1 = 1, a_2 = 1, a_3 = 1, c_1 = 0, c_2 = 0, c_3 = 0, d_1 = 0, d_2 = 0, d_3 = 0$ ; in the center  $T = 0, 1, a_1 = 1, a_2 = 1, a_3 = 1, c_1 = 1, c_2 = 0, c_3 = 10^6, d_1 = 0, d_2 = 0, d_3 = 0$ ; on the right  $T = 0, 1, a_1 = 1, a_2 = 1, a_3 = 1, c_1 = 0, c_2 = 10^6, c_3 = 1, d_1 = 0, d_2 = 0, d_3 = 0$ .



**Figure 11.** Solution of order 3 to (12); on the left  $T = 0, 1, a_1 = 1, a_2 = 1, a_3 = 10^{24}, c_1 = 1, c_2 = 1, c_3 = 1, d_1 = 0, d_2 = 0, d_3 = 0$ ; in the center  $T = 0, 1, a_1 = 1, a_2 = 10^4, a_3 = 1, c_1 = 1, c_2 = 1, c_3 = 1, d_1 = 0, d_2 = 0, d_3 = 0$ ; on the right  $T = 0, 1, a_1 = 10, a_2 = 1, a_3 = 1, c_1 = 1, c_2 = 10, c_3 = 1, d_1 = 0, d_2 = 0, d_3 = 0$ .



**Figure 12.** Solution of order 3 to (12); on the left  $T = 0, 1, a_1 = 1, a_2 = 1, a_3 = 1, c_1 = 10^6, c_2 = 1, c_3 = 1, d_1 = 0, d_2 = 0, d_3 = 0$ ; in the center  $T = 1, a_1 = 1, a_2 = 1, a_3 = 1, c_1 = 0, c_2 = 0, c_3 = 0, d_1 = 0, d_2 = 0, d_3 = 0$ ; on the right  $T = 1, a_1 = 10^6, a_2 = 1, a_3 = 1, c_1 = 1, c_2 = 1, c_3 = 1, d_1 = 0, d_2 = 0, d_3 = 0$ .



**Figure 13.** Solution of order 3 to (12); on the left  $T = 1, a_1 = 1, a_2 = 1, a_3 = 1, c_1 = 10^6, c_2 = 1, c_3 = 1, d_1 = 0, d_2 = 0, d_3 = 0$ ; in the center  $T = 10, a_1 = 10^6, a_2 = 1, a_3 = 1, c_1 = 1, c_2 = 1, c_3 = 1, d_1 = 0, d_2 = 0, d_3 = 0$ ; on the right  $T = 10, a_1 = 1, a_2 = 1, a_3 = 1, c_1 = 1, c_2 = 1, c_3 = 10^7, d_1 = 0, d_2 = 0, d_3 = 0$ .

## 4 Conclusion

We have given three types of representations of solutions to the Boussinesq equation. First, solutions in terms of elementary exponential functions have been constructed. In particular, performing a passage to the limit when one parameter goes to 0 we get rational solutions to the Boussinesq equation. We give another representation in terms of determinants without the presence of a limit. So we obtain an infinite hierarchy of multiparametric families of rational

solutions to the Boussinesq equation as a quotient of a polynomial of degree  $N(N+1) - 2$  in  $x, t$  by a polynomial of degree  $N(N+1)$  in  $x, t$  depending on  $3N$  real parameters.

As a byproduct, we get easily similar rational solutions to the Kadomtsev Petviashvili equation as the quotient of determinants of polynomials, where the numerator is a polynomial of degree  $N(N+1) - 2$  in  $X, Y, T$  and the denominator is a polynomial of degree  $N(N+1)$  in  $X, Y, T$ .

In particular, we construct explicit rational solutions to the Boussinesq equation of order 1, 2, 3.

Unlike other equations such as NLS, there are no specific structures that emerge as a function of the parameters.

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## Appendix

### Rational solution to the Boussinesq equation of order 3

The function  $v$  defined by

$$v(x, t) = -2 \frac{n(x, t)}{d(x, t)^2}, \quad (16)$$

is a solution of order 3 to the Boussinesq equation with

$$\begin{aligned} n(x, t) = & (1239745564800 a_1^4 a_2^6 a_3^8 + 33473130249600 a_1^2 a_2^6 a_3^{10} - 5578855041600 a_1^4 a_2^4 a_3^{10} + 1652994086400 a_1^2 a_2^{10} a_3^6 - \\ & 14876946777600 a_1^2 a_2^8 a_3^8 + 258280326 a_1^{10} a_2^2 a_3^6 - 15496819560 a_1^8 a_2^2 a_3^8 - 41324852160 a_1^6 a_2^6 a_3^6 + 185961834720 a_1^6 a_2^4 a_3^8 + \\ & 232452293400 a_1^6 a_2^2 a_3^{10}) x^{10} + (275499014400 a_1^6 a_2^6 a_3^6 + 55788550416000 a_1^4 a_2^4 a_3^{10} t - 16529940864000 a_1^2 a_2^{10} a_3^6 t - \\ & 1239745564800 a_1^6 a_2^4 a_3^8 - 12397455648000 a_1^4 a_2^6 a_3^8 t - 1721868840 a_1^{10} a_2^2 a_3^6 + 103312130400 a_1^8 a_2^2 a_3^8 + \\ & 148769467776000 a_1^2 a_2^8 a_3^8 t - 334731302496000 a_1^2 a_2^6 a_3^{10} t - 1549681956000 a_1^6 a_2^2 a_3^{10} - 8264970432000 a_1^4 a_2^6 a_3^8 - \\ & 2582803260 a_1^{10} a_2^2 a_3^6 t + 154968195600 a_1^8 a_2^2 a_3^8 t + 99179645184000 a_1^2 a_2^8 a_3^8 - 223154201664000 a_1^2 a_2^6 a_3^{10} + \\ & 37192366944000 a_1^4 a_2^4 a_3^{10} - 11019960576000 a_1^2 a_2^{10} a_3^6 + 413248521600 a_1^6 a_2^6 a_3^6 t - 1859618347200 a_1^6 a_2^4 a_3^8 t - \\ & 2324522934000 a_1^6 a_2^2 a_3^{10}) t^9 + (4735139310 a_1^{10} a_2^2 a_3^6 - 284108358600 a_1^8 a_2^2 a_3^8 - 757622289600 a_1^6 a_2^6 a_3^6 + \\ & 3409300303200 a_1^6 a_2^4 a_3^8 + 42616253790000 a_1^6 a_2^2 a_3^{10} + 22728668688000 a_1^4 a_2^6 a_3^8 - 102279009096000 a_1^4 a_2^4 a_3^{10} + \\ & 30304891584000 a_1^2 a_2^{10} a_3^6 - 272744024256000 a_1^2 a_2^8 a_3^8 + 613674054576000 a_1^2 a_2^6 a_3^{10} + 11622614670 a_1^{10} a_2^2 a_3^6 t - \\ & 697356880200 a_1^8 a_2^2 a_3^8 t^2 - 1859618347200 a_1^6 a_2^6 a_3^6 t^2 + 8368282562400 a_1^6 a_2^4 a_3^8 t^2 + 10460353203000 a_1^6 a_2^2 a_3^{10} t^2 + \\ & 55788550416000 a_1^4 a_2^6 a_3^8 t^2 - 251048476872000 a_1^4 a_2^4 a_3^{10} t^2 + 74384733888000 a_1^2 a_2^{10} a_3^6 t^2 - 669462604992000 a_1^2 a_2^8 a_3^8 t^2 + \\ & 1506290861232000 a_1^2 a_2^6 a_3^{10} t^2 + 15496819560 a_1^{10} a_2^2 a_3^6 t - 929809173600 a_1^8 a_2^2 a_3^8 t - 2479491129600 a_1^6 a_2^6 a_3^6 t + \\ & 11157710083200 a_1^6 a_2^4 a_3^8 t + 13947137604000 a_1^6 a_2^2 a_3^{10} t + 74384733888000 a_1^4 a_2^6 a_3^8 t - 334731302496000 a_1^4 a_2^4 a_3^{10} t + \\ & 99179645184000 a_1^2 a_2^{10} a_3^6 t - 892616806656000 a_1^2 a_2^8 a_3^8 t + 2008387814976000 a_1^2 a_2^6 a_3^{10} t) x^8 + (-6887475360 a_1^{10} a_2^2 a_3^6 + \end{aligned}$$

