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[> with(LinearAlgebra) :
[> interface(rtablesiz = 40) :
[>
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Minimal systems extend 8

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KR + O <--> KR_O --> KR + Op
KT + O <--> KT_O --> KT + Op
P + Op <--> P_Op --> P + O
KR <--> KT
KR_O <--> KT_O
```

$$K^R + S \rightleftharpoons K^R S \rightarrow K^R + S_p$$

$$K^T + S \rightleftharpoons K^T S \rightarrow K^T + S_p$$

$$P + S_p \rightleftharpoons P S_p \rightarrow P + S$$

$$K^R \rightleftharpoons K^T$$

$$K^R S \rightleftharpoons K^T S$$

The species are {O (1), Op (2), KR (3), KT (4), KR_O (5), KT_O (6), P (7), P_Op (8)}

13 reactions and 8 species are in the reaction network.

Construction of mass-action ODE system with stoichiometric matrix A, and the vector of rates "ks"

$dx/dt = A.ks$

the steady state are when $A.ks = 0$.

Stoichiometric matrix A:

```
[> A := Matrix(13, 8) :
[> A[1, 1] := -1 : A[1, 3] := -1 : A[1, 5] := 1 : A[2] := -A[1] :
[> A[3, 2] := 1 : A[3, 3] := 1 : A[3, 5] := -1 :
[> A[4, 1] := -1 : A[4, 4] := -1 : A[4, 6] := 1 : A[5] := -A[4] :
[> A[6, 2] := 1 : A[6, 4] := 1 : A[6, 6] := -1 :
[> A[7, 2] := -1 : A[7, 7] := -1 : A[7, 8] := 1 : A[8] := -A[7] :
[> A[9, 1] := 1 : A[9, 7] := 1 : A[9, 8] := -1 :
[> A[10, 3] := -1 : A[10, 4] := 1 : A[11] := -A[10] :
[> A[12, 5] := -1 : A[12, 6] := 1 : A[13] := -A[12] :
[> A := Transpose(A)
```

$$A := \begin{bmatrix} -1 & 1 & 0 & -1 & 1 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 1 & -1 & 1 & 0 & 0 & 0 & 0 & 0 \\ -1 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & -1 & 1 & 0 & 0 \\ 0 & 0 & 0 & -1 & 1 & 1 & 0 & 0 & 0 & 1 & -1 & 0 & 0 \\ 1 & -1 & -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \\ 0 & 0 & 0 & 1 & -1 & -1 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 1 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -1 & -1 & 0 & 0 & 0 & 0 \end{bmatrix} \quad (1)$$

Vector of rates:

here x_i is the concentration of the i -th species

$$\begin{aligned} & \text{ks} := \text{Vector}([k[1] \cdot x[3] \cdot x_1, k_2 \cdot x_5, k_3 \cdot x_5, k_4 \cdot x_4 \cdot x_1, k_5 \cdot x_6, k_6 \cdot x_6, k_7 \cdot x_7 \cdot x_2, k_8 \cdot x_8, k_9 \cdot x_8, k_{10} \cdot x_3, \\ & \quad k_{11} \cdot x_4, k_{12} \cdot x_5, k_{13} \cdot x_6]) : \\ & \text{ks} := \text{Vector}([k[1] \cdot x[3] \cdot x[1], k[2] \cdot x[5], k[3] \cdot x[5], k[4] \cdot x[4] \cdot x[1], k[5] \cdot x[6], k[6] \cdot x[6], \\ & \quad k[7] \cdot x[7] \cdot x[2], k[8] \cdot x[8], k[9] \cdot x[8], k[10] \cdot x[3], k[11] \cdot x[4], k[12] \cdot x[5], k[13] \cdot x[6]]) : \end{aligned}$$

Steady state equations:

$$\begin{aligned} & \text{eqs} := A \cdot \text{ks} \\ & \text{eqs} := \begin{bmatrix} -k_1 x_1 x_3 - k_4 x_1 x_4 + k_2 x_5 + k_5 x_6 + k_9 x_8 \\ -k_7 x_2 x_7 + k_3 x_5 + k_6 x_6 + k_8 x_8 \\ -k_1 x_1 x_3 + k_2 x_5 + k_3 x_5 - k_{10} x_3 + k_{11} x_4 \\ -k_4 x_1 x_4 + k_5 x_6 + k_6 x_6 + k_{10} x_3 - k_{11} x_4 \\ k_1 x_1 x_3 - k_2 x_5 - k_3 x_5 - k_{12} x_5 + k_{13} x_6 \\ k_4 x_1 x_4 - k_5 x_6 - k_6 x_6 + k_{12} x_5 - k_{13} x_6 \\ -k_7 x_2 x_7 + k_8 x_8 + k_9 x_8 \\ k_7 x_2 x_7 - k_8 x_8 - k_9 x_8 \end{bmatrix} \quad (2) \end{aligned}$$

Conservation laws:

This system has total amount of kinase and total amount of substrate conserved:

$$\begin{aligned}
 & \text{> } F := \text{ReducedRowEchelonForm}(\text{Transpose}(\text{Matrix}([\text{op}(\text{NullSpace}(\text{Transpose}(A)))]))) \\
 & F := \begin{bmatrix} 1 & 1 & 0 & 0 & 1 & 1 & 0 & 1 \\ 0 & 0 & 1 & 1 & 1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 1 \end{bmatrix}
 \end{aligned} \tag{3}$$

the conservation laws are:

$$x_1 + x_2 + x_5 + x_6 + x_8 - T_1, x_3 + x_4 + x_5 + x_6 - T_2, x_7 + x_8 - T_3$$

Therefore, steady states constrained by the conservation laws are solutions to $eqs2 = 0$

$$\begin{aligned}
 & \text{> } eqs2 := [eqs[2], eqs[4], eqs[5], eqs[6], eqs[8], x[1] + x[2] + x[5] + x[6] + x[8] - T_1, x[3] \\
 & \quad + x[4] + x[5] + x[6] - T_2, x[7] + x[8] - T_3] \\
 & eqs2 := [-k_7 x_2 x_7 + k_3 x_5 + k_6 x_6 + k_8 x_8, -k_4 x_1 x_4 + k_5 x_6 + k_6 x_6 + k_{10} x_3 - k_{11} x_4, k_1 x_1 x_3 \\
 & \quad - k_2 x_5 - k_3 x_5 - k_{12} x_5 + k_{13} x_6, k_4 x_1 x_4 - k_5 x_6 - k_6 x_6 + k_{12} x_5 - k_{13} x_6, k_7 x_2 x_7 \\
 & \quad - k_8 x_8 - k_9 x_8, x_1 + x_2 + x_5 + x_6 + x_8 - T_1, x_3 + x_4 + x_5 + x_6 - T_2, x_7 + x_8 - T_3]
 \end{aligned} \tag{4}$$

By now, we just need to solve the equations of $myeqs = 0$

Based on the method provide, I try to solve the system to get kinetic values.
(NB: x_i is different from $x[i]$, took me hours to find where went wrong!!!)

$$\begin{aligned}
 & \text{> } Jac := \text{VectorCalculus}[\text{Jacobian}](eqs2, [seq(x_i, i = 1..8)]) \\
 & Jac := \\
 & \quad \begin{bmatrix} 0, -k_7 x_7, 0, 0, k_3, k_6, -k_7 x_2, k_8, \\ -k_4 x_4, 0, k_{10}, -k_4 x_1 - k_{11}, 0, k_5 + k_6, 0, 0, \\ k_1 x_3, 0, k_1 x_1, 0, -k_2 - k_3 - k_{12}, k_{13}, 0, 0, \\ k_4 x_4, 0, 0, k_4 x_1, k_{12}, -k_5 - k_6 - k_{13}, 0, 0, \\ 0, k_7 x_7, 0, 0, 0, 0, k_7 x_2, -k_8 - k_9, \\ 1, 1, 0, 0, 1, 1, 0, 1, \\ 0, 0, 1, 1, 1, 1, 0, 0, \\ 0, 0, 0, 0, 0, 0, 1, 1 \end{bmatrix} \\
 & \text{> } \text{Determinant}(Jac) :
 \end{aligned} \tag{5}$$

> $det := collect(\%, \{seq(x[i], i = 1..8)\}, 'distributed')$

$$\begin{aligned}
 det := & (-k_1 k_4 k_7 k_9 k_{12} - k_1 k_4 k_7 k_9 k_{13}) x_1^2 x_7 + (-k_1 k_3 k_4 k_7 k_{10} - k_1 k_3 k_4 k_7 k_{13} \\
 & + k_1 k_4 k_6 k_7 k_{10} - k_1 k_4 k_6 k_7 k_{12}) x_1 x_2 x_3 + (k_1 k_3 k_4 k_7 k_{11} - k_1 k_3 k_4 k_7 k_{13} \\
 & - k_1 k_4 k_6 k_7 k_{11} - k_1 k_4 k_6 k_7 k_{12}) x_1 x_2 x_4 + (-k_1 k_3 k_4 k_7 k_{10} - k_1 k_3 k_4 k_7 k_{13} \\
 & + k_1 k_4 k_6 k_7 k_{10} - k_1 k_4 k_6 k_7 k_{12} - k_1 k_4 k_7 k_9 k_{12} - k_1 k_4 k_7 k_9 k_{13}) x_1 x_3 x_7 + (\\
 & -k_1 k_3 k_4 k_8 k_{10} - k_1 k_3 k_4 k_8 k_{13} - k_1 k_3 k_4 k_9 k_{10} - k_1 k_3 k_4 k_9 k_{13} + k_1 k_4 k_6 k_8 k_{10} \\
 & - k_1 k_4 k_6 k_8 k_{12} + k_1 k_4 k_6 k_9 k_{10} - k_1 k_4 k_6 k_9 k_{12}) x_1 x_3 + (k_1 k_3 k_4 k_7 k_{11} \\
 & - k_1 k_3 k_4 k_7 k_{13} - k_1 k_4 k_6 k_7 k_{11} - k_1 k_4 k_6 k_7 k_{12} - k_1 k_4 k_7 k_9 k_{12} - k_1 k_4 k_7 k_9 k_{13}) \\
 & x_1 x_4 x_7 + (k_1 k_3 k_4 k_8 k_{11} - k_1 k_3 k_4 k_8 k_{13} + k_1 k_3 k_4 k_9 k_{11} - k_1 k_3 k_4 k_9 k_{13} \\
 & - k_1 k_4 k_6 k_8 k_{11} - k_1 k_4 k_6 k_8 k_{12} - k_1 k_4 k_6 k_9 k_{11} - k_1 k_4 k_6 k_9 k_{12}) x_1 x_4 + (\\
 & -k_1 k_5 k_7 k_9 k_{11} - k_1 k_5 k_7 k_9 k_{12} - k_1 k_6 k_7 k_9 k_{11} - k_1 k_6 k_7 k_9 k_{12} - k_1 k_7 k_9 k_{11} k_{12} \\
 & - k_1 k_7 k_9 k_{11} k_{13} - k_2 k_4 k_7 k_9 k_{10} - k_2 k_4 k_7 k_9 k_{13} - k_3 k_4 k_7 k_9 k_{10} - k_3 k_4 k_7 k_9 k_{13} \\
 & - k_4 k_7 k_9 k_{10} k_{12} - k_4 k_7 k_9 k_{10} k_{13}) x_1 x_7 + (-k_1 k_3 k_5 k_7 k_{10} - k_1 k_3 k_5 k_7 k_{11} \\
 & - k_1 k_3 k_6 k_7 k_{10} - k_1 k_3 k_6 k_7 k_{11} - k_1 k_3 k_7 k_{10} k_{13} - k_1 k_3 k_7 k_{11} k_{13} - k_1 k_6 k_7 k_{10} k_{12} \\
 & - k_1 k_6 k_7 k_{11} k_{12}) x_2 x_3 + (-k_2 k_4 k_6 k_7 k_{10} - k_2 k_4 k_6 k_7 k_{11} - k_3 k_4 k_6 k_7 k_{10} \\
 & - k_3 k_4 k_6 k_7 k_{11} - k_3 k_4 k_7 k_{10} k_{13} - k_3 k_4 k_7 k_{11} k_{13} - k_4 k_6 k_7 k_{10} k_{12} - k_4 k_6 k_7 k_{11} k_{12}) \\
 & x_2 x_4 + (-k_1 k_3 k_5 k_7 k_{10} - k_1 k_3 k_5 k_7 k_{11} - k_1 k_3 k_6 k_7 k_{10} - k_1 k_3 k_6 k_7 k_{11} \\
 & - k_1 k_3 k_7 k_{10} k_{13} - k_1 k_3 k_7 k_{11} k_{13} - k_1 k_5 k_7 k_9 k_{10} - k_1 k_5 k_7 k_9 k_{11} - k_1 k_6 k_7 k_9 k_{10} \\
 & - k_1 k_6 k_7 k_9 k_{11} - k_1 k_6 k_7 k_{10} k_{12} - k_1 k_6 k_7 k_{11} k_{12} - k_1 k_7 k_9 k_{10} k_{12} - k_1 k_7 k_9 k_{10} k_{13} \\
 & - k_1 k_7 k_9 k_{11} k_{12} - k_1 k_7 k_9 k_{11} k_{13}) x_3 x_7 + (-k_1 k_3 k_5 k_8 k_{10} - k_1 k_3 k_5 k_8 k_{11} \\
 & - k_1 k_3 k_5 k_9 k_{10} - k_1 k_3 k_5 k_9 k_{11} - k_1 k_3 k_6 k_8 k_{10} - k_1 k_3 k_6 k_8 k_{11} - k_1 k_3 k_6 k_9 k_{10} \\
 & - k_1 k_3 k_6 k_9 k_{11} - k_1 k_3 k_8 k_{10} k_{13} - k_1 k_3 k_8 k_{11} k_{13} - k_1 k_3 k_9 k_{10} k_{13} - k_1 k_3 k_9 k_{11} k_{13} \\
 & - k_1 k_6 k_8 k_{10} k_{12} - k_1 k_6 k_8 k_{11} k_{12} - k_1 k_6 k_9 k_{10} k_{12} - k_1 k_6 k_9 k_{11} k_{12}) x_3 + (\\
 & -k_2 k_4 k_6 k_7 k_{10} - k_2 k_4 k_6 k_7 k_{11} - k_2 k_4 k_7 k_9 k_{10} - k_2 k_4 k_7 k_9 k_{11} - k_3 k_4 k_6 k_7 k_{10} \\
 & - k_3 k_4 k_6 k_7 k_{11} - k_3 k_4 k_7 k_9 k_{10} - k_3 k_4 k_7 k_9 k_{11} - k_3 k_4 k_7 k_{10} k_{13} - k_3 k_4 k_7 k_{11} k_{13} \\
 & - k_4 k_6 k_7 k_{10} k_{12} - k_4 k_6 k_7 k_{11} k_{12} - k_4 k_7 k_9 k_{10} k_{12} - k_4 k_7 k_9 k_{10} k_{13} - k_4 k_7 k_9 k_{11} k_{12} \\
 & - k_4 k_7 k_9 k_{11} k_{13}) x_4 x_7 + (-k_2 k_4 k_6 k_8 k_{10} - k_2 k_4 k_6 k_8 k_{11} - k_2 k_4 k_6 k_9 k_{10} \\
 & - k_2 k_4 k_6 k_9 k_{11} - k_3 k_4 k_6 k_8 k_{10} - k_3 k_4 k_6 k_8 k_{11} - k_3 k_4 k_6 k_9 k_{10} - k_3 k_4 k_6 k_9 k_{11} \\
 & - k_3 k_4 k_8 k_{10} k_{13} - k_3 k_4 k_8 k_{11} k_{13} - k_3 k_4 k_9 k_{10} k_{13} - k_3 k_4 k_9 k_{11} k_{13} - k_4 k_6 k_8 k_{10} k_{12} \\
 & - k_4 k_6 k_8 k_{11} k_{12} - k_4 k_6 k_9 k_{10} k_{12} - k_4 k_6 k_9 k_{11} k_{12}) x_4 + (-k_2 k_5 k_7 k_9 k_{10} \\
 & - k_2 k_5 k_7 k_9 k_{11} - k_2 k_6 k_7 k_9 k_{10} - k_2 k_6 k_7 k_9 k_{11} - k_2 k_7 k_9 k_{10} k_{13} - k_2 k_7 k_9 k_{11} k_{13}
 \end{aligned}
 \tag{6}$$

$$\begin{aligned}
& -k_3 k_5 k_7 k_9 k_{10} - k_3 k_5 k_7 k_9 k_{11} - k_3 k_6 k_7 k_9 k_{10} - k_3 k_6 k_7 k_9 k_{11} - k_3 k_7 k_9 k_{10} k_{13} \\
& - k_3 k_7 k_9 k_{11} k_{13} - k_5 k_7 k_9 k_{10} k_{12} - k_5 k_7 k_9 k_{11} k_{12} - k_6 k_7 k_9 k_{10} k_{12} \\
& - k_6 k_7 k_9 k_{11} k_{12}) x_7
\end{aligned}$$

>

Now, (finally) we have the determinant, we need to solve the *eqs2*.

$$\begin{aligned}
& \text{sol} := \text{solve}([eqs2[2], eqs2[3], eqs2[4], eqs2[5], eqs2[1]], [x[2], x[4], x[5], x[6], x[8]]) \\
& \text{sol} := \left[\begin{aligned}
& x_2 = \left((k_8 + k_9) (k_1 k_3 k_4 k_{13} x_1 + k_1 k_4 k_6 k_{12} x_1 + k_1 k_3 k_5 k_{11} + k_1 k_3 k_6 k_{11} \right. \\
& + k_1 k_3 k_{11} k_{13} + k_1 k_6 k_{11} k_{12} + k_2 k_4 k_6 k_{10} + k_3 k_4 k_6 k_{10} + k_3 k_4 k_{10} k_{13} \\
& + k_4 k_6 k_{10} k_{12}) x_1 x_3 \Big) / \left(k_9 (k_2 k_4 k_{13} x_1 + k_3 k_4 k_{13} x_1 + k_2 k_5 k_{11} + k_2 k_6 k_{11} \right. \\
& + k_2 k_{11} k_{13} + k_3 k_5 k_{11} + k_3 k_6 k_{11} + k_3 k_{11} k_{13} + k_5 k_{11} k_{12} + k_6 k_{11} k_{12}) x_7 k_7 \Big), x_4 \\
& = \left(x_3 (k_1 k_5 k_{12} x_1 + k_1 k_6 k_{12} x_1 + k_2 k_5 k_{10} + k_2 k_6 k_{10} + k_2 k_{10} k_{13} + k_3 k_5 k_{10} \right. \\
& + k_3 k_6 k_{10} + k_3 k_{10} k_{13} + k_5 k_{10} k_{12} + k_6 k_{10} k_{12}) \Big) / \left(k_2 k_4 k_{13} x_1 + k_3 k_4 k_{13} x_1 \right. \\
& + k_2 k_5 k_{11} + k_2 k_6 k_{11} + k_2 k_{11} k_{13} + k_3 k_5 k_{11} + k_3 k_6 k_{11} + k_3 k_{11} k_{13} + k_5 k_{11} k_{12} \\
& + k_6 k_{11} k_{12}) \Big), x_5 = \left(x_1 x_3 (k_1 k_4 k_{13} x_1 + k_1 k_5 k_{11} + k_1 k_6 k_{11} + k_1 k_{11} k_{13} \right. \\
& + k_4 k_{10} k_{13}) \Big) / \left(k_2 k_4 k_{13} x_1 + k_3 k_4 k_{13} x_1 + k_2 k_5 k_{11} + k_2 k_6 k_{11} + k_2 k_{11} k_{13} \right. \\
& + k_3 k_5 k_{11} + k_3 k_6 k_{11} + k_3 k_{11} k_{13} + k_5 k_{11} k_{12} + k_6 k_{11} k_{12}) \Big), x_6 = \left((k_1 k_4 k_{12} x_1 \right. \\
& + k_1 k_{11} k_{12} + k_2 k_4 k_{10} + k_3 k_4 k_{10} + k_4 k_{10} k_{12}) x_1 x_3 \Big) / \left(k_2 k_4 k_{13} x_1 + k_3 k_4 k_{13} x_1 \right. \\
& + k_2 k_5 k_{11} + k_2 k_6 k_{11} + k_2 k_{11} k_{13} + k_3 k_5 k_{11} + k_3 k_6 k_{11} + k_3 k_{11} k_{13} + k_5 k_{11} k_{12} \\
& + k_6 k_{11} k_{12}) \Big), x_8 = \left((k_1 k_3 k_4 k_{13} x_1 + k_1 k_4 k_6 k_{12} x_1 + k_1 k_3 k_5 k_{11} + k_1 k_3 k_6 k_{11} \right.