$413248521600 a_1^8 a_2^2 a_3^8 + 1101996057600 a_1^6 a_2^6 a_3^6 - 4958982259200 a_1^6 a_2^4 a_3^8 - 6198727824000 a_1^6 a_2^2 a_3^{10} -$   
 $33059881728000 a_1^4 a_2^6 a_3^8 + 148769467776000 a_1^4 a_2^4 a_3^{10} - 44079842304000 a_1^2 a_2^{10} a_3^6 + 396718580736000 a_1^2 a_2^8 a_3^8 -$   
 $892616806656000 a_1^2 a_2^6 a_3^{10} - 6198727282400 a_1^{10} a_2^2 a_3^6 t^2 + 3719236694400 a_1^8 a_2^2 a_3^8 t^2 + 9917964518400 a_1^6 a_2^2 a_3^6 t^2 -$   
 $44630840332800 a_1^6 a_2^4 a_3^8 t^2 - 55788550416000 a_1^6 a_2^2 a_3^{10} t^2 - 29753893552000 a_1^4 a_2^6 a_3^8 t^2 + 1338925209984000 a_1^4 a_2^4 a_3^{10} t^2 -$   
 $396718580736000 a_1^2 a_2^{10} a_3^6 t^2 + 3570467226624000 a_1^2 a_2^8 a_3^8 t^2 - 8033551259904000 a_1^2 a_2^6 a_3^{10} t^2 - 37881114480 a_1^{10} a_2^2 a_3^6 t +$   
 $2272866868800 a_1^8 a_2^2 a_3^8 t + 6060978316800 a_1^6 a_2^2 a_3^{10} t - 27274402425600 a_1^6 a_2^4 a_3^8 t - 34093003032000 a_1^6 a_2^2 a_3^{10} t -$   
 $181829349504000 a_1^4 a_2^6 a_3^8 t + 818232072768000 a_1^4 a_2^4 a_3^{10} t - 242439132672000 a_1^2 a_2^{10} a_3^6 t + 2181952194048000 a_1^2 a_2^8 a_3^8 t -$   
 $4909392436608000 a_1^2 a_2^6 a_3^{10} t - 30993639120 a_1^{10} a_2^2 a_3^6 t^3 + 1859618347200 a_1^8 a_2^2 a_3^8 t^3 + 4958982259200 a_1^6 a_2^2 a_3^6 t^3 -$   
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 $258280326000 a_1^8 a_2^2 a_3^8 - 688747536000 a_1^6 a_2^2 a_3^6 + 3099363912000 a_1^6 a_2^4 a_3^8 + 3874204890000 a_1^6 a_2^2 a_3^{10} +$   
 $2066242608000 a_1^4 a_2^6 a_3^8 - 92980917360000 a_1^4 a_2^4 a_3^{10} + 27549901440000 a_1^2 a_2^{10} a_3^6 - 247949112960000 a_1^2 a_2^8 a_3^8 +$   
 $557885504160000 a_1^2 a_2^6 a_3^{10} + 132583900680 a_1^{10} a_2^2 a_3^6 t^2 - 7955034040800 a_1^8 a_2^2 a_3^8 t^2 - 21213424108800 a_1^6 a_2^2 a_3^6 t^2 +$   
 $95460408489600 a_1^6 a_2^4 a_3^8 t^2 + 119325510612000 a_1^6 a_2^2 a_3^{10} t^2 + 636402723264000 a_1^4 a_2^6 a_3^8 t^2 - 2863812254688000 a_1^4 a_2^4 a_3^{10} t^2 +$   
 $848536964352000 a_1^2 a_2^{10} a_3^6 t^2 - 7636832679168000 a_1^2 a_2^8 a_3^8 t^2 + 17182873528128000 a_1^2 a_2^6 a_3^{10} t^2 + 148212327520 a_1^{10} a_2^2 a_3^6 t -$   
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 $231419172096000 a_1^4 a_2^6 a_3^8 t - 1041386274432000 a_1^4 a_2^4 a_3^{10} t + 308558896128000 a_1^2 a_2^{10} a_3^6 t - 2777030065152000 a_1^2 a_2^8 a_3^8 t +$   
 $6248317646592000 a_1^2 a_2^6 a_3^{10} t + 54238868460 a_1^{10} a_2^2 a_3^6 t^4 - 3254332107600 a_1^8 a_2^2 a_3^8 t^4 - 8678218953600 a_1^6 a_2^2 a_3^6 t^4 +$   
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 $8678218953600 a_1^8 a_2^2 a_3^8 t^3 - 23141917209600 a_1^6 a_2^2 a_3^6 t^3 + 104138627443200 a_1^6 a_2^4 a_3^8 t^3 + 130173284304000 a_1^6 a_2^2 a_3^{10} t^3 +$   
 $694257516288000 a_1^4 a_2^6 a_3^8 t^3 - 3124158823296000 a_1^4 a_2^4 a_3^{10} t^3 + 925676688384000 a_1^2 a_2^{10} a_3^6 t^3 - 8331090195456000 a_1^2 a_2^8 a_3^8 t^3 +$   
 $18744952939776000 a_1^2 a_2^6 a_3^{10} t^3 + (-204073344000 a_1^4 a_2^4 a_3^5 d_3 - 68874753600 a_1^3 a_2^2 a_3^8 d_1 + 1224440064000 a_1^2 a_2^6 a_3^5 d_3 +$   
 $459165024000 a_1^2 a_2^5 a_3^6 d_2 - 2066242608000 a_1^2 a_2^3 a_3^8 d_2 + 8503056000 a_1^6 a_2^2 a_3^5 d_3 + 2295825120 a_1^5 a_2^2 a_3^6 d_1 +$   
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 $22674816000 a_1^4 a_2^6 a_3^3 d_3 + 172186884000 a_1^4 a_2^4 a_3^8 d_2 - 272097792000 a_1^2 a_2^8 a_3^3 d_3 - 183666009600 a_1^2 a_2^6 a_3^6 d_1 -$   
 $144636982560 a_1^{10} a_2^2 a_3^6 t^2 + 8678218953600 a_1^8 a_2^2 a_3^8 t^2 + 23141917209600 a_1^6 a_2^2 a_3^6 t^2 - 104138627443200 a_1^6 a_2^4 a_3^8 t^2 -$   
 $130173284304000 a_1^6 a_2^2 a_3^{10} t^2 - 694257516288000 a_1^4 a_2^6 a_3^8 t^2 + 3124158823296000 a_1^4 a_2^4 a_3^{10} t^2 - 925676688384000 a_1^2 a_2^{10} a_3^6 t^2 +$   
 $8331090195456000 a_1^2 a_2^8 a_3^8 t^2 - 18744952939776000 a_1^2 a_2^6 a_3^{10} t^2 - 31854573540 a_1^{10} a_2^2 a_3^6 t + 1911274412400 a_1^8 a_2^2 a_3^8 t +$   
 $5096731766400 a_1^6 a_2^6 a_3^6 t - 22935292948800 a_1^6 a_2^4 a_3^8 t - 28669116186000 a_1^6 a_2^2 a_3^{10} t - 152901952992000 a_1^4 a_2^6 a_3^8 t +$   
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 $6508664215 a_1^{10} a_2^2 a_3^6 t^5 + 3905198529120 a_1^8 a_2^2 a_3^8 t^5 + 104138627443200 a_1^6 a_2^2 a_3^6 t^5 - 468623823494400 a_1^6 a_2^4 a_3^8 t^5 -$   
 $58577977936800 a_1^6 a_2^2 a_3^{10} t^5 - 312415882329600 a_1^4 a_2^6 a_3^8 t^5 - 1405871470483200 a_1^4 a_2^4 a_3^{10} t^5 - 416554509772800 a_1^2 a_2^{10} a_3^6 t^5 +$   
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 $4686238234944000 a_1^4 a_2^4 a_3^{10} t^4 - 1388515032576000 a_1^2 a_2^{10} a_3^6 t^4 + 12496635293184000 a_1^2 a_2^8 a_3^8 t^4 - 28117429409664000 a_1^2 a_2^6 a_3^{10} t^4 -$   
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 $15273665358336000 a_1^2 a_2^8 a_3^8 t^3 - 34365747056256000 a_1^2 a_2^6 a_3^{10} t^3 + 283435200 a_1^8 a_2^2 a_3^3 c_3 - 3401222400 a_1^6 a_2^4 a_3^3 c_3 +$   
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 $183666009600 a_1^2 a_2^6 a_3^6 c_1 - 826497043200 a_1^2 a_2^4 a_3^8 c_1 - 8503056000 a_1^6 a_2^2 a_3^5 c_3 - 2295825120 a_1^5 a_2^2 a_3^6 c_1 +$   
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 $156207941164800 a_1^6 a_2^4 a_3^8 t^5 + 195259926456000 a_1^6 a_2^2 a_3^{10} t^5 + 1041386274432000 a_1^4 a_2^6 a_3^8 t^5 - 4686238234944000 a_1^4 a_2^4 a_3^{10} t^5 +$   
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 $1360488960000 a_1^2 a_2^8 a_3^3 t c_3 - 918330048000 a_1^2 a_2^6 a_3^6 t c_1 + 4132485216000 a_1^2 a_2^4 a_3^8 t c_1 + 42515280000 a_1^6 a_2^2 a_3^5 t c_3 +$   
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 $2295825120000 a_1^2 a_2^5 a_3^6 t c_2 - 10331213040000 a_1^2 a_2^3 a_3^8 t c_2 - 944784000 a_1^8 a_2^2 a_3^3 c_3 + 11337408000 a_1^6 a_2^4 a_3^3 c_3 -$   
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612220032000  $a_1 a_2^6 a_3^6 c_1 + 2754990144000 a_1 a_2^4 a_3^8 c_1 + 28343520000 a_1^6 a_2^2 a_3^5 c_3 + 7652750400 a_1^5 a_2^2 a_3^6 c_1 -$   
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6887475360000  $a_1^2 a_2^3 a_3^8 c_2 x^4 + (-831409920000 a_1^4 a_2^4 a_3^5 d_3 - 280600848000 a_1^3 a_2^2 a_3^8 d_1 + 4988459520000 a_1^2 a_2^6 a_3^5 d_3 +$   
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3367210176000  $a_1 a_2^4 a_3^8 d_1 - 1154736000 a_1^8 a_2^2 a_3^3 d_3 + 13856832000 a_1^6 a_2^4 a_3^3 d_3 - 23383404000 a_1^6 a_2 a_3^6 d_2 +$   
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2834352000  $a_1^8 a_2^2 a_3^3 t^2 d_3 + 34012224000 a_1^6 a_2^4 a_3^3 t^2 d_3 - 57395628000 a_1^6 a_2 a_3^6 t^2 d_2 + 226748160000 a_1^4 a_2^6 a_3^3 t^2 d_3 +$   
1721868840000  $a_1^4 a_2 a_3^8 t^2 d_2 - 2720977920000 a_1^2 a_2^8 a_3^3 t^2 d_3 - 1836660096000 a_1 a_2^6 a_3^6 t^2 d_1 + 8264970432000 a_1 a_2^4 a_3^8 t^2 d_1 -$   
3779136000  $a_1^8 a_2^2 a_3^3 t d_3 + 45349632000 a_1^6 a_2^4 a_3^3 t d_3 - 76527504000 a_1^6 a_2 a_3^6 t d_2 + 302330880000 a_1^4 a_2^6 a_3^3 t d_3 +$   
2295825120000  $a_1^4 a_2 a_3^8 t d_2 - 3627970560000 a_1^2 a_2^8 a_3^3 t d_3 - 2448880128000 a_1 a_2^6 a_3^6 t d_1 + 11019960576000 a_1 a_2^4 a_3^8 t d_1 -$   
2720977920000  $a_1^4 a_2^4 a_3^5 t d_3 - 918330048000 a_1^3 a_2^2 a_3^8 t d_1 + 16325867520000 a_1^2 a_2^6 a_3^5 t d_3 + 6122200320000 a_1^2 a_2^5 a_3^6 t d_2 -$   
2754990144000  $a_1^2 a_2^3 a_3^8 t d_2 + 85030560000 a_1^6 a_2^2 a_3^5 t^2 d_3 + 22958251200 a_1^5 a_2^2 a_3^6 t^2 d_1 - 2040733440000 a_1^4 a_2^4 a_3^5 t^2 d_3 -$   
6887475360000  $a_1^3 a_2^2 a_3^8 t^2 d_1 + 12244400640000 a_1^2 a_2^6 a_3^5 t^2 d_3 + 4591650240000 a_1^2 a_2^5 a_3^6 t^2 d_2 - 20662426080000 a_1^2 a_2^3 a_3^8 t^2 d_2 +$   
113374080000  $a_1^6 a_2^2 a_3^5 t d_3 + 30611001600 a_1^5 a_2^2 a_3^6 t d_1 - 137749507200 a_1^{10} a_2^2 a_3^6 t^2 + 8264970432000 a_1^8 a_2^2 a_3^8 t^2 +$   
22039921152000  $a_1^6 a_2^6 a_3^6 t^2 - 99179645184000 a_1^6 a_2^4 a_3^8 t^2 - 12397456480000 a_1^6 a_2^2 a_3^{10} t^2 - 661197634560000 a_1^4 a_2^6 a_3^8 t^2 +$   
297538935520000  $a_1^4 a_2^4 a_3^{10} t^2 - 881596846080000 a_1^2 a_2^{10} a_3^6 t^2 + 7934371614720000 a_1^2 a_2^8 a_3^8 t^2 - 17852336133120000 a_1^2 a_2^6 a_3^{10} t^2 -$   
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23141917209600  $a_1^6 a_2^6 a_3^6 t^6 - 104138627443200 a_1^6 a_2^4 a_3^8 t^6 - 130173284304000 a_1^6 a_2^2 a_3^{10} t^6 - 694257516288000 a_1^4 a_2^6 a_3^8 t^6 +$   
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38569862016000  $a_1^6 a_2^6 a_3^6 t^4 - 173564379072000 a_1^6 a_2^4 a_3^8 t^4 - 216955473840000 a_1^6 a_2^2 a_3^{10} t^4 - 1157095860480000 a_1^4 a_2^6 a_3^8 t^4 +$   
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76527504000  $a_1^6 a_2 a_3^6 t c_2 - 302330880000 a_1^4 a_2^6 a_3^3 t c_3 - 2295825120000 a_1^4 a_2 a_3^8 t c_2 + 3627970560000 a_1^2 a_2^8 a_3^3 t c_3 +$   
2448880128000  $a_1 a_2^6 a_3^6 t c_1 - 11019960576000 a_1 a_2^4 a_3^8 t c_1 - 85030560000 a_1^6 a_2^2 a_3^5 t^2 c_3 - 22958251200 a_1^5 a_2^2 a_3^6 t^2 c_1 +$   
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20662426080000  $a_1^2 a_2^3 a_3^8 t^2 c_2 - 113374080000 a_1^6 a_2^2 a_3^5 t c_3 - 30611001600 a_1^5 a_2^2 a_3^6 t c_1 + 2720977920000 a_1^4 a_2^4 a_3^5 t c_3 +$   
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701502120000  $a_1^4 a_2 a_3^8 c_2 + 1108546560000 a_1^2 a_2^8 a_3^3 c_3 + 748268928000 a_1 a_2^6 a_3^6 c_1 - 3367210176000 a_1 a_2^4 a_3^8 c_1 -$   
34642080000  $a_1^6 a_2^2 a_3^5 c_3 - 9353361600 a_1^5 a_2^2 a_3^6 c_1 + 831409920000 a_1^4 a_2^4 a_3^5 c_3 + 280600848000 a_1^3 a_2^2 a_3^8 c_1 -$   
4988459520000  $a_1^2 a_2^6 a_3^5 c_3 - 1870672320000 a_1^2 a_2^5 a_3^6 c_2 + 8418025440000 a_1^2 a_2^3 a_3^8 c_2 + (453496320000 a_1^4 a_2^4 a_3^5 d_3 +$   
1530550080000  $a_1^3 a_2^2 a_3^8 d_1 - 2720977920000 a_1^2 a_2^6 a_3^5 d_3 - 1020366720000 a_1^2 a_2^5 a_3^6 d_2 + 4591650240000 a_1^2 a_2^3 a_3^8 d_2 -$   
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604661760000  $a_1^2 a_2^8 a_3^3 d_3 + 408146688000 a_1^2 a_2^6 a_3^6 d_1 + 5668704000 a_1^8 a_2^2 a_3^3 t^2 d_3 - 68024448000 a_1^6 a_2^4 a_3^3 t^2 d_3 +$   
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3673320192000  $a_1 a_2^6 a_3^6 t^2 d_1 - 16529940864000 a_1 a_2^4 a_3^8 t^2 d_1 + 3464208000 a_1^8 a_2^2 a_3^3 t d_3 - 41570496000 a_1^6 a_2^4 a_3^3 t d_3 +$   
70150212000  $a_1^6 a_2 a_3^6 t d_2 - 277136640000 a_1^4 a_2^6 a_3^3 t d_3 - 2104506360000 a_1^4 a_2 a_3^8 t d_2 + 3325639680000 a_1^2 a_2^8 a_3^3 t d_3 +$   
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4591650240000  $a_1^2 a_2^5 a_3^6 t^3 d_2 + 20662426080000 a_1^2 a_2^3 a_3^8 t^3 d_2 + 2494229760000 a_1^4 a_2^4 a_3^5 t d_3 + 841802544000 a_1^3 a_2^2 a_3^8 t d_1 -$   
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45916502400  $a_1^5 a_2^2 a_3^6 t^2 d_1 + 4081466880000 a_1^4 a_2^4 a_3^5 t^2 d_3 + 1377495072000 a_1^3 a_2^2 a_3^8 t^2 d_1 - 24488801280000 a_1^2 a_2^6 a_3^5 t^2 d_3 -$   
9183300480000  $a_1^2 a_2^5 a_3^6 t^2 d_2 + 41324852160000 a_1^2 a_2^3 a_3^8 t^2 d_2 - 103926240000 a_1^6 a_2^2 a_3^5 t d_3 - 28060084800 a_1^5 a_2^2 a_3^6 t d_1 -$   
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 $28060084800 a_1^5 a_2^2 a_3^6 t c_1 - 2494229760000 a_1^4 a_2^4 a_3^5 t c_3 - 841802544000 a_1^3 a_2^2 a_3^8 t c_1 + 14965378560000 a_1^2 a_2^6 a_3^5 t c_3 +$   
 $5612016960000 a_1^2 a_2^5 a_3^6 t c_2 - 25254076320000 a_1^2 a_2^3 a_3^8 t c_2 - 629856000 a_1^8 a_2^2 a_3^3 c_3 + 7558272000 a_1^6 a_2^4 a_3^3 c_3 -$   
 $12754584000 a_1^6 a_2 a_3^6 c_2 + 50388480000 a_1^4 a_2^6 a_3^3 c_3 + 382637520000 a_1^4 a_2 a_3^8 c_2 - 604661760000 a_1^2 a_2^3 a_3^8 c_3 -$   
 $408146688000 a_1^2 a_2^6 a_3^6 c_1 + 1836660096000 a_1^2 a_2^4 a_3^8 c_1 + 18895680000 a_1^6 a_2^2 a_3^5 c_3 + 5101833600 a_1^5 a_2^2 a_3^6 c_1 -$   
 $453496320000 a_1^4 a_2^4 a_3^5 c_3 - 153055008000 a_1^3 a_2^2 a_3^8 c_1 + 2720977920000 a_1^2 a_2^6 a_3^5 c_3 + 1020366720000 a_1^2 a_2^5 a_3^6 c_2 -$   
 $4591650240000 a_1^2 a_2^3 a_3^8 c_2) x^2 + (-1417176000 a_1^8 a_2^2 a_3^3 t^4 d_3 + 17006112000 a_1^6 a_2^4 a_3^3 t^4 d_3 - 28697814000 a_1^6 a_2 a_3^6 t^4 d_2 +$   
 $113374080000 a_1^4 a_2^6 a_3^3 t^4 d_3 - 3464208000 a_1^8 a_2^2 a_3^3 t^2 d_3 + 41570496000 a_1^6 a_2^4 a_3^3 t^2 d_3 - 70150212000 a_1^6 a_2 a_3^6 t^2 d_2 +$   
 $277136640000 a_1^4 a_2^6 a_3^3 t^2 d_3 + 2104506360000 a_1^4 a_2 a_3^8 t^2 d_2 - 3325639680000 a_1^2 a_2^8 a_3^3 t^2 d_3 - 2244806784000 a_1^2 a_2^6 a_3^8 t^2 d_1 +$   
 $10101630528000 a_1^2 a_2^4 a_3^8 t^2 d_1 - 1259712000 a_1^8 a_2^2 a_3^3 t d_3 + 15116544000 a_1^6 a_2^4 a_3^3 t d_3 - 25509168000 a_1^6 a_2 a_3^6 t d_2 +$   
 $100776960000 a_1^4 a_2^6 a_3^3 t d_3 + 765275040000 a_1^4 a_2 a_3^8 t d_2 - 1209323520000 a_1^2 a_2^8 a_3^3 t d_3 - 816293376000 a_1^2 a_2^6 a_3^8 t d_1 +$   
 $3673320192000 a_1^2 a_2^4 a_3^8 t d_1 + 860934420000 a_1^4 a_2 a_3^8 t^4 d_2 - 1360488960000 a_1^2 a_2^8 a_3^3 t^4 d_3 - 918330048000 a_1^2 a_2^6 a_3^8 t^4 d_1 +$   
 $4132485216000 a_1^2 a_2^5 a_3^6 t^4 d_1 - 3779136000 a_1^8 a_2^2 a_3^3 t^3 d_3 + 45349632000 a_1^6 a_2^4 a_3^3 t^3 d_3 - 76527504000 a_1^6 a_2 a_3^6 t^3 d_2 +$   
 $30233880000 a_1^4 a_2^6 a_3^3 t^3 d_3 + 2295825120000 a_1^4 a_2 a_3^8 t^3 d_2 - 3627970560000 a_1^2 a_2^8 a_3^3 t^3 d_3 - 2448880128000 a_1^2 a_2^6 a_3^8 t^3 d_1 +$   
 $11019960576000 a_1^2 a_2^4 a_3^8 t^3 d_1 - 918330048000 a_1^3 a_2^2 a_3^8 t^3 d_1 + 16325867520000 a_1^2 a_2^6 a_3^5 t^3 d_3 + 6122200320000 a_1^2 a_2^5 a_3^6 t^3 d_2 -$   
 $27549901440000 a_1^2 a_2^3 a_3^8 t^3 d_2 + 42515280000 a_1^6 a_2^2 a_3^5 t^4 d_3 + 114791256000 a_1^5 a_2^2 a_3^6 t^4 d_1 - 1020366720000 a_1^4 a_2^2 a_3^5 t^4 d_3 -$   
 $3443737680000 a_1^3 a_2^2 a_3^8 t^4 d_1 + 6122200320000 a_1^2 a_2^6 a_3^5 t^4 d_3 + 2295825120000 a_1^2 a_2^5 a_3^6 t^4 d_2 - 10331213040000 a_1^2 a_2^3 a_3^8 t^4 d_2 -$   
 $906992640000 a_1^2 a_2^4 a_3^5 t d_3 - 306110016000 a_1^3 a_2^2 a_3^8 t d_2 + 5441955840000 a_1^2 a_2^6 a_3^5 t d_3 + 2040733440000 a_1^2 a_2^5 a_3^6 t d_2 -$   
 $9183300480000 a_1^2 a_2^3 a_3^8 t d_2 + 103926240000 a_1^6 a_2^2 a_3^5 t^2 d_3 + 28060084800 a_1^5 a_2^2 a_3^6 t^2 d_1 - 2494229760000 a_1^4 a_2^4 a_3^5 t^2 d_3 -$   
 $841802544000 a_1^3 a_2^2 a_3^8 t^2 d_1 + 14965378560000 a_1^2 a_2^6 a_3^5 t^2 d_3 + 56112016960000 a_1^2 a_2^5 a_3^6 t^2 d_2 - 25254076320000 a_1^2 a_2^3 a_3^8 t^2 d_2 +$   
 $37791360000 a_1^6 a_2^2 a_3^5 t d_3 + 10203667200 a_1^5 a_2^2 a_3^6 t d_1 + 113374080000 a_1^6 a_2^4 a_3^3 t d_3 + 306110016000 a_1^5 a_2^2 a_3^6 t^3 d_1 -$   
 $2720977920000 a_1^4 a_2^4 a_3^5 t^3 d_3 - 15496819560 a_1^{10} a_2^2 a_3^6 t^8 + 929809173600 a_1^8 a_2^2 a_3^8 t^8 + 2479491129600 a_1^6 a_2^6 a_3^6 t^8 -$   
 $11157710083200 a_1^6 a_2^4 a_3^8 t^8 - 13947137604000 a_1^6 a_2^2 a_3^{10} t^8 - 74384733888000 a_1^4 a_2^6 a_3^8 t^8 + 334731302496000 a_1^4 a_2^4 a_3^{10} t^8 -$   
 $99179645184000 a_1^2 a_1^{10} a_3^6 t^8 + 892616806656000 a_1^2 a_2^8 a_3^8 t^8 - 2008387814976000 a_1^2 a_2^6 a_3^{10} t^8 - 37881114480 a_1^{10} a_2^2 a_3^6 t^7 +$   
 $2272866868800 a_1^8 a_2^2 a_3^8 t^7 + 6060978316800 a_1^6 a_2^6 a_3^6 t^7 - 27274402425600 a_1^6 a_2^4 a_3^8 t^7 - 34093003032000 a_1^6 a_2^2 a_3^{10} t^7 -$   
 $181829349504000 a_1^4 a_2^6 a_3^8 t^7 + 818232072768000 a_1^4 a_2^4 a_3^{10} t^7 - 242439132672000 a_1^2 a_2^{10} a_3^6 t^7 + 2181952194048000 a_1^2 a_2^8 a_3^8 t^7 -$   
 $4909392436608000 a_1^2 a_2^6 a_3^{10} t^7 - 48212327520 a_1^{10} a_2^2 a_3^6 t^6 + 2892739651200 a_1^8 a_2^2 a_3^8 t^6 + 7713972403200 a_1^8 a_2^2 a_3^6 t^6 -$   
 $34712875814400 a_1^6 a_2^4 a_3^8 t^6 - 43391094768000 a_1^6 a_2^2 a_3^{10} t^6 - 231419172096000 a_1^4 a_2^6 a_3^8 t^6 + 1041386274432000 a_1^4 a_2^4 a_3^{10} t^6 +$   
 $308558896128000 a_1^2 a_2^{10} a_3^6 t^6 + 2777030065152000 a_1^2 a_2^8 a_3^8 t^6 - 6248317646592000 a_1^2 a_2^6 a_3^{10} t^6 - 210928932900 a_1^{10} a_2^2 a_3^6 t^5 +$   
 $12655735974000 a_1^8 a_2^2 a_3^8 t^5 + 33748629264000 a_1^6 a_2^6 a_3^6 t^5 - 151868831688000 a_1^6 a_2^4 a_3^8 t^5 - 189836039610000 a_1^6 a_2^2 a_3^{10} t^5 -$   
 $1012458877920000 a_1^4 a_2^6 a_3^8 t^5 + 4556064950640000 a_1^4 a_2^4 a_3^{10} t^5 - 1349945170560000 a_1^2 a_2^{10} a_3^6 t^5 + 1214950635040000 a_1^2 a_2^8 a_3^8 t^5 -$   
 $27336389703840000 a_1^2 a_2^6 a_3^{10} t^5 - 3443737680000 a_1^{10} a_2^2 a_3^6 t^4 + 20662426080000 a_1^8 a_2^2 a_3^8 t^4 + 55099802880000 a_1^6 a_2^6 a_3^6 t^4 -$   
 $247949112960000 a_1^6 a_2^4 a_3^8 t^4 - 309936391200000 a_1^6 a_2^2 a_3^{10} t^4 - 1652994086400000 a_1^4 a_2^6 a_3^8 t^4 + 7438473388800000 a_1^4 a_2^4 a_3^{10} t^4 -$   
 $2203992115200000 a_1^2 a_2^{10} a_3^6 t^4 + 19835929036800000 a_1^2 a_2^8 a_3^8 t^4 - 44630840332800000 a_1^2 a_2^6 a_3^{10} t^4 - 223842949200 a_1^{10} a_2^2 a_3^6 t^3 +$   
 $13430576952000 a_1^8 a_2^2 a_3^8 t^3 + 35814871872000 a_1^6 a_2^6 a_3^6 t^3 - 161166923424000 a_1^6 a_2^4 a_3^8 t^3 - 201458654280000 a_1^6 a_2^2 a_3^{10} t^3 -$   
 $1074446156160000 a_1^4 a_2^6 a_3^8 t^3 + 4835007702720000 a_1^4 a_2^4 a_3^{10} t^3 - 1432594874880000 a_1^2 a_2^{10} a_3^6 t^3 + 12893353873920000 a_1^2 a_2^8 a_3^8 t^3 -$   
 $29010046216320000 a_1^2 a_2^6 a_3^{10} t^3 - 2582803260 a_1^{10} a_2^2 a_3^6 t^2 + 154968195600 a_1^8 a_2^2 a_3^8 t^2 + 413248521600 a_1^6 a_2^6 a_3^6 t^2 -$   
 $1859618347200 a_1^6 a_2^4 a_3^8 t^2 - 2324522934000 a_1^6 a_2^2 a_3^{10} t^2 - 12397455648000 a_1^4 a_2^6 a_3^8 t^2 + 55788550416000 a_1^4 a_2^4 a_3^{10} t^2 -$   
 $16529940864000 a_1^2 a_2^{10} a_3^6 t^2 + 148769467776000 a_1^2 a_2^8 a_3^8 t^2 - 334731302496000 a_1^2 a_2^6 a_3^{10} t^2 + 1417176000 a_1^8 a_2^2 a_3^3 t^4 c_3 -$   
 $17006112000 a_1^6 a_2^4 a_3^3 t^4 c_3 + 28697814000 a_1^6 a_2 a_3^6 t^4 c_2 - 113374080000 a_1^4 a_2^6 a_3^3 t^4 c_3 - 860934420000 a_1^4 a_2 a_3^8 t^4 c_2 +$   
 $1360488960000 a_1^2 a_2^8 a_3^3 t^4 c_3 + 9183300480000 a_1^2 a_2^6 a_3^8 t^4 c_1 - 4132485216000 a_1^2 a_2^5 a_3^6 t^4 c_3 - 3779136000 a_1^8 a_2^2 a_3^3 t^3 c_3 -$   
 $45349632000 a_1^6 a_2^4 a_3^3 t^3 c_3 + 765275040000 a_1^6 a_2 a_3^6 t^3 c_2 - 302330880000 a_1^4 a_2^6 a_3^3 t^3 c_3 - 2295825120000 a_1^4 a_2 a_3^8 t^3 c_2 +$   
 $3627970560000 a_1^2 a_2^8 a_3^3 t^3 c_3 + 2448880128000 a_1^2 a_2^6 a_3^8 t^3 c_1 + 11019960576000 a_1^2 a_2^4 a_3^8 t^3 c_1 + 3464208000 a_1^8 a_2^2 a_3^3 t^2 c_3 -$   
 $41570496000 a_1^6 a_2^4 a_3^3 t^2 c_3 + 70150212000 a_1^6 a_2 a_3^6 t^2 c_2 - 277136640000 a_1^4 a_2^6 a_3^3 t^2 c_3 - 2104506360000 a_1^4 a_2 a_3^8 t^2 c_2 +$   
 $3325639680000 a_1^2 a_2^8 a_3^3 t^2 c_3 + 2244806784000 a_1^2 a_2^6 a_3^8 t^2 c_1 - 10101630528000 a_1^2 a_2^4 a_3^8 t^2 c_1 + 1259712000 a_1^8 a_2^2 a_3^3 t c_3 -$   
 $15116544000 a_1^6 a_2^4 a_3^3 t c_3 + 25509168000 a_1^6 a_2 a_3^6 t c_2 - 100776960000 a_1^4 a_2^6 a_3^3 t c_3 - 765275040000 a_1^4 a_2 a_3^8 t c_2 +$   
 $1209323520000 a_1^2 a_2^8 a_3^3 t c_3 + 8162933760000 a_1^2 a_2^6 a_3^8 t c_1 - 36733201920000 a_1^2 a_2^4 a_3^8 t c_1 - 42515280000 a_1^6 a_2^2 a_3^5 t^4 c_3 -$   
 $11479125600 a_1^5 a_2^2 a_3^6 t^4 c_1 + 1020366720000 a_1^4 a_2^4 a_3^5 t^4 c_3 + 344373768000 a_1^3 a_2^2 a_3^8 t^4 c_1 - 6122200320000 a_1^2 a_2^6 a_3^5 t^4 c_3 -$   
 $2295825120000 a_1^2 a_2^5 a_3^6 t^4 c_2 + 10331213040000 a_1^2 a_2^3 a_3^8 t^4 c_2 - 113374080000 a_1^6 a_2^2 a_3^5 t^3 c_3 - 30611001600 a_1^5 a_2^2 a_3^6 t^3 c_1 +$   
 $2720977920000 a_1^4 a_2^4 a_3^5 t^3 c_3 + 918330048000 a_1^3 a_2^2 a_3^8 t^3 c_1 - 16325867520000 a_1^2 a_2^6 a_3^5 t^3 c_3 - 6122200320000 a_1^2 a_2^5 a_3^6 t^3 c_2 +$   
 $27549901440000 a_1^2 a_2^3 a_3^8 t^3 c_2 - 103926240000 a_1^6 a_2^2 a_3^5 t^2 c_2 - 28060084800 a_1^5 a_2^2 a_3^6 t^2 c_1 + 2494229760000 a_1^4 a_2^4 a_3^5 t^2 c_3 +$   
 $841802544000 a_1^3 a_2^2 a_3^8 t^2 c_1 - 14965378560000 a_1^2 a_2^6 a_3^5 t^2 c_3 - 56112016960000 a_1^2 a_2^5 a_3^6 t^2 c_2 + 25254076320000 a_1^2 a_2^3 a_3^8 t^2 c_2 -$   
 $37791360000 a_1^6 a_2^2 a_3^5 t c_3 - 10203667200 a_1^5 a_2^2 a_3^6 t c_1 + 906992640000 a_1^4 a_2^4 a_3^5 t c_3 + 306110016000 a_1^3 a_2^2 a_3^8 t c_1 -$   
 $5441955840000 a_1^2 a_2^6 a_3^5 t c_3 - 2040733440000 a_1^2 a_2^5 a_3^6 t c_2 + 9183300480000 a_1^2 a_2^3 a_3^8 t c_2) x + 829440000 a_1^2 a_2^6 a_3^2 +$   
 $2361960000 a_1^2 a_3^6 c_2 + 377913600 a_2^2 a_3^6 c_1 + 5760000 a_1^6 a_2^2 c_3 - 138240000 a_1^4 a_2^4 c_3 + 233280000 a_1^4 a_2^3 c_3 d_2 d_3 -$   
 $933120000 a_1^3 a_2^2 a_3^3 d_1 d_3 - 2799360000 a_1^2 a_2^3 a_3^3 d_3 d_2 + 1119744000 a_1^2 a_2^3 a_3^3 d_1 d_3 - 1889568000 a_1^2 a_2 a_3^6 d_1 d_2 +$   
 $944784000 a_1^8 a_2^2 a_3^3 t^4 d_3 - 11337408000 a_1^6 a_2^4 a_3^3 t^4 d_3 + 19131876000 a_1^6 a_2 a_3^6 t^4 d_2 - 75582720000 a_1^4 a_2^6 a_3^3 t^4 d_3 +$   
 $629856000 a_1^8 a_2^2 a_3^3 t^2 d_3 - 7558272000 a_1^6 a_2^4 a_3^3 t^2 d_3 + 12754584000 a_1^6 a_2 a_3^6 t^2 d_2 - 50388480000 a_1^4 a_2^6 a_3^3 t^2 d_3 -$   
 $382637520000 a_1^4 a_2 a_3^8 t^2 d_2 + 604661760000 a_1^2 a_2^8 a_3^3 t^2 d_3 + 408146688000 a_1^2 a_2^6 a_3^8 t^2 d_1 - 1836660096000 a_1^2 a_2^4 a_3^8 t^2 d_1 +$

$$\begin{aligned}
& 419904000 a_1^8 a_2^2 a_3^3 t d_3 - 5038848000 a_1^6 a_2^4 a_3^3 t d_3 + 8503056000 a_1^6 a_2 a_3^6 t d_2 - 33592320000 a_1^4 a_2^6 a_3^3 t d_3 - \\
& 255091680000 a_1^4 a_2 a_3^8 t d_2 + 403107840000 a_1^2 a_2^8 a_3^3 t d_3 + 272097792000 a_1 a_2^6 a_3^6 t d_1 + 283435200 a_1^8 a_2^2 a_3^3 t^5 d_3 - \\
& 34012224000 a_1^6 a_2^4 a_3^3 t^5 d_3 + 5739562800 a_1^6 a_2 a_3^6 t^5 d_2 - 22674816000 a_1^4 a_2^6 a_3^3 t^5 d_3 - 172186884000 a_1^4 a_2 a_3^8 t^5 d_2 + \\
& 272097792000 a_1^2 a_2^8 a_3^3 t^5 d_3 + 183666009600 a_1 a_2^6 a_3^6 t^5 d_1 - 826497043200 a_1 a_2^4 a_3^8 t^5 d_1 - 1224440064000 a_1 a_2^4 a_3^8 t d_1 - \\
& 573956280000 a_1^4 a_2 a_3^8 t^4 d_2 + 906992640000 a_1^2 a_2^8 a_3^3 t^4 d_3 + 612220032000 a_1 a_2^6 a_3^6 t^4 d_1 - 2754990144000 a_1 a_2^4 a_3^8 t^4 d_1 + \\
& 1154736000 a_1^8 a_2^2 a_3^3 t^3 d_3 - 13856832000 a_1^6 a_2^4 a_3^3 t^3 d_3 + 23383404000 a_1^6 a_2 a_3^6 t^3 d_2 - 92378880000 a_1^4 a_2^6 a_3^3 t^3 d_3 - \\
& 701502120000 a_1^4 a_2 a_3^8 t^3 d_2 + 1108546560000 a_1^2 a_2^8 a_3^3 t^3 d_3 + 748268928000 a_1 a_2^6 a_3^6 t^3 d_1 - 3367210176000 a_1 a_2^4 a_3^8 t^3 d_1 - \\
& 8503056000 a_1^6 a_2^2 a_3^5 t^5 d_3 - 2295825120 a_1^5 a_2^2 a_3^6 t^5 d_1 + 204073344000 a_1^4 a_2^4 a_3^5 t^5 d_3 + 68874753600 a_1^3 a_2^2 a_3^8 t^5 d_1 - \\
& 1224440064000 a_1^2 a_2^6 a_3^5 t^5 d_3 - 459165024000 a_1^2 a_2^5 a_3^6 t^5 d_2 + 2066242608000 a_1^2 a_2^3 a_3^8 t^5 d_2 + 280600848000 a_1^3 a_2^2 a_3^8 t^3 d_1 - \\
& 4988459520000 a_1^2 a_2^6 a_3^5 t^3 d_3 - 1870672320000 a_1^2 a_2^5 a_3^6 t^3 d_2 + 8418025440000 a_1^2 a_2^3 a_3^8 t^3 d_2 - 28343520000 a_1^6 a_2^2 a_3^5 t^4 d_3 - \\
& 7652750400 a_1^5 a_2^2 a_3^6 t^4 d_1 + 680244480000 a_1^4 a_2^4 a_3^5 t^4 d_3 + 229582512000 a_1^3 a_2^2 a_3^8 t^4 d_1 - 408146688000 a_1^2 a_2^6 a_3^5 t^4 d_3 - \\
& 153055008000 a_1^2 a_2^5 a_3^6 t^4 d_2 + 688747536000 a_1^2 a_2^3 a_3^8 t^4 d_2 + 30233088000 a_1^4 a_2^4 a_3^5 t^4 d_3 + 102036672000 a_1^3 a_2^2 a_3^8 t d_1 - \\
& 1813985280000 a_1^2 a_2^6 a_3^5 t d_3 - 680244480000 a_1^2 a_2^5 a_3^6 t d_2 + 3061100160000 a_1^2 a_2^3 a_3^8 t d_2 - 18895680000 a_1^6 a_2^2 a_3^5 t^2 d_3 - \\
& 5101833600 a_1^5 a_2^2 a_3^6 t^2 d_1 + 453496320000 a_1^4 a_2^4 a_3^5 t^2 d_3 + 153055008000 a_1^3 a_2^2 a_3^8 t^2 d_1 - 2720977920000 a_1^2 a_2^6 a_3^5 t^2 d_3 - \\
& 102066720000 a_1^2 a_2^5 a_3^6 t^2 d_2 + 4591650240000 a_1^2 a_2^3 a_3^8 t^2 d_2 - 12597120000 a_1^6 a_2^2 a_3^5 t d_3 - 34012224000 a_1^5 a_2^2 a_3^6 t d_1 - \\
& 34642080000 a_1^6 a_2^2 a_3^5 t^3 d_3 - 9353361600 a_1^5 a_2^2 a_3^6 t^3 d_1 + 831409920000 a_1^4 a_2^4 a_3^5 t^3 d_3 + 4735139310 a_1^10 a_2^2 a_3^6 t^8 - \\
& 284108358600 a_1^8 a_2^2 a_3^8 t^8 - 757622289600 a_1^6 a_2^6 a_3^6 t^8 + 3409300303200 a_1^6 a_2^4 a_3^8 t^8 + 4261625379000 a_1^6 a_2^2 a_3^8 t^8 + \\
& 22728668688000 a_1^4 a_2^6 a_3^8 t^8 - 102279009096000 a_1^4 a_2^4 a_3^10 t^8 + 30304891584000 a_1^2 a_2^10 a_3^6 t^8 - 272744024256000 a_1^2 a_2^8 a_3^8 t^8 + \\
& 613674054576000 a_1^2 a_2^6 a_3^10 t^8 + 6887475360 a_1^10 a_2^2 a_3^6 t^7 - 413248521600 a_1^8 a_2^2 a_3^8 t^7 - 1101996057600 a_1^6 a_2^6 a_3^6 t^7 + \\
& 4958982259200 a_1^6 a_2^4 a_3^8 t^7 + 6198727824000 a_1^6 a_2^2 a_3^10 t^7 + 33059881728000 a_1^4 a_2^6 a_3^8 t^7 - 148769467776000 a_1^4 a_2^4 a_3^10 t^7 + \\
& 44079842304000 a_1^2 a_2^10 a_3^6 t^7 - 396718580736000 a_1^2 a_2^8 a_3^8 t^7 + 892616806656000 a_1^2 a_2^6 a_3^10 t^7 + 490732619400 a_1^10 a_2^2 a_3^6 t^6 - \\
& 2944395716400 a_1^8 a_2^2 a_3^8 t^6 - 7851721910400 a_1^6 a_2^6 a_3^6 t^6 + 35332748596800 a_1^6 a_2^4 a_3^8 t^6 + 44165935746000 a_1^6 a_2^2 a_3^10 t^6 + \\
& 235551657312000 a_1^4 a_2^6 a_3^8 t^6 - 1059982457904000 a_1^4 a_2^4 a_3^10 t^6 + 314068876416000 a_1^2 a_2^10 a_3^6 t^6 - 2826619887744000 a_1^2 a_2^8 a_3^8 t^6 + \\
& 6359894747424000 a_1^2 a_2^6 a_3^10 t^6 + 1119214746000 a_1^10 a_2^2 a_3^6 t^5 - 6715288476000 a_1^8 a_2^2 a_3^8 t^5 - 17907435936000 a_1^6 a_2^6 a_3^6 t^5 + \\
& 80583461712000 a_1^6 a_2^4 a_3^8 t^5 + 100729327140000 a_1^6 a_2^2 a_3^10 t^5 + 537223078080000 a_1^4 a_2^6 a_3^8 t^5 - 2417503851360000 a_1^4 a_2^4 a_3^10 t^5 + \\
& 716297437432000 a_1^2 a_2^10 a_3^6 t^5 - 6446676936960000 a_1^2 a_2^8 a_3^8 t^5 + 14505023108160000 a_1^2 a_2^6 a_3^10 t^5 + 137749507200 a_1^10 a_2^2 a_3^6 t^4 - \\
& 82649704320000 a_1^8 a_2^2 a_3^8 t^4 - 22039921152000 a_1^6 a_2^6 a_3^10 t^4 + 99179645184000 a_1^6 a_2^4 a_3^8 t^4 + 123974556480000 a_1^6 a_2^2 a_3^10 t^4 + \\
& 661197634560000 a_1^4 a_2^6 a_3^8 t^4 - 2975389355520000 a_1^4 a_2^4 a_3^10 t^4 + 8811596846080000 a_1^2 a_2^10 a_3^6 t^4 - 7934371614720000 a_1^2 a_2^8 a_3^8 t^4 + \\
& 17852336133120000 a_1^2 a_2^6 a_3^10 t^4 + 34437376800 a_1^10 a_2^2 a_3^6 t^3 - 2066242608000 a_1^8 a_2^2 a_3^8 t^3 - 5509980288000 a_1^6 a_2^6 a_3^6 t^3 + \\
& 24794911296000 a_1^6 a_2^4 a_3^8 t^3 + 30993639120000 a_1^6 a_2^2 a_3^10 t^3 + 165299408640000 a_1^4 a_2^6 a_3^8 t^3 - 743847338880000 a_1^4 a_2^4 a_3^10 t^3 + \\
& 220399211520000 a_1^2 a_2^10 a_3^6 t^3 - 1983592903680000 a_1^2 a_2^8 a_3^8 t^3 + 4463084033280000 a_1^2 a_2^6 a_3^10 t^3 + 258280326 a_1^10 a_2^2 a_3^6 t^2 - \\
& 15496819560 a_1^8 a_2^2 a_3^8 t^2 - 41324852160 a_1^6 a_2^6 a_3^10 t^2 + 185961834720 a_1^6 a_2^4 a_3^8 t^2 + 232452293400 a_1^6 a_2^2 a_3^10 t^2 + \\
& 1239745564800 a_1^4 a_2^6 a_3^8 t^2 - 5578855041600 a_1^4 a_2^4 a_3^10 t^2 + 1652994086400 a_1^2 a_2^10 a_3^6 t^2 - 14876946777600 a_1^2 a_2^8 a_3^8 t^2 + \\
& 33473130249600 a_1^2 a_2^6 a_3^10 t^2 + 1721868840 a_1^10 a_2^2 a_3^6 t^1 - 103312130400 a_1^8 a_2^2 a_3^8 t^1 - 275499014400 a_1^6 a_2^6 a_3^6 t^1 + \\
& 1239745564800 a_1^6 a_2^4 a_3^8 t^1 + 1549681956000 a_1^6 a_2^2 a_3^10 t^1 + 8264970432000 a_1^4 a_2^6 a_3^8 t^1 - 37192366944000 a_1^4 a_2^4 a_3^10 t^1 + \\
& 11019960576000 a_1^2 a_2^10 a_3^6 t^1 - 99179645184000 a_1^2 a_2^8 a_3^8 t^1 + 223154201664000 a_1^2 a_2^6 a_3^10 t^1 + 5760000 a_1^6 a_2^2 a_3^2 - \\
& 138240000 a_1^4 a_2^4 d_3^2 + 829440000 a_1^2 a_2^6 d_3^2 + 2361960000 a_1^2 a_3^6 d_2^2 + 377913600 a_2^2 a_3^6 d_1^2 - 11520000 a_1^6 a_2^2 a_3^2 d_3 + \\
& 276480000 a_1^4 a_2^4 c_3 d_3 - 1658880000 a_1^2 a_2^6 c_3 d_3 - 4723920000 a_1^2 a_3^6 c_2 d_2 - 75827200 a_2^2 a_3^6 c_1 d_1 - 283435200 a_1^2 a_2^6 a_3^3 t^5 c_3 + \\
& 34012224000 a_1^6 a_2^4 a_3^3 t^5 c_3 - 5739562800 a_1^6 a_2 a_3^6 t^5 c_2 + 22674816000 a_1^4 a_2^6 a_3^3 t^5 c_3 + 172186884000 a_1^4 a_2 a_3^8 t^5 c_2 - \\
& 272097792000 a_1^2 a_2^8 a_3^3 t^5 c_3 - 183666009600 a_1 a_2^6 a_3^6 t^5 c_1 + 826497043200 a_1 a_2^4 a_3^8 t^5 c_1 - 944784000 a_1^8 a_2^2 a_3^3 t^4 c_3 + \\
& 11337408000 a_1^6 a_2^4 a_3^3 t^4 c_3 - 19131876000 a_1^6 a_2 a_3^6 t^4 c_2 + 75582720000 a_1^4 a_2^6 a_3^3 t^4 c_3 + 573956280000 a_1^4 a_2 a_3^8 t^4 c_2 - \\
& 906992640000 a_1^2 a_2^8 a_3^3 t^4 c_3 - 612220032000 a_1 a_2^6 a_3^6 t^4 c_1 + 2754990144000 a_1 a_2^4 a_3^8 t^4 c_1 - 1154736000 a_1^8 a_2^2 a_3^3 t^3 c_3 + \\
& 13856832000 a_1^6 a_2^4 a_3^3 t^3 c_3 - 23383404000 a_1^6 a_2 a_3^6 t^3 c_2 + 92378880000 a_1^4 a_2^6 a_3^3 t^3 c_3 + 701502120000 a_1^4 a_2 a_3^8 t^3 c_2 - \\
& 1108546560000 a_1^2 a_2^8 a_3^3 t^3 c_3 - 748268928000 a_1 a_2^6 a_3^6 t^3 c_1 + 3367210176000 a_1 a_2^4 a_3^8 t^3 c_1 - 629856000 a_1^8 a_2^2 a_3^3 t^2 c_3 + \\
& 7558272000 a_1^6 a_2^4 a_3^3 t^2 c_3 - 12754584000 a_1^6 a_2 a_3^6 t^2 c_2 + 50388480000 a_1^4 a_2^6 a_3^3 t^2 c_3 + 382637520000 a_1^4 a_2 a_3^8 t^2 c_2 - \\
& 604661760000 a_1^2 a_2^8 a_3^3 t^2 c_3 - 408146688000 a_1 a_2^6 a_3^6 t^2 c_1 + 1836660096000 a_1 a_2^4 a_3^8 t^2 c_1 - 419904000 a_1^8 a_2^2 a_3^3 t c_3 + \\
& 5038848000 a_1^6 a_2^4 a_3^3 t c_3 - 8503056000 a_1^6 a_2 a_3^6 t c_2 + 33592320000 a_1^4 a_2^6 a_3^3 t c_3 + 255091680000 a_1^4 a_2 a_3^8 t c_2 - \\
& 403107840000 a_1^2 a_2^8 a_3^3 t c_3 - 272097792000 a_1 a_2^6 a_3^6 t c_1 + 1224440064000 a_1 a_2^4 a_3^8 t c_1 + 8503056000 a_1^6 a_2^2 a_3^5 t^5 c_3 + \\
& 2295825120 a_1^5 a_2^2 a_3^6 t^5 c_1 - 204073344000 a_1^4 a_2^4 a_3^5 t^5 c_3 - 68874753600 a_1^3 a_2^2 a_3^8 t^5 c_1 + 1224440064000 a_1^2 a_2^6 a_3^5 t^5 c_3 + \\
& 459165024000 a_1^2 a_2^5 a_3^6 t^5 c_2 - 2066242608000 a_1^2 a_2^3 a_3^8 t^5 c_2 + 28343520000 a_1^6 a_2^2 a_3^5 t^4 c_3 + 7652750400 a_1^5 a_2^2 a_3^6 t^4 c_1 - \\
& 680244480000 a_1^4 a_2^4 a_3^5 t^4 c_3 - 229582512000 a_1^3 a_2^2 a_3^8 t^4 c_1 + 4081466880000 a_1^2 a_2^6 a_3^5 t^4 c_3 + 1530550080000 a_1^2 a_2^5 a_3^6 t^4 c_2 - \\
& 6887475360000 a_1^2 a_2^3 a_3^8 t^4 c_2 + 34642080000 a_1^6 a_2^2 a_3^5 t^3 c_3 + 9353361600 a_1^5 a_2^2 a_3^6 t^3 c_1 - 831409920000 a_1^4 a_2^4 a_3^5 t^3 c_3 - \\
& 280600848000 a_1^3 a_2^2 a_3^8 t^3 c_1 + 4988459520000 a_1^2 a_2^6 a_3^5 t^3 c_3 + 1870672320000 a_1^2 a_2^5 a_3^6 t^3 c_2 - 8418025440000 a_1^2 a_2^3 a_3^8 t^3 c_2 + \\
& 1889568000 a_1^6 a_2^2 a_3^5 t^2 c_3 + 5101833600 a_1^5 a_2^2 a_3^6 t^2 c_1 - 453496320000 a_1^4 a_2^4 a_3^5 t^2 c_3 - 153055008000 a_1^3 a_2^2 a_3^8 t^2 c_1 + \\
& 2720977920000 a_1^2 a_2^6 a_3^5 t^2 c_3 + 1020366720000 a_1^2 a_2^5 a_3^6 t^2 c_2 - 4591650240000 a_1^2 a_2^3 a_3^8 t^2 c_2 + 12597120000 a_1^6 a_2^2 a_3^5 t c_3 + \\
& 3401222400 a_1^5 a_2^2 a_3^6 t c_1 - 302330880000 a_1^4 a_2^4 a_3^5 t c_3 - 102036672000 a_1^3 a_2^2 a_3^8 t c_1 + 1813985280000 a_1^2 a_2^6 a_3^5 t c_3 + \\
& 680244480000 a_1^2 a_2^5 a_3^6 t c_2 - 3061100160000 a_1^2 a_2^3 a_3^8 t c_2 + 233280000 a_1^4 a_2 a_3^3 t c_3 - 233280000 a_1^4 a_2 a_3^3 t c_3 - \\
& 233280000 a_1^4 a_2 a_3^3 t c_3 - 93312000 a_1^3 a_2^2 a_3^3 t c_1 c_3 + 93312000 a_1^3 a_2^2 a_3^3 t c_1 d_3 + 93312000 a_1^3 a_2^2 a_3^3 t c_3 d_1 - \\
& 2799360000 a_1^2 a_2^3 a_3^3 t c_2 c_3 + 2799360000 a_1^2 a_2^3 a_3^3 t c_2 d_3 + 2799360000 a_1^2 a_2^3 a_3^3 t c_3 d_2 + 1119744000 a_1^2 a_2^4 a_3^3 t c_1 c_3 - \\
& 1119744000 a_1^2 a_2^4 a_3^3 t c_1 d_3 - 1119744000 a_1^2 a_2^4 a_3^3 t c_3 d_1 - 1889568000 a_1 a_2 a_3^6 t c_1 c_2 + 1889568000 a_1 a_2 a_3^6 t c_1 d_2 + \\
& 1889568000 a_1 a_2 a_3^6 t c_2 d_1 \\
& d(x, t) = (6561 a_1^5 a_2 a_3^3 - 196830 a_1^3 a_2 a_3^5 - 524880 a_1 a_2^5 a_3^3 + 2361960 a_1 a_2^3 a_3^5) x^6 + (-39366 t a_1^5 a_2 a_3^3 + \\
& 1180980 t a_1^3 a_2 a_3^5 + 3149280 t a_1 a_2^5 a_3^3 - 14171760 t a_1 a_2^3 a_3^5 - 26244 a_1^5 a_2 a_3^3 + 787320 a_1^3 a_2 a_3^5 + 2099520 a_1 a_2^5 a_3^3 - \\
& 9447840 a_1 a_2^3 a_3^5) x^5 + (98415 t^2 a_1^5 a_2 a_3^3 - 2952450 t^2 a_1^3 a_2 a_3^5 - 7873200 t^2 a_1 a_2^5 a_3^3 + 35429400 t^2 a_1 a_2^3 a_3^5 + \\
& 131220 t a_1^5 a_2 a_3^3 - 3936600 t a_1^3 a_2 a_3^5 - 10497600 t a_1 a_2^5 a_3^3 + 47239200 t a_1 a_2^3 a_3^5 + 32805 a_1^5 a_2 a_3^3 - 984150 a_1^3 a_2 a_3^5 - \\
& 2624400 a_1 a_2^5 a_3^3 + 11809800 a_1 a_2^3 a_3^5) x^4 + (-131220 t^3 a_1^5 a_2 a_3^3 + 3936600 t^3 a_1^3 a_2 a_3^5 + 10497600 t^3 a_1 a_2^5 a_3^3 - \\
& 47239200 t^3 a_1 a_2^3 a_3^5 - 262440 t^2 a_1^5 a_2 a_3^3 + 7873200 t^2 a_1^3 a_2 a_3^5 + 20995200 t^2 a_1 a_2^5 a_3^3 - 94478400 t^2 a_1 a_2^3 a_3^5 - \\
& 196830 t a_1^5 a_2 a_3^3 + 5904900 t a_1^3 a_2 a_3^5 + 15746400 t a_1 a_2^5 a_3^3 - 70858800 t a_1 a_2^3 a_3^5) x^3 + (98415 t^4 a_1^5 a_2 a_3^3 - \\
& 2952450 t^4 a_1^3 a_2 a_3^5 - 7873200 t^4 a_1 a_2^5 a_3^3 + 35429400 t^4 a_1 a_2^3 a_3^5 + 262440 t^3 a_1^5 a_2 a_3^3 - 7873200 t^3 a_1^3 a_2 a_3^5 - \\
& 20995200 t^3 a_1 a_2^5 a_3^3 + 94478400 t^3 a_1 a_2^3 a_3^5 + 393660 t^2 a_1^5 a_2 a_3^3 - 11809800 t^2 a_1^3 a_2 a_3^5 - 31492800 t^2 a_1 a_2^5 a_3^3 +
\end{aligned}$$

$$\begin{aligned}
& 141717600 t^2 a_1 a_2^3 a_3^5 + 131220 t a_1^5 a_2 a_3^3 - 3936600 t a_1^3 a_2 a_3^5 - 10497600 t a_1 a_2^5 a_3^3 + 47239200 t a_1 a_2^3 a_3^5 x^2 + \\
& (-39366 t^5 a_1^5 a_2 a_3^3 + 1180980 t^5 a_1^3 a_2 a_3^5 + 3149280 t^5 a_1 a_2^5 a_3^3 - 14171760 t^5 a_1 a_2^3 a_3^5 - 131220 t^4 a_1^5 a_2 a_3^3 + \\
& 3936600 t^4 a_1^3 a_2 a_3^5 + 10497600 t^4 a_1 a_2^5 a_3^3 - 47239200 t^4 a_1 a_2^3 a_3^5 - 328050 t^3 a_1^5 a_2 a_3^3 + 9841500 t^3 a_1^3 a_2 a_3^5 + \\
& 26244000 t^3 a_1 a_2^5 a_3^3 - 118098000 t^3 a_1 a_2^3 a_3^5 - 262440 t^2 a_1^5 a_2 a_3^3 + 7873200 t^2 a_1^3 a_2 a_3^5 + 20995200 t^2 a_1 a_2^5 a_3^3 - \\
& 94478400 t^2 a_1 a_2^3 a_3^5 - 2400 a_1^3 a_2 c_3 + 2400 a_1^3 a_2 d_3 + 28800 a_1 a_2^3 c_3 - 28800 a_1 a_2^3 d_3 - 48600 a_1 a_3^3 c_2 + \\
& 48600 a_1 a_3^3 d_2 + 19440 a_2 a_3^3 c_1 - 19440 a_2 a_3^3 d_1 - 524880 t^6 a_1 a_2^5 a_3^3 + 2361960 t^6 a_1 a_2^3 a_3^5 - 19200 a_1 a_2^3 c_3 + \\
& 19200 a_1 a_2^3 d_3 + 32400 a_1 a_3^3 c_2 - 32400 a_1 a_3^3 d_2 - 12960 a_2 a_3^3 c_1 + 12960 a_2 a_3^3 d_1 + 48600 t a_1 a_3^3 c_2 - 48600 t a_1 a_3^3 d_2 - \\
& 19440 t a_2 a_3^3 c_1 + 19440 t a_2 a_3^3 d_1 - 131220 t^2 a_1^5 a_2 a_3^3 + 3936600 t^2 a_1^3 a_2 a_3^5 + 131220 t^3 a_1^5 a_2 a_3^3 - 3936600 t^3 a_1^3 a_2 a_3^5 - \\
& 10497600 t^3 a_1 a_2^5 a_3^3 + 2400 t a_1^3 a_2 c_3 - 2400 t a_1^3 a_2 d_3 - 28800 t a_1 a_2^3 c_3 + 28800 t a_1 a_2^3 d_3 + 9447840 t^5 a_1 a_2^3 a_3^5 + \\
& 98415 t^4 a_1^5 a_2 a_3^3 - 2952450 t^4 a_1^3 a_2 a_3^5 - 7873200 t^4 a_1 a_2^5 a_3^3 + 35429400 t^4 a_1 a_2^3 a_3^5 + 1600 a_1^3 a_2 c_3 - 1600 a_1^3 a_2 d_3 + \\
& 10497600 t^2 a_1 a_2^5 a_3^3 - 47239200 t^2 a_1 a_2^3 a_3^5 + 47239200 t^3 a_1 a_2^3 a_3^5 + 26244 t^5 a_1^5 a_2 a_3^3 - 787320 t^5 a_1^3 a_2 a_3^5 - \\
& 2099520 t^5 a_1 a_2^5 a_3^3 + 6561 t^6 a_1^5 a_2 a_3^3 - 196830 t^6 a_1^3 a_2 a_3^5
\end{aligned}$$