\end{aligned} \right. \quad (7)
\end{aligned}$$

$$\begin{aligned}
& + k_1 k_3 k_{11} k_{13} + k_1 k_6 k_{11} k_{12} + k_2 k_4 k_6 k_{10} + k_3 k_4 k_6 k_{10} + k_3 k_4 k_{10} k_{13} \\
& + k_4 k_6 k_{10} k_{12}) x_1 x_3) / (k_9 (k_2 k_4 k_{13} x_1 + k_3 k_4 k_{13} x_1 + k_2 k_5 k_{11} + k_2 k_6 k_{11} \\
& + k_2 k_{11} k_{13} + k_3 k_5 k_{11} + k_3 k_6 k_{11} + k_3 k_{11} k_{13} + k_5 k_{11} k_{12} + k_6 k_{11} k_{12})))]
\end{aligned}$$

> *detsubs* := *subs(sol[1], det)* :

> *polsubs* := *numer(detsubs)* :

> *mypol* := *collect(polsubs, {x[1], x[3], x[7]}, 'distributed')* :

> *mypolFac* := *collect(polsubs, {x[1], x[3], x[7]}, 'distributed', factor)* :

> *mypolRecur* := *collect(polsubs, {x[1], x[3], x[7]}, 'recursive')* :

> *mypolRecurFac* := *collect(polsubs, {x[1], x[3], x[7]}, 'recursive', factor)* :

>

> *mypol*

$$\begin{aligned}
& k_7 \left(k_1^3 k_3^2 k_4^2 k_5 k_8 k_{11} k_{12} k_{13} - k_1^3 k_3^2 k_4^2 k_5 k_8 k_{12} k_{13}^2 + k_1^3 k_3^2 k_4^2 k_5 k_9 k_{11} k_{12} k_{13} - k_1^3 k_3^2 \right. \\
& k_4^2 k_5 k_9 k_{12} k_{13}^2 + k_1^3 k_3^2 k_4^2 k_6 k_8 k_{11} k_{12} k_{13} - k_1^3 k_3^2 k_4^2 k_6 k_8 k_{12} k_{13}^2 + k_1^3 k_3^2 \\
& k_4^2 k_6 k_9 k_{11} k_{12} k_{13} - k_1^3 k_3^2 k_4^2 k_6 k_9 k_{12} k_{13}^2 + k_1^3 k_3 k_4^2 k_5 k_6 k_8 k_{11} k_{12}^2 - k_1^3 k_3 \\
& k_4^2 k_5 k_6 k_8 k_{11} k_{12} k_{13} - 2 k_1^3 k_3 k_4^2 k_5 k_6 k_8 k_{12}^2 k_{13} + k_1^3 k_3 k_4^2 k_5 k_6 k_9 k_{11} k_{12}^2 - k_1^3 k_3 \\
& k_4^2 k_5 k_6 k_9 k_{11} k_{12} k_{13} - 2 k_1^3 k_3 k_4^2 k_5 k_6 k_9 k_{12}^2 k_{13} + k_1^3 k_3 k_4^2 k_6^2 k_8 k_{11} k_{12}^2 - k_1^3 k_3 k_4^2 \\
& k_6^2 k_8 k_{11} k_{12} k_{13} - 2 k_1^3 k_3 k_4^2 k_6^2 k_8 k_{12}^2 k_{13} + k_1^3 k_3 k_4^2 k_6^2 k_9 k_{11} k_{12}^2 - k_1^3 k_3 k_4^2 \\
& k_6^2 k_9 k_{11} k_{12} k_{13} - 2 k_1^3 k_3 k_4^2 k_6^2 k_9 k_{12}^2 k_{13} - k_1^3 k_4^2 k_5 k_6^2 k_8 k_{11} k_{12}^2 - k_1^3 k_4^2 k_5 k_6^2 k_8 k_{12}^2 - k_1^3 \\
& k_4^2 k_5 k_6^2 k_9 k_{11} k_{12}^2 - k_1^3 k_4^2 k_5 k_6^2 k_9 k_{12}^2 - k_1^3 k_4^2 k_6^2 k_8 k_{11} k_{12}^2 - k_1^3 k_4^2 k_6^2 k_8 k_{12}^2 - k_1^3 k_4^2 \\
& k_6^2 k_9 k_{11} k_{12}^2 - k_1^3 k_4^2 k_6^2 k_9 k_{12}^2 - k_1^2 k_2 k_3^2 k_4^2 k_8 k_{10} k_{13}^2 - k_1^2 k_2 k_3^2 k_4^2 k_8 k_{13}^3 - k_1^2 k_2 k_3^2 \\
& k_4^2 k_9 k_{10} k_{13}^2 - k_1^2 k_2 k_3^2 k_4^2 k_9 k_{13}^3 - k_1^2 k_2 k_3 k_4^2 k_6 k_8 k_{10} k_{12} k_{13} + k_1^2 k_2 k_3 k_4^2 k_6 k_8 k_{10} k_{13}^2 \\
& - 2 k_1^2 k_2 k_3 k_4^2 k_6 k_8 k_{12} k_{13}^2 - k_1^2 k_2 k_3 k_4^2 k_6 k_9 k_{10} k_{12} k_{13} + k_1^2 k_2 k_3 k_4^2 k_6 k_9 k_{10} k_{13}^2 - 2 \\
& k_1^2 k_2 k_3 k_4^2 k_6 k_9 k_{12} k_{13}^2 + k_1^2 k_2 k_3 k_4^2 k_6 k_8 k_{10} k_{12} k_{13} - k_1^2 k_2 k_3 k_4^2 k_6 k_8 k_{12} k_{13}^2 + k_1^2 k_2 k_3^2 \\
& k_6^2 k_9 k_{10} k_{12} k_{13} - k_1^2 k_2 k_3 k_4^2 k_6^2 k_9 k_{12}^2 k_{13} - k_1^2 k_3^2 k_4^2 k_8 k_{10} k_{13}^2 - k_1^2 k_3^2 k_4^2 k_8 k_{13}^3 - k_1^2 k_3^2 \\
& k_4^2 k_9 k_{10} k_{13}^2 - k_1^2 k_3^2 k_4^2 k_9 k_{13}^3 - k_1^2 k_3^2 k_4^2 k_6 k_8 k_{10} k_{12} k_{13} + k_1^2 k_3^2 k_4^2 k_6 k_8 k_{10} k_{13}^2 - 2 k_1^2 k_3^2 \\
& k_4^2 k_6 k_8 k_{12} k_{13}^2 - k_1^2 k_3^2 k_4^2 k_6 k_9 k_{10} k_{12} k_{13} + k_1^2 k_3^2 k_4^2 k_6 k_9 k_{10} k_{13}^2 - 2 k_1^2 k_3^2 k_4^2 k_6 k_9 k_{12} k_{13}^2 \\
& + k_1^2 k_3 k_4^2 k_6^2 k_8 k_{10} k_{12} k_{13} - k_1^2 k_3 k_4^2 k_6^2 k_8 k_{12}^2 k_{13} + k_1^2 k_3 k_4^2 k_6^2 k_9 k_{10} k_{12} k_{13} - k_1^2 k_3 k_4^2 \\
& k_6^2 k_9 k_{12}^2 k_{13}) x_1^4 x_3^2 + k_7 \left(-k_1 k_2^2 k_4^2 k_7 k_9^2 k_{12} k_{13}^2 - k_1 k_2^2 k_4^2 k_7 k_9^2 k_{13}^3 - 2 k_1 k_2 k_3 k_4^2 k_7 \right. \\
& k_9^2 k_{12} k_{13}^2 - 2 k_1 k_2 k_3 k_4^2 k_7 k_9^2 k_{13}^3 - k_1 k_2^2 k_4^2 k_7 k_9^2 k_{12} k_{13}^2 - k_1 k_2^2 k_4^2 k_7 k_9^2 k_{13}^3) x_1^4 x_7^2 + k_7 \left(\right. \\
& k_1^3 k_3^2 k_4^2 k_5^2 k_8 k_{11} k_{12} - k_1^3 k_3^2 k_4^2 k_5^2 k_8 k_{11} k_{12} k_{13} + k_1^3 k_3^2 k_4^2 k_5^2 k_9 k_{11} k_{12} - k_1^3 k_3^2 k_4^2
\end{aligned}$$

(8)

$$\begin{aligned}
& k_5^2 k_9 k_{11} k_{12} k_{13} + 2 k_1^3 k_3^2 k_4 k_5 k_6 k_8 k_{11}^2 k_{12} - 2 k_1^3 k_3^2 k_4 k_5 k_6 k_8 k_{11} k_{12} k_{13} + 2 k_1^3 \\
& k_3^2 k_4 k_5 k_6 k_9 k_{11}^2 k_{12} - 2 k_1^3 k_3^2 k_4 k_5 k_6 k_9 k_{11} k_{12} k_{13} + k_1^3 k_3^2 k_4 k_5 k_8 k_{11}^2 k_{12} k_{13} - k_1^3 \\
& k_3^2 k_4 k_5 k_8 k_{11} k_{12} k_{13}^2 + k_1^3 k_3^2 k_4 k_5 k_9 k_{11}^2 k_{12} k_{13} - k_1^3 k_3^2 k_4 k_5 k_9 k_{11} k_{12} k_{13}^2 + k_1^3 k_3^2 k_4 \\
& k_6^2 k_8 k_{11}^2 k_{12} - k_1^3 k_3^2 k_4 k_6^2 k_8 k_{11} k_{12} k_{13} + k_1^3 k_3^2 k_4 k_6^2 k_9 k_{11}^2 k_{12} - k_1^3 k_3^2 k_4 k_6^2 k_9 k_{11} k_{12} k_{13} \\
& + k_1^3 k_3^2 k_4 k_6 k_8 k_{11}^2 k_{12} k_{13} - k_1^3 k_3^2 k_4 k_6 k_8 k_{11} k_{12} k_{13}^2 + k_1^3 k_3^2 k_4 k_6 k_9 k_{11}^2 k_{12} k_{13} - k_1^3 \\
& k_3^2 k_4 k_6 k_9 k_{11} k_{12} k_{13}^2 - k_1^3 k_3 k_4 k_5^2 k_6 k_8 k_{11}^2 k_{12} - k_1^3 k_3 k_4 k_5^2 k_6 k_8 k_{11} k_{12}^2 - k_1^3 k_3 k_4 \\
& k_5^2 k_6 k_9 k_{11}^2 k_{12} - k_1^3 k_3 k_4 k_5^2 k_6 k_9 k_{11} k_{12}^2 - 2 k_1^3 k_3 k_4 k_5 k_6^2 k_8 k_{11}^2 k_{12} - 2 k_1^3 k_3 k_4 k_5 \\
& k_6^2 k_8 k_{11} k_{12}^2 - 2 k_1^3 k_3 k_4 k_5 k_6^2 k_9 k_{11}^2 k_{12} - 2 k_1^3 k_3 k_4 k_5 k_6^2 k_9 k_{11} k_{12}^2 + k_1^3 k_3 k_4 k_5 k_6 k_8 k_{11}^2 \\
& k_{12}^2 - k_1^3 k_3 k_4 k_5 k_6 k_8 k_{11}^2 k_{12} k_{13} - 2 k_1^3 k_3 k_4 k_5 k_6 k_8 k_{11} k_{12}^2 k_{13} + k_1^3 k_3 k_4 k_5 k_6 k_9 k_{11}^2 k_{12}^2 \\
& - k_1^3 k_3 k_4 k_5 k_6 k_9 k_{11}^2 k_{12} k_{13} - 2 k_1^3 k_3 k_4 k_5 k_6 k_9 k_{11} k_{12}^2 k_{13} - k_1^3 k_3 k_4 k_6^3 k_8 k_{11}^2 k_{12} - \\
& k_1^3 k_3 k_4 k_6^3 k_8 k_{11} k_{12}^2 - k_1^3 k_3 k_4 k_6^3 k_9 k_{11}^2 k_{12} - k_1^3 k_3 k_4 k_6^3 k_9 k_{11} k_{12}^2 + k_1^3 k_3 k_4 k_6^2 k_8 k_{11}^2 k_{12}^2 \\
& - k_1^3 k_3 k_4 k_6^2 k_8 k_{11} k_{12} k_{13} - 2 k_1^3 k_3 k_4 k_6^2 k_8 k_{11} k_{12}^2 k_{13} + k_1^3 k_3 k_4 k_6^2 k_9 k_{11}^2 k_{12}^2 - k_1^3 k_3 k_4 \\
& k_6^2 k_9 k_{11}^2 k_{12} k_{13} - 2 k_1^3 k_3 k_4 k_6^2 k_9 k_{11} k_{12}^2 k_{13} - k_1^3 k_4 k_5 k_6^2 k_8 k_{11}^2 k_{12}^2 - k_1^3 k_4 k_5 k_6^2 k_8 k_{11} \\
& k_{12}^2 - k_1^3 k_4 k_5 k_6^2 k_9 k_{11}^2 k_{12}^2 - k_1^3 k_4 k_5 k_6^2 k_9 k_{11} k_{12}^3 - k_1^3 k_4 k_6^3 k_8 k_{11}^2 k_{12}^2 - k_1^3 k_4 k_6^3 k_8 k_{11} k_{12}^3 \\
& - k_1^3 k_4 k_6^3 k_9 k_{11}^2 k_{12}^2 - k_1^3 k_4 k_6^3 k_9 k_{11} k_{12}^3 - k_1^2 k_2 k_3^2 k_4^2 k_5 k_8 k_{10} k_{11} k_{13} - 2 k_1^2 k_2 k_3^2 \\
& k_4^2 k_5 k_8 k_{10} k_{13}^2 - 3 k_1^2 k_2 k_3^2 k_4^2 k_5 k_8 k_{11} k_{13}^2 - k_1^2 k_2 k_3^2 k_4^2 k_5 k_9 k_{10} k_{11} k_{13} - 2 k_1^2 k_2 k_3^2 \\
& k_4^2 k_5 k_9 k_{10} k_{13}^2 - 3 k_1^2 k_2 k_3^2 k_4^2 k_5 k_9 k_{11} k_{13}^2 - k_1^2 k_2 k_3^2 k_4^2 k_6 k_8 k_{10} k_{11} k_{13} - 2 k_1^2 k_2 k_3^2 \\
& k_4^2 k_6 k_8 k_{10} k_{13}^2 - 3 k_1^2 k_2 k_3^2 k_4^2 k_6 k_8 k_{11} k_{13}^2 - k_1^2 k_2 k_3^2 k_4^2 k_6 k_9 k_{10} k_{11} k_{13} - 2 k_1^2 k_2 k_3^2 \\
& k_4^2 k_6 k_9 k_{10} k_{13}^2 - 3 k_1^2 k_2 k_3^2 k_4^2 k_6 k_9 k_{11} k_{13}^2 - k_1^2 k_2 k_3^2 k_4^2 k_8 k_{10} k_{11} k_{13}^2 - 2 k_1^2 k_2 k_3^2 \\
& k_4^2 k_8 k_{10} k_{13}^3 - 3 k_1^2 k_2 k_3^2 k_4^2 k_8 k_{11} k_{13}^3 - k_1^2 k_2 k_3^2 k_4^2 k_9 k_{10} k_{11} k_{13}^2 - 2 k_1^2 k_2 k_3^2 k_4^2 k_9 k_{10} k_{13}^3 \\
& - 3 k_1^2 k_2 k_3^2 k_4^2 k_9 k_{11} k_{13}^3 + k_1^2 k_2 k_3 k_4^2 k_5 k_6 k_8 k_{10} k_{11} k_{12} + k_1^2 k_2 k_3 k_4^2 k_5 k_6 k_8 k_{10} k_{11} k_{13} \\
& - 5 k_1^2 k_2 k_3 k_4^2 k_5 k_6 k_8 k_{10} k_{12} k_{13} - 5 k_1^2 k_2 k_3 k_4^2 k_5 k_6 k_8 k_{11} k_{12} k_{13} + k_1^2 k_2 k_3 \\
& k_4^2 k_5 k_6 k_9 k_{10} k_{11} k_{12} + k_1^2 k_2 k_3 k_4^2 k_5 k_6 k_9 k_{10} k_{11} k_{13} - 5 k_1^2 k_2 k_3 k_4^2 k_5 k_6 k_9 k_{10} k_{12} k_{13} \\
& - 5 k_1^2 k_2 k_3 k_4^2 k_5 k_6 k_9 k_{11} k_{12} k_{13} + k_1^2 k_2 k_3 k_4^2 k_6^2 k_8 k_{10} k_{11} k_{12} + k_1^2 k_2 k_3 k_4^2 \\
& k_6^2 k_8 k_{10} k_{11} k_{13} - 5 k_1^2 k_2 k_3 k_4^2 k_6^2 k_8 k_{10} k_{12} k_{13} - 5 k_1^2 k_2 k_3 k_4^2 k_6^2 k_8 k_{11} k_{12} k_{13} + k_1^2 k_2 k_3 \\
& k_4^2 k_6^2 k_9 k_{10} k_{11} k_{12} + k_1^2 k_2 k_3 k_4^2 k_6^2 k_9 k_{10} k_{11} k_{13} - 5 k_1^2 k_2 k_3 k_4^2 k_6^2 k_9 k_{10} k_{12} k_{13} - 5 \\
& k_1^2 k_2 k_3 k_4^2 k_6^2 k_9 k_{11} k_{12} k_{13} - k_1^2 k_2 k_3 k_4^2 k_6 k_8 k_{10} k_{11} k_{12} k_{13} + k_1^2 k_2 k_3 k_4^2 k_6 k_8 k_{10} k_{11} k_{13}^2
\end{aligned}$$

$$\begin{aligned}
& -4 k_1^2 k_2 k_3 k_4^2 k_6 k_8 k_{10} k_{12} k_{13}^2 - 6 k_1^2 k_2 k_3 k_4^2 k_6 k_8 k_{11} k_{12} k_{13}^2 - k_1^2 k_2 k_3 \\
& k_4^2 k_6 k_9 k_{10} k_{11} k_{12} k_{13} + k_1^2 k_2 k_3 k_4^2 k_6 k_9 k_{10} k_{11} k_{13}^2 - 4 k_1^2 k_2 k_3 k_4^2 k_6 k_9 k_{10} k_{12} k_{13}^2 - 6 \\
& k_1^2 k_2 k_3 k_4^2 k_6 k_9 k_{11} k_{12} k_{13}^2 - k_1^2 k_2 k_4^2 k_5 k_6^2 k_8 k_{10} k_{11} k_{12} - 3 k_1^2 k_2 k_4^2 k_5 k_6^2 k_8 k_{10} k_{12}^2 - 2 \\
& k_1^2 k_2 k_4^2 k_5 k_6^2 k_8 k_{11} k_{12}^2 - k_1^2 k_2 k_4^2 k_5 k_6^2 k_9 k_{10} k_{11} k_{12} - 3 k_1^2 k_2 k_4^2 k_5 k_6^2 k_9 k_{10} k_{12}^2 - 2 k_1^2 k_2 \\
& k_4^2 k_5 k_6^2 k_9 k_{11} k_{12}^2 - k_1^2 k_2 k_4^2 k_6^3 k_8 k_{10} k_{11} k_{12} - 3 k_1^2 k_2 k_4^2 k_6^3 k_8 k_{10} k_{12}^2 - 2 k_1^2 k_2 k_4^2 \\
& k_6^3 k_8 k_{11} k_{12}^2 - k_1^2 k_2 k_4^2 k_6^3 k_9 k_{10} k_{11} k_{12} - 3 k_1^2 k_2 k_4^2 k_6^3 k_9 k_{10} k_{12}^2 - 2 k_1^2 k_2 k_4^2 k_6^3 k_9 k_{11} k_{12}^2 \\
& + k_1^2 k_2 k_4^2 k_6^2 k_8 k_{10} k_{11} k_{12} k_{13} - 2 k_1^2 k_2 k_4^2 k_6^2 k_8 k_{10} k_{12}^2 k_{13} - 3 k_1^2 k_2 k_4^2 k_6^2 k_8 k_{11} k_{12}^2 k_{13} \\
& + k_1^2 k_2 k_4^2 k_6^2 k_9 k_{10} k_{11} k_{12} k_{13} - 2 k_1^2 k_2 k_4^2 k_6^2 k_9 k_{10} k_{12}^2 k_{13} - 3 k_1^2 k_2 k_4^2 k_6^2 k_9 k_{11} k_{12}^2 k_{13} \\
& - k_1^2 k_3^3 k_4^2 k_5 k_8 k_{10} k_{11} k_{13} - 2 k_1^2 k_3^3 k_4^2 k_5 k_8 k_{10} k_{13}^2 - 3 k_1^2 k_3^3 k_4^2 k_5 k_8 k_{11} k_{13}^2 - k_1^2 k_3^3 \\
& k_4^2 k_5 k_9 k_{10} k_{11} k_{13} - 2 k_1^2 k_3^3 k_4^2 k_5 k_9 k_{10} k_{13}^2 - 3 k_1^2 k_3^3 k_4^2 k_5 k_9 k_{11} k_{13}^2 - k_1^2 k_3^3 \\
& k_4^2 k_6 k_8 k_{10} k_{11} k_{13} - 2 k_1^2 k_3^3 k_4^2 k_6 k_8 k_{10} k_{13}^2 - 3 k_1^2 k_3^3 k_4^2 k_6 k_8 k_{11} k_{13}^2 - k_1^2 k_3^3 \\
& k_4^2 k_6 k_9 k_{10} k_{11} k_{13} - 2 k_1^2 k_3^3 k_4^2 k_6 k_9 k_{10} k_{13}^2 - 3 k_1^2 k_3^3 k_4^2 k_6 k_9 k_{11} k_{13}^2 - k_1^2 k_3^3 k_4^2 k_8 k_{10} k_{11} \\
& k_{13}^2 - 2 k_1^2 k_3^3 k_4^2 k_8 k_{10} k_{13}^2 - 3 k_1^2 k_3^3 k_4^2 k_8 k_{11} k_{13}^2 - k_1^2 k_3^3 k_4^2 k_9 k_{10} k_{11} k_{13}^2 - 2 k_1^2 k_3^3 \\
& k_4^2 k_9 k_{10} k_{13}^3 - 3 k_1^2 k_3^3 k_4^2 k_9 k_{11} k_{13}^3 + k_1^2 k_3^2 k_4^2 k_5 k_6 k_8 k_{10} k_{11} k_{12} + k_1^2 k_3^2 \\
& k_4^2 k_5 k_6 k_8 k_{10} k_{11} k_{13} - 5 k_1^2 k_3^2 k_4^2 k_5 k_6 k_8 k_{10} k_{12} k_{13} - 5 k_1^2 k_3^2 k_4^2 k_5 k_6 k_8 k_{11} k_{12} k_{13} + k_1^2 \\