### Rational solution to the KP equation of order 3

The function  $v$  defined by

$$v(X, Y, T) = -2 \frac{n(X, Y, T)}{d(X, Y, T)^2}, \quad (17)$$

is a solution of order 4 to the KP equation with

$$\begin{aligned}
n(X, Y, T) = & (-3119921868853739520 a_1^6 a_2^4 a_3^8 - 3899902336067174400 a_1^6 a_2^2 a_3^{10} - 20799479125691596800 a_1^4 a_2^6 a_3^8 + \\
& 93597656065612185600 a_1^4 a_2^4 a_3^{10} - 4333224817852416 a_1^{10} a_2^2 a_3^6 - 27732638834255462400 a_1^2 a_2^{10} a_3^6 + 259993489071144960 a_1^8 a_2^2 a_3^8 + \\
& 249593749508299161600 a_1^2 a_2^8 a_3^8 + 693315970856386560 a_1^6 a_2^6 a_3^6 - 561585936393673113600 a_1^2 a_2^6 a_3^{10} X^{10} + \\
& (-138663194171277312000 i a_1^4 a_2^6 a_3^8 + 623984373770747904000 i a_1^4 a_2^4 a_3^{10} - 184884258895036416000 i a_1^2 a_2^{10} a_3^6 + \\
& 1663958330055327744000 i a_1^2 a_2^8 a_3^8 - 3743906242624487424000 i a_1^2 a_2^6 a_3^{10} - 28888165452349440 i a_1^{10} a_2^2 a_3^6 + \\
& 1733289927140966400 i a_1^8 a_2^2 a_3^8 + 4622106472375910400 i a_1^6 a_2^6 a_3^6 - 20799479125691596800 i a_1^6 a_2^4 a_3^8 - 25999348907114496000 i a_1^6 a_2^2 a_3^{10} - \\
& 155996093442686976000 a_1^4 a_2^6 a_3^8 T + 701982420492091392000 a_1^4 a_2^4 a_3^{10} T - 207994791256915968000 a_1^4 a_2^2 a_3^8 T + \\
& 1871953121312243712000 a_1^2 a_2^8 a_3^8 T - 29249267520503808000 a_1^6 a_2^2 a_3^{10} T - 32499186133893120 a_1^{10} a_2^2 a_3^6 T + \\
& 1949951168033587200 a_1^8 a_2^2 a_3^8 T + 5199869781422899200 a_1^6 a_2^6 a_3^6 T - 23399414016403046400 a_1^6 a_2^4 a_3^8 T - \\
& 2599934890711449600 a_1^8 a_2^2 a_3^8 Y - 6933159708563865600 a_1^6 a_2^6 a_3^6 Y + 31199218688537395200 a_1^6 a_2^4 a_3^8 Y + \\
& 38999023360671744000 a_1^6 a_2^2 a_3^{10} Y + 207994791256915968000 a_1^4 a_2^6 a_3^8 Y - 2495937495082991616000 a_1^2 a_2^8 a_3^8 Y + \\
& 561585936396731136000 a_1^2 a_2^6 a_3^{10} Y + 277326388342554624000 a_1^2 a_2^{10} a_3^6 Y - 935976560656121856000 a_1^4 a_2^4 a_3^8 Y - \\
& 4211894522952548352000 a_1^2 a_2^6 a_3^{10} T + 43332248178524160 a_1^{10} a_2^2 a_3^6 Y X^9 + (79442454993960960 a_1^{10} a_2^2 a_3^6 - \\
& 4766547299637657600 a_1^8 a_2^2 a_3^8 - 12710792799033753600 a_1^6 a_2^6 a_3^6 + 57198567595651891200 a_1^6 a_2^4 a_3^8 + 7149820949564864000 a_1^6 a_2^2 a_3^{10} + \\
& 381323783971012608000 a_1^4 a_2^6 a_3^8 - 171595702786956736000 a_1^4 a_2^4 a_3^{10} + 508431711961350144000 a_1^2 a_2^{10} a_3^6 - \\
& 4575885407652151296000 a_1^2 a_2^8 a_3^8 + 10295742167217340416000 a_1^2 a_2^6 a_3^{10} + 31199218688537395200 a_1^6 a_2^6 a_3^6 Y^2 - \\
& 140396484098418278400 a_1^6 a_2^4 a_3^8 Y^2 - 194995116803358720 a_1^{10} a_2^2 a_3^6 Y^2 + 11699707008201523200 a_1^8 a_2^2 a_3^8 Y^2 - \\
& 175495605123022848000 a_1^6 a_2^2 a_3^{10} Y^2 - 935976560656121856000 a_1^4 a_2^6 a_3^8 Y^2 + 4211894522952548352000 a_1^4 a_2^4 a_3^{10} Y^2 - \\
& 1247968747541495808000 a_1^2 a_2^{10} a_3^6 Y^2 + 11231718727873462272000 a_1^2 a_2^8 a_3^8 Y^2 - 25271367137715290112000 a_1^2 a_2^6 a_3^{10} Y^2 + \\
& 11699707008201523200 i a_1^8 a_2^2 a_3^8 T + 31199218688537395200 i a_1^6 a_2^6 a_3^6 T - 140396484098418278400 i a_1^6 a_2^4 a_3^8 T - \\
& 175495605123022848000 i a_1^6 a_2^2 a_3^{10} T - 5615859363936731136000 i a_1^4 a_2^6 a_3^8 T + 1663958330055327744000 i a_1^2 a_2^{10} a_3^6 Y - \\
& 14975624970497949696000 i a_1^2 a_2^8 a_3^8 Y + 233994140164030464000 i a_1^6 a_2^2 a_3^{10} Y + 1247968747541495808000 i a_1^4 a_2^6 a_3^8 Y + \\
& 259993489071144960 i a_1^{10} a_2^2 a_3^6 Y - 15599609344268697600 i a_1^8 a_2^2 a_3^8 Y - 41598958251383193600 i a_1^6 a_2^6 a_3^6 Y + \\
& 187195312131224371200 i a_1^6 a_2^4 a_3^8 Y + 33695156183620386816000 i a_1^2 a_2^6 a_3^{10} Y + 4211894522952548352000 i a_1^2 a_2^4 a_3^{10} T - \\
& 935976560656121856000 i a_1^4 a_2^6 a_3^8 T - 1247968747541495808000 i a_1^2 a_2^{10} a_3^6 T + 11231718727873462272000 i a_1^2 a_2^8 a_3^8 T - \\
& 25271367137715290112000 i a_1^2 a_2^6 a_3^{10} T - 194995116803358720 i a_1^{10} a_2^2 a_3^6 T - 98716277881700352000 a_1^6 a_2^2 a_3^{10} T^2 - \\
& 526486815369068544000 a_1^4 a_2^6 a_3^8 T^2 + 2369190669160808448000 a_1^4 a_2^4 a_3^{10} T^2 - 701982420492091392000 a_1^2 a_2^{10} a_3^6 T^2 + \\
& 6317841784428822528000 a_1^2 a_2^8 a_3^8 T^2 - 109684753201889280 a_1^{10} a_2^2 a_3^6 T^2 + 6581085192113356800 a_1^8 a_2^2 a_3^8 T^2 + \\
& 17549560512302284800 a_1^6 a_2^6 a_3^6 T^2 - 78973022305360281600 a_1^6 a_2^4 a_3^8 T^2 - 14215144014964850688000 a_1^2 a_2^6 a_3^{10} T^2 + \\
& 292492675205038080 a_1^{10} a_2^2 a_3^6 Y T - 17549560512302284800 a_1^8 a_2^2 a_3^8 Y T - 46798828032806092800 a_1^6 a_2^6 a_3^6 Y T + \\
& 210594726147627417600 a_1^6 a_2^4 a_3^8 Y T + 263243407684534272000 a_1^6 a_2^2 a_3^{10} Y T + 1403964840984182784000 a_1^4 a_2^6 a_3^8 Y T + \\
& 1871953121312243712000 a_1^2 a_2^{10} a_3^6 Y T - 16847578091810193408000 a_1^2 a_2^8 a_3^8 Y T + 37907050706572935168000 a_1^2 a_2^6 a_3^{10} Y T - \\
& 6317841784428822528000 a_1^4 a_2^4 a_3^{10} Y T X^8 + (519986978142289920 a_1^{10} a_2^2 a_3^6 Y^3 - 31199218688537395200 a_1^8 a_2^2 a_3^8 Y^3 - \\
& 83197916502766387200 a_1^6 a_2^6 a_3^6 Y^3 + 3743906242624487424000 a_1^6 a_2^4 a_3^8 Y^3 + 467988280328060928000 a_1^6 a_2^2 a_3^{10} Y^3 + \\
& 2495937495082991616000 a_1^4 a_2^6 a_3^8 Y^3 - 11231718727873462272000 a_1^4 a_2^4 a_3^{10} Y^3 + 3327916660110655488000 a_1^2 a_2^{10} a_3^6 Y^3 - \\
& 29951249940995899392000 a_1^2 a_2^8 a_3^8 Y^3 + 67390312367240773632000 a_1^2 a_2^6 a_3^{10} Y^3 - 33695156183620386816000 i a_1^4 a_2^4 a_3^{10} Y T + \\
& 9983749980331966464000 i a_1^2 a_2^{10} a_3^6 Y T - 89853749822987698176000 i a_1^2 a_2^8 a_3^8 Y T + 202170937101722320896000 i a_1^2 a_2^6 a_3^{10} Y T + \\
& 1559960934426869760 i a_1^{10} a_2^2 a_3^6 Y T - 93597656065612185600 i a_1^8 a_2^2 a_3^8 Y T - 2495937495082991616000 i a_1^6 a_2^6 a_3^6 Y T + \\
& 11231718727873462272000 i a_1^6 a_2^4 a_3^8 Y T + 1403964840984182784000 i a_1^6 a_2^2 a_3^{10} Y T + 7487812485248974848000 i a_1^4 a_2^6 a_3^8 Y T + \\
& 12635683568857645056000 i a_1^4 a_2^4 a_3^{10} T^2 - 2807929681968365568000 i a_1^4 a_2^2 a_3^8 T^2 - 935976560656121856000 i a_1^2 a_2^6 a_3^{10} Y^2 - \\
& 3743906242624487424000 i a_1^2 a_2^{10} a_3^6 T^2 + 33695156183620386816000 i a_1^2 a_2^8 a_3^8 T^2 - 75814101413145870336000 i a_1^2 a_2^6 a_3^{10} T^2 - \\
& 584983530410076160 i a_1^{10} a_2^2 a_3^6 T^2 + 35099121024604569600 i a_1^8 a_2^2 a_3^8 T^2 + 93597656065612185600 i a_1^6 a_2^6 a_3^6 T^2 - \\
& 421189452295254835200 i a_1^6 a_2^4 a_3^8 T^2 - 1039973956284579840 i a_1^{10} a_2^2 a_3^6 Y^2 + 6239843737074790400 i a_1^8 a_2^2 a_3^8 Y^2 + \\
& 166395833005532774400 i a_1^6 a_2^6 a_3^6 Y^2 - 748781248524897484800 i a_1^6 a_2^4 a_3^8 Y^2 - 4991874990165983232000 i a_1^4 a_2^6 a_3^8 Y^2 - \\
& 526486815369068544000 i a_1^6 a_2^2 a_3^{10} T^2 + 22463437455746924544000 i a_1^4 a_2^4 a_3^{10} Y^2 - 6655833320221310976000 i a_1^2 a_2^{10} a_3^6 Y^2 + \\
& 59902499881991798784000 i a_1^2 a_2^8 a_3^8 Y^2 - 134780624734481547264000 i a_1^2 a_2^6 a_3^{10} Y^2 + 554652776685109248000 i a_1^4 a_2^6 a_3^8 - \\
& 2495937495082991616000 i a_1^4 a_2^4 a_3^{10} + 739537035580145664000 i a_1^2 a_2^{10} a_3^6 - 6655833320221310976000 i a_1^2 a_2^8 a_3^8 + \\
& 14975624970497949696000 i a_1^2 a_2^6 a_3^{10} + 115552661809397760 i a_1^{10} a_2^2 a_3^6 - 6933159708563865600 i a_1^8 a_2^2 a_3^8 - \\
& 18488425889503641600 i a_1^6 a_2^6 a_3^6 + 83197916502766387200 i a_1^6 a_2^4 a_3^8 + 103997395628457984000 i a_1^6 a_2^2 a_3^{10}
\end{aligned}$$

19743255763400704000  $a_1^6 a_2^2 a_3^{10} T^3 + 2287942703826075648000 a_1^4 a_2^6 a_3^8 T - 1052973630738137088000 a_1^4 a_2^6 a_3^8 T^3 -$   
10295742167217340416000  $a_1^4 a_2^4 a_3^{10} T + 4738381338321616896000 a_1^4 a_2^4 a_3^{10} T^3 + 3050590271768100864000 a_1^2 a_2^{10} a_3^6 T -$   
140396440984182784000  $a_1^2 a_2^{10} a_3^6 T^3 - 27455312445912907776000 a_1^2 a_2^8 a_3^8 T + 12635683568857645056000 a_1^2 a_2^8 a_3^8 T^3 -$   
157946044610720563200  $a_1^6 a_2^4 a_3^8 T^3 + 428989256967389184000 a_1^6 a_2^2 a_3^{10} T + 476654729963765760 a_1^6 a_2^2 a_3^{10} T^3 -$   
219369506403778560  $a_1^{10} a_2^2 a_3^6 T^3 - 28599283797825945600 a_1^8 a_2^2 a_3^8 T + 13162170384226713600 a_1^8 a_2^2 a_3^8 T^3 -$   
76264756794202521600  $a_1^6 a_2^6 a_3^6 T + 35099121024604569600 a_1^6 a_2^6 a_3^6 T^3 + 343191405573911347200 a_1^6 a_2^4 a_3^8 T +$   
38132378397101260800  $a_1^8 a_2^2 a_3^8 T + 101686342392270028800 a_1^6 a_2^6 a_3^6 T - 457588540765215129600 a_1^6 a_2^4 a_3^8 T -$   
571985675956518912000  $a_1^6 a_2^2 a_3^{10} T - 3050590271768100864000 a_1^4 a_2^6 a_3^8 T + 36607083261217210368000 a_1^2 a_2^8 a_3^8 T -$   
82365937337738723328000  $a_1^2 a_2^6 a_3^{10} T - 406745369569081152000 a_1^2 a_2^{10} a_3^6 T + 13727656222956453888000 a_1^4 a_2^4 a_3^{10} T +$   
6177453003304042496000  $a_1^2 a_2^6 a_3^{10} T - 28430288029929701376000 a_1^2 a_2^6 a_3^{10} T^3 - 635539639951687680 a_1^{10} a_2^2 a_3^6 T -$   
1169970700820152320  $a_1^{10} a_2^2 a_3^6 T^2 + 70198242049209139200 a_1^8 a_2^2 a_3^8 T^2 + 187195312131224371200 a_1^6 a_2^6 a_3^6 T^2 -$   
842378904590509670400  $a_1^6 a_2^4 a_3^8 T^2 - 1052973630738137088000 a_1^4 a_2^6 a_3^8 T^2 - 5615859363936731136000 a_1^4 a_2^6 a_3^8 T^2 +$   
25271367137715290112000  $a_1^4 a_2^4 a_3^{10} T^2 - 7487812485248974848000 a_1^2 a_2^{10} a_3^6 T^2 + 67390312367240773632000 a_1^2 a_2^8 a_3^8 T^2 -$   
15162820826291740672000  $a_1^2 a_2^6 a_3^{10} T^2 + 877478025615114240 a_1^{10} a_2^2 a_3^6 T^2 - 52648681536906854400 a_1^8 a_2^2 a_3^8 T^2 -$   
4333224817852416000  $a_1^8 a_2^2 a_3^8 T^2 + 11555266180939776000 a_1^6 a_2^4 a_3^8 T^2 + 789730223053602816000 a_1^6 a_2^2 a_3^{10} T^2 +$   
4211894522952548352000  $a_1^4 a_2^6 a_3^8 T^2 + 5615859363936731136000 a_1^2 a_2^{10} a_3^6 T^2 - 50542734275430580224000 a_1^2 a_2^8 a_3^8 T^2 +$   
113721152119718805504000  $a_1^2 a_2^6 a_3^{10} T^2 - 18953525353286467584000 a_1^4 a_2^4 a_3^{10} T^2 X^7 + (-72220413630873600 a_1^{10} a_2^2 a_3^6 +$   
4333224817852416000  $a_1^8 a_2^2 a_3^8 + 11555266180939776000 a_1^6 a_2^4 a_3^8 + 51998697814228992000 a_1^6 a_2^2 a_3^{10} - 64998372267786240000 a_1^6 a_2^2 a_3^{10} -$   
34665798542819328000  $a_1^4 a_2^6 a_3^8 + 155996093442686976000 a_1^4 a_2^4 a_3^{10} - 462210647237591040000 a_1^2 a_2^{10} a_3^6 +$   
4159895825138319360000  $a_1^2 a_2^8 a_3^8 - 9359765606561218560000 a_1^2 a_2^6 a_3^{10} - 58966523321335676928000 a_1^4 a_2^4 a_3^{10} Y^3 T +$   
17471562465580941312000  $a_1^2 a_2^{10} a_3^6 Y^3 T - 157244062190228471808000 a_1^2 a_2^8 a_3^8 Y^3 T + 353799139928014061568000 a_1^2 a_2^6 a_3^{10} Y^3 T +$   
2729931635247022080  $a_1^{10} a_2^2 a_3^6 Y^3 T - 163795898114821324800 a_1^8 a_2^2 a_3^8 Y^3 T - 436789061639523532800 a_1^6 a_2^6 a_3^6 Y^3 T +$   
1965550773777855897600  $a_1^6 a_2^4 a_3^8 Y^3 T + 2456938471722319872000 a_1^6 a_2^2 a_3^{10} Y^3 T + 13103671849185705984000 a_1^4 a_2^6 a_3^8 Y^3 T -$   
3071173089652899840  $a_1^{10} a_2^2 a_3^6 Y^2 T^2 + 184270385379173990400 a_1^8 a_2^2 a_3^8 Y^2 T^2 + 49138769434463974400 a_1^6 a_2^6 a_3^6 Y^2 T^2 -$   
2211244624550087884800  $a_1^6 a_2^4 a_3^8 Y^2 T^2 - 2764055780687609856000 a_1^6 a_2^2 a_3^{10} Y^2 T^2 - 1474163083033919232000 a_1^4 a_2^6 a_3^8 Y^2 T^2 +$   
66337338736012636544000  $a_1^4 a_2^4 a_3^{10} Y^2 T^2 - 1965507773778558976000 a_1^4 a_2^2 a_3^{10} Y^2 T^2 + 1678959696964007030784000 a_1^2 a_2^8 a_3^8 Y^2 T^2 -$   
3980240324190215819264000  $a_1^2 a_2^6 a_3^{10} Y^2 T^2 - 35902198372945100800 a_1^6 a_2^6 a_3^6 Y^2 T^2 + 1601559892678252953600 a_1^6 a_2^4 a_3^8 Y^2 T^2 +$   
2224388739830906880  $a_1^{10} a_2^2 a_3^6 Y^2 T^2 - 13346332438985412800 a_1^8 a_2^2 a_3^8 Y^2 T^2 + 2001949865847816192000 a_1^6 a_2^2 a_3^{10} Y^2 T^2 +$   
10677065951188353024000  $a_1^4 a_2^6 a_3^8 Y^2 T^2 - 48046796780347588608000 a_1^4 a_2^4 a_3^{10} Y^2 T^2 + 14236087934917804032000 a_1^2 a_2^{10} a_3^6 Y^2 T^2 -$   
128124791414260236288000  $a_1^2 a_2^8 a_3^8 Y^2 T^2 + 288280780682085531648000 a_1^2 a_2^6 a_3^{10} Y^2 T^2 - 909977211749007360 a_1^{10} a_2^2 a_3^6 Y^4 +$   
54598632704940416000  $a_1^8 a_2^2 a_3^8 Y^4 + 145596353879841177600 a_1^6 a_2^6 a_3^6 Y^4 - 655183592459285299200 a_1^6 a_2^4 a_3^8 Y^4 -$   
818979490574106624000  $a_1^6 a_2^2 a_3^{10} Y^4 - 4367890616395235328000 a_1^4 a_2^6 a_3^8 Y^4 + 1965550773778558976000 a_1^4 a_2^4 a_3^{10} Y^4 -$   
5823854155193647104000  $a_1^2 a_2^{10} a_3^6 Y^4 + 52414687396742823936000 a_1^2 a_2^8 a_3^8 Y^4 - 117933046642671353856000 a_1^2 a_2^6 a_3^{10} Y^4 +$   
1965550773778558976000  $a_1^2 a_2^6 a_3^{10} Y^4 T^2 - 88449784982003515392000 a_1^4 a_2^4 a_3^{10} Y^4 T^2 + 26207343698371411968000 a_1^4 a_2^2 a_3^8 Y^4 T^2 -$   
235866093285342707712000  $a_1^2 a_2^8 a_3^8 Y^4 T^2 + 530698709892012092352000 a_1^2 a_2^6 a_3^{10} Y^4 T^2 + 4094897452870533120 a_1^{10} a_2^2 a_3^6 Y^4 T^2 -$   
245693847172231987200  $a_1^8 a_2^2 a_3^8 Y^4 T^2 - 655183592459285299200 a_1^6 a_2^6 a_3^6 Y^4 T^2 + 2948326166066783846400 a_1^6 a_2^4 a_3^8 Y^4 T^2 +$   
368540770783479808000  $a_1^6 a_2^2 a_3^{10} Y^4 T^2 - 26207343698371411968000 a_1^4 a_2^6 a_3^8 Y^4 T^2 - 5459863270494044160 a_1^{10} a_2^2 a_3^6 Y^4 T^2 +$   
327591796229642649600  $a_1^8 a_2^2 a_3^8 Y^4 T^2 + 873578123279047065600 a_1^6 a_2^6 a_3^6 Y^4 T^2 - 393110155475711795200 a_1^6 a_2^4 a_3^8 Y^4 T^2 -$   
4913876943444639744000  $a_1^6 a_2^2 a_3^{10} Y^4 T^2 + 117933046642671353856000 a_1^4 a_2^4 a_3^{10} Y^4 T^2 - 34943124931161882624000 a_1^2 a_2^{10} a_3^6 Y^4 T^2 +$   
314488124380456943616000  $a_1^2 a_2^8 a_3^8 Y^4 T^2 - 707598279856028123136000 a_1^2 a_2^6 a_3^{10} Y^4 T^2 + 17471562465580941312000 a_1^4 a_2^4 a_3^{10} Y -$   
517679249061019648000  $a_1^2 a_2^{10} a_3^6 Y + 46590833241549176832000 a_1^2 a_2^8 a_3^8 Y - 727981769399205888000 a_1^2 a_2^6 a_3^{10} Y -$   
3282569436795764736000  $a_1^4 a_2^6 a_3^8 Y - 808868632665784320 a_1^{10} a_2^2 a_3^6 Y + 48532117959947059200 a_1^8 a_2^2 a_3^8 Y +$   
18918981226525491200  $a_1^6 a_2^6 a_3^6 Y - 582385415519364710400 a_1^6 a_2^4 a_3^8 Y - 104829374793485647872000 a_1^4 a_2^6 a_3^8 Y +$   
2426605897997352960  $a_1^{10} a_2^2 a_3^6 Y^3 - 145596353879841177600 a_1^8 a_2^2 a_3^8 Y^3 - 388256943679576473600 a_1^6 a_2^6 a_3^6 Y^3 +$   
1747156246558094131200  $a_1^6 a_2^4 a_3^8 Y^3 + 2183945308197617664000 a_1^6 a_2^2 a_3^{10} Y^3 + 11647708310387294208000 a_1^4 a_2^6 a_3^8 Y^3 -$   
52414687396742823936000  $a_1^4 a_2^4 a_3^{10} Y^3 + 15530277747183058944000 a_1^2 a_2^{10} a_3^6 Y^3 - 139772499724647530496000 a_1^2 a_2^8 a_3^8 Y^3 +$   
314488124380456943616000  $a_1^2 a_2^6 a_3^{10} Y^3 - 13103671849185705984000 a_1^4 a_2^4 a_3^{10} T + 2911927077596823552000 a_1^4 a_2^6 a_3^8 T -$   
4913876943444639744000  $a_1^4 a_2^6 a_3^8 T^3 + 22112446245500878848000 a_1^4 a_2^4 a_3^{10} T^3 + 3882569436795764736000 a_1^2 a_2^{10} a_3^6 T^3 +$   
6551835924592852992000  $a_1^2 a_2^{10} a_3^6 T^3 - 34943124931161882624000 a_1^2 a_2^8 a_3^8 T + 58966523321335676928000 a_1^2 a_2^8 a_3^8 T^3 +$   
78622031095114235904000  $a_1^2 a_2^6 a_3^{10} T - 132674677473005273088000 a_1^2 a_2^6 a_3^{10} T^3 + 606651474499338240 a_1^{10} a_2^2 a_3^6 T -$   
1023724363217633280  $a_1^{10} a_2^2 a_3^6 T^3 - 36399088469960294400 a_1^8 a_2^2 a_3^8 T + 61423461793057996800 a_1^8 a_2^2 a_3^8 T^3 -$   
97064235919894118400  $a_1^6 a_2^6 a_3^6 T + 163795898114821324800 a_1^6 a_2^6 a_3^6 T^3 + 436789061639523532800 a_1^6 a_2^4 a_3^8 T -$   
737081541516695961600  $a_1^6 a_2^4 a_3^8 T^3 + 545986327049404416000 a_1^6 a_2^2 a_3^{10} T - 921351926895869952000 a_1^6 a_2^2 a_3^{10} T^3 +$   
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1382027890343804928000  $a_1^4 a_2^6 a_3^8 T^4 - 27026323188945518592000 a_1^4 a_2^4 a_3^{10} T^2 + 6219125506547122176000 a_1^4 a_2^4 a_3^{10} T^4 +$   
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1535586544826449920  $a_1^{10} a_2^2 a_3^6 Y T^3 + 200194986584781619200 a_1^8 a_2^2 a_3^8 Y T - 92135192689586995200 a_1^8 a_2^2 a_3^8 Y T^3 +$   
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62897624876991388723200  $a_1^2 a_2^8 a_3^8 Y^5 + 141519655971205624627200 a_1^2 a_2^6 a_3^{10} Y^5 - 444877479661813760 a_1^{10} a_2^2 a_3^6 Y^3 +$



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$12011699195086897152000 a_1^6 a_2^6 a_3^6 Y T^2 - 5405264637789103718400 a_1^6 a_2^4 a_3^8 Y T^2 - 6756580797236379648000 a_1^6 a_2^2 a_3^{10} Y T^2 -$   
 $36035097585260691456000 a_1^4 a_2^6 a_3^8 Y T^2 - 48046796780347588608000 a_1^2 a_2^{10} a_3^6 Y T^2 + 432421171023128297472000 a_1^2 a_2^8 a_3^8 Y T^2 -$   
 $972947634802038669312000 a_1^2 a_2^6 a_3^{10} Y T^2 + 162157939133673111552000 a_1^4 a_2^4 a_3^{10} Y T^2) X^5 + (11412608573767680000 a_1^4 a_2^4 a_3^5 d_3 +$   
 $3851755393646592000 a_1^3 a_2^2 a_3^8 d_1 - 68475651442606080000 a_1^2 a_2^6 a_3^5 d_3 - 25678369290977280000 a_1^2 a_2^5 a_3^6 d_2 +$   
 $115552661809397760000 a_1^2 a_2^3 a_3^8 d_2 - 475525357240320000 a_1^6 a_2^2 a_3^5 d_3 - 128391846454886400 a_1^5 a_2^3 a_3^6 d_1 -$   
 $46221064723759104000 a_1^4 a_2^4 a_3^8 d_1 + 158508452413440000 a_1^8 a_2^2 a_3^3 d_3 - 1902101428961280000 a_1^6 a_2^4 a_3^3 d_3 + 3209796161372160000 a_1^6 a_2 a_3^6 d_2 -$   
 $1268067619307520000 a_1^4 a_2^6 a_3^3 d_3 - 9629388484116480000 a_1^4 a_2 a_3^8 d_2 + 15216811431690240000 a_1^2 a_2^8 a_3^3 d_3 +$   
 $10271347716390912000 a_1 a_2^6 a_3^6 d_1 - 3886953441591951360000 a_1^6 a_2^2 a_3^{10} Y T^4 - 20730418355157073920000 a_1^4 a_2^6 a_3^8 Y T^4 +$   
 $93286882598206832640000 a_1^4 a_2^4 a_3^{10} Y T^4 - 27640557806876098560000 a_1^2 a_2^{10} a_3^6 Y T^4 + 248765020261884887040000 a_1^2 a_2^8 a_3^8 Y T^4 -$   
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 $173328992714096640000 i a_1^2 a_2^3 a_3^8 Y c_2 + 23776267862016000 i a_1^8 a_2^2 a_3^3 Y d_3 - 285315214344192000 i a_1^6 a_2^4 a_3^3 Y d_3 +$   
 $481469424205824000 i a_1^6 a_2 a_3^6 Y d_2 - 1902101428961280000 i a_1^4 a_2^6 a_3^3 Y d_3 - 14444082726174720000 i a_1^4 a_2 a_3^8 Y d_2 +$

22825217147535360000  $i_1^2 a_2^8 a_3^3 Y d_3 + 15407021574586368000 i_1 a_1^2 a_2^6 a_3^6 Y d_1 - 69331597085638656000 i_1 a_1^2 a_2^4 a_3^8 Y d_1 +$   
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1990120162095079096320000  $i_1 a_1^2 a_2^6 a_3^{10} Y^2 T^3 - 153558654482644992000 i_1 a_1^{10} a_2^2 a_3^6 Y^2 T^3 + 92135192689586952000 i_1 a_1^8 a_2^2 a_3^8 Y^2 T^3 +$   
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331686693682513182720000  $i_1 a_1^2 a_2^8 a_3^8 Y^4 T^4 + 746295060785654661120000 i_1 a_1^2 a_2^6 a_3^{10} Y^4 T^4 + 5758449543099187200 i_1 a_1^{10} a_2^2 a_3^6 Y^4 T^4 -$   
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6142346179305799680000  $i_1 a_1^6 a_2^2 a_3^{10} Y^4 T^2 - 5349660268953600000 i_1 a_1^6 a_2^2 a_3^5 c_3 T - 144440827261747200 i_1 a_1^5 a_2^2 a_3^6 c_3 T +$   
12839184645488640000  $i_1 a_1^4 a_2^4 a_3^5 c_3 T - 13649658176235110400 i_1 a_1^{10} a_2^2 a_3^6 Y^4 T + 818979490574106624000 i_1 a_1^8 a_2^2 a_3^8 Y^4 T +$   
2183945308197617664000  $i_1 a_1^6 a_2^6 a_3^6 Y^4 T - 9827753886889279488000 i_1 a_1^6 a_2^4 a_3^8 Y^4 T - 12284692358611599360000 i_1 a_1^6 a_2^2 a_3^{10} Y^4 T -$   
65518359245928529920000  $i_1 a_1^4 a_2^6 a_3^8 Y^4 T + 294832616606678384640000 i_1 a_1^4 a_2^4 a_3^{10} Y^4 T - 87357812327904706560000 i_1 a_1^2 a_2^4 a_3^8 Y^4 T +$   
786220310951142359040000  $i_1 a_1^2 a_2^8 a_3^8 Y^4 T - 1768995699640070307840000 i_1 a_1^2 a_2^6 a_3^{10} Y^4 T - 19412847183978823680000 i_1 a_1^4 a_2^6 a_3^8 Y^3 +$   
87357812327904706560000  $i_1 a_1^4 a_2^4 a_3^{10} Y^3 - 25883796245305098240000 i_1 a_1^2 a_2^{10} a_3^6 Y^3 + 232954166207745884160000 i_1 a_1^2 a_2^8 a_3^8 Y^3 -$   
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2924926752053080800000  $i_1 a_1^4 a_2^6 a_3^8 T^2 + 8445725996545474560000 i_1 a_1^4 a_2^6 a_3^8 T^4 + 13162170384226713600000 i_1 a_1^4 a_2^4 a_3^{10} T^2 -$   
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438739012807557120000  $i_1 a_1^6 a_2^4 a_3^8 T^2 - 78973022305360281600000 i_1 a_1^2 a_2^6 a_3^{10} T^2 + 228034601906727813120000 i_1 a_1^2 a_2^6 a_3^{10} T^4 +$   
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43288915930345635840000  $i_1 a_1^4 a_2^4 a_3^{10} Y T + 202697423917091389440000 i_1 a_1^4 a_2^4 a_3^{10} Y T^3 X^4 + (5199869781422899200 i_1 a_1^{10} a_2^2 a_3^6 Y T -$   
31199218688537395200  $i_1 a_1^8 a_2^2 a_3^8 Y^7 - 83197916502766387200 i_1 a_1^6 a_2^6 a_3^6 Y^7 + 374390624262448742400 i_1 a_1^6 a_2^4 a_3^8 Y^7 +$   
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4448777479661813760  $i_1 a_1^{10} a_2^2 a_3^6 Y^5 + 266926648779708825600 i_1 a_1^8 a_2^2 a_3^8 Y^5 + 711804396745890201600 i_1 a_1^6 a_2^2 a_3^6 Y^5 -$   
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291192707759682355200000  $i_1 a_1^2 a_2^8 a_3^8 Y^3 + 655183592459285299200000 i_1 a_1^2 a_2^6 a_3^{10} Y^3 - 69409882885570560 i_1 a_1^{10} a_2^2 a_3^6 T^7 +$   
4164592973134233600  $i_1 a_1^8 a_2^2 a_3^8 T^7 + 11105581261691289600 i_1 a_1^6 a_2^6 a_3^6 T^7 - 49975115677610803200 i_1 a_1^6 a_2^4 a_3^8 T^7 -$   
62468894597013504000  $i_1 a_1^6 a_2^2 a_3^{10} T^7 - 333167437850783688000 i_1 a_1^4 a_2^6 a_3^8 T^7 + 1499253470328324096000 i_1 a_1^4 a_2^4 a_3^{10} T^7 -$   
444223250467651584000  $i_1 a_1^2 a_2^{10} a_3^6 T^7 + 3998009254208864256000 i_1 a_1^2 a_2^8 a_3^8 T^7 - 8995520821969944576000 i_1 a_1^2 a_2^6 a_3^{10} T^7 +$   
900877439683151728640000  $i_1 a_1^4 a_2^6 a_3^8 Y^2 T^3 - 405394847834182778880000 i_1 a_1^4 a_2^4 a_3^{10} Y^2 T^3 + 120116991950868971520000 i_1 a_1^2 a_2^{10} a_3^6 Y^2 T^3 -$   
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163795898114821324800  $i_1 a_1^8 a_2^2 a_3^8 Y^6 T + 436789061639523532800 i_1 a_1^6 a_2^6 a_3^6 Y^6 T - 1965550777377855897600 i_1 a_1^6 a_2^4 a_3^8 Y^6 T -$   
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33583277735344597504000  $i_1 a_1^2 a_2^6 a_3^{10} Y^2 T^5 + 18768279992323276800 i_1 a_1^{10} a_2^2 a_3^6 Y^2 T^3 - 11260967995939396608000 i_1 a_1^8 a_2^2 a_3^8 Y^2 T^3 +$   
3002924798771724288000  $i_1 a_1^6 a_2^6 a_3^6 Y^2 T^3 + 13513161594472759296000 i_1 a_1^6 a_2^4 a_3^8 Y^2 T^3 + 16891451993090949120000 i_1 a_1^6 a_2^2 a_3^{10} Y^2 T^3 +$   
149259012151730932224000  $i_1 a_1^2 a_2^8 a_3^8 Y^2 T^5 - 2591302294394634240 i_1 a_1^{10} a_2^2 a_3^6 Y^2 T^5 + 155478137663678054400 i_1 a_1^8 a_2^2 a_3^8 Y^2 T^5 +$

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 317769819975843840000  $i a_1^2 a_2^3 a_3^8 d_2 T - 5199869781422899200 i a_1^{10} a_2^2 a_3^6 Y^2 T + 311992186885373952000 i a_1^8 a_2^2 a_3^8 Y^2 T +$   
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 26480818331320320000  $i a_1^4 a_2 a_3^8 d_2 T + 41846231437148160000 i a_1^2 a_2^8 a_3^3 d_3 T + 127107927990337536000 i a_1 a_2^4 a_3^8 c_1 T +$   
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 882693944377344000  $i a_1^6 a_2 a_3^6 d_2 T - 3487185953095680000 i a_1^4 a_2^6 a_3^3 d_3 T - 589665233213356769280000 i a_1^2 a_2^8 a_3^3 Y^2 T^3 -$   
 1326746774730052730880000  $i a_1^2 a_2^6 a_3^{10} Y^2 T^3 - 67166554707089195008000 i a_1^2 a_2^6 a_3^{10} Y^2 T^5 + 10237243632176332800 i a_1^{10} a_2^2 a_3^6 Y^2 T^3 -$   
 614234617930579968000  $i a_1^8 a_2^2 a_3^8 Y^2 T^3 - 1637958981148213248000 i a_1^6 a_2^6 a_3^6 Y^2 T^3 - 13820278903438049280000 i a_1^6 a_2^2 a_3^{10} Y^4 T^3 +$   
 12187194800209920000  $i a_1^4 a_2 a_3^8 d_2 T^3 - 19258776968232960000 i a_1^2 a_2^8 a_3^3 d_3 T^3 - 12999674453557248000 i a_1 a_2^6 a_3^6 d_1 T^3 +$   
 58498535041007616000  $i a_1 a_2^4 a_3^8 d_1 T^3 + 298518024314261864448000 i a_1^2 a_2^8 a_3^8 Y^2 T^5 - 5182604588789268480 i a_1^{10} a_2^2 a_3^6 Y^2 T^5 +$   
 310956275327356108800  $i a_1^8 a_2^2 a_3^8 Y^2 T^5 + 8292167342062829568000 i a_1^6 a_2^6 a_3^6 Y^2 T^5 - 3731475303928273305600 i a_1^6 a_2^4 a_3^8 Y^2 T^5 -$