& k_3^2 k_4^2 k_5 k_6 k_9 k_{10} k_{11} k_{12} + k_1^2 k_3^2 k_4^2 k_5 k_6 k_9 k_{10} k_{11} k_{13} - 5 k_1^2 k_3^2 k_4^2 k_5 k_6 k_9 k_{10} k_{12} k_{13} - 5 \\
& k_1^2 k_3^2 k_4^2 k_5 k_6 k_9 k_{11} k_{12} k_{13} + k_1^2 k_3^2 k_4^2 k_5 k_8 k_{10} k_{11} k_{12} k_{13} - 3 k_1^2 k_3^2 k_4^2 k_5 k_8 k_{10} k_{12} k_{13}^2 - 2 \\
& k_1^2 k_3^2 k_4^2 k_5 k_8 k_{11} k_{12} k_{13}^2 + k_1^2 k_3^2 k_4^2 k_5 k_9 k_{10} k_{11} k_{12} k_{13} - 3 k_1^2 k_3^2 k_4^2 k_5 k_9 k_{10} k_{12} k_{13}^2 - 2 k_1^2 \\
& k_3^2 k_4^2 k_5 k_9 k_{11} k_{12} k_{13}^2 + k_1^2 k_3^2 k_4^2 k_6^2 k_8 k_{10} k_{11} k_{12} + k_1^2 k_3^2 k_4^2 k_6^2 k_8 k_{10} k_{11} k_{13} - 5 k_1^2 k_3^2 k_4^2 \\
& k_6^2 k_8 k_{10} k_{12} k_{13} - 5 k_1^2 k_3^2 k_4^2 k_6^2 k_8 k_{11} k_{12} k_{13} + k_1^2 k_3^2 k_4^2 k_6^2 k_9 k_{10} k_{11} k_{12} + k_1^2 k_3^2 k_4^2 \\
& k_6^2 k_9 k_{10} k_{11} k_{13} - 5 k_1^2 k_3^2 k_4^2 k_6^2 k_9 k_{10} k_{12} k_{13} - 5 k_1^2 k_3^2 k_4^2 k_6^2 k_9 k_{11} k_{12} k_{13} + k_1^2 k_3^2 \\
& k_4^2 k_6 k_8 k_{10} k_{11} k_{13}^2 - 7 k_1^2 k_3^2 k_4^2 k_6 k_8 k_{10} k_{12} k_{13}^2 - 8 k_1^2 k_3^2 k_4^2 k_6 k_8 k_{11} k_{12} k_{13}^2 + k_1^2 k_3^2 \\
& k_4^2 k_6 k_9 k_{10} k_{11} k_{13}^2 - 7 k_1^2 k_3^2 k_4^2 k_6 k_9 k_{10} k_{12} k_{13}^2 - 8 k_1^2 k_3^2 k_4^2 k_6 k_9 k_{11} k_{12} k_{13}^2 - k_1^2 k_3^2 k_4^2 k_5 \\
& k_6^2 k_8 k_{10} k_{11} k_{12} - 3 k_1^2 k_3^2 k_4^2 k_5 k_6^2 k_8 k_{10} k_{12}^2 - 2 k_1^2 k_3^2 k_4^2 k_5 k_6^2 k_8 k_{11} k_{12}^2 - k_1^2 k_3^2 k_4^2 k_5 \\
& k_6^2 k_9 k_{10} k_{11} k_{12} - 3 k_1^2 k_3^2 k_4^2 k_5 k_6^2 k_9 k_{10} k_{12}^2 - 2 k_1^2 k_3^2 k_4^2 k_5 k_6^2 k_9 k_{11} k_{12}^2 + k_1^2 k_3^2 \\
& k_4^2 k_5 k_6 k_8 k_{10} k_{11} k_{12}^2 - k_1^2 k_3^2 k_4^2 k_5 k_6 k_8 k_{10} k_{11} k_{12} k_{13} - 6 k_1^2 k_3^2 k_4^2 k_5 k_6 k_8 k_{10} k_{12}^2 k_{13} - 4 \\
& k_1^2 k_3^2 k_4^2 k_5 k_6 k_8 k_{11} k_{12}^2 k_{13} + k_1^2 k_3^2 k_4^2 k_5 k_6 k_9 k_{10} k_{11} k_{12}^2 - k_1^2 k_3^2 k_4^2 k_5 k_6 k_9 k_{10} k_{11} k_{12} k_{13}
\end{aligned}$$

$$\begin{aligned}
& -6k_1^2k_3k_4^2k_5k_6k_9k_{10}k_{12}^2k_{13} - 4k_1^2k_3k_4^2k_5k_6k_9k_{11}k_{12}^2k_{13} - k_1^2k_3k_4^2k_6^3k_8k_{10}k_{11}k_{12} \\
& - 3k_1^2k_3k_4^2k_6^3k_8k_{10}k_{12}^2 - 2k_1^2k_3k_4^2k_6^3k_8k_{11}k_{12}^2 - k_1^2k_3k_4^2k_6^3k_9k_{10}k_{11}k_{12} - 3k_1^2k_3k_4^2 \\
& k_6^3k_9k_{10}k_{12}^2 - 2k_1^2k_3k_4^2k_6^3k_9k_{11}k_{12}^2 + k_1^2k_3k_4^2k_6^2k_8k_{10}k_{11}k_{12}^2 - 8k_1^2k_3k_4^2k_6^2k_8k_{10} \\
& k_{12}^2k_{13} - 7k_1^2k_3k_4^2k_6^2k_8k_{11}k_{12}^2k_{13} + k_1^2k_3k_4^2k_6^2k_9k_{10}k_{11}k_{12}^2 - 8k_1^2k_3k_4^2k_6^2k_9k_{10} \\
& k_{12}^2k_{13} - 7k_1^2k_3k_4^2k_6^2k_9k_{11}k_{12}^2k_{13} - k_1^2k_4^2k_5k_6^2k_8k_{10}k_{11}k_{12}^2 - 3k_1^2k_4^2k_5k_6^2k_8k_{10}k_{12}^3 \\
& - 2k_1^2k_4^2k_5k_6^2k_8k_{11}k_{12}^3 - k_1^2k_4^2k_5k_6^2k_9k_{10}k_{11}k_{12}^2 - 3k_1^2k_4^2k_5k_6^2k_9k_{10}k_{12}^3 - 2k_1^2k_4^2k_5 \\
& k_6^2k_9k_{11}k_{12}^3 - k_1^2k_4^2k_6^3k_8k_{10}k_{11}k_{12}^2 - 3k_1^2k_4^2k_6^3k_8k_{10}k_{12}^3 - 2k_1^2k_4^2k_6^3k_8k_{11}k_{12}^3 - k_1^2k_4^2 \\
& k_6^3k_9k_{10}k_{11}k_{12}^2 - 3k_1^2k_4^2k_6^3k_9k_{10}k_{12}^3 - 2k_1^2k_4^2k_6^3k_9k_{11}k_{12}^3 - k_1k_2^2k_3k_4^3k_6k_8k_{10}^2k_{13} \\
& - k_1k_2^2k_3k_4^3k_6k_8k_{10}k_{12}^2 - k_1k_2^2k_3k_4^3k_6k_9k_{10}^2k_{13} - k_1k_2^2k_3k_4^3k_6k_9k_{10}k_{12}^2 + k_1k_2^2k_4^3 \\
& k_6^2k_8k_{10}^2k_{13} - k_1k_2^2k_4^3k_6^2k_8k_{10}k_{12}k_{13} + k_1k_2^2k_4^3k_6^2k_9k_{10}^2k_{13} - k_1k_2^2k_4^3k_6^2k_9k_{10}k_{12}k_{13} \\
& - 2k_1k_2k_3^2k_4^3k_6k_8k_{10}^2k_{13} - 2k_1k_2k_3^2k_4^3k_6k_8k_{10}k_{12}^2 - 2k_1k_2k_3^2k_4^3k_6k_9k_{10}^2k_{13} \\
& - 2k_1k_2k_3^2k_4^3k_6k_9k_{10}k_{12}^2 - k_1k_2k_3^2k_4^3k_8k_{10}^2k_{13} - k_1k_2k_3^2k_4^3k_8k_{10}k_{12}^3 - k_1k_2k_3^2k_4^3k_9 \\
& k_{10}^2k_{13} - k_1k_2k_3^2k_4^3k_9k_{10}k_{12}^3 + 2k_1k_2k_3k_4^3k_6^2k_8k_{10}^2k_{13} - 2k_1k_2k_3k_4^3k_6^2k_8k_{10}k_{12}k_{13} \\
& + 2k_1k_2k_3k_4^3k_6^2k_9k_{10}^2k_{13} - 2k_1k_2k_3k_4^3k_6^2k_9k_{10}k_{12}k_{13} - k_1k_2k_3k_4^3k_6k_8k_{10}^2k_{12}k_{13} \\
& + k_1k_2k_3k_4^3k_6k_8k_{10}^2k_{13}^2 - 2k_1k_2k_3k_4^3k_6k_8k_{10}k_{12}k_{13}^2 - k_1k_2k_3k_4^3k_6k_9k_{10}^2k_{12}k_{13} \\
& + k_1k_2k_3k_4^3k_6k_9k_{10}^2k_{13}^2 - 2k_1k_2k_3k_4^3k_6k_9k_{10}k_{12}k_{13}^2 + k_1k_2k_4^3k_6^2k_8k_{10}^2k_{12}k_{13} \\
& - k_1k_2k_4^3k_6^2k_8k_{10}k_{12}^2k_{13} + k_1k_2k_4^3k_6^2k_9k_{10}^2k_{12}k_{13} - k_1k_2k_4^3k_6^2k_9k_{10}k_{12}^2k_{13} - k_1k_3^3 \\
& k_4^3k_6k_8k_{10}^2k_{13} - k_1k_3^3k_4^3k_6k_8k_{10}k_{12}^2 - k_1k_3^3k_4^3k_6k_9k_{10}^2k_{13} - k_1k_3^3k_4^3k_6k_9k_{10}k_{12}^2 - k_1 \\
& k_3^3k_4^3k_8k_{10}^2k_{13}^2 - k_1k_3^3k_4^3k_8k_{10}k_{12}^3 - k_1k_3^3k_4^3k_9k_{10}^2k_{13}^2 - k_1k_3^3k_4^3k_9k_{10}k_{12}^3 + k_1k_3^2k_4^3 \\
& k_6^2k_8k_{10}^2k_{13} - k_1k_3^2k_4^3k_6^2k_8k_{10}k_{12}k_{13} + k_1k_3^2k_4^3k_6^2k_9k_{10}^2k_{13} - k_1k_3^2k_4^3k_6^2k_9k_{10}k_{12}k_{13} \\
& - k_1k_3^2k_4^3k_6k_8k_{10}^2k_{12}k_{13} + k_1k_3^2k_4^3k_6k_8k_{10}^2k_{13}^2 - 2k_1k_3^2k_4^3k_6k_8k_{10}k_{12}k_{13}^2 - k_1k_3^2 \\
& k_4^3k_6k_9k_{10}^2k_{12}k_{13} + k_1k_3^2k_4^3k_6k_9k_{10}^2k_{13}^2 - 2k_1k_3^2k_4^3k_6k_9k_{10}k_{12}k_{13}^2 + k_1k_3k_4^3k_6^2k_8 \\
& k_{10}^2k_{12}k_{13} - k_1k_3k_4^3k_6^2k_8k_{10}k_{12}^2k_{13} + k_1k_3k_4^3k_6^2k_9k_{10}^2k_{12}k_{13} - k_1k_3k_4^3k_6^2k_9k_{10} \\
& k_{12}^2k_{13})x_1^3x_3^2 + k_7(k_1^2k_2k_3k_4^2k_5k_7k_9k_{11}k_{12}k_{13} - k_1^2k_2k_3k_4^2k_5k_7k_9k_{12}k_{13}^2 + k_1^2k_2k_3 \\
& k_4^2k_6k_7k_9k_{11}k_{12}k_{13} - k_1^2k_2k_3k_4^2k_6k_7k_9k_{12}k_{13}^2 - k_1^2k_2k_4^2k_5k_6k_7k_9k_{11}k_{12}k_{13} - k_1^2k_2 \\
& k_4^2k_5k_6k_7k_9k_{12}^2k_{13} - k_1^2k_2k_4^2k_5k_7k_9^2k_{12}k_{13} - k_1^2k_2k_4^2k_5k_7k_9k_{12}k_{13}^2 - k_1^2k_2k_4^2 \\
& k_6^2k_7k_9k_{11}k_{12}k_{13} - k_1^2k_2k_4^2k_6^2k_7k_9k_{12}^2k_{13} - k_1^2k_2k_4^2k_6^2k_7k_9k_{12}k_{13}^2 - k_1^2k_2k_4^2k_6^2k_7 \\
\end{aligned}$$

$$\begin{aligned}
& k_9^2 k_{12} k_{13}^2 + k_1^2 k_3^2 k_4^2 k_5 k_7 k_9 k_{11} k_{12} k_{13} - k_1^2 k_3^2 k_4^2 k_5 k_7 k_9 k_{12} k_{13}^2 + k_1^2 k_3^2 \\
& k_4^2 k_6 k_7 k_9 k_{11} k_{12} k_{13} - k_1^2 k_3^2 k_4^2 k_6 k_7 k_9 k_{12} k_{13}^2 - k_1^2 k_3 k_4^2 k_5 k_6 k_7 k_9 k_{11} k_{12} k_{13} - k_1^2 k_3 \\
& k_4^2 k_5 k_6 k_7 k_9 k_{12} k_{13} - k_1^2 k_3 k_4^2 k_5 k_7 k_9^2 k_{12} k_{13} - k_1^2 k_3 k_4^2 k_5 k_7 k_9^2 k_{12} k_{13}^2 - k_1^2 k_3 k_4^2 \\
& k_6^2 k_7 k_9 k_{11} k_{12} k_{13} - k_1^2 k_3 k_4^2 k_6^2 k_7 k_9 k_{12} k_{13} - k_1^2 k_3 k_4^2 k_6 k_7 k_9^2 k_{12} k_{13} - k_1^2 k_3 k_4^2 k_6 k_7 \\
& k_9^2 k_{12} k_{13}^2 - k_1 k_2^2 k_3 k_4^3 k_7 k_9 k_{10} k_{13}^2 - k_1 k_2^2 k_3 k_4^3 k_7 k_9 k_{13}^3 + k_1 k_2^2 k_4^3 k_6 k_7 k_9 k_{10} k_{13}^2 - k_1 \\
& k_2^2 k_4^3 k_6 k_7 k_9 k_{12} k_{13}^2 - k_1 k_2^2 k_4^3 k_7 k_9^2 k_{12} k_{13}^2 - k_1 k_2^2 k_4^3 k_7 k_9^2 k_{13}^3 - 2 k_1 k_2 k_3^2 k_4^3 k_7 k_9 k_{10} k_{13}^2 \\
& - 2 k_1 k_2 k_3^2 k_4^3 k_7 k_9 k_{13}^3 + 2 k_1 k_2 k_3 k_4^3 k_6 k_7 k_9 k_{10} k_{13}^2 - 2 k_1 k_2 k_3 k_4^3 k_6 k_7 k_9 k_{12} k_{13}^2 \\
& - 2 k_1 k_2 k_3 k_4^3 k_7 k_9^2 k_{12} k_{13}^2 - 2 k_1 k_2 k_3 k_4^3 k_7 k_9^2 k_{13}^3 - k_1 k_3^3 k_4^3 k_7 k_9 k_{10} k_{13}^2 - k_1 k_3^3 \\
& k_4^3 k_7 k_9 k_{13}^3 + k_1 k_3^2 k_4^3 k_6 k_7 k_9 k_{10} k_{13}^2 - k_1 k_3^2 k_4^3 k_6 k_7 k_9 k_{12} k_{13}^2 - k_1 k_3^2 k_4^3 k_7 k_9^2 k_{12} k_{13}^2 \\
& - k_1 k_3^2 k_4^3 k_7 k_9^2 k_{13}^3) x_1^3 x_3 x_7^2 + k_7 (k_1^2 k_2 k_3 k_4^2 k_5 k_8 k_9 k_{11} k_{12} k_{13} - k_1^2 k_2 k_3 k_4^2 k_5 k_8 k_9 k_{12} \\
& k_{13}^2 + k_1^2 k_2 k_3 k_4^2 k_5 k_9^2 k_{11} k_{12} k_{13} - k_1^2 k_2 k_3 k_4^2 k_5 k_9^2 k_{12} k_{13}^2 + k_1^2 k_2 k_3 k_4^2 k_6 k_8 k_9 k_{11} k_{12} k_{13} \\
& - k_1^2 k_2 k_3 k_4^2 k_6 k_8 k_9 k_{12} k_{13}^2 + k_1^2 k_2 k_3 k_4^2 k_6 k_9^2 k_{11} k_{12} k_{13} - k_1^2 k_2 k_3 k_4^2 k_6 k_9^2 k_{12} k_{13}^2 - \\
& k_1^2 k_2 k_4^2 k_5 k_6 k_8 k_9 k_{11} k_{12} k_{13} - k_1^2 k_2 k_4^2 k_5 k_6 k_8 k_9 k_{12}^2 k_{13} - k_1^2 k_2 k_4^2 k_5 k_6 k_9^2 k_{11} k_{12} k_{13} - \\
& k_1^2 k_2 k_4^2 k_5 k_6 k_9^2 k_{12} k_{13}^2 - k_1^2 k_2 k_4^2 k_6^2 k_8 k_9 k_{11} k_{12} k_{13} - k_1^2 k_2 k_4^2 k_6^2 k_8 k_9 k_{12}^2 k_{13} - k_1^2 k_2 k_4^2 \\
& k_6^2 k_9^2 k_{11} k_{12} k_{13} - k_1^2 k_2 k_4^2 k_6^2 k_9^2 k_{12} k_{13}^2 + k_1^2 k_3^2 k_4^2 k_5 k_8 k_9 k_{11} k_{12} k_{13} - k_1^2 k_3^2 \\
& k_4^2 k_5 k_8 k_9 k_{12} k_{13}^2 + k_1^2 k_3^2 k_4^2 k_5 k_9^2 k_{11} k_{12} k_{13} - k_1^2 k_3^2 k_4^2 k_5 k_9^2 k_{12} k_{13}^2 + k_1^2 k_3^2 \\
& k_4^2 k_6 k_8 k_9 k_{11} k_{12} k_{13} - k_1^2 k_3^2 k_4^2 k_6 k_8 k_9 k_{12} k_{13}^2 + k_1^2 k_3^2 k_4^2 k_6 k_9^2 k_{11} k_{12} k_{13} - k_1^2 k_3^2 k_4^2 k_6 \\
& k_9^2 k_{12} k_{13}^2 - k_1^2 k_3 k_4^2 k_5 k_6 k_8 k_9 k_{11} k_{12} k_{13} - k_1^2 k_3 k_4^2 k_5 k_6 k_8 k_9 k_{12}^2 k_{13} - k_1^2 k_3 k_4^2 k_5 k_6 \\
& k_9^2 k_{11} k_{12} k_{13} - k_1^2 k_3 k_4^2 k_5 k_6 k_9^2 k_{12} k_{13}^2 - k_1^2 k_3 k_4^2 k_6^2 k_8 k_9 k_{11} k_{12} k_{13} - k_1^2 k_3 k_4^2 k_6^2 k_8 k_9 \\
& k_{12}^2 k_{13} - k_1^2 k_3 k_4^2 k_6^2 k_9^2 k_{11} k_{12} k_{13} - k_1^2 k_3 k_4^2 k_6^2 k_9^2 k_{12} k_{13}^2 - k_1 k_2^2 k_3 k_4^3 k_8 k_9 k_{10} k_{13}^2 - k_1 \\
& k_2^2 k_3 k_4^3 k_8 k_9 k_{13}^3 - k_1 k_2^2 k_3 k_4^3 k_9^2 k_{10} k_{13}^2 - k_1 k_2^2 k_3 k_4^3 k_9^2 k_{13}^3 + k_1 k_2^2 k_4^3 k_6 k_8 k_9 k_{10} k_{13}^2 \\
& - k_1 k_2^2 k_4^3 k_6 k_8 k_9 k_{12} k_{13}^2 + k_1 k_2^2 k_4^3 k_6 k_9^2 k_{10} k_{13}^2 - k_1 k_2^2 k_4^3 k_6 k_9^2 k_{12} k_{13}^2 - 2 k_1 k_2 k_3^2 \\
& k_4^3 k_8 k_9 k_{10} k_{13}^2 - 2 k_1 k_2 k_3^2 k_4^3 k_8 k_9 k_{13}^3 - 2 k_1 k_2 k_3^2 k_4^3 k_9^2 k_{10} k_{13}^2 - 2 k_1 k_2 k_3^2 k_4^3 k_9^2 k_{13}^3 \\
& + 2 k_1 k_2 k_3 k_4^3 k_6 k_8 k_9 k_{10} k_{13}^2 - 2 k_1 k_2 k_3 k_4^3 k_6 k_8 k_9 k_{12} k_{13}^2 + 2 k_1 k_2 k_3 k_4^3 k_6 k_9^2 k_{10} k_{13}^2 \\
& - 2 k_1 k_2 k_3 k_4^3 k_6 k_9^2 k_{12} k_{13}^2 - k_1 k_3^3 k_4^3 k_8 k_9 k_{10} k_{13}^2 - k_1 k_3^3 k_4^3 k_8 k_9 k_{13}^3 - k_1 k_3^3 k_4^3 k_9^2 k_{10} \\
& k_{13}^2 - k_1 k_3^3 k_4^3 k_9^2 k_{13}^3 + k_1 k_3^2 k_4^3 k_6 k_8 k_9 k_{10} k_{13}^2 - k_1 k_3^2 k_4^3 k_6 k_8 k_9 k_{12} k_{13}^2 + k_1 k_3^2 k_4^3 k_6 \\
& k_9^2 k_{10} k_{13}^2 - k_1 k_3^2 k_4^3 k_6 k_9^2 k_{12} k_{13}^2) x_1^3 x_3 x_7 + k_7 (-2 k_1 k_2^2 k_4^2 k_5 k_7 k_9^2 k_{11} k_{12} k_{13} - 3 k_1 k_2^2
\end{aligned}$$

$$\begin{aligned}
& k_4^2 k_5 k_7 k_9^2 k_{11} k_{13}^2 - k_1 k_2^2 k_4^2 k_5 k_7 k_9^2 k_{12} k_{13}^2 - 2 k_1 k_2^2 k_4^2 k_6 k_7 k_9^2 k_{11} k_{12} k_{13} - 3 k_1 k_2^2 \\
& k_4^2 k_6 k_7 k_9^2 k_{11} k_{13}^2 - k_1 k_2^2 k_4^2 k_6 k_7 k_9^2 k_{12} k_{13}^2 - 3 k_1 k_2^2 k_4^2 k_7 k_9^2 k_{11} k_{12} k_{13}^2 - 3 k_1 k_2^2 k_4^2 k_7 \\
& k_9^2 k_{11} k_{13}^3 - 4 k_1 k_2 k_3 k_4^2 k_5 k_7 k_9^2 k_{11} k_{12} k_{13} - 6 k_1 k_2 k_3 k_4^2 k_5 k_7 k_9^2 k_{11} k_{13}^2 - 2 k_1 k_2 k_3 \\