$4664344129910341632000 i_1^6 a_2^2 a_3^{10} Y^2 T^5 - 24876502026188488704000 i_1^4 a_2^6 a_3^8 Y^2 T^5 + 111944259117848199168000 i_1^4 a_2^4 a_3^{10} Y^2 T^5 -$   
 $33168669368251318272000 i_1^2 a_2^{10} a_3^6 Y^2 T^5 + 49138769434446397440000 i_1^4 a_2^6 a_3^8 Y^2 T^3 + 19258776968232960000 i_1^2 a_2^8 a_3^3 c_3 T^3 +$   
 $12999674453557248000 i_1^2 a_2^6 a_3^5 c_1 T^3 - 58498535041007616000 i_1 a_2^4 a_3^8 c_1 T^3 + 20061226008576000 i_1^8 a_2^2 a_3^3 c_3 T^3 -$   
 $240734712102912000 i_1^6 a_2^4 a_3^3 c_3 T^3 + 406239826673664000 i_1^6 a_2 a_3^6 c_2 T^3 - 1604898086800000 i_1^4 a_2^6 a_3^3 c_3 T^3 -$   
 $12187194800209920000 i_1^4 a_2 a_3^8 c_2 T^3 + 601836780257280000 i_1^6 a_2^2 a_3^5 d_3 T^3 + 162495930669465600 i_1^5 a_2^2 a_3^6 d_1 T^3 -$   
 $14444082726174720000 i_1^4 a_2^4 a_3^5 d_3 T^3 - 4874877920083968000 i_1^3 a_2^2 a_3^8 d_1 T^3 + 86664496357048320000 i_1^2 a_2^6 a_3^5 d_3 T^3 +$   
 $32499186133893120000 i_1^2 a_2^5 a_3^6 d_2 T^3 - 146246337602519040000 i_1^2 a_2^3 a_3^8 d_2 T^3 - 601836780257280000 i_1^6 a_2^2 a_3^5 c_3 T^3 -$   
 $162495930669465600 i_1^5 a_2^2 a_3^6 c_1 T^3 + 14444082726174720000 i_1^4 a_2^4 a_3^5 c_3 T^3 + 4874877920083968000 i_1^3 a_2^2 a_3^8 c_1 T^3 -$   
 $86664496357048320000 i_1^2 a_2^6 a_3^5 c_3 T^3 - 32499186133893120000 i_1^2 a_2^5 a_3^6 c_2 T^3 + 146246337602519040000 i_1^2 a_2^3 a_3^8 c_2 T^3 +$   
 $7370815415166959616000 i_1^6 a_2^4 a_3^8 Y^2 T^3 + 9213519268958699520000 i_1^6 a_2^2 a_3^{10} Y^2 T^3 - 1768995699640070307840000 i_1^2 a_2^6 a_3^{10} Y^3 T^2 -$   
 $13649658176235110400 i_1^{10} a_2^2 a_3^6 Y^3 T^2 + 818979490574106624000 i_1^8 a_2^2 a_3^8 Y^3 T^2 + 2183945308197617664000 i_1^6 a_2^2 a_3^6 Y^3 T^2 -$   
 $982775388689279488000 i_1^6 a_2^4 a_3^8 Y^3 T^2 - 12284692358611599360000 i_1^6 a_2^2 a_3^{10} Y^3 T^2 - 65518359245928529920000 i_1^4 a_2^6 a_3^8 Y^3 T^2 +$   
 $294832616606678384640000 i_1^4 a_2^4 a_3^{10} Y^3 T^2 - 873578123279047065600000 i_1^2 a_2^6 a_3^{10} Y^3 T^2 + 786220310951142359040000 i_1^2 a_2^8 a_3^8 Y^3 T^2 -$   
 $207304183551570739200 i_1^6 a_2^6 a_3^6 Y^6 + 932868825982068326400 i_1^6 a_2^4 a_3^8 Y T^6 + 1166086032477585408000 i_1^6 a_2^2 a_3^{10} Y T^6 +$   
 $62191255065471221276000 i_1^4 a_2^6 a_3^8 Y T^6 - 27986064779462049792000 i_1^4 a_2^4 a_3^{10} Y T^6 + 8292167342062829568000 i_1^2 a_2^{10} a_3^6 Y T^6 -$   
 $74629506078565466112000 i_1^2 a_2^8 a_3^8 Y T^6 + 167916388676772298752000 i_1^2 a_2^6 a_3^{10} Y T^6 + 11516899086198374400 i_1^2 a_2^6 a_3^6 Y^3 T^4 -$   
 $691013945117902464000 i_1^8 a_2^2 a_3^8 Y^3 T^4 - 1842703853791739904000 i_1^6 a_2^6 a_3^6 Y^3 T^4 + 8292167342062829568000 i_1^6 a_2^4 a_3^8 Y^3 T^4 -$   
 $663373387365026365440000 i_1^2 a_2^8 a_3^8 Y^3 T^4 + 14923912157130932240000 i_1^2 a_2^6 a_3^{10} Y^3 T^4 + 129565114719317120 i_1^{10} a_2^2 a_3^6 Y T^6 -$   
 $77739068831839027200 i_1^8 a_2^2 a_3^8 Y T^6 - 265349354946010546176000 i_1^4 a_2^4 a_3^{10} Y^5 T^2 + 78622031095114235904000 i_1^2 a_2^{10} a_3^6 Y^5 T^2 +$   
 $251077388622888960000 i_1^2 a_2^6 a_3^5 Y d_3 + 94154020733583360000 i_1^2 a_2^2 a_3^8 Y d_2 - 423693093301125120000 i_1^2 a_2^3 a_3^8 Y d_2 +$   
 $1743592976547840000 i_1^6 a_2^2 a_3^5 Y d_3 + 470770103667916800 i_1^5 a_2^2 a_3^6 Y d_1 - 1426576071720960000 i_1^6 a_2^2 a_3^5 Y^3 d_3 -$   
 $385175539364659200 i_1^5 a_2^2 a_3^6 Y^3 d_1 + 34237825721303040000 i_1^4 a_2^4 a_3^5 Y^3 d_3 - 47552535724032000 i_1^8 a_2^2 a_3^3 Y^3 c_3 +$   
 $570630428688384000 i_1^6 a_2^4 a_3^3 Y^3 c_3 - 962938848411648000 i_1^6 a_2 a_3^6 Y^3 c_2 + 3804202857922560000 i_1^4 a_2^6 a_3^3 Y^3 c_3 +$   
 $28888165452349440000 i_1^4 a_2 a_3^8 Y^3 c_2 - 45650434295070720000 i_1^2 a_2^8 a_3^3 Y^3 c_3 - 30814043149172736000 i_1^4 a_2^6 a_3^6 Y^3 c_1 +$   
 $138663194171277312000 i_1 a_2^4 a_3^8 Y^3 c_1 + 58119765884928000 i_1^8 a_2^2 a_3^3 Y c_3 - 697437190619136000 i_1^6 a_2^4 a_3^3 Y c_3 +$   
 $1176925259169792000 i_1^6 a_2 a_3^6 Y c_2 - 4649581270794240000 i_1^4 a_2^6 a_3^3 Y c_3 - 3530775775093760000 i_1^4 a_2 a_3^8 Y c_2 +$   
 $55794975249530880000 i_1^2 a_2^5 a_3^3 Y c_3 + 37661608293433344000 i_1 a_2^2 a_3^6 Y c_1 - 169477237320450048000 i_1^2 a_2^4 a_3^8 Y c_1 +$   
 $1426576071720960000 i_1^6 a_2^2 a_3^5 Y^3 c_3 + 385175539364659200 i_1^5 a_2^2 a_3^6 Y^3 c_1 - 34237825721303040000 i_1^4 a_2^4 a_3^5 Y^3 c_3 -$   
 $11555266180939776000 i_1^3 a_2^2 a_3^8 Y^3 c_1 + 205426954327818240000 i_1^2 a_2^6 a_3^5 Y^3 c_3 + 77035107872931840000 i_1^2 a_2 a_3^6 Y^3 c_2 -$   
 $346657985428193280000 i_1^2 a_2^3 a_3^8 Y^3 c_2 - 1743592976547840000 i_1^6 a_2^2 a_3^5 Y c_3 - 470770103667916800 i_1^5 a_2^2 a_3^6 Y c_1 +$   
 $41846231437148160000 i_1^4 a_2^4 a_3^5 Y c_3 + 14123103110037504000 i_1^3 a_2^2 a_3^8 Y c_1 - 251077388622888960000 i_1^2 a_2^6 a_3^5 Y c_3 -$   
 $94154020733583360000 i_1^2 a_2^5 a_3^6 Y c_2 + 423693093301125120000 i_1^2 a_2^3 a_3^8 Y c_2 - 58119765884928000 i_1^8 a_2^2 a_3^3 Y d_3 +$   
 $697437190619136000 i_1^6 a_2^4 a_3^3 Y d_3 - 1176925259169792000 i_1^6 a_2 a_3^6 Y d_2 + 4649581270794240000 i_1^4 a_2^6 a_3^3 Y d_3 +$   
 $3530775775093760000 i_1^4 a_2 a_3^8 Y d_2 - 55794975249530880000 i_1^2 a_2^5 a_3^3 Y d_3 - 37661608293433344000 i_1^2 a_2^2 a_3^6 Y d_1 +$   
 $169477237320450048000 i_1 a_2^4 a_3^8 Y d_1 + 47552535724032000 i_1^8 a_2^2 a_3^3 Y^3 d_3 - 570630428688384000 i_1^6 a_2^4 a_3^3 Y^3 d_3 +$   
 $962938848411648000 i_1^6 a_2 a_3^6 Y^3 d_2 - 3804202857922560000 i_1^4 a_2^6 a_3^3 Y^3 d_3 - 28888165452349440000 i_1^4 a_2 a_3^8 Y^3 d_2 +$   
 $4565043429507720000 i_1^2 a_2^8 a_3^3 Y^3 d_3 + 30814043149172736000 i_1 a_2^6 a_3^6 Y^3 d_1 - 138663194171277312000 i_1 a_2^4 a_3^8 Y^3 d_1 +$   
 $11555266180939776000 i_1^3 a_2^2 a_3^8 Y^3 d_1 - 205426954327818240000 i_1^2 a_2^6 a_3^5 Y^3 d_3 - 77035107872931840000 i_1^2 a_2^4 a_3^8 Y^3 d_2 +$   
 $346657985428193280000 i_1^2 a_2^3 a_3^8 Y^3 d_2 - 11056223122750439424000 i_1^6 a_2^2 a_3^8 Y^4 T^3 - 73708154151669596160000 i_1^4 a_2^6 a_3^8 Y^4 T^3 +$   
 $331686693682513182720000 i_1^4 a_2^4 a_3^{10} Y^4 T^3 - 9827753886892794880000 i_1^2 a_2^2 a_3^6 Y^4 T^3 + 884497849820035153920000 i_1^2 a_2^8 a_3^8 Y^4 T^3 -$   
 $1990120162095079096320000 i_1^2 a_2^2 a_3^6 Y^4 T^3 - 15355865448264499200 i_1^{10} a_2^2 a_3^6 Y^4 T^3 + 921351926895869952000 i_1^8 a_2^2 a_3^8 Y^4 T^3 -$   
 $20061226008576000 i_1^8 a_2^2 a_3^3 d_3 T^3 + 240734712102912000 i_1^6 a_2^4 a_3^3 d_3 T^3 - 406239826673664000 i_1^6 a_2 a_3^6 d_2 T^3 +$   
 $16048980868000000 i_1^4 a_2^6 a_3^3 d_3 T^3 + 2456938471722319872000 i_1^6 a_2 a_3^6 Y^4 T^3 - 221124462455008788480000 i_1^4 a_2^4 a_3^{10} Y^2 T^3 +$   
 $65518359245928529920000 i_1^2 a_2^{10} a_3^6 Y^2 T^3 + 9099772117490073600 i_1^{10} a_2^2 a_3^6 Y^4 T - 545986327049404416000 i_1^8 a_2^2 a_3^8 Y^4 T -$   
 $14559635387984117760000 i_1^6 a_2^6 a_3^6 Y^4 T + 65518359245928529920000 i_1^6 a_2^4 a_3^8 Y^4 T + 8189794905741066240000 i_1^6 a_2^2 a_3^{10} Y^4 T +$   
 $43678906163952353280000 i_1^4 a_2^6 a_3^8 Y^4 T - 196555077737785589760000 i_1^4 a_2^4 a_3^{10} Y^4 T + 58238541551936471040000 i_1^2 a_2^{10} a_3^6 Y^4 T -$   
 $524146873967428239360000 i_1^2 a_2^8 a_3^8 Y^4 T + 1179330466426713538560000 i_1^2 a_2^6 a_3^{10} Y^4 T - 5459863270494044160 i_1^{10} a_2^2 a_3^6 Y^6 T +$   
 $327591796229642649600 i_1^8 a_2^2 a_3^8 Y^6 T + 873578123279047065600 i_1^6 a_2^2 a_3^6 Y^6 T - 3931101554755711795200 i_1^6 a_2^4 a_3^8 Y^6 T -$   
 $4913876943444639744000 i_1^6 a_2^2 a_3^{10} Y^6 T - 26207343698371411968000 i_1^4 a_2^6 a_3^8 Y^6 T + 117933046642671353856000 i_1^4 a_2^4 a_3^{10} Y^6 T -$   
 $34943124931161882624000 i_1^2 a_2^{10} a_3^6 Y^6 T + 314488124380456943616000 i_1^2 a_2^8 a_3^8 Y^6 T - 707598279856028123136000 i_1^2 a_2^6 a_3^{10} Y^6 T -$   
 $41846231437148160000 i_1^4 a_2^4 a_3^5 Y d_3 - 14123103110037504000 i_1^3 a_2^2 a_3^8 Y d_1 - 666334875701477376000 i_1^4 a_2^6 a_3^8 T^7 +$   
 $2998506940656648192000 i_1^4 a_2^4 a_3^{10} T^7 - 888446500935303168000 i_1^2 a_2^{10} a_3^6 T^7 + 7996018508417728512000 i_1^2 a_2^8 a_3^8 T^7 -$   
 $17991041643939889152000 i_1^2 a_2^6 a_3^{10} T^7 + 518260458878926848000 i_1^6 a_2^2 a_3^{10} T^5 + 2764055780687609856000 i_1^4 a_2^6 a_3^8 T^5 -$   
 $12438251013094244352000 i_1^4 a_2^4 a_3^{10} T^5 + 3685407707583479808000 i_1^2 a_2^2 a_3^6 T^5 - 33168669368251318272000 i_1^2 a_2^8 a_3^8 T^5 +$   
 $74629506078565466112000 i_1^2 a_2^6 a_3^{10} T^5 + 575844954309918720 i_1^{10} a_2^2 a_3^6 T^5 - 34550697258595123200 i_1^8 a_2^2 a_3^8 T^5 -$   
 $92135192689586995200 i_1^6 a_2^6 a_3^6 T^5 + 414608367103141478400 i_1^6 a_2^4 a_3^8 T^5 + 1039973956284579840 i_1^{10} a_2^2 a_3^6 Y^7 -$   
 $6239843737074790400 i_1^8 a_2^2 a_3^8 Y^7 - 166395833005532774400 i_1^6 a_2^6 a_3^6 Y^7 + 748781248524897484800 i_1^6 a_2^4 a_3^8 Y^7 +$   
 $935976560656121856000 i_1^6 a_2^2 a_3^{10} Y^7 + 4991874990165983232000 i_1^4 a_2^6 a_3^8 Y^7 - 22463437455746924544000 i_1^4 a_2^4 a_3^{10} Y^7 +$   
 $665833320221310976000 i_1^2 a_2^{10} a_3^6 Y^7 - 59902499881991798784000 i_1^2 a_2^8 a_3^8 Y^7 + 134780624734481547264000 i_1^2 a_2^6 a_3^{10} Y^7 -$   
 $2426605897997352960 i_1^{10} a_2^2 a_3^6 Y^5 + 145596353879841177600 i_1^8 a_2^2 a_3^8 Y^5 + 388256943679576473600 i_1^6 a_2^6 a_3^6 Y^5 -$   
 $1747156246558094131200 i_1^6 a_2^4 a_3^8 Y^5 - 2183945308197617664000 i_1^6 a_2^2 a_3^{10} Y^5 - 11647708310387294208000 i_1^4 a_2^6 a_3^8 Y^5 +$   
 $52414687396742823936000 i_1^4 a_2^4 a_3^{10} Y^5 - 15530277747183058944000 i_1^2 a_2^{10} a_3^6 Y^5 + 139772499724647530496000 i_1^2 a_2^8 a_3^8 Y^5 -$   
 $314488124380456943616000 i_1^2 a_2^6 a_3^{10} Y^5 + 60665147449933824000 i_1^{10} a_2^2 a_3^6 Y^3 - 363990884699602944000 i_1^8 a_2^2 a_3^8 Y^3 -$   
 $970642359198941184000 i_1^6 a_2^6 a_3^6 Y^3 + 4367890616395235328000 i_1^6 a_2^4 a_3^8 Y^3 + 5459863270494044160000 i_1^6 a_2^2 a_3^{10} Y^3 +$   
 $29119270775968235520000 i_1^4 a_2^6 a_3^8 Y^3 - 131036718491857059840000 i_1^4 a_2^4 a_3^{10} Y^3 + 38825694367957647360000 i_1^2 a_2^{10} a_3^6 Y^3 -$   
 $349431249311618826240000 i_1^2 a_2^8 a_3^8 Y^3 + 786220310951142359040000 i_1^2 a_2^6 a_3^{10} Y^3 - 138819765771141120 i_1^{10} a_2^2 a_3^6 T^7 +$   
 $8329185946268467200 i_1^8 a_2^2 a_3^8 T^7 + 22211162523382579200 i_1^6 a_2^6 a_3^6 T^7 - 99950231355221606400 i_1^6 a_2^4 a_3^8 T^7 -$   
 $124937789194027008000 i_1^6 a_2^2 a_3^{10} T^7 - 308488368380313600000 i_1^6 a_2^2 a_3^{10} T^4 - 1645271298028339200000 i_1^4 a_2^6 a_3^8 T^4 +$   
 $7403720841127526400000 i_1^4 a_2^4 a_3^{10} T^4 - 2193695064037785600000 i_1^2 a_2^{10} a_3^6 T^4 + 19743255576340070400000 i_1^2 a_2^8 a_3^8 T^4 -$   
 $24679069474250880000 i_1^6 a_2^4 a_3^8 T^4 - 342764853755904000 i_1^{10} a_2^2 a_3^6 T^4 + 205658912253542400000 i_1^8 a_2^2 a_3^8 T^4 +$