& k_4^2 k_5 k_7 k_9^2 k_{12} k_{13}^2 - 4 k_1 k_2 k_3 k_4^2 k_6 k_7 k_9^2 k_{11} k_{12} k_{13} - 6 k_1 k_2 k_3 k_4^2 k_6 k_7 k_9^2 k_{11} k_{13}^2 \\
& - 2 k_1 k_2 k_3 k_4^2 k_6 k_7 k_9^2 k_{12} k_{13}^2 - 6 k_1 k_2 k_3 k_4^2 k_7 k_9^2 k_{11} k_{12} k_{13}^2 - 6 k_1 k_2 k_3 k_4^2 k_7 k_9^2 k_{11} k_{13}^3 \\
& - 2 k_1 k_2 k_4^2 k_5 k_7 k_9^2 k_{11} k_{12} k_{13}^2 - 2 k_1 k_2 k_4^2 k_5 k_7 k_9^2 k_{11} k_{12} k_{13}^2 - 2 k_1 k_2 k_4^2 k_6 k_7 k_9^2 k_{11} \\
& k_{12} k_{13}^2 - 2 k_1 k_2 k_4^2 k_6 k_7 k_9^2 k_{11} k_{12} k_{13}^2 - 2 k_1 k_3^2 k_4^2 k_5 k_7 k_9^2 k_{11} k_{12} k_{13} - 3 k_1 k_3^2 k_4^2 k_5 k_7 \\
& k_9^2 k_{11} k_{13}^2 - k_1 k_3^2 k_4^2 k_5 k_7 k_9^2 k_{12} k_{13}^2 - 2 k_1 k_3^2 k_4^2 k_6 k_7 k_9^2 k_{11} k_{12} k_{13} - 3 k_1 k_3^2 k_4^2 k_6 k_7 \\
& k_9^2 k_{11} k_{13}^2 - k_1 k_3^2 k_4^2 k_6 k_7 k_9^2 k_{12} k_{13}^2 - 3 k_1 k_3^2 k_4^2 k_7 k_9^2 k_{11} k_{12} k_{13}^2 - 3 k_1 k_3^2 k_4^2 k_7 k_9^2 k_{11} k_{13}^3 \\
& - 2 k_1 k_3 k_4^2 k_5 k_7 k_9^2 k_{11} k_{12} k_{13}^2 - 2 k_1 k_3 k_4^2 k_5 k_7 k_9^2 k_{11} k_{12} k_{13}^2 - 2 k_1 k_3 k_4^2 k_6 k_7 k_9^2 k_{11} \\
& k_{12} k_{13}^2 - 2 k_1 k_3 k_4^2 k_6 k_7 k_9^2 k_{11} k_{12} k_{13}^2 - k_2^3 k_4^3 k_7 k_9^2 k_{10} k_{13}^2 - k_2^3 k_4^3 k_7 k_9^2 k_{13}^3 - 3 k_2^2 k_3 \\
& k_4^3 k_7 k_9^2 k_{10} k_{13}^2 - 3 k_2^2 k_3 k_4^3 k_7 k_9^2 k_{13}^3 - k_2^2 k_4^3 k_7 k_9^2 k_{10} k_{12} k_{13}^2 - k_2^2 k_4^3 k_7 k_9^2 k_{10} k_{13}^3 - 3 k_2 \\
& k_3^2 k_4^3 k_7 k_9^2 k_{10} k_{13}^2 - 3 k_2 k_3^2 k_4^3 k_7 k_9^2 k_{13}^3 - 2 k_2 k_3 k_4^3 k_7 k_9^2 k_{10} k_{12} k_{13}^2 - 2 k_2 k_3 k_4^3 k_7 k_9^2 k_{10} \\
& k_{13}^3 - k_3^3 k_4^3 k_7 k_9^2 k_{10} k_{13}^2 - k_3^3 k_4^3 k_7 k_9^2 k_{13}^3 - k_3^2 k_4^3 k_7 k_9^2 k_{10} k_{12} k_{13}^2 - k_3^2 k_4^3 k_7 k_9^2 k_{10} k_{13}^3 \Big) x_1^3 \\
& x_7^2 + k_7 \Big(-3 k_1^2 k_2 k_3^2 k_4 k_5^2 k_8 k_{10} k_{11} k_{13} - 3 k_1^2 k_2 k_3^2 k_4 k_5^2 k_8 k_{11}^2 k_{13} - 3 k_1^2 k_2 k_3^2 k_4 \\
& k_5^2 k_9 k_{10} k_{11} k_{13} - 3 k_1^2 k_2 k_3^2 k_4 k_5^2 k_9 k_{11}^2 k_{13} - 6 k_1^2 k_2 k_3^2 k_4 k_5 k_6 k_8 k_{10} k_{11} k_{13} - 6 k_1^2 k_2 \\
& k_3^2 k_4 k_5 k_6 k_8 k_{11}^2 k_{13} - 6 k_1^2 k_2 k_3^2 k_4 k_5 k_6 k_9 k_{10} k_{11} k_{13} - 6 k_1^2 k_2 k_3^2 k_4 k_5 k_6 k_9 k_{11}^2 k_{13} - 6 \\
& k_1^2 k_2 k_3^2 k_4 k_5 k_8 k_{10} k_{11} k_{13}^2 - 6 k_1^2 k_2 k_3^2 k_4 k_5 k_8 k_{11}^2 k_{13}^2 - 6 k_1^2 k_2 k_3^2 k_4 k_5 k_9 k_{10} k_{11} k_{13}^2 - 6 \\
& k_1^2 k_2 k_3^2 k_4 k_5 k_9 k_{11}^2 k_{13}^2 - 3 k_1^2 k_2 k_3^2 k_4 k_6^2 k_8 k_{10} k_{11} k_{13} - 3 k_1^2 k_2 k_3^2 k_4 k_6^2 k_8 k_{11}^2 k_{13} - 3 \\
& k_1^2 k_2 k_3^2 k_4 k_6^2 k_9 k_{10} k_{11} k_{13} - 3 k_1^2 k_2 k_3^2 k_4 k_6^2 k_9 k_{11}^2 k_{13} - 6 k_1^2 k_2 k_3^2 k_4 k_6 k_8 k_{10} k_{11} k_{13}^2 - 6 \\
& k_1^2 k_2 k_3^2 k_4 k_6 k_8 k_{11}^2 k_{13}^2 - 6 k_1^2 k_2 k_3^2 k_4 k_6 k_9 k_{10} k_{11} k_{13}^2 - 6 k_1^2 k_2 k_3^2 k_4 k_6 k_9 k_{11}^2 k_{13}^2 - 3 \\
& k_1^2 k_2 k_3^2 k_4 k_8 k_{10} k_{11} k_{13}^3 - 3 k_1^2 k_2 k_3^2 k_4 k_8 k_{11}^2 k_{13}^3 - 3 k_1^2 k_2 k_3^2 k_4 k_9 k_{10} k_{11} k_{13}^3 - 3 k_1^2 k_2 \\
& k_3^2 k_4 k_9 k_{11}^2 k_{13}^3 - 3 k_1^2 k_2 k_3 k_4 k_5^2 k_6 k_8 k_{10} k_{11} k_{12} - 3 k_1^2 k_2 k_3 k_4 k_5^2 k_6 k_8 k_{11}^2 k_{12} - 3 \\
& k_1^2 k_2 k_3 k_4 k_5^2 k_6 k_9 k_{10} k_{11} k_{12} - 3 k_1^2 k_2 k_3 k_4 k_5^2 k_6 k_9 k_{11}^2 k_{12} - 6 k_1^2 k_2 k_3 k_4 k_5 \\
& k_6^2 k_8 k_{10} k_{11} k_{12} - 6 k_1^2 k_2 k_3 k_4 k_5 k_6^2 k_8 k_{11}^2 k_{12} - 6 k_1^2 k_2 k_3 k_4 k_5 k_6^2 k_9 k_{10} k_{11} k_{12} - 6 \\
& k_1^2 k_2 k_3 k_4 k_5 k_6^2 k_9 k_{11}^2 k_{12} - 9 k_1^2 k_2 k_3 k_4 k_5 k_6 k_8 k_{10} k_{11} k_{12} k_{13} - 9 k_1^2 k_2 k_3 k_4 k_5 k_6 k_8 \\
& k_{11} k_{12} k_{13} - 9 k_1^2 k_2 k_3 k_4 k_5 k_6 k_9 k_{10} k_{11} k_{12} k_{13} - 9 k_1^2 k_2 k_3 k_4 k_5 k_6 k_9 k_{11}^2 k_{12} k_{13} - 3
\end{aligned}$$

$$\begin{aligned}
& k_1^2 k_2 k_3 k_4 k_6^3 k_8 k_{10} k_{11} k_{12} - 3 k_1^2 k_2 k_3 k_4 k_6^3 k_8 k_{11}^2 k_{12} - 3 k_1^2 k_2 k_3 k_4 k_6^3 k_9 k_{10} k_{11} k_{12} - 3 \\
& k_1^2 k_2 k_3 k_4 k_6^3 k_9 k_{11}^2 k_{12} - 9 k_1^2 k_2 k_3 k_4 k_6^2 k_8 k_{10} k_{11} k_{12} k_{13} - 9 k_1^2 k_2 k_3 k_4 k_6^2 k_8 k_{11}^2 k_{12} k_{13} \\
& - 9 k_1^2 k_2 k_3 k_4 k_6^2 k_9 k_{10} k_{11} k_{12} k_{13} - 9 k_1^2 k_2 k_3 k_4 k_6^2 k_9 k_{11}^2 k_{12} k_{13} - 6 \\
& k_1^2 k_2 k_3 k_4 k_6 k_8 k_{10} k_{11} k_{12} k_{13}^2 - 6 k_1^2 k_2 k_3 k_4 k_6 k_8 k_{11}^2 k_{12} k_{13}^2 - 6 \\
& k_1^2 k_2 k_3 k_4 k_6 k_9 k_{10} k_{11} k_{12} k_{13}^2 - 6 k_1^2 k_2 k_3 k_4 k_6 k_9 k_{11}^2 k_{12} k_{13}^2 - 3 k_1^2 k_2 k_4 k_5 k_6^2 k_8 k_{10} k_{11} \\
& k_{12}^2 - 3 k_1^2 k_2 k_4 k_5 k_6^2 k_8 k_{11}^2 k_{12}^2 - 3 k_1^2 k_2 k_4 k_5 k_6^2 k_9 k_{10} k_{11} k_{12}^2 - 3 k_1^2 k_2 k_4 k_5 k_6^2 k_9 k_{11}^2 k_{12}^2 \\
& - 3 k_1^2 k_2 k_4 k_6^3 k_8 k_{10} k_{11} k_{12}^2 - 3 k_1^2 k_2 k_4 k_6^3 k_8 k_{11}^2 k_{12}^2 - 3 k_1^2 k_2 k_4 k_6^3 k_9 k_{10} k_{11} k_{12}^2 - 3 \\
& k_1^2 k_2 k_4 k_6^3 k_9 k_{11}^2 k_{12}^2 - 3 k_1^2 k_2 k_4 k_6^2 k_8 k_{10} k_{11} k_{12}^2 k_{13} - 3 k_1^2 k_2 k_4 k_6^2 k_8 k_{11}^2 k_{12}^2 k_{13} - 3 \\
& k_1^2 k_2 k_4 k_6^2 k_9 k_{10} k_{11} k_{12}^2 k_{13} - 3 k_1^2 k_2 k_4 k_6^2 k_9 k_{11}^2 k_{12}^2 k_{13} - 3 k_1^2 k_3^3 k_4 k_5^2 k_8 k_{10} k_{11} k_{13} - 3 \\
& k_1^2 k_3^3 k_4 k_5^2 k_8 k_{11}^2 k_{13} - 3 k_1^2 k_3^3 k_4 k_5^2 k_9 k_{10} k_{11} k_{13} - 3 k_1^2 k_3^3 k_4 k_5^2 k_9 k_{11}^2 k_{13} - 6 k_1^2 \\
& k_3^3 k_4 k_5 k_6 k_8 k_{10} k_{11} k_{13} - 6 k_1^2 k_3^3 k_4 k_5 k_6 k_8 k_{11}^2 k_{13} - 6 k_1^2 k_3^3 k_4 k_5 k_6 k_9 k_{10} k_{11} k_{13} - 6 k_1^2 \\
& k_3^3 k_4 k_5 k_6 k_9 k_{11}^2 k_{13} - 6 k_1^2 k_3^3 k_4 k_5 k_8 k_{10} k_{11} k_{13}^2 - 6 k_1^2 k_3^3 k_4 k_5 k_8 k_{11}^2 k_{13}^2 - 6 k_1^2 \\
& k_3^3 k_4 k_5 k_9 k_{10} k_{11} k_{13}^2 - 6 k_1^2 k_3^3 k_4 k_5 k_9 k_{11}^2 k_{13}^2 - 3 k_1^2 k_3^3 k_4 k_6^2 k_8 k_{10} k_{11} k_{13} - 3 k_1^2 k_3^3 k_4 \\
& k_6^2 k_8 k_{11}^2 k_{13} - 3 k_1^2 k_3^3 k_4 k_6^2 k_9 k_{10} k_{11} k_{13} - 3 k_1^2 k_3^3 k_4 k_6^2 k_9 k_{11}^2 k_{13} - 6 k_1^2 \\
& k_3^3 k_4 k_6 k_8 k_{10} k_{11} k_{13}^2 - 6 k_1^2 k_3^3 k_4 k_6 k_8 k_{11}^2 k_{13}^2 - 6 k_1^2 k_3^3 k_4 k_6 k_9 k_{10} k_{11} k_{13}^2 - 6 k_1^2 \\
& k_3^3 k_4 k_6 k_9 k_{11}^2 k_{13}^2 - 3 k_1^2 k_3^3 k_4 k_8 k_{10} k_{11} k_{13}^3 - 3 k_1^2 k_3^3 k_4 k_8 k_{11}^2 k_{13}^3 - 3 k_1^2 k_3^3 k_4 k_9 k_{10} k_{11} \\
& k_{13}^3 - 3 k_1^2 k_3^3 k_4 k_9 k_{11}^2 k_{13}^3 - 3 k_1^2 k_3^2 k_4 k_5^2 k_6 k_8 k_{10} k_{11} k_{12} - 3 k_1^2 k_3^2 k_4 k_5^2 k_6 k_8 k_{11}^2 k_{12} - 3 \\
& k_1^2 k_3^2 k_4 k_5^2 k_6 k_9 k_{10} k_{11} k_{12} - 3 k_1^2 k_3^2 k_4 k_5^2 k_6 k_9 k_{11}^2 k_{12} - 3 k_1^2 k_3^2 k_4 k_5^2 k_8 k_{10} k_{11} k_{12} k_{13} \\
& - 3 k_1^2 k_3^2 k_4 k_5^2 k_8 k_{11}^2 k_{12} k_{13} - 3 k_1^2 k_3^2 k_4 k_5^2 k_9 k_{10} k_{11} k_{12} k_{13} - 3 k_1^2 k_3^2 k_4 k_5^2 k_9 k_{11}^2 k_{12} k_{13} \\
& - 6 k_1^2 k_3^2 k_4 k_5 k_6^2 k_8 k_{10} k_{11} k_{12} - 6 k_1^2 k_3^2 k_4 k_5 k_6^2 k_8 k_{11}^2 k_{12} - 6 k_1^2 k_3^2 k_4 k_5 k_6^2 k_9 k_{10} k_{11} k_{12} \\
& - 6 k_1^2 k_3^2 k_4 k_5 k_6^2 k_9 k_{11}^2 k_{12} - 15 k_1^2 k_3^2 k_4 k_5 k_6 k_8 k_{10} k_{11} k_{12} k_{13} - 15 k_1^2 k_3^2 k_4 k_5 k_6 k_8 \\
& k_{11}^2 k_{12} k_{13} - 15 k_1^2 k_3^2 k_4 k_5 k_6 k_9 k_{10} k_{11} k_{12} k_{13} - 15 k_1^2 k_3^2 k_4 k_5 k_6 k_9 k_{11}^2 k_{12} k_{13} - 3 k_1^2 \\
& k_3^2 k_4 k_5 k_8 k_{10} k_{11} k_{12} k_{13}^2 - 3 k_1^2 k_3^2 k_4 k_5 k_8 k_{11}^2 k_{12} k_{13}^2 - 3 k_1^2 k_3^2 k_4 k_5 k_9 k_{10} k_{11} k_{12} k_{13}^2 \\
& - 3 k_1^2 k_3^2 k_4 k_5 k_9 k_{11}^2 k_{12} k_{13}^2 - 3 k_1^2 k_3^2 k_4 k_6^3 k_8 k_{10} k_{11} k_{12} - 3 k_1^2 k_3^2 k_4 k_6^3 k_8 k_{11}^2 k_{12} - 3 k_1^2 \\
& k_3^2 k_4 k_6^3 k_9 k_{10} k_{11} k_{12} - 3 k_1^2 k_3^2 k_4 k_6^3 k_9 k_{11}^2 k_{12} - 12 k_1^2 k_3^2 k_4 k_6^2 k_8 k_{10} k_{11} k_{12} k_{13} - 12 k_1^2 \\
& k_3^2 k_4 k_6^2 k_8 k_{11}^2 k_{12} k_{13} - 12 k_1^2 k_3^2 k_4 k_6^2 k_9 k_{10} k_{11} k_{12} k_{13} - 12 k_1^2 k_3^2 k_4 k_6^2 k_9 k_{11}^2 k_{12} k_{13} - 9 \\
& k_1^2 k_3^2 k_4 k_6 k_8 k_{10} k_{11} k_{12} k_{13}^2 - 9 k_1^2 k_3^2 k_4 k_6 k_8 k_{11}^2 k_{12} k_{13}^2 - 9 k_1^2 k_3^2 k_4 k_6 k_9 k_{10} k_{11} k_{12} k_{13}^2
\end{aligned}$$

$$\begin{aligned}
& -9 k_1^2 k_3^2 k_4 k_6 k_9 k_{11}^2 k_{12}^2 k_{13}^2 - 3 k_1^2 k_3 k_4 k_5^2 k_6 k_8 k_{10} k_{11} k_{12}^2 - 3 k_1^2 k_3 k_4 k_5^2 k_6 k_8 k_{11}^2 k_{12}^2 \\
& - 3 k_1^2 k_3 k_4 k_5^2 k_6 k_9 k_{10} k_{11} k_{12}^2 - 3 k_1^2 k_3 k_4 k_5^2 k_6 k_9 k_{11}^2 k_{12}^2 - 9 k_1^2 k_3 k_4 k_5 k_6^2 k_8 k_{10} k_{11} k_{12}^2 \\
& - 9 k_1^2 k_3 k_4 k_5 k_6^2 k_8 k_{11}^2 k_{12}^2 - 9 k_1^2 k_3 k_4 k_5 k_6^2 k_9 k_{10} k_{11} k_{12}^2 - 9 k_1^2 k_3 k_4 k_5 k_6^2 k_9 k_{11}^2 k_{12}^2 \\
& - 6 k_1^2 k_3 k_4 k_5 k_6 k_8 k_{10} k_{11} k_{12}^2 k_{13} - 6 k_1^2 k_3 k_4 k_5 k_6 k_8 k_{11}^2 k_{12}^2 k_{13} - 6 \\
& k_1^2 k_3 k_4 k_5 k_6 k_9 k_{10} k_{11} k_{12}^2 k_{13} - 6 k_1^2 k_3 k_4 k_5 k_6 k_9 k_{11}^2 k_{12}^2 k_{13} - 6 k_1^2 k_3 k_4 k_6^3 k_8 k_{10} k_{11} k_{12}^2 \\
& - 6 k_1^2 k_3 k_4 k_6^3 k_8 k_{11}^2 k_{12}^2 - 6 k_1^2 k_3 k_4 k_6^3 k_9 k_{10} k_{11} k_{12}^2 - 6 k_1^2 k_3 k_4 k_6^3 k_9 k_{11}^2 k_{12}^2 - 9 \\
& k_1^2 k_3 k_4 k_6^2 k_8 k_{10} k_{11} k_{12}^2 k_{13} - 9 k_1^2 k_3 k_4 k_6^2 k_8 k_{11}^2 k_{12}^2 k_{13} - 9 k_1^2 k_3 k_4 k_6^2 k_9 k_{10} k_{11} k_{12}^2 k_{13} \\
& - 9 k_1^2 k_3 k_4 k_6^2 k_9 k_{11}^2 k_{12}^2 k_{13} - 3 k_1^2 k_4 k_5 k_6^2 k_8 k_{10} k_{11} k_{12}^3 - 3 k_1^2 k_4 k_5 k_6^2 k_8 k_{11}^2 k_{12}^3 - 3 \\
& k_1^2 k_4 k_5 k_6^2 k_9 k_{10} k_{11} k_{12}^3 - 3 k_1^2 k_4 k_5 k_6^2 k_9 k_{11}^2 k_{12}^3 - 3 k_1^2 k_4 k_6^3 k_8 k_{10} k_{11} k_{12}^3 - 3 k_1^2 k_4 k_6^3 k_8 \\
& k_{11}^2 k_{12}^3 - 3 k_1^2 k_4 k_6^3 k_9 k_{10} k_{11} k_{12}^3 - 3 k_1^2 k_4 k_6^3 k_9 k_{11}^2 k_{12}^3 - 3 k_1 k_2^2 k_3 k_4^2 k_5 k_6 k_8 k_{10}^2 k_{13} \\
& - 3 k_1 k_2^2 k_3 k_4^2 k_5 k_6 k_8 k_{10} k_{11} k_{13} - 3 k_1 k_2^2 k_3 k_4^2 k_5 k_6 k_9 k_{10}^2 k_{13} - 3 k_1 k_2^2 k_3 \\
& k_4^2 k_5 k_6 k_9 k_{10} k_{11} k_{13} - 3 k_1 k_2^2 k_3 k_4^2 k_6^2 k_8 k_{10}^2 k_{13} - 3 k_1 k_2^2 k_3 k_4^2 k_6^2 k_8 k_{10} k_{11} k_{13} - 3 k_1 \\
& k_2^2 k_3 k_4^2 k_6^2 k_9 k_{10}^2 k_{13} - 3 k_1 k_2^2 k_3 k_4^2 k_6^2 k_9 k_{10} k_{11} k_{13} - 3 k_1 k_2^2 k_3 k_4^2 k_6 k_8 k_{10}^2 k_{13}^2 - 3 k_1 \\
& k_2^2 k_3 k_4^2 k_6 k_8 k_{10} k_{11} k_{13}^2 - 3 k_1 k_2^2 k_3 k_4^2 k_6 k_9 k_{10}^2 k_{13}^2 - 3 k_1 k_2^2 k_3 k_4^2 k_6 k_9 k_{10} k_{11} k_{13}^2 - 3 k_1 \\
& k_2^2 k_4^2 k_5 k_6^2 k_8 k_{10}^2 k_{12} - 3 k_1 k_2^2 k_4^2 k_5 k_6^2 k_8 k_{10} k_{11} k_{12} - 3 k_1 k_2^2 k_4^2 k_5 k_6^2 k_9 k_{10}^2 k_{12} - 3 k_1 k_2^2 \\
& k_4^2 k_5 k_6^2 k_9 k_{10} k_{11} k_{12} - 3 k_1 k_2^2 k_4^2 k_6^3 k_8 k_{10}^2 k_{12} - 3 k_1 k_2^2 k_4^2 k_6^3 k_8 k_{10} k_{11} k_{12} - 3 k_1 k_2^2 k_4^2 \\
& k_6^2 k_9 k_{10}^2 k_{12} - 3 k_1 k_2^2 k_4^2 k_6^3 k_9 k_{10} k_{11} k_{12} - 3 k_1 k_2^2 k_4^2 k_6^2 k_8 k_{10}^2 k_{12} k_{13} - 3 k_1 k_2^2 k_4^2 k_6^2 \\
& k_8 k_{10} k_{11} k_{12} k_{13} - 3 k_1 k_2^2 k_4^2 k_6^2 k_9 k_{10}^2 k_{12} k_{13} - 3 k_1 k_2^2 k_4^2 k_6^2 k_9 k_{10} k_{11} k_{12} k_{13} \\
& - 6 k_1 k_2 k_3^2 k_4^2 k_5 k_6 k_8 k_{10}^2 k_{13} - 6 k_1 k_2 k_3^2 k_4^2 k_5 k_6 k_8 k_{10} k_{11} k_{13} - 6 k_1 k_2 k_3^2 k_4^2 k_5 k_6 k_9 \\
& k_{10}^2 k_{13} - 6 k_1 k_2 k_3^2 k_4^2 k_5 k_6 k_9 k_{10} k_{11} k_{13} - 3 k_1 k_2 k_3^2 k_4^2 k_5 k_8 k_{10}^2 k_{13}^2 - 3 k_1 k_2 k_3^2 \\
& k_4^2 k_5 k_8 k_{10} k_{11} k_{13}^2 - 3 k_1 k_2 k_3^2 k_4^2 k_5 k_9 k_{10}^2 k_{13}^2 - 3 k_1 k_2 k_3^2 k_4^2 k_5 k_9 k_{10} k_{11} k_{13}^2 - 6 k_1 k_2 k_3^2 \\
& k_4^2 k_6^2 k_8 k_{10}^2 k_{13} - 6 k_1 k_2 k_3^2 k_4^2 k_6^2 k_8 k_{10} k_{11} k_{13} - 6 k_1 k_2 k_3^2 k_4^2 k_6^2 k_9 k_{10}^2 k_{13} - 6 k_1 k_2 k_3^2 k_4^2 \\
& k_6^2 k_9 k_{10} k_{11} k_{13} - 9 k_1 k_2 k_3^2 k_4^2 k_6 k_8 k_{10}^2 k_{13}^2 - 9 k_1 k_2 k_3^2 k_4^2 k_6 k_8 k_{10} k_{11} k_{13}^2 - 9 k_1 k_2 k_3^2 \\
& k_4^2 k_6 k_9 k_{10}^2 k_{13}^2 - 9 k_1 k_2 k_3^2 k_4^2 k_6 k_9 k_{10} k_{11} k_{13}^2 - 3 k_1 k_2 k_3^2 k_4^2 k_8 k_{10}^2 k_{13}^3 - 3 k_1 k_2 k_3^2 \\
& k_4^2 k_8 k_{10} k_{11} k_{13}^3 - 3 k_1 k_2 k_3^2 k_4^2 k_9 k_{10}^2 k_{13}^3 - 3 k_1 k_2 k_3^2 k_4^2 k_9 k_{10} k_{11} k_{13}^3 - 6 k_1 k_2 k_3 k_4^2 k_5 \\
& k_6^2 k_8 k_{10}^2 k_{12} - 6 k_1 k_2 k_3 k_4^2 k_5 k_6^2 k_8 k_{10} k_{11} k_{12} - 6 k_1 k_2 k_3 k_4^2 k_5 k_6^2 k_9 k_{10}^2 k_{12} - 6 k_1 k_2 k_3 \\
& k_4^2 k_5 k_6^2 k_9 k_{10} k_{11} k_{12} - 9 k_1 k_2 k_3 k_4^2 k_5 k_6 k_8 k_{10}^2 k_{12} k_{13} - 9 k_1 k_2 k_3
\end{aligned}$$

$$\begin{aligned}
& k_4^2 k_5 k_6 k_8 k_{10} k_{11} k_{12} k_{13} - 9 k_1 k_2 k_3 k_4^2 k_5 k_6 k_9 k_{10}^2 k_{12} k_{13} - 9 k_1 k_2 k_3 \\
& k_4^2 k_5 k_6 k_9 k_{10} k_{11} k_{12} k_{13} - 6 k_1 k_2 k_3 k_4^2 k_6^3 k_8 k_{10}^2 k_{12} - 6 k_1 k_2 k_3 k_4^2 k_6^3 k_8 k_{10} k_{11} k_{12} \\
& - 6 k_1 k_2 k_3 k_4^2 k_6^3 k_9 k_{10}^2 k_{12} - 6 k_1 k_2 k_3 k_4^2 k_6^3 k_9 k_{10} k_{11} k_{12} - 15 k_1 k_2 k_3 k_4^2 k_6^2 k_8 \\
& k_{10}^2 k_{12} k_{13} - 15 k_1 k_2 k_3 k_4^2 k_6^2 k_8 k_{10} k_{11} k_{12} k_{13} - 15 k_1 k_2 k_3 k_4^2 k_6^2 k_9 k_{10}^2 k_{12} k_{13} \\
& - 15 k_1 k_2 k_3 k_4^2 k_6^2 k_9 k_{10} k_{11} k_{12} k_{13} - 6 k_1 k_2 k_3 k_4^2 k_6 k_8 k_{10}^2 k_{12} k_{13}^2 - 6 k_1 k_2 k_3 \\
& k_4^2 k_6 k_8 k_{10} k_{11} k_{12} k_{13}^2 - 6 k_1 k_2 k_3 k_4^2 k_6 k_9 k_{10}^2 k_{12} k_{13}^2 - 6 k_1 k_2 k_3 k_4^2 k_6 k_9 k_{10} k_{11} k_{12} k_{13}^2 \\
& - 6 k_1 k_2 k_4^2 k_5 k_6^2 k_8 k_{10}^2 k_{12}^2 - 6 k_1 k_2 k_4^2 k_5 k_6^2 k_8 k_{10} k_{11} k_{12}^2 - 6 k_1 k_2 k_4^2 k_5 k_6^2 k_9 k_{10}^2 k_{12}^2 \\
& - 6 k_1 k_2 k_4^2 k_5 k_6^2 k_9 k_{10} k_{11} k_{12}^2 - 6 k_1 k_2 k_4^2 k_6^3 k_8 k_{10}^2 k_{12}^2 - 6 k_1 k_2 k_4^2 k_6^3 k_8 k_{10} k_{11} k_{12}^2 \\
& - 6 k_1 k_2 k_4^2 k_6^3 k_9 k_{10}^2 k_{12}^2 - 6 k_1 k_2 k_4^2 k_6^3 k_9 k_{10} k_{11} k_{12}^2 - 3 k_1 k_2 k_4^2 k_6^2 k_8 k_{10}^2 k_{12}^2 k_{13} \\
& - 3 k_1 k_2 k_4^2 k_6^2 k_8 k_{10} k_{11} k_{12}^2 k_{13} - 3 k_1 k_2 k_4^2 k_6^2 k_9 k_{10}^2 k_{12}^2 k_{13} - 3 k_1 k_2 k_4^2 k_6^2 k_9 k_{10} k_{11} \\
& k_{12}^2 k_{13} - 3 k_1 k_3^3 k_4^2 k_5 k_6 k_8 k_{10}^2 k_{13} - 3 k_1 k_3^3 k_4^2 k_5 k_6 k_8 k_{10} k_{11} k_{13} - 3 k_1 k_3^3 k_4^2 k_5 k_6 k_9 \\
& k_{10}^2 k_{13} - 3 k_1 k_3^3 k_4^2 k_5 k_6 k_9 k_{10} k_{11} k_{13} - 3 k_1 k_3^3 k_4^2 k_5 k_8 k_{10}^2 k_{13}^2 - 3 k_1 k_3^3 k_4^2 k_5 k_8 k_{10} k_{11} \\
& k_{13}^2 - 3 k_1 k_3^3 k_4^2 k_5 k_9 k_{10}^2 k_{13}^2 - 3 k_1 k_3^3 k_4^2 k_5 k_9 k_{10} k_{11} k_{13}^2 - 3 k_1 k_3^3 k_4^2 k_6^2 k_8 k_{10}^2 k_{13} - 3 k_1 \\
& k_3^3 k_4^2 k_6^2 k_8 k_{10} k_{11} k_{13} - 3 k_1 k_3^3 k_4^2 k_6^2 k_9 k_{10}^2 k_{13} - 3 k_1 k_3^3 k_4^2 k_6^2 k_9 k_{10} k_{11} k_{13} - 6 k_1 k_3^3 \\
& k_4^2 k_6 k_8 k_{10}^2 k_{13}^2 - 6 k_1 k_3^3 k_4^2 k_6 k_8 k_{10} k_{11} k_{13}^2 - 6 k_1 k_3^3 k_4^2 k_6 k_9 k_{10}^2 k_{13}^2 - 6 k_1 k_3^3 \\
& k_4^2 k_6 k_9 k_{10} k_{11} k_{13}^2 - 3 k_1 k_3^3 k_4^2 k_8 k_{10}^2 k_{13}^3 - 3 k_1 k_3^3 k_4^2 k_8 k_{10} k_{11} k_{13}^3 - 3 k_1 k_3^3 k_4^2 k_9 k_{10}^2 k_{13}^3 \\
& - 3 k_1 k_3^3 k_4^2 k_9 k_{10} k_{11} k_{13}^3 - 3 k_1 k_3^2 k_4^2 k_5 k_6^2 k_8 k_{10}^2 k_{12} - 3 k_1 k_3^2 k_4^2 k_5 k_6^2 k_8 k_{10} k_{11} k_{12} \\
& - 3 k_1 k_3^2 k_4^2 k_5 k_6^2 k_9 k_{10}^2 k_{12} - 3 k_1 k_3^2 k_4^2 k_5 k_6^2 k_9 k_{10} k_{11} k_{12} - 9 k_1 k_3^2 k_4^2 k_5 k_6 k_8 k_{10}^2 k_{12} k_{13} \\
& - 9 k_1 k_3^2 k_4^2 k_5 k_6 k_8 k_{10} k_{11} k_{12} k_{13} - 9 k_1 k_3^2 k_4^2 k_5 k_6 k_9 k_{10}^2 k_{12} k_{13} - 9 k_1 k_3^2 \\
& k_4^2 k_5 k_6 k_9 k_{10} k_{11} k_{12} k_{13} - 3 k_1 k_3^2 k_4^2 k_5 k_8 k_{10}^2 k_{12}^2 k_{13} - 3 k_1 k_3^2 k_4^2 k_5 k_8 k_{10} k_{11} k_{12} k_{13}^2 \\
& - 3 k_1 k_3^2 k_4^2 k_5 k_9 k_{10}^2 k_{12}^2 k_{13} - 3 k_1 k_3^2 k_4^2 k_5 k_9 k_{10} k_{11} k_{12} k_{13}^2 - 3 k_1 k_3^2 k_4^2 k_6^3 k_8 k_{10}^2 k_{12} \\
& - 3 k_1 k_3^2 k_4^2 k_6^3 k_8 k_{10} k_{11} k_{12} - 3 k_1 k_3^2 k_4^2 k_6^3 k_9 k_{10}^2 k_{12} - 3 k_1 k_3^2 k_4^2 k_6^3 k_9 k_{10} k_{11} k_{12} \\
& - 12 k_1 k_3^2 k_4^2 k_6^2 k_8 k_{10}^2 k_{12} k_{13} - 12 k_1 k_3^2 k_4^2 k_6^2 k_8 k_{10} k_{11} k_{12} k_{13} - 12 k_1 k_3^2 k_4^2 k_6^2 k_9 \\
& k_{10}^2 k_{12} k_{13} - 12 k_1 k_3^2 k_4^2 k_6^2 k_9 k_{10} k_{11} k_{12} k_{13} - 9 k_1 k_3^2 k_4^2 k_6 k_8 k_{10}^2 k_{12} k_{13}^2 - 9 k_1 k_3^2 \\
& k_4^2 k_6 k_8 k_{10} k_{11} k_{12} k_{13}^2 - 9 k_1 k_3^2 k_4^2 k_6 k_9 k_{10}^2 k_{12} k_{13}^2 - 9 k_1 k_3^2 k_4^2 k_6 k_9 k_{10} k_{11} k_{12} k_{13}^2 \\
& - 6 k_1 k_3 k_4^2 k_5 k_6^2 k_8 k_{10}^2 k_{12}^2 - 6 k_1 k_3 k_4^2 k_5 k_6^2 k_8 k_{10} k_{11} k_{12}^2 - 6 k_1 k_3 k_4^2 k_5 k_6^2 k_9 k_{10}^2 k_{12}^2 \\
& - 6 k_1 k_3 k_4^2 k_5 k_6^2 k_9 k_{10} k_{11} k_{12}^2 - 6 k_1 k_3 k_4^2 k_5 k_6 k_8 k_{10}^2 k_{12}^2 k_{13} - 6 k_1 k_3
\end{aligned}$$

$$\begin{aligned}
& k_4^2 k_5 k_6 k_8 k_{10} k_{11} k_{12}^2 k_{13} - 6 k_1 k_3 k_4^2 k_5 k_6 k_9 k_{10}^2 k_{12}^2 k_{13} - 6 k_1 k_3 k_4^2 k_5 k_6 k_9 k_{10} k_{11} \\
& k_{12}^2 k_{13} - 6 k_1 k_3 k_4^2 k_6^2 k_8 k_{10}^2 k_{12}^2 - 6 k_1 k_3 k_4^2 k_6^2 k_8 k_{10} k_{11} k_{12}^2 - 6 k_1 k_3 k_4^2 k_6^2 k_9 k_{10}^2 k_{12}^2 \\
& - 6 k_1 k_3 k_4^2 k_6^2 k_9 k_{10} k_{11} k_{12}^2 - 9 k_1 k_3 k_4^2 k_6^2 k_8 k_{10}^2 k_{12}^2 k_{13} - 9 k_1 k_3 k_4^2 k_6^2 k_8 k_{10} k_{11} k_{12}^2 k_{13} \\
& - 9 k_1 k_3 k_4^2 k_6^2 k_9 k_{10}^2 k_{12}^2 k_{13} - 9 k_1 k_3 k_4^2 k_6^2 k_9 k_{10} k_{11} k_{12}^2 k_{13} - 3 k_1 k_4^2 k_5 k_6^2 k_8 k_{10}^2 k_{12}^2 k_{13} \\
& - 3 k_1 k_4^2 k_5 k_6^2 k_8 k_{10} k_{11} k_{12}^2 k_{13} - 3 k_1 k_4^2 k_5 k_6^2 k_9 k_{10}^2 k_{12}^2 k_{13} - 3 k_1 k_4^2 k_5 k_6^2 k_9 k_{10} k_{11} k_{12}^2 k_{13} \\
& k_4^2 k_6^2 k_8 k_{10}^2 k_{12}^2 k_{13} - 3 k_1 k_4^2 k_6^2 k_8 k_{10} k_{11} k_{12}^2 k_{13} - 3 k_1 k_4^2 k_6^2 k_9 k_{10}^2 k_{12}^2 k_{13} - 3 k_1 k_4^2 k_6^2 k_9 k_{10} k_{11} \\
& k_{12}^2 k_{13} \Big) x_1^2 x_3^2 + k_7 \Big(k_1^2 k_2 k_3 k_4 k_5^2 k_7 k_9 k_{11}^2 k_{12} - k_1^2 k_2 k_3 k_4 k_5^2 k_7 k_9 k_{11} k_{12} k_{13} + 2 \\
& k_1^2 k_2 k_3 k_4 k_5 k_6 k_7 k_9 k_{11}^2 k_{12} - 2 k_1^2 k_2 k_3 k_4 k_5 k_6 k_7 k_9 k_{11} k_{12} k_{13} + k_1^2 k_2 k_3 k_4 k_5 k_7 k_9 \\
& k_{11}^2 k_{12} k_{13} - k_1^2 k_2 k_3 k_4 k_5 k_7 k_9 k_{11} k_{12} k_{13}^2 + k_1^2 k_2 k_3 k_4 k_6^2 k_7 k_9 k_{11}^2 k_{12} - k_1^2 k_2 k_3 k_4 \\
& k_6^2 k_7 k_9 k_{11} k_{12} k_{13} + k_1^2 k_2 k_3 k_4 k_6 k_7 k_9 k_{11}^2 k_{12} k_{13} - k_1^2 k_2 k_3 k_4 k_6 k_7 k_9 k_{11} k_{12} k_{13}^2 - \\
& k_1^2 k_2 k_4 k_5^2 k_6 k_7 k_9 k_{11}^2 k_{12} - k_1^2 k_2 k_4 k_5^2 k_6 k_7 k_9 k_{11} k_{12}^2 - k_1^2 k_2 k_4 k_5^2 k_7 k_9^2 k_{11} k_{12}^2 - \\
& k_1^2 k_2 k_4 k_5^2 k_7 k_9^2 k_{11} k_{12} k_{13} - 2 k_1^2 k_2 k_4 k_5 k_6^2 k_7 k_9 k_{11}^2 k_{12} - 2 k_1^2 k_2 k_4 k_5 k_6^2 k_7 k_9 k_{11} k_{12}^2 \\
& - 2 k_1^2 k_2 k_4 k_5 k_6 k_7 k_9^2 k_{11} k_{12}^2 - 2 k_1^2 k_2 k_4 k_5 k_6 k_7 k_9^2 k_{11} k_{12} k_{13} - k_1^2 k_2 k_4 k_5 k_6 k_7 k_9 \\
& k_{11}^2 k_{12} k_{13} - k_1^2 k_2 k_4 k_5 k_6 k_7 k_9 k_{11} k_{12}^2 k_{13} - k_1^2 k_2 k_4 k_5 k_7 k_9^2 k_{11} k_{12}^2 k_{13} - k_1^2 k_2 k_4 k_5 k_7 \\
& k_9^2 k_{11} k_{12} k_{13}^2 - k_1^2 k_2 k_4 k_6^2 k_7 k_9 k_{11}^2 k_{12} - k_1^2 k_2 k_4 k_6^2 k_7 k_9 k_{11} k_{12}^2 - k_1^2 k_2 k_4 k_6^2 k_7 k_9^2 k_{11} k_{12}^2 \\
& - k_1^2 k_2 k_4 k_6^2 k_7 k_9^2 k_{11} k_{12} k_{13} - k_1^2 k_2 k_4 k_6^2 k_7 k_9 k_{11}^2 k_{12} k_{13} - k_1^2 k_2 k_4 k_6^2 k_7 k_9 k_{11} k_{12}^2 k_{13} \\
& - k_1^2 k_2 k_4 k_6 k_7 k_9^2 k_{11} k_{12}^2 k_{13} - k_1^2 k_2 k_4 k_6 k_7 k_9^2 k_{11} k_{12} k_{13}^2 + k_1^2 k_3^2 k_4 k_5^2 k_7 k_9 k_{11}^2 k_{12} - \\
& k_1^2 k_3^2 k_4 k_5^2 k_7 k_9 k_{11} k_{12} k_{13} + 2 k_1^2 k_3^2 k_4 k_5 k_6 k_7 k_9 k_{11}^2 k_{12} - 2 k_1^2 k_3^2 k_4 k_5 k_6 k_7 k_9 k_{11} k_{12} k_{13} \\
& + k_1^2 k_3^2 k_4 k_5 k_7 k_9 k_{11}^2 k_{12} k_{13} - k_1^2 k_3^2 k_4 k_5 k_7 k_9 k_{11} k_{12} k_{13}^2 + k_1^2 k_3^2 k_4 k_6^2 k_7 k_9 k_{11}^2 k_{12} - \\
& k_1^2 k_3^2 k_4 k_6^2 k_7 k_9 k_{11} k_{12} k_{13} + k_1^2 k_3^2 k_4 k_6 k_7 k_9 k_{11}^2 k_{12} k_{13} - k_1^2 k_3^2 k_4 k_6 k_7 k_9 k_{11} k_{12} k_{13}^2 - \\
& k_1^2 k_3 k_4 k_5^2 k_6 k_7 k_9 k_{11}^2 k_{12} - k_1^2 k_3 k_4 k_5^2 k_6 k_7 k_9 k_{11} k_{12}^2 - k_1^2 k_3 k_4 k_5^2 k_7 k_9^2 k_{11} k_{12}^2 - \\
& k_1^2 k_3 k_4 k_5^2 k_7 k_9^2 k_{11} k_{12} k_{13} + k_1^2 k_3 k_4 k_5^2 k_7 k_9 k_{11}^2 k_{12}^2 - k_1^2 k_3 k_4 k_5^2 k_7 k_9 k_{11} k_{12}^2 k_{13} - 2 \\
& k_1^2 k_3 k_4 k_5 k_6^2 k_7 k_9 k_{11}^2 k_{12} - 2 k_1^2 k_3 k_4 k_5 k_6^2 k_7 k_9 k_{11} k_{12}^2 - 2 k_1^2 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{11} k_{12}^2 \\
& - 2 k_1^2 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{11} k_{12} k_{13} + 2 k_1^2 k_3 k_4 k_5 k_6 k_7 k_9 k_{11}^2 k_{12}^2 - k_1^2 k_3 k_4 k_5 k_6 k_7 k_9 \\
& k_{11}^2 k_{12} k_{13} - 3 k_1^2 k_3 k_4 k_5 k_6 k_7 k_9 k_{11} k_{12}^2 k_{13} - k_1^2 k_3 k_4 k_5 k_7 k_9^2 k_{11} k_{12}^2 k_{13} - k_1^2 k_3 k_4 k_5 k_7 \\
& k_9^2 k_{11} k_{12} k_{13}^2 - k_1^2 k_3 k_4 k_6^2 k_7 k_9 k_{11}^2 k_{12} - k_1^2 k_3 k_4 k_6^2 k_7 k_9 k_{11} k_{12}^2 - k_1^2 k_3 k_4 k_6^2 k_7 k_9^2 k_{11} k_{12}^2 \\
& - k_1^2 k_3 k_4 k_6^2 k_7 k_9^2 k_{11} k_{12} k_{13} + k_1^2 k_3 k_4 k_6^2 k_7 k_9 k_{11}^2 k_{12}^2 - k_1^2 k_3 k_4 k_6^2 k_7 k_9 k_{11} k_{12} k_{13} - 2
\end{aligned}$$

$$\begin{aligned}
& k_1^2 k_3 k_4 k_6^2 k_7 k_9 k_{11} k_{12}^2 k_{13} - k_1^2 k_3 k_4 k_6 k_7 k_9^2 k_{11} k_{12}^2 k_{13} - k_1^2 k_3 k_4 k_6 k_7 k_9^2 k_{11} k_{12} k_{13}^2 - \\
& k_1^2 k_4 k_5^2 k_6 k_7 k_9 k_{11}^2 k_{12}^2 - k_1^2 k_4 k_5^2 k_6 k_7 k_9 k_{11} k_{12}^3 - k_1^2 k_4 k_5^2 k_7 k_9^2 k_{11} k_{12}^2 - k_1^2 k_4 k_5^2 k_7 \\
& k_9^2 k_{11} k_{12}^2 k_{13} - 2 k_1^2 k_4 k_5 k_6^2 k_7 k_9 k_{11}^2 k_{12}^2 - 2 k_1^2 k_4 k_5 k_6^2 k_7 k_9 k_{11} k_{12}^3 - 2 k_1^2 k_4 k_5 k_6 k_7 \\