$$\begin{aligned}
& 54842376600944640000 a_1^6 a_2^6 a_3^6 T^4 - 4422325046765158400000 a_1^2 a_2^6 a_3^{10} T^4 + 25999348907114496000 a_1^3 a_2^2 a_3^8 Y^2 c_1 T - \\
& 462210647237591040000 a_1^2 a_2^6 a_3^5 Y^2 c_3 T - 102713477163909120000 a_1^2 a_2^8 a_3^3 Y^2 d_3 T - 69331597085638656000 a_1 a_2^6 a_3^6 Y^2 d_1 T + \\
& 311992186885373952000 a_1 a_2^4 a_3^8 Y^2 d_1 T - 173328992714096640000 a_1^2 a_2^5 a_3^6 Y^2 c_2 T + 779980467213434880000 a_1^2 a_2^3 a_3^8 Y^2 c_2 T + \\
& 2407347121029120000 a_1^6 a_2^2 a_3^5 Y c_3 T^2 + 649983722677862400 a_1^5 a_2^2 a_3^6 Y c_1 T^2 - 5777633090469888000 a_1^4 a_2^4 a_3^5 Y c_3 T^2 - \\
& 19499511680335872000 a_1^3 a_2^2 a_3^8 Y c_1 T^2 + 346657985428193280000 a_1^2 a_2^6 a_3^5 Y c_3 T^2 + 129996744535572480000 a_1^2 a_2^5 a_3^6 Y c_2 T^2 - \\
& 2407347121029120000 a_1^6 a_2^2 a_3^5 Y d_3 T^2 - 649983722677862400 a_1^5 a_2^2 a_3^6 Y d_1 T^2 + 57776330904698880000 a_1^4 a_2^4 a_3^5 Y d_3 T^2 + \\
& 19499511680335872000 a_1^3 a_2^2 a_3^8 Y d_1 T^2 - 6419592322744320000 a_1^2 a_2^6 a_3^5 Y d_3 T^2 - 48748779200839680000 a_1^2 a_2^5 a_3^6 Y d_2 T^2 + \\
& 77035107872931840000 a_1^2 a_2^8 a_3^3 Y d_3 T^2 + 51998697814228992000 a_1 a_2^6 a_3^6 Y d_1 T^2 - 233994140164030464000 a_1 a_2^4 a_3^8 Y d_1 T^2 - \\
& 584985350410076160000 a_1^2 a_2^3 a_3^8 Y c_2 T^2 + 80244904304304000 a_1^8 a_2^2 a_3^3 Y d_3 T^2 - 962938848411648000 a_1^6 a_2^4 a_3^3 Y d_3 T^2 + \\
& 1624959306694656000 a_1^6 a_2^2 a_3^6 Y d_2 T^2 - 346657985428193280000 a_1^2 a_2^6 a_3^5 Y d_3 T^2 - 129996744535572480000 a_1^2 a_2^5 a_3^6 Y d_2 T^2 + \\
& 584985350410076160000 a_1^2 a_2^3 a_3^8 Y d_2 T^2 - 80244904034304000 a_1^8 a_2^2 a_3^3 Y c_3 T^2 + 962938848411648000 a_1^6 a_2^4 a_3^3 Y c_3 T^2 - \\
& 1624959306694656000 a_1^6 a_2^2 a_3^6 Y c_2 T^2 + 6419592322744320000 a_1^4 a_2^6 a_3^3 Y c_3 T^2 + 48748779200839680000 a_1^4 a_2 a_3^8 Y c_2 T^2 - \\
& 77035107872931840000 a_1^2 a_2^5 a_3^6 Y c_3 T^2 - 51998697814228992000 a_1 a_2^6 a_3^6 Y c_1 T^2 + 233994140164030464000 a_1 a_2^4 a_3^8 Y c_1 T^2 + \\
& 3209796161372160000 a_1^6 a_2^2 a_3^5 Y^2 d_3 T + 866644963570483200 a_1^5 a_2^2 a_3^6 Y^2 d_1 T - 77035107872931840000 a_1^4 a_2^4 a_3^5 Y^2 d_3 T - \\
& 25999348907114496000 a_1^3 a_2^2 a_3^8 Y^2 d_1 T + 462210647237591040000 a_1^2 a_2^6 a_3^5 Y^2 d_3 T + 173328992714096640000 a_1^2 a_2^5 a_3^6 Y^2 d_2 T - \\
& 779980467213434880000 a_1^2 a_2^3 a_3^8 Y^2 d_2 T - 106993205379072000 a_1^8 a_2^2 a_3^3 Y^2 d_3 T + 1283918464548864000 a_1^6 a_2^4 a_3^3 Y^2 d_3 T - \\
& 2166612408926208000 a_1^6 a_2^2 a_3^6 Y^2 d_2 T + 8559456430325760000 a_1^4 a_2^6 a_3^3 Y^2 d_3 T + 64998372267786240000 a_1^4 a_2 a_3^8 Y^2 d_2 T + \\
& 106993205379072000 a_1^8 a_2^2 a_3^3 Y^2 c_3 T - 1283918464548864000 a_1^6 a_2^4 a_3^3 Y^2 c_3 T + 2166612408926208000 a_1^6 a_2 a_3^6 Y^2 c_2 T - \\
& 8559456430325760000 a_1^4 a_2^6 a_3^3 Y^2 c_3 T - 64998372267786240000 a_1^4 a_2 a_3^8 Y^2 c_2 T + 102713477163909120000 a_1^2 a_2^8 a_3^3 Y^2 c_3 T + \\
& 69331597085638656000 a_1^2 a_2^6 a_3^5 Y^2 c_1 T - 311992186885373952000 a_1 a_2^4 a_3^8 Y^2 c_1 T - 3209796161372160000 a_1^6 a_2^2 a_3^5 Y^2 c_3 T - \\
& 866644963570483200 a_1^5 a_2^2 a_3^6 Y^2 c_1 T + 77035107872931840000 a_1^4 a_2^4 a_3^5 Y^2 c_3 T + 2254631038038835200 a_1^4 a_2^2 a_3^6 Y^2 c_3 T - \\
& 135277862282330112000 a_1^8 a_2^2 a_3^3 Y^2 T^3 - 360740966086213632000 a_1^6 a_2^4 a_3^3 Y^2 T^3 + 1623334347387961344000 a_1^6 a_2^4 a_3^3 Y^2 T^3 + \\
& 202916793422915680000 a_1^6 a_2^2 a_3^3 Y^2 T^3 + 10822228982586408960000 a_1^4 a_2^6 a_3^3 Y^2 T^3 + 1442963864344854280000 a_1^2 a_2^10 a_3^6 Y^2 T^3 - \\
& 12986674771036907520000 a_1^2 a_2^8 a_3^8 Y^2 T^3 + 292200182529833041920000 a_1^2 a_2^6 a_3^{10} Y^2 T^3 - 48700030421638840320000 a_1^2 a_2^4 a_3^{10} Y^2 T^3) X^2 + \\
& (-635539639951687680 a_1^{10} a_2^2 a_3^6 Y^7 + 38132378397101260800 a_1^8 a_2^2 a_3^8 Y^7 + 101686342392270028800 a_1^6 a_2^2 a_3^8 Y^7 - \\
& 457588540765215129600 a_1^6 a_2^4 a_3^8 Y^7 - 571985675956518912000 a_1^6 a_2^2 a_3^{10} Y^7 - 3050590271768100864000 a_1^4 a_2^6 a_3^8 Y^7 + \\
& 13727506222956453888000 a_1^4 a_2^4 a_3^{10} Y^7 - 406745369569801152000 a_1^2 a_3^6 Y^7 + 36607083261217210368000 a_1^2 a_2^8 a_3^8 Y^7 - \\
& 866644963570483200 a_1^5 a_2^2 a_3^6 Y^2 c_1 T + 77035107872931840000 a_1^4 a_2^4 a_3^5 Y^2 c_3 T + 2254631038038835200 a_1^4 a_2^2 a_3^6 Y^2 c_3 T - \\
& 562608042866049024000 a_1^6 a_2^6 a_3^5 Y^5 + 254793619289720608000 a_1^6 a_2^4 a_3^8 Y^5 + 3184920241121525760000 a_1^6 a_2^2 a_3^{10} Y^5 + \\
& 16986241285981470720000 a_1^4 a_2^6 a_3^8 Y^5 - 76438085786916618240000 a_1^4 a_2^4 a_3^{10} Y^5 + 22648321714641960960000 a_1^2 a_2^{10} a_3^6 Y^5 - \\
& 203834895431772648640000 a_1^2 a_2^8 a_3^8 Y^5 + 458628514721499709440000 a_1^2 a_2^6 a_3^{10} Y^5 - 3755461508805427200 a_1^2 a_2^2 a_3^6 Y^3 + \\
& 22532769052385632000 a_1^8 a_2^2 a_3^8 Y^3 + 600873841408868352000 a_1^6 a_2^4 a_3^3 Y^3 - 2703932826339907584000 a_1^6 a_2^4 a_3^3 Y^3 - \\
& 3379915357924884480000 a_1^6 a_2^2 a_3^{10} Y^3 - 18026215242266050560000 a_1^4 a_2^6 a_3^8 Y^3 + 81117968590197227520000 a_1^4 a_2^4 a_3^{10} Y^3 + \\
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& 43332248178524160 a_1^{10} a_2^2 a_3^6 Y^9 - 2599934890711449600 a_1^8 a_2^2 a_3^8 Y^9 - 6933159708563865600 a_1^6 a_2^2 a_3^8 Y^9 + \\
& 31199218688537395200 a_1^6 a_2^4 a_3^8 Y^9 + 38999023360671744000 a_1^6 a_2^2 a_3^{10} Y^9 + 207994791256915968000 a_1^4 a_2^6 a_3^8 Y^9 - \\
& 935976560656121856000 a_1^4 a_2^4 a_3^{10} Y^9 + 277326388342554624000 a_1^2 a_2^{10} a_3^6 Y^9 - 2495937495082991616000 a_1^2 a_2^8 a_3^8 Y^9 + \\
& 561585936393671136000 a_1^2 a_2^6 a_3^{10} Y^9 + 4279728215162880000 a_1^2 a_2^4 a_3^8 Y^9 + 115552661809397600 a_1^5 a_2^2 a_3^6 Y^2 c_1 T - \\
& 102713477163909120000 a_1^4 a_2^4 a_3^5 Y^2 c_3 T - 346657985428193280000 a_1^3 a_2^2 a_3^8 Y^2 c_1 T + 616280862983454720000 a_1^2 a_2^6 a_3^5 Y^2 c_3 T + \\
& 136951302885212160000 a_1^2 a_2^8 a_3^3 Y^2 d_3 T + 924421294471518208000 a_1^2 a_2^6 a_3^5 Y^2 d_1 T - 415988592513831936000 a_1^2 a_2^4 a_3^8 Y^2 d_1 T - \\
& 142657607172096000 a_1^8 a_2^2 a_3^3 Y^2 c_3 T + 1711891286065152000 a_1^6 a_2^4 a_3^3 Y^2 c_3 T - 2888816545234944000 a_1^6 a_2 a_3^6 Y^2 c_2 T + \\
& 11412608573767680000 a_1^4 a_2^6 a_3^3 Y^2 c_3 T + 86664496357048320000 a_1^4 a_2 a_3^8 Y^2 c_2 T - 136951302885212160000 a_1^2 a_2^8 a_3^3 Y^2 c_3 T - \\
& 924421294471518208000 a_1^2 a_2^6 a_3^5 Y^2 c_1 T + 415988592513831936000 a_1^2 a_2^4 a_3^8 Y^2 c_1 T - 4279728215162880000 a_1^2 a_2^2 a_3^6 Y^2 d_3 T - \\
& 1155526618093977600 a_1^5 a_2^2 a_3^6 Y^2 d_1 T + 102713477163909120000 a_1^4 a_2^4 a_3^5 Y^2 d_3 T + 346657985428193280000 a_1^3 a_2^2 a_3^8 Y^2 d_1 T - \\
& 616280862983454720000 a_1^2 a_2^6 a_3^5 Y^2 d_3 T - 2311053236618795520000 a_1^2 a_2^5 a_3^6 Y^2 d_2 T + 1039973956284579840000 a_1^2 a_2^3 a_3^8 Y^2 d_2 T + \\
& 142657607172096000 a_1^8 a_2^2 a_3^3 Y^2 d_3 T - 1711891286065152000 a_1^6 a_2^4 a_3^3 Y^2 d_3 T + 2888816545234944000 a_1^6 a_2 a_3^6 Y^2 d_3 T - \\
& 11412608573767680000 a_1^4 a_2^6 a_3^3 Y^2 d_3 T - 86664496357048320000 a_1^4 a_2 a_3^8 Y^2 d_2 T + 2166612408926208000 a_1^6 a_2 a_3^6 Y c_2 T^2 - \\
& 8559456430325760000 a_1^4 a_2^6 a_3^3 Y c_3 T^2 - 64998372267786240000 a_1^4 a_2 a_3^8 Y c_2 T^2 + 102713477163909120000 a_1^2 a_2^8 a_3^3 Y c_3 T^2 + \\
& 69331597085638656000 a_1^2 a_2^6 a_3^5 Y c_1 T^2 - 311992186885373952000 a_1 a_2^4 a_3^8 Y c_1 T^2 + 779980467213434880000 a_1^2 a_2^3 a_3^8 Y c_2 T^2 - \\
& 106993205379072000 a_1^8 a_2^2 a_3^3 Y d_3 T^2 + 1283918464548864000 a_1^6 a_2^4 a_3^3 Y d_3 T^2 - 2166612408926208000 a_1^6 a_2 a_3^6 Y d_2 T^2 + \\
& 462210647237591040000 a_1^2 a_2^6 a_3^5 Y d_3 T^2 + 173328992714096640000 a_1^2 a_2^5 a_3^6 Y d_2 T^2 - 779980467213434880000 a_1^2 a_2^3 a_3^8 Y d_2 T^2 - \\
& 3209796161372160000 a_1^6 a_2^2 a_3^5 Y c_3 T^2 - 866644963570483200 a_1^5 a_2^2 a_3^6 Y c_1 T^2 + 77035107872931840000 a_1^4 a_2^4 a_3^5 Y c_3 T^2 + \\
& 25999348907114496000 a_1^3 a_2^2 a_3^8 Y c_1 T^2 - 462210647237591040000 a_1^2 a_2^6 a_3^5 Y c_3 T^2 - 173328992714096640000 a_1^2 a_2^5 a_3^6 Y c_2 T^2 + \\
& 106993205379072000 a_1^8 a_2^2 a_3^3 Y c_3 T^2 - 1283918464548864000 a_1^6 a_2^4 a_3^3 Y c_3 T^2 + 3209796161372160000 a_1^6 a_2^2 a_3^5 Y d_3 T^2 + \\
& 866644963570483200 a_1^5 a_2^2 a_3^6 Y d_1 T^2 - 77035107872931840000 a_1^4 a_2^4 a_3^5 Y d_3 T^2 - 25999348907114496000 a_1^3 a_2^2 a_3^8 Y d_1 T^2 + \\
& 8559456430325760000 a_1^4 a_2^6 a_3^3 Y d_3 T^2 + 64998372267786240000 a_1^4 a_2 a_3^8 Y d_2 T^2 - 102713477163909120000 a_1^2 a_2^8 a_3^3 Y d_3 T^2 - \\
& 69331597085638656000 a_1^2 a_2^6 a_3^5 Y d_1 T^2 + 311992186885373952000 a_1 a_2^4 a_3^8 Y d_1 T^2 - 3253588260261120 a_1^{10} a_2^2 a_3^6 T^9 + \\
& 520574121641779200 a_1^6 a_2^6 a_3^6 T^9 - 2342583547388006400 a_1^6 a_2^4 a_3^8 T^9 - 2928229434235008000 a_1^6 a_2^2 a_3^{10} T^9 - \\
& 15617223649253376000 a_1^4 a_2^6 a_3^8 T^9 + 70277506421640192000 a_1^4 a_2^4 a_3^{10} T^9 - 20822964865671168000 a_1^2 a_2^{10} a_3^6 T^9 + \\
& 187406683791040512000 a_1^2 a_2^8 a_3^8 T^9 - 421665038529841152000 a_1^2 a_2^6 a_3^{10} T^9 + 84834301304586240 a_1^{10} a_2^2 a_3^6 T^7 - \\
& 5090058078275174400 a_1^8 a_2^2 a_3^8 T^7 - 13573488208733798400 a_1^6 a_2^6 a_3^6 T^7 + 61080696939302092800 a_1^6 a_2^4 a_3^8 T^7 + \\
& 76350871174127616000 a_1^6 a_2^2 a_3^{10} T^7 + 407204646262013952000 a_1^4 a_2^6 a_3^8 T^7 - 18324209081790662784000 a_1^4 a_2^4 a_3^{10} T^7 + \\
& 542939528349351936000 a_1^2 a_2^{10} a_3^6 T^7 - 4886455755144167424000 a_1^2 a_2^8 a_3^8 T^7 + 10994525449074376704000 a_1^2 a_2^6 a_3^{10} T^7 + \\
& 195215295615667200 a_1^8 a_2^2 a_3^8 T^9 - 7370815415166959616000 a_1^4 a_2^6 a_3^8 Y^6 T^3 + 33168669368251318272000 a_1^4 a_2^4 a_3^{10} Y^6 T^3 - \\
& 982775388689279488000 a_1^2 a_2^{10} a_3^6 Y^6 T^3 + 88449784982003515392000 a_1^2 a_2^8 a_3^8 Y^6 T^3 - 199012016209507909632000 a_1^2 a_2^6 a_3^{10} Y^6 T^3 - \\
& 18134545862712360960000 a_1^4 a_2^6 a_3^8 Y^2 T^3 - 15355865448264499200 a_1^{10} a_2^2 a_3^6 Y^6 T^3 + 92135192689586995200 a_1^8 a_2^2 a_3^8 Y^6 T^3 + \\
& 245693847172231987200 a_1^6 a_2^6 a_3^6 Y^6 T^3 - 25678369290977280000 a_1^2 a_2^8 a_3^3 c_3 T^3 - 17332899271409664000 a_1^2 a_2^6 a_3^5 c_1 T^3 + \\
& 77998046721343488000 a_1 a_2^4 a_3^8 c_1 T^3 - 26748301344768000 a_1^8 a_2^2 a_3^3 c_3 T^3 + 320979616137216000 a_1^6 a_2^4 a_3^3 c_2 T^3 - \\
& 541653102231552000 a_1^6 a_2^2 a_3^6 c_2 T^3 + 2139864107581440000 a_1^4 a_2^6 a_3^3 c_3 T^3 + 16249593066946560000 a_1^4 a_2 a_3^8 c_2 T^3 - \\
& 802449040343040000 a_1^6 a_2^2 a_3^5 d_3 T^3 - 216661240892620800 a_1^5 a_2^2 a_3^6 d_1 T^3 + 19258776982322960000 a_1^4 a_2^4 a_3^5 d_3 T^3 +
\end{aligned}$$

$6499837226778624000 a_1^3 a_2^2 a_3^8 d_1 T^3 - 115552661809397760000 a_1^2 a_2^6 a_3^5 d_3 T^3 - 43332248178524160000 a_1^2 a_2^5 a_3^6 d_2 T^3 +$   
 $194995116803358720000 a_1^2 a_2^3 a_3^8 d_2 T^3 + 802449040343040000 a_1^6 a_2^2 a_3^5 c_3 T^3 + 216661240892620800 a_1^5 a_2^2 a_3^6 c_1 T^3 -$   
 $19258776968232960000 a_1^4 a_2^4 a_3^5 c_3 T^3 - 64998372267786240000 a_1^3 a_2^2 a_3^8 c_1 T^3 + 115552661809397760000 a_1^2 a_2^6 a_3^5 c_3 T^3 +$   
 $43332248178524160000 a_1^2 a_2^5 a_3^6 c_2 T^3 - 194995116803358720000 a_1^2 a_2^3 a_3^8 c_2 T^3 + 11994027762626592768000 a_1^2 a_2^8 a_3^8 Y^2 T^7 -$   
 $26986562465909833728000 a_1^2 a_2^6 a_3^{10} Y^2 T^7 + 81605456382205624320000 a_1^4 a_2^4 a_3^{10} Y^2 T^3 - 24179394483616481280000 a_1^2 a_2^{10} a_3^6 Y^2 T^3 +$   
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 $263243407684534272000 a_1^6 a_2^2 a_3^{10} Y^8 T - 1403964840984182784000 a_1^4 a_2^6 a_3^8 Y^8 T + 26748301344768000 a_1^8 a_2^2 a_3^3 d_3 T^3 -$   
 $320979616137216000 a_1^6 a_2^4 a_3^3 d_3 T^3 + 541653102231552000 a_1^6 a_2^2 a_3^6 d_2 T^3 - 2139864107581440000 a_1^4 a_2^6 a_3^3 d_3 T^3 -$   
 $1295651147197317120 a_1^{10} a_2^2 a_3^6 Y^4 T^5 + 77739068831839027200 a_1^8 a_2^2 a_3^8 Y^4 T^5 + 207304183551570739200 a_1^6 a_2^6 a_3^6 Y^4 T^5 -$   
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346657985428193280000  $ia_1^2 a_2^6 a_3^{10} Y^2 c_3 T^2 - 129996744535572480000 ia_1^2 a_2^5 a_3^6 Y^2 c_2 T^2 + 584985350410076160000 ia_1^2 a_2^3 a_3^8 Y^2 c_2 T^2 -$   
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5270812981623014400  $a_1^4 a_2^4 a_3^{10} T^{10}$  - 1561722364925337600  $a_1^2 a_2^{10} a_3^6 T^{10}$  + 14055501284328038400  $a_1^2 a_2^8 a_3^8 T^{10}$  -  
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 $10356257352735108800 i_1^6 a_2^4 a_3^8 Y^3 T^6 - 24876502026188488704000 i_1^6 a_2^2 a_3^{10} Y^3 T^6 + 23033789172396748800 i_1^6 a_2^2 a_3^8 Y^6 T^6 -$   
 $103652091775785369600 i_1^6 a_2^4 a_3^8 Y T^6 - 129565114719731712000 i_1^6 a_2^2 a_3^{10} Y T^6 - 691013945171902464000 i_1^4 a_2^6 a_3^8 Y T^6 +$   
 $3109562753273561088000 i_1^4 a_2^4 a_3^{10} Y T^6 - 921351926895869952000 i_1^2 a_2^{10} a_3^6 Y T^6 + 8292167342062829568000 i_1^2 a_2^8 a_3^8 Y T^6 -$   
 $18657376519641366528000 i_1^2 a_2^6 a_3^{10} Y T^6 - 184270385379173990400 i_1^6 a_2^6 a_3^6 Y^5 T^4 + 829216734206282956800 i_1^6 a_2^4 a_3^8 Y^5 T^4 +$   
 $1036520917757853696000 i_1^6 a_2^2 a_3^{10} Y^5 T^4 + 5528111561375219712000 i_1^4 a_2^6 a_3^8 Y^5 T^4 + 22850990250393600 i_1^6 a_2^2 a_3^6 c_2 T^5 +$   
 $442248924910017576960000 i_1^2 a_2^6 a_3^{10} Y^3 T^2 - 1986061374849024000 i_1^4 a_2^2 a_3^8 c_1 T^3 + 35307757775093760000 i_1^2 a_2^8 a_3^5 c_3 T^3 +$   
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 $4965153437122560000 i_1^4 a_2 a_3^8 c_2 T^3 + 1128443962982400 i_1^8 a_2^2 a_3^3 c_3 T^5 - 13541327555788800 i_1^6 a_2^4 a_3^3 c_3 T^5 -$   
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 $66202045828300800 i_1^5 a_2^2 a_3^6 c_1 T^3 - 5884626295848960000 i_1^4 a_2^4 a_3^5 c_3 T^3 - 812479653347328000 i_1^4 a_2^4 a_3^5 d_3 T^5 +$   
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 $51356738581954560000 i_1^2 a_2^3 a_3^8 Y^3 d_2 - 211344603217920000 i_1^6 a_2^2 a_3^5 Y^3 d_3 - 57063042868838400 i_1^5 a_2^2 a_3^6 Y^3 d_1 +$   
 $581197658849280000 i_1^6 a_2^2 a_3^5 Y^3 d_3 + 1569233678893056000 i_1^5 a_2^2 a_3^6 Y^3 d_1 - 13948743812382720000 i_1^4 a_2^4 a_3^5 Y^3 d_3 -$   
 $4707701036679168000 i_1^3 a_2^2 a_3^8 Y^3 d_1 - 96293884841164800 i_1^6 a_2^2 a_3^3 Y^5 c_3 - 96293884841164800 i_1^6 a_2 a_3^6 Y^5 c_2 +$   
 $11105581261691289600 i_1^6 a_2^4 a_3^8 T^7 + 1388197657711412000 i_1^6 a_2^2 a_3^10 T^7 + 74037208411275264000 i_1^4 a_2^6 a_3^8 T^7 -$   
 $333167437507336888000 i_1^4 a_2^4 a_3^10 T^7 + 98716277881700352000 i_1^2 a_2^10 a_3^6 T^7 - 888446500935303168000 i_1^2 a_2^8 a_3^8 T^7 +$   
 $1999047827104432128000 i_1^2 a_2^6 a_3^10 T^7 + 130143530410444800 i_1^8 a_2^2 a_3^8 T^9 - 115526618093977600 i_1^8 a_2^2 a_3^6 Y^7 +$   
 $6933159708563865600 i_1^8 a_2^2 a_3^8 Y^7 + 18488425889503641600 i_1^6 a_2^6 a_3^6 Y^7 - 83197916502766387200 i_1^6 a_2^4 a_3^8 Y^7 -$   
 $103997395628457984000 i_1^6 a_2^2 a_3^10 Y^7 - 554652776685109248000 i_1^4 a_2^6 a_3^8 Y^7 + 2495937495082991616000 i_1^4 a_2^4 a_3^10 Y^7 -$   
 $739537035580145664000 i_1^2 a_2^10 a_3^6 Y^7 + 665583320221310976000 i_1^2 a_2^8 a_3^8 Y^7 - 14975624970497949696000 i_1^2 a_2^6 a_3^10 Y^7 +$   
 $1877730754402713600 i_1^10 a_2^2 a_3^6 Y^5 - 112663845264162816000 i_1^8 a_2^2 a_3^8 Y^5 - 300436920704434176000 i_1^6 a_2^6 a_3^6 Y^5 +$   
 $1351966143169953792000 i_1^6 a_2^4 a_3^8 Y^5 + 1689957678962442240000 i_1^6 a_2^2 a_3^10 Y^5 + 9013107621133025280000 i_1^4 a_2^6 a_3^8 Y^5 -$   
 $40558894295098613760000 i_1^4 a_2^4 a_3^10 Y^5 + 12017476828177367040000 i_1^2 a_2^10 a_3^6 Y^5 - 108157291453596303360000 i_1^2 a_2^8 a_3^8 Y^5 +$   
 $243353905770591682560000 i_1^2 a_2^6 a_3^10 Y^5 - 577763309046988800 i_1^10 a_2^2 a_3^6 Y^3 + 34665798542819328000 i_1^8 a_2^2 a_3^8 Y^3 +$   
 $92442129447518208000 i_1^6 a_2^6 a_3^6 Y^3 - 415989582513831936000 i_1^6 a_2^4 a_3^8 Y^3 - 519986978142289920000 i_1^6 a_2^2 a_3^10 Y^3 -$   
 $2773263883425546240000 i_1^4 a_2^6 a_3^8 Y^3 + 12479687475414958080000 i_1^4 a_2^4 a_3^10 Y^3 - 3697685177900728320000 i_1^2 a_2^10 a_3^6 Y^3 +$   
 $33279166601106554880000 i_1^2 a_2^8 a_3^8 Y^3 - 74878124852489748480000 i_1^2 a_2^6 a_3^10 Y^3 + 288881654523494400 i_1^10 a_2^2 a_3^6 Y^9 -$   
 $1733289927140966400 i_1^8 a_2^2 a_3^8 Y^9 - 4622106472375910400 i_1^6 a_2^6 a_3^6 Y^9 + 20799479125691596800 i_1^6 a_2^4 a_3^8 Y^9 +$   
 $25999348907114496000 i_1^6 a_2^2 a_3^10 Y^9 + 138663194171277312000 i_1^4 a_2^6 a_3^8 Y^9 - 623984373770747904000 i_1^4 a_2^4 a_3^10 Y^9 +$   
 $184884258895036416000 i_1^2 a_2^10 a_3^6 Y^9 - 1663958330055327744000 i_1^2 a_2^8 a_3^8 Y^9 + 3743906242624487424000 i_1^2 a_2^6 a_3^10 Y^9 -$   
 $2169058840174080 i_1^10 a_2^2 a_3^6 T^9 + 347049414427852800 i_1^8 a_2^2 a_3^8 T^9 - 1561722364925337600 i_1^6 a_2^4 a_3^8 T^9 -$   
 $1952152956156672000 i_1^6 a_2^2 a_3^10 T^9 - 10411482432835584000 i_1^4 a_2^6 a_3^8 T^9 + 46851670947760128000 i_1^4 a_2^4 a_3^10 T^9 -$   
 $1388197657711412000 i_1^2 a_2^10 a_3^6 T^9 + 124937789194027008000 i_1^2 a_2^8 a_3^8 T^9 - 281110025686560768000 i_1^2 a_2^6 a_3^10 T^9 +$   
 $15424418419015680 i_1^10 a_2^2 a_3^6 T^7 - 925465105140940800 i_1^8 a_2^2 a_3^8 T^7 - 2467906947042508800 i_1^6 a_2^6 a_3^6 T^7 +$   
 $3611020681543680000 i_1^4 a_2^4 a_3^5 d_3 T^4 + 1218719480020992000 i_1^3 a_2^2 a_3^8 d_1 T^4 - 21666124089262080000 i_1^2 a_2^6 a_3^5 d_3 T^4 -$   
 $8124796533473280000 i_1^2 a_2^5 a_3^6 d_2 T^4 + 406239826673664000 i_1^5 a_2^2 a_3^6 c_1 T^4 - 3611020681543680000 i_1^4 a_2^4 a_3^5 c_3 T^4 -$   
 $3249918613389312000 i_1^4 a_2^6 a_3^6 c_1 T^4 + 14624633760251904000 i_1^4 a_2^4 a_3^8 c_1 T^4 + 36561584400629760000 i_1^2 a_2^3 a_3^8 d_2 T^4 -$   
 $637542627985981440000 i_1^6 a_2^2 a_3^10 Y^2 T^4$   
 $d(X, Y, T) = -2149908480 a_1 a_2^5 a_3^3 X^6 - 806215680 a_1^3 a_2 a_3^5 X^6 + 26873856 a_1^5 a_2 a_3^3 X^6 + 9674588160 a_1 a_2^3 a_3^5 X^6 +$   
 $38698352640 i_1 a_2^3 a_3^5 X^5 + 120932352 a_1^5 a_2 a_3^3 T X^5 + 12899450880 Y a_1 a_2^5 a_3^3 X^5 - 58047528960 Y a_1 a_2^3 a_3^5 X^5 -$   
 $3627970560 i_1^3 a_2 a_3^5 T X^5 - 161243136 Y a_1^5 a_2 a_3^3 X^5 - 3224862720 i_1^3 a_2 a_3^5 X^5 - 8599633920 i_1 a_1 a_2^5 a_3^3 X^5 +$