& k_9^2 k_{11} k_{12}^3 - 2 k_1^2 k_4 k_5 k_6 k_7 k_9^2 k_{11} k_{12}^2 k_{13} - k_1^2 k_4 k_6^3 k_7 k_9 k_{11}^2 k_{12}^2 - k_1^2 k_4 k_6^3 k_7 k_9 k_{11} k_{12}^3 - \\
& k_1^2 k_4 k_6^2 k_7 k_9^2 k_{11} k_{12}^3 - k_1^2 k_4 k_6^2 k_7 k_9^2 k_{11} k_{12}^2 k_{13} - k_1 k_2^2 k_3 k_4^2 k_5 k_7 k_9 k_{10} k_{11} k_{13} - 2 k_1 \\
& k_2^2 k_3 k_4^2 k_5 k_7 k_9 k_{10} k_{13}^2 - 3 k_1 k_2^2 k_3 k_4^2 k_5 k_7 k_9 k_{11} k_{13}^2 - k_1 k_2^2 k_3 k_4^2 k_6 k_7 k_9 k_{10} k_{11} k_{13} \\
& - 2 k_1 k_2^2 k_3 k_4^2 k_6 k_7 k_9 k_{10} k_{13}^2 - 3 k_1 k_2^2 k_3 k_4^2 k_6 k_7 k_9 k_{11} k_{13}^2 - k_1 k_2^2 k_3 k_4^2 k_7 k_9 k_{10} k_{11} k_{13}^2 \\
& - 2 k_1 k_2^2 k_3 k_4^2 k_7 k_9 k_{10} k_{13}^3 - 3 k_1 k_2^2 k_3 k_4^2 k_7 k_9 k_{11} k_{13}^3 + k_1 k_2^2 k_4^2 k_5 k_6 k_7 k_9 k_{10} k_{11} k_{13} \\
& - 2 k_1 k_2^2 k_4^2 k_5 k_6 k_7 k_9 k_{10} k_{12} k_{13} - 3 k_1 k_2^2 k_4^2 k_5 k_6 k_7 k_9 k_{11} k_{12} k_{13} - 2 k_1 k_2^2 k_4^2 k_5 k_7 \\
& k_9^2 k_{10} k_{12} k_{13} - 2 k_1 k_2^2 k_4^2 k_5 k_7 k_9^2 k_{10} k_{13}^2 - 3 k_1 k_2^2 k_4^2 k_5 k_7 k_9^2 k_{11} k_{12} k_{13} - 3 k_1 k_2^2 k_4^2 k_5 k_7 \\
& k_9^2 k_{11} k_{13}^2 + k_1 k_2^2 k_4^2 k_6^2 k_7 k_9 k_{10} k_{11} k_{13} - 2 k_1 k_2^2 k_4^2 k_6^2 k_7 k_9 k_{10} k_{12} k_{13} - 3 k_1 k_2^2 k_4^2 \\
& k_6^2 k_7 k_9 k_{11} k_{12} k_{13} - 2 k_1 k_2^2 k_4^2 k_6 k_7 k_9^2 k_{10} k_{12} k_{13} - 2 k_1 k_2^2 k_4^2 k_6 k_7 k_9^2 k_{10} k_{13}^2 - 3 k_1 k_2^2 \\
& k_4^2 k_6 k_7 k_9^2 k_{11} k_{12} k_{13} - 3 k_1 k_2^2 k_4^2 k_6 k_7 k_9^2 k_{11} k_{13}^2 + k_1 k_2^2 k_4^2 k_6 k_7 k_9 k_{10} k_{11} k_{13}^2 - 2 k_1 k_2^2 \\
& k_4^2 k_6 k_7 k_9 k_{10} k_{12} k_{13}^2 - 3 k_1 k_2^2 k_4^2 k_6 k_7 k_9 k_{11} k_{12} k_{13}^2 - 2 k_1 k_2^2 k_4^2 k_7 k_9^2 k_{10} k_{12} k_{13}^2 - 2 k_1 \\
& k_2^2 k_4^2 k_7 k_9^2 k_{10} k_{13}^3 - 3 k_1 k_2^2 k_4^2 k_7 k_9^2 k_{11} k_{12} k_{13}^2 - 3 k_1 k_2^2 k_4^2 k_7 k_9^2 k_{11} k_{13}^3 - 2 k_1 k_2 k_3^2 \\
& k_4^2 k_5 k_7 k_9 k_{10} k_{11} k_{13} - 4 k_1 k_2 k_3^2 k_4^2 k_5 k_7 k_9 k_{10} k_{13}^2 - 6 k_1 k_2 k_3^2 k_4^2 k_5 k_7 k_9 k_{11} k_{13}^2 \\
& - 2 k_1 k_2 k_3^2 k_4^2 k_6 k_7 k_9 k_{10} k_{11} k_{13} - 4 k_1 k_2 k_3^2 k_4^2 k_6 k_7 k_9 k_{10} k_{13}^2 - 6 k_1 k_2 k_3^2 \\
& k_4^2 k_6 k_7 k_9 k_{11} k_{13}^2 - 2 k_1 k_2 k_3^2 k_4^2 k_7 k_9 k_{10} k_{11} k_{13}^2 - 4 k_1 k_2 k_3^2 k_4^2 k_7 k_9 k_{10} k_{13}^3 - 6 k_1 k_2 k_3^2 \\
& k_4^2 k_7 k_9 k_{11} k_{13}^3 + 2 k_1 k_2 k_3 k_4^2 k_5 k_6 k_7 k_9 k_{10} k_{11} k_{13} - 4 k_1 k_2 k_3 k_4^2 k_5 k_6 k_7 k_9 k_{10} k_{12} k_{13} \\
& - 6 k_1 k_2 k_3 k_4^2 k_5 k_6 k_7 k_9 k_{11} k_{12} k_{13} - 4 k_1 k_2 k_3 k_4^2 k_5 k_7 k_9^2 k_{10} k_{12} k_{13} - 4 k_1 k_2 k_3 \\
& k_4^2 k_5 k_7 k_9^2 k_{10} k_{13}^2 - 6 k_1 k_2 k_3 k_4^2 k_5 k_7 k_9^2 k_{11} k_{12} k_{13} - 6 k_1 k_2 k_3 k_4^2 k_5 k_7 k_9^2 k_{11} k_{13}^2 \\
& - k_1 k_2 k_3 k_4^2 k_5 k_7 k_9 k_{10} k_{11} k_{12} k_{13} - 2 k_1 k_2 k_3 k_4^2 k_5 k_7 k_9 k_{10} k_{12} k_{13}^2 - 3 k_1 k_2 k_3 \\
& k_4^2 k_5 k_7 k_9 k_{11} k_{12} k_{13}^2 + 2 k_1 k_2 k_3 k_4^2 k_6^2 k_7 k_9 k_{10} k_{11} k_{13} - 4 k_1 k_2 k_3 k_4^2 k_6^2 k_7 k_9 k_{10} k_{12} k_{13} \\
& - 6 k_1 k_2 k_3 k_4^2 k_6^2 k_7 k_9 k_{11} k_{12} k_{13} - 4 k_1 k_2 k_3 k_4^2 k_6 k_7 k_9^2 k_{10} k_{12} k_{13} - 4 k_1 k_2 k_3 k_4^2 k_6 k_7 \\
& k_9^2 k_{10} k_{13}^2 - 6 k_1 k_2 k_3 k_4^2 k_6 k_7 k_9^2 k_{11} k_{12} k_{13} - 6 k_1 k_2 k_3 k_4^2 k_6 k_7 k_9^2 k_{11} k_{13}^2 - k_1 k_2 k_3 \\
& k_4^2 k_6 k_7 k_9 k_{10} k_{11} k_{12} k_{13} + 2 k_1 k_2 k_3 k_4^2 k_6 k_7 k_9 k_{10} k_{11} k_{13}^2 - 6 k_1 k_2 k_3 k_4^2 k_6 k_7 k_9 k_{10} k_{12} \\
& k_{13}^2 - 9 k_1 k_2 k_3 k_4^2 k_6 k_7 k_9 k_{11} k_{12} k_{13}^2 - 4 k_1 k_2 k_3 k_4^2 k_7 k_9^2 k_{10} k_{12} k_{13}^2 - 4 k_1 k_2 k_3 k_4^2 k_7
\end{aligned}$$

$$\begin{aligned}
& k_9^2 k_{10} k_{13}^3 - 6 k_1 k_2 k_3 k_4^2 k_7 k_9^2 k_{11} k_{12} k_{13}^2 - 6 k_1 k_2 k_3 k_4^2 k_7 k_9^2 k_{11} k_{13}^3 + k_1 k_2 \\
& k_4^2 k_5 k_6 k_7 k_9 k_{10} k_{11} k_{12} k_{13} - 2 k_1 k_2 k_4^2 k_5 k_6 k_7 k_9 k_{10} k_{12}^2 k_{13} - 3 k_1 k_2 k_4^2 k_5 k_6 k_7 k_9 k_{11} \\
& k_{12}^2 k_{13} - 2 k_1 k_2 k_4^2 k_5 k_7 k_9^2 k_{10} k_{12}^2 k_{13} - 2 k_1 k_2 k_4^2 k_5 k_7 k_9^2 k_{10} k_{12} k_{13}^2 - 3 k_1 k_2 k_4^2 k_5 k_7 \\
& k_9^2 k_{11} k_{12}^2 k_{13} - 3 k_1 k_2 k_4^2 k_5 k_7 k_9^2 k_{11} k_{12} k_{13}^2 + k_1 k_2 k_4^2 k_6^2 k_7 k_9 k_{10} k_{11} k_{12} k_{13} - 2 k_1 k_2 k_4^2 \\
& k_6^2 k_7 k_9 k_{10} k_{12}^2 k_{13} - 3 k_1 k_2 k_4^2 k_6^2 k_7 k_9 k_{11} k_{12}^2 k_{13} - 2 k_1 k_2 k_4^2 k_6 k_7 k_9^2 k_{10} k_{12}^2 k_{13} \\
& - 2 k_1 k_2 k_4^2 k_6 k_7 k_9^2 k_{10} k_{12} k_{13}^2 - 3 k_1 k_2 k_4^2 k_6 k_7 k_9^2 k_{11} k_{12}^2 k_{13} - 3 k_1 k_2 k_4^2 k_6 k_7 \\
& k_9^2 k_{11} k_{12} k_{13}^2 - k_1 k_3^3 k_4^2 k_5 k_7 k_9 k_{10} k_{11} k_{13} - 2 k_1 k_3^3 k_4^2 k_5 k_7 k_9 k_{10} k_{13}^2 - 3 k_1 k_3^3 \\
& k_4^2 k_5 k_7 k_9 k_{11} k_{13}^2 - k_1 k_3^3 k_4^2 k_6 k_7 k_9 k_{10} k_{11} k_{13} - 2 k_1 k_3^3 k_4^2 k_6 k_7 k_9 k_{10} k_{13}^2 - 3 k_1 k_3^3 \\
& k_4^2 k_6 k_7 k_9 k_{11} k_{13}^2 - k_1 k_3^3 k_4^2 k_7 k_9 k_{10} k_{11} k_{13}^2 - 2 k_1 k_3^3 k_4^2 k_7 k_9 k_{10} k_{13}^3 - 3 k_1 k_3^3 \\
& k_4^2 k_7 k_9 k_{11} k_{13}^3 + k_1 k_3^2 k_4^2 k_5 k_6 k_7 k_9 k_{10} k_{11} k_{13} - 2 k_1 k_3^2 k_4^2 k_5 k_6 k_7 k_9 k_{10} k_{12} k_{13} - 3 k_1 \\
& k_3^2 k_4^2 k_5 k_6 k_7 k_9 k_{11} k_{12} k_{13} - 2 k_1 k_3^2 k_4^2 k_5 k_7 k_9^2 k_{10} k_{12} k_{13} - 2 k_1 k_3^2 k_4^2 k_5 k_7 k_9^2 k_{10} k_{13}^2 \\
& - 3 k_1 k_3^2 k_4^2 k_5 k_7 k_9^2 k_{11} k_{12} k_{13} - 3 k_1 k_3^2 k_4^2 k_5 k_7 k_9^2 k_{11} k_{13}^2 - k_1 k_3^2 \\
& k_4^2 k_5 k_7 k_9 k_{10} k_{11} k_{12} k_{13} - 2 k_1 k_3^2 k_4^2 k_5 k_7 k_9 k_{10} k_{12} k_{13}^2 - 3 k_1 k_3^2 k_4^2 k_5 k_7 k_9 k_{11} k_{12} k_{13}^2 \\
& + k_1 k_3^2 k_4^2 k_6^2 k_7 k_9 k_{10} k_{11} k_{13} - 2 k_1 k_3^2 k_4^2 k_6^2 k_7 k_9 k_{10} k_{12} k_{13} - 3 k_1 k_3^2 k_4^2 \\
& k_6^2 k_7 k_9 k_{11} k_{12} k_{13} - 2 k_1 k_3^2 k_4^2 k_6 k_7 k_9^2 k_{10} k_{12} k_{13} - 2 k_1 k_3^2 k_4^2 k_6 k_7 k_9^2 k_{10} k_{13}^2 - 3 k_1 k_3^2 \\
& k_4^2 k_6 k_7 k_9^2 k_{11} k_{12} k_{13} - 3 k_1 k_3^2 k_4^2 k_6 k_7 k_9^2 k_{11} k_{13}^2 - k_1 k_3^2 k_4^2 k_6 k_7 k_9 k_{10} k_{11} k_{12} k_{13} + k_1 k_3^2 \\
& k_4^2 k_6 k_7 k_9 k_{10} k_{11} k_{13}^2 - 4 k_1 k_3^2 k_4^2 k_6 k_7 k_9 k_{10} k_{12} k_{13}^2 - 6 k_1 k_3^2 k_4^2 k_6 k_7 k_9 k_{11} k_{12} k_{13}^2 \\
& - 2 k_1 k_3^2 k_4^2 k_7 k_9^2 k_{10} k_{12} k_{13}^2 - 2 k_1 k_3^2 k_4^2 k_7 k_9^2 k_{10} k_{13}^3 - 3 k_1 k_3^2 k_4^2 k_7 k_9^2 k_{11} k_{12} k_{13}^2 - 3 k_1 \\
& k_3^2 k_4^2 k_7 k_9^2 k_{11} k_{13}^3 + k_1 k_3 k_4^2 k_5 k_6 k_7 k_9 k_{10} k_{11} k_{12} k_{13} - 2 k_1 k_3 k_4^2 k_5 k_6 k_7 k_9 k_{10} k_{12}^2 k_{13} \\
& - 3 k_1 k_3 k_4^2 k_5 k_6 k_7 k_9 k_{11} k_{12}^2 k_{13} - 2 k_1 k_3 k_4^2 k_5 k_7 k_9^2 k_{10} k_{12}^2 k_{13} - 2 k_1 k_3 k_4^2 k_5 k_7 \\
& k_9^2 k_{10} k_{12} k_{13}^2 - 3 k_1 k_3 k_4^2 k_5 k_7 k_9^2 k_{11} k_{12} k_{13} - 3 k_1 k_3 k_4^2 k_5 k_7 k_9^2 k_{11} k_{12} k_{13}^2 + k_1 k_3 k_4^2 \\
& k_6^2 k_7 k_9 k_{10} k_{11} k_{12} k_{13} - 2 k_1 k_3 k_4^2 k_6^2 k_7 k_9 k_{10} k_{12}^2 k_{13} - 3 k_1 k_3 k_4^2 k_6^2 k_7 k_9 k_{11} k_{12}^2 k_{13} \\
& - 2 k_1 k_3 k_4^2 k_6 k_7 k_9^2 k_{10} k_{12}^2 k_{13} - 2 k_1 k_3 k_4^2 k_6 k_7 k_9^2 k_{10} k_{12} k_{13}^2 - 3 k_1 k_3 k_4^2 k_6 k_7 k_9^2 k_{11} \\
& k_{12}^2 k_{13} - 3 k_1 k_3 k_4^2 k_6 k_7 k_9^2 k_{11} k_{12} k_{13}^2) x_1^2 x_3 x_7^2 + k_7 (k_1^2 k_2 k_3 k_4 k_5^2 k_8 k_9 k_{11}^2 k_{12} - \\
& k_1^2 k_2 k_3 k_4 k_5^2 k_8 k_9 k_{11} k_{12} k_{13} + k_1^2 k_2 k_3 k_4 k_5^2 k_9^2 k_{11}^2 k_{12} - k_1^2 k_2 k_3 k_4 k_5^2 k_9^2 k_{11} k_{12} k_{13} + 2 \\
& k_1^2 k_2 k_3 k_4 k_5 k_6 k_8 k_9 k_{11}^2 k_{12} - 2 k_1^2 k_2 k_3 k_4 k_5 k_6 k_8 k_9 k_{11} k_{12} k_{13} + 2 k_1^2 k_2 k_3 k_4 k_5 k_6 k_9^2 \\
& k_{11} k_{12} - 2 k_1^2 k_2 k_3 k_4 k_5 k_6 k_9^2 k_{11} k_{12} k_{13} + k_1^2 k_2 k_3 k_4 k_5 k_8 k_9 k_{11}^2 k_{12} k_{13} -
\end{aligned}$$

$$\begin{aligned}
& k_1^2 k_2 k_3 k_4 k_5 k_8 k_9 k_{11} k_{12} k_{13}^2 + k_1^2 k_2 k_3 k_4 k_5 k_9^2 k_{11}^2 k_{12} k_{13} - k_1^2 k_2 k_3 k_4 k_5 k_9^2 k_{11} k_{12} k_{13}^2 \\
& + k_1^2 k_2 k_3 k_4 k_6^2 k_8 k_9 k_{11}^2 k_{12} - k_1^2 k_2 k_3 k_4 k_6^2 k_8 k_9 k_{11} k_{12} k_{13} + k_1^2 k_2 k_3 k_4 k_6^2 k_9^2 k_{11}^2 k_{12} - \\
& k_1^2 k_2 k_3 k_4 k_6^2 k_9^2 k_{11} k_{12} k_{13} + k_1^2 k_2 k_3 k_4 k_6 k_8 k_9 k_{11}^2 k_{12} k_{13} - k_1^2 k_2 k_3 k_4 k_6 k_8 k_9 k_{11} k_{12} k_{13}^2 \\
& + k_1^2 k_2 k_3 k_4 k_6 k_9^2 k_{11}^2 k_{12} k_{13} - k_1^2 k_2 k_3 k_4 k_6 k_9^2 k_{11} k_{12} k_{13}^2 - k_1^2 k_2 k_4 k_5^2 k_6 k_8 k_9 k_{11}^2 k_{12} \\
& - k_1^2 k_2 k_4 k_5^2 k_6 k_8 k_9 k_{11} k_{12}^2 - k_1^2 k_2 k_4 k_5^2 k_6 k_9^2 k_{11}^2 k_{12} - k_1^2 k_2 k_4 k_5^2 k_6 k_9^2 k_{11} k_{12}^2 - 2 \\
& k_1^2 k_2 k_4 k_5 k_6^2 k_8 k_9 k_{11}^2 k_{12} - 2 k_1^2 k_2 k_4 k_5 k_6^2 k_8 k_9 k_{11} k_{12}^2 - 2 k_1^2 k_2 k_4 k_5 k_6^2 k_9^2 k_{11}^2 k_{12} - 2 \\
& k_1^2 k_2 k_4 k_5 k_6^2 k_9^2 k_{11} k_{12}^2 - k_1^2 k_2 k_4 k_5 k_6 k_8 k_9 k_{11}^2 k_{12} k_{13} - k_1^2 k_2 k_4 k_5 k_6 k_8 k_9 k_{11} k_{12}^2 k_{13} - \\
& k_1^2 k_2 k_4 k_5 k_6 k_9^2 k_{11}^2 k_{12} k_{13} - k_1^2 k_2 k_4 k_5 k_6 k_9^2 k_{11} k_{12}^2 k_{13} - k_1^2 k_2 k_4 k_6^3 k_8 k_9 k_{11}^2 k_{12} - \\
& k_1^2 k_2 k_4 k_6^3 k_8 k_9 k_{11} k_{12}^2 - k_1^2 k_2 k_4 k_6^3 k_9^2 k_{11}^2 k_{12} - k_1^2 k_2 k_4 k_6^2 k_8 k_9 \\
& k_{11}^2 k_{12} k_{13} - k_1^2 k_2 k_4 k_6^2 k_8 k_9 k_{11} k_{12}^2 k_{13} - k_1^2 k_2 k_4 k_6^2 k_9^2 k_{11}^2 k_{12} k_{13} - k_1^2 k_2 k_4 k_6^2 k_9^2 k_{11} \\
& k_{12}^2 k_{13} + k_1^2 k_3^2 k_4 k_5^2 k_8 k_9 k_{11}^2 k_{12} - k_1^2 k_3^2 k_4 k_5^2 k_8 k_9 k_{11} k_{12} k_{13} + k_1^2 k_3^2 k_4 k_5^2 k_9^2 k_{11}^2 k_{12} - \\
& k_1^2 k_3^2 k_4 k_5^2 k_9^2 k_{11} k_{12} k_{13} + 2 k_1^2 k_3^2 k_4 k_5 k_6 k_8 k_9 k_{11}^2 k_{12} - 2 k_1^2 k_3^2 k_4 k_5 k_6 k_8 k_9 k_{11} k_{12} k_{13} \\
& + 2 k_1^2 k_3^2 k_4 k_5 k_6 k_9^2 k_{11}^2 k_{12} - 2 k_1^2 k_3^2 k_4 k_5 k_6 k_9^2 k_{11} k_{12} k_{13} + k_1^2 k_3^2 k_4 k_5 k_8 k_9 k_{11}^2 k_{12} k_{13} \\
& - k_1^2 k_3^2 k_4 k_5 k_8 k_9 k_{11} k_{12} k_{13}^2 + k_1^2 k_3^2 k_4 k_5 k_9^2 k_{11}^2 k_{12} k_{13} - k_1^2 k_3^2 k_4 k_5 k_9^2 k_{11} k_{12} k_{13}^2 + k_1^2 \\
& k_3^2 k_4 k_6^2 k_8 k_9 k_{11}^2 k_{12} - k_1^2 k_3^2 k_4 k_6^2 k_8 k_9 k_{11} k_{12} k_{13} + k_1^2 k_3^2 k_4 k_6^2 k_9^2 k_{11}^2 k_{12} - k_1^2 k_3^2 k_4 k_6^2 \\
& k_9^2 k_{11} k_{12} k_{13} + k_1^2 k_3^2 k_4 k_6 k_8 k_9 k_{11}^2 k_{12} k_{13} - k_1^2 k_3^2 k_4 k_6 k_8 k_9 k_{11} k_{12} k_{13}^2 + k_1^2 k_3^2 k_4 k_6 k_9^2 \\
& k_{11}^2 k_{12} k_{13} - k_1^2 k_3^2 k_4 k_6 k_9^2 k_{11} k_{12} k_{13}^2 - k_1^2 k_3 k_4 k_5^2 k_6 k_8 k_9 k_{11}^2 k_{12} - k_1^2 k_3 k_4 \\
& k_5^2 k_6 k_8 k_9 k_{11} k_{12}^2 - k_1^2 k_3 k_4 k_5^2 k_6 k_9^2 k_{11}^2 k_{12} - k_1^2 k_3 k_4 k_5^2 k_6 k_9^2 k_{11} k_{12}^2 + k_1^2 k_3 k_4 k_5^2 k_8 k_9 \\
& k_{11}^2 k_{12}^2 - k_1^2 k_3 k_4 k_5^2 k_8 k_9 k_{11} k_{12}^2 k_{13} + k_1^2 k_3 k_4 k_5^2 k_9^2 k_{11}^2 k_{12}^2 - k_1^2 k_3 k_4 k_5^2 k_9^2 k_{11} k_{12}^2 k_{13} \\
& - 2 k_1^2 k_3 k_4 k_5 k_6^2 k_8 k_9 k_{11}^2 k_{12} - 2 k_1^2 k_3 k_4 k_5 k_6^2 k_8 k_9 k_{11} k_{12}^2 - 2 k_1^2 k_3 k_4 k_5 k_6^2 k_9^2 k_{11}^2 k_{12} \\
& - 2 k_1^2 k_3 k_4 k_5 k_6^2 k_9^2 k_{11} k_{12}^2 + 2 k_1^2 k_3 k_4 k_5 k_6 k_8 k_9 k_{11}^2 k_{12}^2 - k_1^2 k_3 k_4 k_5 k_6 k_8 k_9 k_{11} k_{12} k_{13} \\
& - 3 k_1^2 k_3 k_4 k_5 k_6 k_8 k_9 k_{11} k_{12}^2 k_{13} + 2 k_1^2 k_3 k_4 k_5 k_6 k_9^2 k_{11}^2 k_{12}^2 - k_1^2 k_3 k_4 k_5 k_6 k_9^2 \\
& k_{11} k_{12} k_{13} - 3 k_1^2 k_3 k_4 k_5 k_6 k_9^2 k_{11} k_{12}^2 k_{13} - k_1^2 k_3 k_4 k_6^3 k_8 k_9 k_{11}^2 k_{12} - k_1^2 k_3 k_4 k_6^3 k_8 k_9 k_{11} \\
& k_{12}^2 - k_1^2 k_3 k_4 k_6^3 k_9^2 k_{11}^2 k_{12}^2 + k_1^2 k_3 k_4 k_6^2 k_8 k_9 k_{11}^2 k_{12}^2 - k_1^2 k_3 k_4 k_6^2 k_8 k_9 k_{11} k_{12}^2 k_{13} \\
& k_6^2 k_8 k_9 k_{11}^2 k_{12} k_{13} - 2 k_1^2 k_3 k_4 k_6^2 k_8 k_9 k_{11} k_{12}^2 k_{13} + k_1^2 k_3 k_4 k_6^2 k_9^2 k_{11}^2 k_{12}^2 - k_1^2 k_3 k_4 k_6^2 k_9^2 \\
& k_{11} k_{12} k_{13} - 2 k_1^2 k_3 k_4 k_6^2 k_9^2 k_{11} k_{12}^2 k_{13} - k_1^2 k_4 k_5^2 k_6 k_8 k_9 k_{11}^2 k_{12}^2 - k_1^2 k_4 k_5^2 k_6 k_8 k_9 k_{11} \\
& k_{12}^2 - k_1^2 k_4 k_5^2 k_6 k_9^2 k_{11}^2 k_{12}^2 - k_1^2 k_4 k_5^2 k_6 k_9^2 k_{11} k_{12}^2 k_{13} - 2 k_1^2 k_4 k_5 k_6^2 k_8 k_9 k_{11}^2 k_{12}^2 - 2 k_1^2 k_4 k_5 \\
& k_{12}^2 - k_1^2 k_4 k_5 k_6^2 k_8 k_9 k_{11} k_{12}^2 k_{13} - 2 k_1^2 k_4 k_5 k_6^2 k_8 k_9 k_{11} k_{12}^2 - 2 k_1^2 k_4 k_5
\end{aligned}$$

$$\begin{aligned}
& k_6^2 k_8 k_9 k_{11} k_{12}^3 - 2 k_1^2 k_4 k_5 k_6^2 k_9^2 k_{11}^2 k_{12}^2 - 2 k_1^2 k_4 k_5 k_6^2 k_9^2 k_{11} k_{12}^3 - k_1^2 k_4 k_6^3 k_8 k_9 k_{11}^2 k_{12}^2 \\
& - k_1^2 k_4 k_6^3 k_8 k_9 k_{11} k_{12}^3 - k_1^2 k_4 k_6^3 k_9^2 k_{11}^2 k_{12}^2 - k_1^2 k_4 k_6^3 k_9^2 k_{11} k_{12}^3 - k_1 k_2^2 k_3 \\
& k_4^2 k_5 k_8 k_9 k_{10} k_{11} k_{13} - 2 k_1 k_2^2 k_3 k_4^2 k_5 k_8 k_9 k_{10} k_{13}^2 - 3 k_1 k_2^2 k_3 k_4^2 k_5 k_8 k_9 k_{11} k_{13}^2 - k_1 \\
& k_2^2 k_3 k_4^2 k_5 k_9^2 k_{10} k_{11} k_{13} - 2 k_1 k_2^2 k_3 k_4^2 k_5 k_9^2 k_{10} k_{13}^2 - 3 k_1 k_2^2 k_3 k_4^2 k_5 k_9^2 k_{11} k_{13}^2 - k_1 k_2^2 k_3 \\
& k_4^2 k_6 k_8 k_9 k_{10} k_{11} k_{13} - 2 k_1 k_2^2 k_3 k_4^2 k_6 k_8 k_9 k_{10} k_{13}^2 - 3 k_1 k_2^2 k_3 k_4^2 k_6 k_8 k_9 k_{11} k_{13}^2 - k_1 \\
& k_2^2 k_3 k_4^2 k_6 k_9^2 k_{10} k_{11} k_{13} - 2 k_1 k_2^2 k_3 k_4^2 k_6 k_9^2 k_{10} k_{13}^2 - 3 k_1 k_2^2 k_3 k_4^2 k_6 k_9^2 k_{11} k_{13}^2 - k_1 k_2^2 k_3 \\
& k_4^2 k_8 k_9 k_{10} k_{11} k_{13}^2 - 2 k_1 k_2^2 k_3 k_4^2 k_8 k_9 k_{10} k_{13}^3 - 3 k_1 k_2^2 k_3 k_4^2 k_8 k_9 k_{11} k_{13}^3 - k_1 k_2^2 k_3 k_4^2 \\
& k_9^2 k_{10} k_{11} k_{13}^2 - 2 k_1 k_2^2 k_3 k_4^2 k_9^2 k_{10} k_{13}^3 - 3 k_1 k_2^2 k_3 k_4^2 k_9^2 k_{11} k_{13}^3 + k_1 k_2^2 \\
& k_4^2 k_5 k_6 k_8 k_9 k_{10} k_{11} k_{13} - 2 k_1 k_2^2 k_4^2 k_5 k_6 k_8 k_9 k_{10} k_{12} k_{13} - 3 k_1 k_2^2 \\
& k_4^2 k_5 k_6 k_8 k_9 k_{11} k_{12} k_{13} + k_1 k_2^2 k_4^2 k_5 k_6 k_9^2 k_{10} k_{11} k_{13} - 2 k_1 k_2^2 k_4^2 k_5 k_6 k_9^2 k_{10} k_{12} k_{13} \\
& - 3 k_1 k_2^2 k_4^2 k_5 k_6 k_9^2 k_{11} k_{12} k_{13} + k_1 k_2^2 k_4^2 k_6^2 k_8 k_9 k_{10} k_{11} k_{13} - 2 k_1 k_2^2 k_4^2 \\
& k_6^2 k_8 k_9 k_{10} k_{12} k_{13} - 3 k_1 k_2^2 k_4^2 k_6^2 k_8 k_9 k_{11} k_{12} k_{13} + k_1 k_2^2 k_4^2 k_6^2 k_9^2 k_{10} k_{11} k_{13} - 2 k_1 k_2^2 k_4^2 \\
& k_6^2 k_9^2 k_{10} k_{12} k_{13} - 3 k_1 k_2^2 k_4^2 k_6^2 k_9^2 k_{11} k_{12} k_{13} + k_1 k_2^2 k_4^2 k_6^2 k_8 k_9 k_{10} k_{11} k_{13}^2 - 2 k_1 k_2^2 \\
& k_4^2 k_6 k_8 k_9 k_{10} k_{12} k_{13}^2 - 3 k_1 k_2^2 k_4^2 k_6 k_8 k_9 k_{11} k_{12} k_{13}^2 + k_1 k_2^2 k_4^2 k_6 k_9^2 k_{10} k_{11} k_{13}^2 - 2 k_1 k_2^2 \\
& k_4^2 k_6 k_9^2 k_{10} k_{12} k_{13}^2 - 3 k_1 k_2^2 k_4^2 k_6 k_9^2 k_{11} k_{12} k_{13}^2 - 2 k_1 k_2 k_3^2 k_4^2 k_5 k_8 k_9 k_{10} k_{11} k_{13} \\
& - 4 k_1 k_2 k_3^2 k_4^2 k_5 k_8 k_9 k_{10} k_{13}^2 - 6 k_1 k_2 k_3^2 k_4^2 k_5 k_8 k_9 k_{11} k_{13}^2 - 2 k_1 k_2 k_3^2 k_4^2 k_5 \\
& k_9^2 k_{10} k_{11} k_{13} - 4 k_1 k_2 k_3^2 k_4^2 k_5 k_9^2 k_{10} k_{13}^2 - 6 k_1 k_2 k_3^2 k_4^2 k_5 k_9^2 k_{11} k_{13}^2 - 2 k_1 k_2 k_3^2 \\
& k_4^2 k_6 k_8 k_9 k_{10} k_{11} k_{13} - 4 k_1 k_2 k_3^2 k_4^2 k_6 k_8 k_9 k_{10} k_{13}^2 - 6 k_1 k_2 k_3^2 k_4^2 k_6 k_8 k_9 k_{11} k_{13}^2 \\
& - 2 k_1 k_2 k_3^2 k_4^2 k_6 k_9^2 k_{10} k_{11} k_{13} - 4 k_1 k_2 k_3^2 k_4^2 k_6 k_9^2 k_{10} k_{13}^2 - 6 k_1 k_2 k_3^2 k_4^2 k_6 k_9^2 k_{11} k_{13}^2 \\
& - 2 k_1 k_2 k_3^2 k_4^2 k_8 k_9 k_{10} k_{11} k_{13}^2 - 4 k_1 k_2 k_3^2 k_4^2 k_8 k_9 k_{10} k_{13}^3 - 6 k_1 k_2 k_3^2 k_4^2 k_8 k_9 k_{11} k_{13}^3 \\
& - 2 k_1 k_2 k_3^2 k_4^2 k_9^2 k_{10} k_{11} k_{13}^2 - 4 k_1 k_2 k_3^2 k_4^2 k_9^2 k_{10} k_{13}^3 - 6 k_1 k_2 k_3^2 k_4^2 k_9^2 k_{11} k_{13}^3 \\
& + 2 k_1 k_2 k_3 k_4^2 k_5 k_6 k_8 k_9 k_{10} k_{11} k_{13} - 4 k_1 k_2 k_3 k_4^2 k_5 k_6 k_8 k_9 k_{10} k_{12} k_{13} - 6 k_1 k_2 k_3 \\
& k_4^2 k_5 k_6 k_8 k_9 k_{11} k_{12} k_{13} + 2 k_1 k_2 k_3 k_4^2 k_5 k_6 k_9^2 k_{10} k_{11} k_{13} - 4 k_1 k_2 k_3 k_4^2 k_5 k_6 \\
& k_9^2 k_{10} k_{12} k_{13} - 6 k_1 k_2 k_3 k_4^2 k_5 k_6 k_9^2 k_{11} k_{12} k_{13} - k_1 k_2 k_3 k_4^2 k_5 k_8 k_9 k_{10} k_{11} k_{12} k_{13} \\
& - 2 k_1 k_2 k_3 k_4^2 k_5 k_8 k_9 k_{10} k_{12} k_{13}^2 - 3 k_1 k_2 k_3 k_4^2 k_5 k_8 k_9 k_{11} k_{12} k_{13}^2 - k_1 k_2 k_3 k_4^2 k_5 \\
& k_9^2 k_{10} k_{11} k_{12} k_{13} - 2 k_1 k_2 k_3 k_4^2 k_5 k_9^2 k_{10} k_{12} k_{13}^2 - 3 k_1 k_2 k_3 k_4^2 k_5 k_9^2 k_{11} k_{12} k_{13}^2 \\
& + 2 k_1 k_2 k_3 k_4^2 k_6^2 k_8 k_9 k_{10} k_{11} k_{13} - 4 k_1 k_2 k_3 k_4^2 k_6^2 k_8 k_9 k_{10} k_{12} k_{13} - 6 k_1 k_2 k_3 k_4^2
\end{aligned}$$

$$\begin{aligned}
& k_6^2 k_8 k_9 k_{11} k_{12} k_{13} + 2 k_1 k_2 k_3 k_4^2 k_6^2 k_9^2 k_{10} k_{11} k_{13} - 4 k_1 k_2 k_3 k_4^2 k_6^2 k_9^2 k_{10} k_{12} k_{13} \\
& - 6 k_1 k_2 k_3 k_4^2 k_6^2 k_9^2 k_{11} k_{12} k_{13} - k_1 k_2 k_3 k_4^2 k_6 k_8 k_9 k_{10} k_{11} k_{12} k_{13} + 2 k_1 k_2 k_3 \\
& k_4^2 k_6 k_8 k_9 k_{10} k_{11} k_{13}^2 - 6 k_1 k_2 k_3 k_4^2 k_6 k_8 k_9 k_{10} k_{12} k_{13}^2 - 9 k_1 k_2 k_3 k_4^2 k_6 k_8 k_9 k_{11} k_{12} k_{13}^2 \\
& - k_1 k_2 k_3 k_4^2 k_6^2 k_9^2 k_{10} k_{11} k_{12} k_{13} + 2 k_1 k_2 k_3 k_4^2 k_6^2 k_9^2 k_{10} k_{11} k_{13}^2 - 6 k_1 k_2 k_3 k_4^2 k_6 \\
& k_9^2 k_{10} k_{12} k_{13}^2 - 9 k_1 k_2 k_3 k_4^2 k_6^2 k_9^2 k_{11} k_{12} k_{13}^2 + k_1 k_2 k_4^2 k_5 k_6 k_8 k_9 k_{10} k_{11} k_{12} k_{13} - 2 k_1 k_2 \\
& k_4^2 k_5 k_6 k_8 k_9 k_{10} k_{12} k_{13} - 3 k_1 k_2 k_4^2 k_5 k_6 k_8 k_9 k_{11} k_{12} k_{13} + k_1 k_2 k_4^2 k_5 k_6 \\
& k_9^2 k_{10} k_{11} k_{12} k_{13} - 2 k_1 k_2 k_4^2 k_5 k_6 k_9^2 k_{10} k_{12} k_{13} - 3 k_1 k_2 k_4^2 k_5 k_6 k_9^2 k_{11} k_{12} k_{13} + k_1 k_2 k_4^2 \\
& k_6^2 k_8 k_9 k_{10} k_{11} k_{12} k_{13} - 2 k_1 k_2 k_4^2 k_6^2 k_8 k_9 k_{10} k_{12} k_{13} - 3 k_1 k_2 k_4^2 k_6^2 k_8 k_9 k_{11} k_{12} k_{13} \\
& + k_1 k_2 k_4^2 k_6^2 k_9^2 k_{10} k_{11} k_{12} k_{13} - 2 k_1 k_2 k_4^2 k_6^2 k_9^2 k_{10} k_{12} k_{13} - 3 k_1 k_2 k_4^2 k_6^2 k_9^2 k_{11} k_{12} k_{13} \\
& - k_1 k_3^3 k_4^2 k_5 k_8 k_9 k_{10} k_{11} k_{13} - 2 k_1 k_3^3 k_4^2 k_5 k_8 k_9 k_{10} k_{13}^2 - 3 k_1 k_3^3 k_4^2 k_5 k_8 k_9 k_{11} k_{13}^2 \\
& - k_1 k_3^3 k_4^2 k_5 k_9^2 k_{10} k_{11} k_{13} - 2 k_1 k_3^3 k_4^2 k_5 k_9^2 k_{10} k_{13}^2 - 3 k_1 k_3^3 k_4^2 k_5 k_9^2 k_{11} k_{13}^2 - k_1 k_3^3 \\
& k_4^2 k_6 k_8 k_9 k_{10} k_{11} k_{13} - 2 k_1 k_3^3 k_4^2 k_6 k_8 k_9 k_{10} k_{13}^2 - 3 k_1 k_3^3 k_4^2 k_6 k_8 k_9 k_{11} k_{13}^2 - k_1 k_3^3 k_4^2 k_6 \\
& k_9^2 k_{10} k_{11} k_{13} - 2 k_1 k_3^3 k_4^2 k_6 k_9^2 k_{10} k_{13}^2 - 3 k_1 k_3^3 k_4^2 k_6 k_9^2 k_{11} k_{13}^2 - k_1 k_3^3 k_4^2 k_8 k_9 k_{10} k_{11} k_{13}^2 \\
& - 2 k_1 k_3^3 k_4^2 k_8 k_9 k_{10} k_{13}^3 - 3 k_1 k_3^3 k_4^2 k_8 k_9 k_{11} k_{13}^3 - k_1 k_3^3 k_4^2 k_9^2 k_{10} k_{11} k_{13}^2 - 2 k_1 k_3^3 k_4^2 \\
& k_9^2 k_{10} k_{13}^3 - 3 k_1 k_3^3 k_4^2 k_9^2 k_{11} k_{13}^3 + k_1 k_3^2 k_4^2 k_5 k_6 k_8 k_9 k_{10} k_{11} k_{13} - 2 k_1 k_3^2 \\
& k_4^2 k_5 k_6 k_8 k_9 k_{10} k_{12} k_{13} - 3 k_1 k_3^2 k_4^2 k_5 k_6 k_8 k_9 k_{11} k_{12} k_{13} + k_1 k_3^2 k_4^2 k_5 k_6 k_9^2 k_{10} k_{11} k_{13} \\
& - 2 k_1 k_3^2 k_4^2 k_5 k_6 k_9^2 k_{10} k_{12} k_{13} - 3 k_1 k_3^2 k_4^2 k_5 k_6 k_9^2 k_{11} k_{12} k_{13} - k_1 k_3^2 \\
& k_4^2 k_5 k_8 k_9 k_{10} k_{11} k_{12} k_{13} - 2 k_1 k_3^2 k_4^2 k_5 k_8 k_9 k_{10} k_{12} k_{13}^2 - 3 k_1 k_3^2 k_4^2 k_5 k_8 k_9 k_{11} k_{12} k_{13}^2 \\
& - k_1 k_3^2 k_4^2 k_5 k_9^2 k_{10} k_{11} k_{12} k_{13} - 2 k_1 k_3^2 k_4^2 k_5 k_9^2 k_{10} k_{12} k_{13}^2 - 3 k_1 k_3^2 k_4^2 k_5 k_9^2 k_{11} k_{12} k_{13}^2 \\
& + k_1 k_3^2 k_4^2 k_6^2 k_8 k_9 k_{10} k_{11} k_{13} - 2 k_1 k_3^2 k_4^2 k_6^2 k_8 k_9 k_{10} k_{12} k_{13} - 3 k_1 k_3^2 k_4^2 \\
& k_6^2 k_8 k_9 k_{11} k_{12} k_{13} + k_1 k_3^2 k_4^2 k_6^2 k_9^2 k_{10} k_{11} k_{13} - 2 k_1 k_3^2 k_4^2 k_6^2 k_9^2 k_{10} k_{12} k_{13} - 3 k_1 k_3^2 k_4^2 k_6^2 \\
& k_9^2 k_{11} k_{12} k_{13} - k_1 k_3^2 k_4^2 k_6 k_8 k_9 k_{10} k_{11} k_{12} k_{13} + k_1 k_3^2 k_4^2 k_6 k_8 k_9 k_{10} k_{11} k_{13}^2 - 4 k_1 k_3^2 \\
& k_4^2 k_6 k_8 k_9 k_{10} k_{12} k_{13}^2 - 6 k_1 k_3^2 k_4^2 k_6 k_8 k_9 k_{11} k_{12} k_{13}^2 - k_1 k_3^2 k_4^2 k_6 k_9^2 k_{10} k_{11} k_{12} k_{13} + k_1 \\
& k_3^2 k_4^2 k_6 k_9^2 k_{10} k_{11} k_{13}^2 - 4 k_1 k_3^2 k_4^2 k_6 k_9^2 k_{10} k_{12} k_{13}^2 - 6 k_1 k_3^2 k_4^2 k_6 k_9^2 k_{11} k_{12} k_{13}^2 + k_1 k_3 \\
& k_4^2 k_5 k_6 k_8 k_9 k_{10} k_{11} k_{12} k_{13} - 2 k_1 k_3 k_4^2 k_5 k_6 k_8 k_9 k_{10} k_{12} k_{13} - 3 k_1 k_3 k_4^2 k_5 k_6 k_8 k_9 k_{11} \\
& k_{12} k_{13} + k_1 k_3 k_4^2 k_5 k_6 k_9^2 k_{10} k_{11} k_{12} k_{13} - 2 k_1 k_3 k_4^2 k_5 k_6 k_9^2 k_{10} k_{12} k_{13} - 3 k_1 k_3 k_4^2 k_5 k_6 \\
& k_9^2 k_{11} k_{12} k_{13} + k_1 k_3 k_4^2 k_6^2 k_8 k_9 k_{10} k_{11} k_{12} k_{13} - 2 k_1 k_3 k_4^2 k_6^2 k_8 k_9 k_{10} k_{12} k_{13} - 3 k_1 k_3 k_4^2
\end{aligned}$$

$$\begin{aligned}
& k_6^2 k_8 k_9 k_{11} k_{12}^2 k_{13} + k_1 k_3 k_4^2 k_6^2 k_9^2 k_{10} k_{11} k_{12} k_{13} - 2 k_1 k_3 k_4^2 k_6^2 k_9^2 k_{10} k_{12}^2 k_{13} - 3 k_1 k_3 k_4^2 \\
& k_6^2 k_9^2 k_{11} k_{12}^2 k_{13} \big) x_1^2 x_3 x_7 + k_7 \big(-k_1 k_2^2 k_4 k_5^2 k_7 k_9^2 k_{11}^2 k_{12} - 3 k_1 k_2^2 k_4 k_5^2 k_7 k_9^2 k_{11}^2 k_{13} \\
& - 2 k_1 k_2^2 k_4 k_5^2 k_7 k_9^2 k_{11} k_{12} k_{13} - 2 k_1 k_2^2 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{12} - 6 k_1 k_2^2 k_4 k_5 k_6 k_7 k_9^2 \\
& k_{11}^2 k_{13} - 4 k_1 k_2^2 k_4 k_5 k_6 k_7 k_9^2 k_{11} k_{12} k_{13} - 4 k_1 k_2^2 k_4 k_5 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 6 k_1 k_2^2 k_4 k_5 k_7 \\