$$\begin{aligned}
& 43535646720 a_1 a_2^3 a_3^5 T X^5 + 4837294080 Y a_1^3 a_2 a_3^5 X^5 + 107495424 i a_1^5 a_2 a_3^3 X^5 - 9674588160 a_1 a_2^5 a_3^3 T X^5 - \\
& 193491763200 i Y a_1 a_2^3 a_3^5 X^4 + 10749542400 a_1 a_2^5 a_3^3 X^4 + 48372940800 Y a_1 a_2^5 a_3^3 T X^4 - 32248627200 Y^2 a_1 a_2^5 a_3^3 X^4 - \\
& 134369280 a_1^5 a_2 a_3^3 X^4 - 537477120 i Y a_1^5 a_2 a_3^3 X^4 - 12093235200 i a_1^3 a_2 a_3^5 X^4 T + 16124313600 i Y a_1^2 a_2^5 a_3^3 X^4 - \\
& 48372940800 a_1 a_2^3 a_3^5 X^4 - 18139852800 a_1 a_2^5 a_3^3 T X^4 + 145118822400 i a_1 a_2^3 a_3^5 T X^4 + 403107840 Y a_1^2 a_2^5 a_3^3 X^4 + \\
& 403107840 i a_1^5 a_2 a_3^3 T X^4 + 226748160 a_1^5 a_2 a_3^3 T^2 X^4 - 217678233600 Y a_1 a_2^3 a_3^5 T X^4 - 32248627200 i a_1 a_2^5 a_3^3 X^4 T - \\
& 604661760 Y a_1^5 a_2 a_3^3 T X^4 - 12093235200 Y^2 a_1^3 a_2 a_3^5 X^4 + 42998169600 i Y a_1 a_2^5 a_3^3 X^4 + 18139852800 Y a_1^3 a_2 a_3^5 T X^4 + \\
& 4031078400 a_1^3 a_2 a_3^5 X^4 - 6802444800 a_1^3 a_2 a_3^5 T^2 X^4 + 145118822400 Y^2 a_1 a_2^3 a_3^5 X^4 + 81629337600 a_1 a_2^3 a_3^5 T^2 X^4 - \\
& 537477120 Y^3 a_1^5 a_2 a_3^3 X^3 + 32248627200 a_1 a_2^5 a_3^3 T X^3 + 226748160 a_1^5 a_2 a_3^3 T^3 X^3 + 72559411200 Y a_1 a_2^5 a_3^3 T^2 X^3 + \\
& 27209779200 Y a_1^3 a_2 a_3^5 T^2 X^3 - 18139852800 a_1 a_2^5 a_3^3 T^3 X^3 - 96745881600 Y^2 a_1 a_2^5 a_3^3 T X^3 + 48372940800 i Y a_1^3 a_2 a_3^5 T X^3 + \\
& 42998169600 Y^3 a_1 a_2^5 a_3^3 X^3 - 48372940800 i a_1 a_2^5 a_3^3 X^3 T^2 + 12093235200 a_1^3 a_2 a_3^5 T X^3 - 64497254400 Y a_1 a_2^5 a_3^3 X^3 + \\
& 217678233600 i a_1 a_2^3 a_3^5 T^2 X^3 - 580475289600 i Y a_1 a_2^3 a_3^5 X^3 T + 435356467200 Y^2 a_1 a_2^3 a_3^5 T X^3 + 1209323520 Y a_1^5 a_2 a_3^3 T X^3 + \\
& 16124313600 Y^3 a_1^3 a_2 a_3^5 X^3 - 145118822400 a_1 a_2^3 a_3^5 T X^3 + 386983526400 i Y^2 a_1 a_2^3 a_3^5 X^3 - 906992640 Y a_1^5 a_2 a_3^3 T^2 X^3 - \\
& 403107840 a_1^5 a_2 a_3^3 T X^3 - 326517350400 Y a_1 a_2^3 a_3^5 T^2 X^3 + 290237644800 Y a_1 a_2^3 a_3^5 X^3 - 36279705600 Y^2 a_1^3 a_2 a_3^5 T X^3 + \\
& 12899458800 i Y a_1 a_2^5 a_3^3 T X^3 - 193491763200 Y^3 a_1 a_2^3 a_3^5 X^3 + 806215680 Y a_1^5 a_2 a_3^3 X^3 + 604661760 i a_1^5 a_2 a_3^3 T^2 X^3 - \\
& 16124313600 i Y a_1^5 a_2 a_3^3 X^3 T - 85996339200 i Y^2 a_1 a_2^3 a_3^5 X^3 + 6802444800 a_1^3 a_2 a_3^5 T X^3 - 24186470400 Y a_1^3 a_2 a_3^5 X^3 - \\
& 18139852800 i a_1^3 a_2 a_3^5 X^3 T^2 + 1074954240 i Y^2 a_1^5 a_2 a_3^3 X^3 + 81629337600 a_1 a_2^3 a_3^5 T^3 X^3 - 32248627200 i Y^2 a_1^3 a_2 a_3^5 X^3 + \\
& 36279705600 a_1 a_2^5 a_3^3 T^2 X^2 + 20407334400 Y a_1^3 a_2 a_3^5 T^3 X^2 - 1074954240 i Y^3 a_1^5 a_2 a_3^3 X^2 - 42998169600 i Y a_1 a_2^5 a_3^3 X^2 - \\
& 12093235200 Y^4 a_1^3 a_2 a_3^5 X^2 + 163258675200 i a_1 a_2^3 a_3^5 T^3 X^2 - 163258675200 a_1 a_2^3 a_3^5 T^2 X^2 + 128994508800 Y^2 a_1 a_2^5 a_3^3 X^2 - \\
& 580475289600 Y^2 a_1 a_2^3 a_3^5 X^2 - 386983526400 i Y^3 a_1 a_2^3 a_3^5 X^2 + 653034700800 Y a_1 a_2^3 a_3^5 T X^2 + 32248627200 i Y^3 a_1^3 a_2 a_3^5 X^2 + \\
& 127545840 a_1^5 a_2 a_3^3 T^4 X^2 + 54419558400 i Y a_1^3 a_2 a_3^5 T^2 X^2 + 48372940800 Y^2 a_1^3 a_2 a_3^5 X^2 + 870712934400 i Y^2 a_1 a_2^5 a_3^3 T X^2 - \\
& 244888012800 Y a_1 a_2^3 a_3^5 T^3 X^2 + 403107840 Y^4 a_1^5 a_2 a_3^3 X^2 + 96745881600 Y^3 a_1 a_2^3 a_3^5 T X^2 + 537477120 i Y a_1^5 a_2 a_3^3 X^2 + \\
& 36279705600 Y^3 a_1^3 a_2 a_3^5 T X^2 + 85996339200 i Y^3 a_1 a_2^5 a_3^3 X^2 + 54419558400 Y a_1 a_2^5 a_3^3 T^3 X^2 - 18139852800 i Y a_1^5 a_2 a_3^3 X^2 T^2 - \\
& 108839116800 Y^2 a_1 a_2^5 a_3^3 T^2 X^2 - 1612431360 Y^2 a_1^5 a_2 a_3^3 X^2 + 1813985280 Y a_1^5 a_2 a_3^3 T X^2 - 680244480 Y a_1^5 a_2 a_3^3 T^2 X^2 - \\
& 54419558400 Y a_1^3 a_2 a_3^5 T X^2 + 145118822400 i Y a_1 a_2^5 a_3^3 T^2 X^2 - 145118822400 Y a_1 a_2^5 a_3^3 T X^2 - 10203667200 a_1 a_2^5 a_3^3 T^4 X^2 - \\
& 193491763200 Y^2 a_1 a_2^5 a_3^3 X^2 T - 16124313600 i Y a_1^3 a_2 a_3^5 X^2 - 32248627200 Y^4 a_1 a_2^5 a_3^3 X^2 - 40814668800 Y^2 a_1^3 a_2 a_3^5 T^2 X^2 + \\
& 45916502400 a_1 a_2^3 a_3^5 T^4 X^2 - 13604889600 i a_1^3 a_2 a_3^5 X^2 T^3 + 453496320 i a_1^5 a_2 a_3^3 T^3 X^2 + 1360488960 Y^2 a_1^5 a_2 a_3^3 T^2 X^2 - \\
& 36279705600 i a_1 a_2^5 a_3^3 X^2 T^3 - 1209323520 Y^3 a_1^5 a_2 a_3^3 T X^2 + 13604889600 a_1^3 a_2 a_3^5 T^2 X^2 + 193491763200 i Y a_1 a_2^5 a_3^3 X^2 - \\
& 653034700800 i Y a_1 a_2^3 a_3^5 X^2 T^2 + 2418647040 i Y^2 a_1^5 a_2 a_3^3 T X^2 + 145118822400 Y^4 a_1 a_2^3 a_3^5 X^2 - 435356467200 Y^3 a_1 a_2^3 a_3^5 T X^2 + \\
& 489776025600 Y^2 a_1 a_2^3 a_3^5 T^2 X^2 - 4534963200 a_1^5 a_2 a_3^3 T^2 X^2 - 72559411200 i Y^2 a_1^3 a_2 a_3^5 X^2 T - 3826375200 a_1^3 a_2 a_3^5 T^4 X^2 - \\
& 24186470400 i Y a_1^3 a_2 a_3^5 X T + 61222003200 i a_1 a_2^3 a_3^5 T^4 X - 2418647040 Y^2 a_1^5 a_2 a_3^3 T X + 193491763200 i Y^4 a_1 a_2^3 a_3^5 X + \\
& 193491763200 Y^2 a_1 a_2^5 a_3^3 T X + 27209779200 i Y a_1^3 a_2 a_3^5 T^3 X - 18139852800 Y^4 a_1^3 a_2 a_3^5 T X + 199065600 i a_1 a_2^5 a_3^3 T^2 X + \\
& 6802444800 a_1^3 a_2 a_3^5 T^3 X + 290237644800 i Y a_1 a_2^3 a_3^5 T X - 199065600 i a_1 a_2^3 d_2 X - 42998169600 i Y a_1^2 a_2^5 a_3^3 X + \\
& 537477120 i Y^4 a_1^5 a_2 a_3^3 X - 580475289600 i Y^3 a_1 a_2^3 a_3^5 X T + 79626240 i a_2 a_3^3 d_1 X - 145118822400 i Y^2 a_1 a_2^5 a_3^3 X T^2 + \\
& 1360488960 Y a_1^5 a_2 a_3^3 T^2 X - 54419558400 i Y^2 a_1^3 a_2 a_3^5 X T^2 - 9830400 i a_1^3 a_2 d_3 X + 806215680 i Y a_1^5 a_2 a_3^3 T X - \\
& 117964800 i a_1^3 a_2^3 c_3 X - 91833004800 Y a_1 a_2^3 a_3^5 T^4 X - 326517350400 i Y a_1 a_2^3 a_3^5 T X^3 + 48372940800 i Y^3 a_1^3 a_2 a_3^5 T X - \\
& 16124313600 i Y^4 a_1^3 a_2 a_3^5 X - 48372940800 Y^4 a_1 a_2^5 a_3^3 T X - 906992640 i Y a_1^5 a_2 a_3^3 X T^3 + 32248627200 i Y^2 a_1^3 a_2 a_3^5 X + \\
& 9830400 i a_1^3 a_2 c_3 X + 85996339200 i Y^2 a_1 a_2^5 a_3^3 X + 27209779200 Y^3 a_1^3 a_2 a_3^5 T^2 X - 386983526400 i Y^2 a_1 a_2^3 a_3^5 X - \\
& 64497254400 i Y a_1 a_2^5 a_3^3 X T + 604661760 Y^4 a_1^5 a_2 a_3^3 T X + 1343692800 Y^3 a_1^5 a_2 a_3^3 X + 18139852800 a_1^5 a_2 a_3^3 X^3 + \\
& 217678233600 Y^4 a_1 a_2^3 a_3^5 T X - 54419558400 Y^2 a_1 a_2^5 a_3^3 T^3 X + 38263752 a_1^5 a_2 a_3^3 T^5 X + 20407334400 Y a_1 a_2^5 a_3^3 T^4 X + \\
& 680244480 Y^2 a_1^5 a_2 a_3^3 T^3 X - 870712934400 Y^2 a_1 a_2^3 a_3^5 T X - 906992640 Y^3 a_1^5 a_2 a_3^3 T^2 X + 653034700800 i Y^2 a_1 a_2^3 a_3^5 T^2 X - \\
& 255091680 Y a_1^5 a_2 a_3^3 T^4 X - 40814668800 Y a_1^3 a_2 a_3^5 T^2 X + 72559411200 Y^3 a_1 a_2^3 a_3^5 T^2 X - 108839116800 Y a_1 a_2^5 a_3^3 T^2 X + \\
& 7652750400 Y a_1^3 a_2 a_3^5 T^4 X + 128994508800 i Y^3 a_1 a_2^5 a_3^3 T X^2 - 1612431360 i Y^3 a_1^5 a_2 a_3^3 X T + 72559411200 Y^2 a_1^3 a_2 a_3^5 T X + \\
& 18139852800 i Y^2 a_1^5 a_2 a_3^3 T^2 X - 161243136 Y^5 a_1^5 a_2 a_3^3 X - 326517350400 Y^3 a_1 a_2^3 a_3^5 T^2 X + 48372940800 Y^5 a_1^3 a_2 a_3^5 T X + \\
& 12899450880 Y^5 a_1 a_2^5 a_3^3 X - 58047528960 Y^5 a_1 a_2^3 a_3^5 X - 13604889600 i a_1 a_2^5 a_3^3 X T^4 + 72559411200 i Y a_1 a_2^5 a_3^3 T^3 X - \\
& 79626240 i a_2 a_3^3 c_1 X + 117964800 i a_1 a_2^3 d_3 X + 489776025600 Y a_1 a_2^3 a_3^5 T^2 X - 3061100160 a_1 a_2^5 a_3^3 T^5 X + \\
& 48372940800 Y^3 a_1 a_2^3 a_3^5 X - 81629337600 a_1 a_2^3 a_3^5 T^3 X + 13774950720 a_1 a_2^3 a_3^5 T^5 X - 5101833600 i Y a_1^3 a_2 a_3^5 X T^4 - \\
& 1147912560 a_1^3 a_2 a_3^5 T^5 X - 226748160 a_1^5 a_2 a_3^3 T^3 X + 170061120 i a_1^5 a_2 a_3^3 T^4 X - 107495424000 Y^3 a_1 a_2^5 a_3^3 X + \\
& 244888012800 Y^2 a_1 a_2^3 a_3^5 T^3 X - 40310784000 Y^3 a_1^3 a_2 a_3^5 X - 20407334400 Y^2 a_1^3 a_2 a_3^5 T^3 X - 1074954240 i Y^2 a_1^5 a_2 a_3^3 X - \\
& 16124313600 i Y^3 a_1^3 a_2 a_3^5 + 78643200 a_1 a_2^3 c_3 + 3224862720 i Y^5 a_1^3 a_2 a_3^5 + 145118822400 i Y^4 a_1 a_2^3 a_3^5 T - \\
& 132710400 a_1 a_2^3 c_2 - 32248627200 i Y^4 a_1 a_2^5 a_3^3 T - 6553600 a_1^3 a_2 c_3 - 2149908480 Y^6 a_1 a_2^5 a_3^3 + 403107840 i Y^4 a_1^5 a_2 a_3^3 T - \\
& 79626240 i Y a_2 a_3^3 d_1 + 16124313600 Y^2 a_1^3 a_2 a_3^5 - 61222003200 i Y a_1 a_2^3 a_3^5 T^4 + 9674588160 Y^6 a_1 a_2^3 a_3^5 + \\
& 193491763200 i Y^3 a_1 a_2^3 a_3^5 + 48372940800 i Y^3 a_1 a_2^5 a_3^3 T^2 + 18139852800 i Y^3 a_1^3 a_2 a_3^5 T^2 - 193491763200 Y^2 a_1 a_2^5 a_3^3 T^2 X + \\
& 53084160 a_2 a_3^3 c_1 + 26873856 Y^6 a_1^5 a_2 a_3^3 - 806215680 Y^6 a_1^3 a_2 a_3^5 + 4782969 a_1^5 a_2 a_3^3 T^6 - 24186470400 i Y a_1 a_2^5 a_3^3 T^2 + \\
& 12093235200 Y^4 a_1^3 a_2 a_3^5 + 108839116800 i Y a_1 a_2^3 a_3^5 T^2 - 145118822400 Y^4 a_1 a_2^3 a_3^5 + 302330880 Y a_1^5 a_2 a_3^3 T^2 - \\
& 604661760 i Y^3 a_1^5 a_2 a_3^3 T^2 - 9069926400 i Y a_1^3 a_2 a_3^5 T^2 - 117964800 i Y a_1 a_2^3 d_3 - 217678233600 i Y^3 a_1 a_2^3 a_3^5 T^2 + \\
& 6553600 a_1^3 a_2 d_3 - 806215680 i Y^2 a_1^5 a_2 a_3^3 T + 340122240 Y a_1^5 a_2 a_3^3 T^3 + 24186470400 i Y^2 a_1^3 a_2 a_3^5 T - 10203667200 Y a_1^3 a_2 a_3^5 T^3 + \\
& 64497254400 i Y^2 a_1 a_2^5 a_3^3 T - 27209779200 Y a_1 a_2^5 a_3^3 T^3 - 290237644800 i Y^2 a_1 a_2^3 a_3^5 T + 12244006400 Y a_1 a_2^3 a_3^5 T^3 - \\
& 78643200 a_1 a_2^3 d_3 - 226748160 Y^3 a_1^5 a_2 a_3^3 T^3 + 132710400 a_1 a_2^3 d_2 + 6802444800 Y^3 a_1^3 a_2 a_3^5 T^3 - 53084160 a_2 a_3^3 d_1 - \\
& 12093235200 i Y^4 a_1^3 a_2 a_3^5 T - 170061120 i Y a_1^5 a_2 a_3^3 T^4 + 453496320 i Y^2 a_1^5 a_2 a_3^3 T^3 + 5101833600 i Y a_1^3 a_2 a_3^5 T^4 - \\
& 13604889600 i Y^2 a_1^3 a_2 a_3^5 T^3 + 13604889600 i Y a_1 a_2^5 a_3^3 T^4 - 537477120 Y^2 a_1^5 a_2 a_3^3 - 15305500800 a_1 a_2^3 a_3^5 T^4 + \\
& 42998169600 Y^2 a_1 a_2^5 a_3^3 + 1007769600 Y^3 a_1^5 a_2 a_3^3 T - 143489070 a_1^3 a_2 a_3^5 T^6 - 30233088000 Y^3 a_1^3 a_2 a_3^5 T - \\
& 3826375200 a_1 a_2^5 a_3^3 T^6 - 80621568000 Y^3 a_1 a_2^5 a_3^3 T + 1721868840 a_1 a_2^3 a_3^5 T^6 + 362797056000 Y^3 a_1 a_2^3 a_3^5 T + \\
& 18139852800 Y^3 a_1 a_2^3 a_3^5 T^3 + 9674588160 Y^5 a_1 a_2^5 a_3^3 T - 403107840 Y^4 a_1^5 a_2 a_3^3 - 43535646720 Y^5 a_1 a_2^3 a_3^5 T + \\
& 32248627200 Y^4 a_1 a_2^5 a_3^3 - 38263752 Y a_1^5 a_2 a_3^3 T^5 - 36279705600 i Y^2 a_1 a_2^5 a_3^3 T^3 + 1147912560 Y a_1^3 a_2 a_3^5 T^5 + \\
& 163258675200 i Y^2 a_1 a_2^3 a_3^5 T^3 + 3061100160 Y a_1 a_2^5 a_3^3 T^5 + 199065600 i Y a_1 a_2^3 d_2 - 13774950720 Y a_1 a_2^3 a_3^5 T^5 + \\
& 79626240 i Y a_2 a_3^3 c_1 - 906992640 Y^2 a_1^5 a_2 a_3^3 T^2 + 537477120 i Y^3 a_1^5 a_2 a_3^3 + 27209779200 Y^2 a_1^3 a_2 a_3^5 T^2 - \\
& 42998169600 i Y^3 a_1 a_2^5 a_3^3 + 72559411200 Y^2 a_1 a_2^5 a_3^3 T^2 - 107495424 i Y^5 a_1^5 a_2 a_3^3 - 326517350400 Y^2 a_1 a_2^3 a_3^5 T^2 + \\
& 8599633920 i Y^5 a_1 a_2^5 a_3^3 - 38698352640 i Y^5 a_1 a_2^3 a_3^5 - 9830400 i Y a_1^3 a_2 c_3 + 9830400 i Y a_1^3 a_2 d_3 + 117964800 i Y a_1 a_2^3 c_3 - \\
& 42515280 a_1^5 a_2 a_3^3 T^4 + 25509168 i a_1^5 a_2 a_3^3 T^5 + 1275458400 a_1^3 a_2 a_3^5 T^4 - 765275040 i a_1^3 a_2 a_3^5 T^5 + 3401222400 a_1 a_2^5 a_3^3 T^4 - \\
& 2040733440 i a_1 a_2^5 a_3^3 T^5 + 226748160 Y^4 a_1^5 a_2 a_3^3 T^2 + 9183300480 i a_1 a_2^3 a_3^5 T^5 - 6802444800 Y^4 a_1^3 a_2 a_3^5 T^2 +
\end{aligned}$$

$$\begin{aligned}
& 149299200 i a_1 a_3^3 c_2 T - 18139852800 Y^4 a_1 a_2^5 a_3^3 T^2 - 149299200 i a_1 a_3^3 d_2 T + 81629337600 Y^4 a_1 a_2^3 a_3^5 T^2 - \\
& 59719680 i a_2 a_3^3 c_1 T - 120932352 Y^5 a_1^5 a_2 a_3^3 T + 59719680 i a_2 a_3^3 d_1 T + 3627970560 Y^5 a_1^3 a_2 a_3^5 T + 7372800 i a_1^3 a_2 c_3 T - \\
& 81629337600 Y^3 a_1 a_2^3 a_3^5 T^3 - 7372800 i a_1^3 a_2 d_3 T - 10203667200 Y^2 a_1 a_2^5 a_3^3 T^4 - 88473600 i a_1 a_2^3 c_3 T + 45916502400 Y^2 a_1 a_2^3 a_3^5 T^4 + \\
& 88473600 i a_1 a_2^3 d_3 T + 127545840 Y^2 a_1^5 a_2 a_3^3 T^4 - 199065600 i Y a_1 a_3^3 c_2 - 3826375200 Y^2 a_1^3 a_2 a_3^5 T^4
\end{aligned}$$