& k_9^2 k_{11}^2 k_{13} - 2 k_1 k_2^2 k_4 k_5 k_7 k_9^2 k_{11} k_{12} k_{13}^2 - k_1 k_2^2 k_4 k_6^2 k_7 k_9^2 k_{11}^2 k_{12} - 3 k_1 k_2^2 k_4 k_6^2 k_7 k_9^2 \\
& k_{11}^2 k_{13} - 2 k_1 k_2^2 k_4 k_6^2 k_7 k_9^2 k_{11} k_{12} k_{13} - 4 k_1 k_2^2 k_4 k_6 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 6 k_1 k_2^2 k_4 k_6 k_7 k_9^2 \\
& k_{11}^2 k_{13}^2 - 2 k_1 k_2^2 k_4 k_6 k_7 k_9^2 k_{11} k_{12} k_{13}^2 - 3 k_1 k_2^2 k_4 k_7 k_9^2 k_{11}^2 k_{12} k_{13}^2 - 3 k_1 k_2^2 k_4 k_7 k_9^2 k_{11}^2 \\
& k_{13}^3 - 2 k_1 k_2 k_3 k_4 k_5^2 k_7 k_9^2 k_{11}^2 k_{12} - 6 k_1 k_2 k_3 k_4 k_5^2 k_7 k_9^2 k_{11}^2 k_{13} - 4 k_1 k_2 k_3 k_4 k_5^2 k_7 \\
& k_9^2 k_{11} k_{12} k_{13} - 4 k_1 k_2 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{12} - 12 k_1 k_2 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{13} \\
& - 8 k_1 k_2 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{11} k_{12} k_{13} - 8 k_1 k_2 k_3 k_4 k_5 k_7 k_9^2 k_{11}^2 k_{12} k_{13} \\
& - 12 k_1 k_2 k_3 k_4 k_5 k_7 k_9^2 k_{11}^2 k_{13}^2 - 4 k_1 k_2 k_3 k_4 k_5 k_7 k_9^2 k_{11} k_{12} k_{13}^2 - 2 k_1 k_2 k_3 k_4 k_6^2 k_7 k_9^2 \\
& k_{11}^2 k_{12} - 6 k_1 k_2 k_3 k_4 k_6^2 k_7 k_9^2 k_{11}^2 k_{13} - 4 k_1 k_2 k_3 k_4 k_6^2 k_7 k_9^2 k_{11} k_{12} k_{13} \\
& - 8 k_1 k_2 k_3 k_4 k_6 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 12 k_1 k_2 k_3 k_4 k_6 k_7 k_9^2 k_{11}^2 k_{13}^2 - 4 k_1 k_2 k_3 k_4 k_6 k_7 \\
& k_9^2 k_{11} k_{12} k_{13}^2 - 6 k_1 k_2 k_3 k_4 k_7 k_9^2 k_{11}^2 k_{12} k_{13}^2 - 6 k_1 k_2 k_3 k_4 k_7 k_9^2 k_{11}^2 k_{13}^3 - 2 k_1 k_2 k_4 k_5^2 k_7 \\
& k_9^2 k_{11}^2 k_{12}^2 - 4 k_1 k_2 k_4 k_5^2 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 2 k_1 k_2 k_4 k_5^2 k_7 k_9^2 k_{11} k_{12}^2 k_{13} \\
& - 4 k_1 k_2 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{12}^2 - 8 k_1 k_2 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 4 k_1 k_2 k_4 k_5 k_6 k_7 \\
& k_9^2 k_{11} k_{12}^2 k_{13} - 4 k_1 k_2 k_4 k_5 k_7 k_9^2 k_{11}^2 k_{12}^2 k_{13} - 4 k_1 k_2 k_4 k_5 k_7 k_9^2 k_{11} k_{12} k_{13}^2 - 2 k_1 k_2 k_4 \\
& k_6^2 k_7 k_9^2 k_{11}^2 k_{12}^2 - 4 k_1 k_2 k_4 k_6^2 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 2 k_1 k_2 k_4 k_6^2 k_7 k_9^2 k_{11} k_{12}^2 k_{13} \\
& - 4 k_1 k_2 k_4 k_6 k_7 k_9^2 k_{11}^2 k_{12}^2 k_{13} - 4 k_1 k_2 k_4 k_6 k_7 k_9^2 k_{11}^2 k_{12} k_{13}^2 - k_1 k_3^2 k_4 k_5^2 k_7 k_9^2 k_{11}^2 k_{12} \\
& - 3 k_1 k_3^2 k_4 k_5^2 k_7 k_9^2 k_{11}^2 k_{13} - 2 k_1 k_3^2 k_4 k_5^2 k_7 k_9^2 k_{11} k_{12} k_{13} - 2 k_1 k_3^2 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{12} \\
& - 6 k_1 k_3^2 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{13} - 4 k_1 k_3^2 k_4 k_5 k_6 k_7 k_9^2 k_{11} k_{12} k_{13} - 4 k_1 k_3^2 k_4 k_5 k_7 k_9^2 \\
& k_{11}^2 k_{12} k_{13} - 6 k_1 k_3^2 k_4 k_5 k_7 k_9^2 k_{11}^2 k_{13}^2 - 2 k_1 k_3^2 k_4 k_5 k_7 k_9^2 k_{11} k_{12} k_{13}^2 - k_1 k_3^2 k_4 k_6^2 k_7 k_9^2 \\
& k_{11}^2 k_{12} - 3 k_1 k_3^2 k_4 k_6^2 k_7 k_9^2 k_{11}^2 k_{13} - 2 k_1 k_3^2 k_4 k_6^2 k_7 k_9^2 k_{11} k_{12} k_{13} - 4 k_1 k_3^2 k_4 k_6 k_7 k_9^2 \\
& k_{11}^2 k_{12} k_{13} - 6 k_1 k_3^2 k_4 k_6 k_7 k_9^2 k_{11}^2 k_{13}^2 - 2 k_1 k_3^2 k_4 k_6 k_7 k_9^2 k_{11} k_{12} k_{13}^2 - 3 k_1 k_3^2 k_4 k_7 k_9^2 \\
& k_{11}^2 k_{12} k_{13}^2 - 3 k_1 k_3^2 k_4 k_7 k_9^2 k_{11}^2 k_{13}^3 - 2 k_1 k_3 k_4 k_5^2 k_7 k_9^2 k_{11}^2 k_{12}^2 - 4 k_1 k_3 k_4 k_5^2 k_7 k_9^2 \\
& k_{11}^2 k_{12} k_{13} - 2 k_1 k_3 k_4 k_5^2 k_7 k_9^2 k_{11} k_{12}^2 k_{13} - 4 k_1 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{12}^2 \\
& - 8 k_1 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 4 k_1 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{11} k_{12}^2 k_{13} - 4 k_1 k_3 k_4 k_5 k_7 k_9^2
\end{aligned}$$

$$\begin{aligned}
& k_{11}^2 k_{12}^2 k_{13} - 4 k_1 k_3 k_4 k_5 k_7 k_9^2 k_{11}^2 k_{12}^2 k_{13}^2 - 2 k_1 k_3 k_4 k_6^2 k_7 k_9^2 k_{11}^2 k_{12}^2 - 4 k_1 k_3 k_4 k_6^2 k_7 k_9^2 \\
& k_{11}^2 k_{12} k_{13} - 2 k_1 k_3 k_4 k_6^2 k_7 k_9^2 k_{11}^2 k_{12}^2 k_{13} - 4 k_1 k_3 k_4 k_6 k_7 k_9^2 k_{11}^2 k_{12}^2 k_{13} \\
& - 4 k_1 k_3 k_4 k_6 k_7 k_9^2 k_{11}^2 k_{12}^2 k_{13} - k_1 k_4 k_5^2 k_7 k_9^2 k_{11}^2 k_{12}^3 - k_1 k_4 k_5^2 k_7 k_9^2 k_{11}^2 k_{12}^2 k_{13} \\
& - 2 k_1 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{12}^3 - 2 k_1 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{12}^2 k_{13} - k_1 k_4 k_6^2 k_7 k_9^2 k_{11}^2 k_{12}^3 \\
& - k_1 k_4 k_6^2 k_7 k_9^2 k_{11}^2 k_{12}^2 k_{13} - 2 k_2^3 k_4^2 k_5 k_7 k_9^2 k_{10} k_{11} k_{13} - k_2^3 k_4^2 k_5 k_7 k_9^2 k_{10} k_{13}^2 - 3 k_2^3 \\
& k_4^2 k_5 k_7 k_9^2 k_{11}^2 k_{13}^2 - 2 k_2^3 k_4^2 k_6 k_7 k_9^2 k_{10} k_{11} k_{13} - k_2^3 k_4^2 k_6 k_7 k_9^2 k_{10} k_{13}^2 - 3 k_2^3 k_4^2 k_6 k_7 \\
& k_9^2 k_{11}^2 k_{13}^2 - 2 k_2^3 k_4^2 k_7 k_9^2 k_{10} k_{11} k_{13}^2 - k_2^3 k_4^2 k_7 k_9^2 k_{10} k_{13}^3 - 3 k_2^3 k_4^2 k_7 k_9^2 k_{11} k_{13}^3 - 6 k_2^2 k_3 \\
& k_4^2 k_5 k_7 k_9^2 k_{10} k_{11} k_{13} - 3 k_2^2 k_3 k_4^2 k_5 k_7 k_9^2 k_{10} k_{13}^2 - 9 k_2^2 k_3 k_4^2 k_5 k_7 k_9^2 k_{11} k_{13}^2 - 6 k_2^2 k_3 \\
& k_4^2 k_6 k_7 k_9^2 k_{10} k_{11} k_{13} - 3 k_2^2 k_3 k_4^2 k_6 k_7 k_9^2 k_{10} k_{13}^2 - 9 k_2^2 k_3 k_4^2 k_6 k_7 k_9^2 k_{11} k_{13}^2 - 6 k_2^2 k_3 \\
& k_4^2 k_7 k_9^2 k_{10} k_{11} k_{13}^2 - 3 k_2^2 k_3 k_4^2 k_7 k_9^2 k_{10} k_{13}^3 - 9 k_2^2 k_3 k_4^2 k_7 k_9^2 k_{11} k_{13}^3 - 4 k_2^2 k_4^2 k_5 k_7 \\
& k_9^2 k_{10} k_{11} k_{12} k_{13} - 2 k_2^2 k_4^2 k_5 k_7 k_9^2 k_{10} k_{11} k_{13}^2 - k_2^2 k_4^2 k_5 k_7 k_9^2 k_{10} k_{12} k_{13}^2 - 3 k_2^2 k_4^2 k_5 k_7 \\
& k_9^2 k_{11} k_{12} k_{13}^2 - 4 k_2^2 k_4^2 k_6 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13} - 2 k_2^2 k_4^2 k_6 k_7 k_9^2 k_{10} k_{11} k_{13}^2 - k_2^2 k_4^2 k_6 k_7 \\
& k_9^2 k_{10} k_{12} k_{13}^2 - 3 k_2^2 k_4^2 k_6 k_7 k_9^2 k_{11} k_{12} k_{13}^2 - 2 k_2^2 k_4^2 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - 2 k_2^2 k_4^2 k_7 \\
& k_9^2 k_{10} k_{11} k_{13}^3 - 6 k_2 k_3^2 k_4^2 k_5 k_7 k_9^2 k_{10} k_{11} k_{13} - 3 k_2 k_3^2 k_4^2 k_5 k_7 k_9^2 k_{10} k_{13}^2 - 9 k_2 k_3^2 k_4^2 k_5 k_7 \\
& k_9^2 k_{11} k_{13}^2 - 6 k_2 k_3^2 k_4^2 k_6 k_7 k_9^2 k_{10} k_{11} k_{13} - 3 k_2 k_3^2 k_4^2 k_6 k_7 k_9^2 k_{10} k_{13}^2 - 9 k_2 k_3^2 k_4^2 k_6 k_7 \\
& k_9^2 k_{11} k_{13}^2 - 6 k_2 k_3^2 k_4^2 k_7 k_9^2 k_{10} k_{11} k_{13}^2 - 3 k_2 k_3^2 k_4^2 k_7 k_9^2 k_{10} k_{13}^3 - 9 k_2 k_3^2 k_4^2 k_7 k_9^2 k_{11} k_{13}^3 \\
& - 8 k_2 k_3 k_4^2 k_5 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13} - 4 k_2 k_3 k_4^2 k_5 k_7 k_9^2 k_{10} k_{11} k_{13}^2 - 2 k_2 k_3 k_4^2 k_5 k_7 \\
& k_9^2 k_{10} k_{12} k_{13}^2 - 6 k_2 k_3 k_4^2 k_5 k_7 k_9^2 k_{11} k_{12} k_{13}^2 - 8 k_2 k_3 k_4^2 k_6 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13} - 4 k_2 k_3 \\
& k_4^2 k_6 k_7 k_9^2 k_{10} k_{11} k_{13}^2 - 2 k_2 k_3 k_4^2 k_6 k_7 k_9^2 k_{10} k_{12} k_{13}^2 - 6 k_2 k_3 k_4^2 k_6 k_7 k_9^2 k_{11} k_{12} k_{13}^2 \\
& - 4 k_2 k_3 k_4^2 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - 4 k_2 k_3 k_4^2 k_7 k_9^2 k_{10} k_{11} k_{13}^3 - 2 k_2 k_4^2 k_5 k_7 k_9^2 k_{10} k_{11} \\
& k_{12}^2 k_{13} - 2 k_2 k_4^2 k_5 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - 2 k_2 k_4^2 k_6 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13} - 2 k_2 k_4^2 k_6 k_7 \\
& k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - 2 k_3^3 k_4^2 k_5 k_7 k_9^2 k_{10} k_{11} k_{13} - k_3^3 k_4^2 k_5 k_7 k_9^2 k_{10} k_{13}^2 - 3 k_3^3 k_4^2 k_5 k_7 k_9^2 k_{11} \\
& k_{13}^2 - 2 k_3^3 k_4^2 k_6 k_7 k_9^2 k_{10} k_{11} k_{13} - k_3^3 k_4^2 k_6 k_7 k_9^2 k_{10} k_{13}^2 - 3 k_3^3 k_4^2 k_6 k_7 k_9^2 k_{11} k_{13}^2 - 2 k_3^3 \\
& k_4^2 k_7 k_9^2 k_{10} k_{11} k_{13}^2 - k_3^3 k_4^2 k_7 k_9^2 k_{10} k_{13}^3 - 3 k_3^3 k_4^2 k_7 k_9^2 k_{11} k_{13}^3 - 4 k_3^2 k_4^2 k_5 k_7 \\
& k_9^2 k_{10} k_{11} k_{12} k_{13} - 2 k_3^2 k_4^2 k_5 k_7 k_9^2 k_{10} k_{11} k_{13}^2 - k_3^2 k_4^2 k_5 k_7 k_9^2 k_{10} k_{12} k_{13}^2 - 3 k_3^2 k_4^2 k_5 k_7 \\
& k_9^2 k_{11} k_{12} k_{13}^2 - 4 k_3^2 k_4^2 k_6 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13} - 2 k_3^2 k_4^2 k_6 k_7 k_9^2 k_{10} k_{11} k_{13}^2 - k_3^2 k_4^2 k_6 k_7 \\
& k_9^2 k_{10} k_{12} k_{13}^2 - 3 k_3^2 k_4^2 k_6 k_7 k_9^2 k_{11} k_{12} k_{13}^2 - 2 k_3^2 k_4^2 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - 2 k_3^2 k_4^2 k_7
\end{aligned}$$

$$\begin{aligned}
& k_9^2 k_{10} k_{11} k_{13}^3 - 2 k_3 k_4^2 k_5 k_7 k_9^2 k_{10} k_{11} k_{12}^2 k_{13} - 2 k_3 k_4^2 k_5 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - 2 k_3 \\
& k_4^2 k_6 k_7 k_9^2 k_{10} k_{11} k_{12}^2 k_{13} - 2 k_3 k_4^2 k_6 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13}^2 \Big) x_1^2 x_7^2 + k_7 \Big(-k_1^2 k_2 k_3^3 k_5^3 k_8 k_{10} \\
& k_{11}^2 - k_1^2 k_2 k_3^3 k_5^3 k_8 k_{11}^3 - k_1^2 k_2 k_3^3 k_5^3 k_9 k_{10} k_{11}^2 - k_1^2 k_2 k_3^3 k_5^3 k_9 k_{11}^3 - 3 k_1^2 k_2 k_3^3 k_5^3 k_6 k_8 k_{10} \\
& k_{11}^2 - 3 k_1^2 k_2 k_3^3 k_5^3 k_6 k_8 k_{11}^3 - 3 k_1^2 k_2 k_3^3 k_5^3 k_6 k_9 k_{10} k_{11}^2 - 3 k_1^2 k_2 k_3^3 k_5^3 k_6 k_9 k_{11}^3 - 3 k_1^2 k_2 \\
& k_3^3 k_5^3 k_8 k_{10} k_{11}^2 k_{13} - 3 k_1^2 k_2 k_3^3 k_5^3 k_8 k_{11}^3 k_{13} - 3 k_1^2 k_2 k_3^3 k_5^3 k_9 k_{10} k_{11}^2 k_{13} - 3 k_1^2 k_2 k_3^3 k_5^3 k_9 \\
& k_{11}^3 k_{13} - 3 k_1^2 k_2 k_3^3 k_5^3 k_6^2 k_8 k_{10} k_{11}^2 - 3 k_1^2 k_2 k_3^3 k_5^3 k_6^2 k_8 k_{11}^3 - 3 k_1^2 k_2 k_3^3 k_5^3 k_6^2 k_9 k_{10} k_{11}^2 \\
& - 3 k_1^2 k_2 k_3^3 k_5^3 k_6^2 k_9 k_{11}^3 - 6 k_1^2 k_2 k_3^3 k_5^3 k_6 k_8 k_{10} k_{11}^2 k_{13} - 6 k_1^2 k_2 k_3^3 k_5^3 k_6 k_8 k_{11}^3 k_{13} - 6 \\
& k_1^2 k_2 k_3^3 k_5^3 k_6 k_9 k_{10} k_{11}^2 k_{13} - 6 k_1^2 k_2 k_3^3 k_5^3 k_6 k_9 k_{11}^3 k_{13} - 3 k_1^2 k_2 k_3^3 k_5^3 k_8 k_{10} k_{11}^2 k_{13}^2 - 3 \\
& k_1^2 k_2 k_3^3 k_5^3 k_8 k_{11}^3 k_{13}^2 - 3 k_1^2 k_2 k_3^3 k_5^3 k_9 k_{10} k_{11}^2 k_{13}^2 - 3 k_1^2 k_2 k_3^3 k_5^3 k_9 k_{11}^3 k_{13}^2 - k_1^2 k_2 k_3^3 \\
& k_6 k_8 k_{10} k_{11}^2 - k_1^2 k_2 k_3^3 k_6 k_8 k_{11}^3 - k_1^2 k_2 k_3^3 k_6 k_9 k_{10} k_{11}^2 - k_1^2 k_2 k_3^3 k_6 k_9 k_{11}^3 - 3 k_1^2 k_2 k_3^3 \\
& k_6^2 k_8 k_{10} k_{11}^2 k_{13} - 3 k_1^2 k_2 k_3^3 k_6^2 k_8 k_{11}^3 k_{13} - 3 k_1^2 k_2 k_3^3 k_6^2 k_9 k_{10} k_{11}^2 k_{13} - 3 k_1^2 k_2 k_3^3 k_6^2 k_9 \\
& k_{11}^3 k_{13} - 3 k_1^2 k_2 k_3^3 k_6 k_8 k_{10} k_{11}^2 k_{13}^2 - 3 k_1^2 k_2 k_3^3 k_6 k_8 k_{11}^3 k_{13}^2 - 3 k_1^2 k_2 k_3^3 k_6 k_9 k_{10} k_{11}^2 k_{13}^2 \\
& - 3 k_1^2 k_2 k_3^3 k_6 k_9 k_{11}^3 k_{13}^2 - k_1^2 k_2 k_3^3 k_8 k_{10} k_{11}^2 k_{13}^3 - k_1^2 k_2 k_3^3 k_8 k_{11}^3 k_{13}^3 - k_1^2 k_2 k_3^3 k_9 k_{10} \\
& k_{11}^2 k_{13}^3 - k_1^2 k_2 k_3^3 k_9 k_{11}^3 k_{13}^3 - 2 k_1^2 k_2 k_3 k_5^2 k_6 k_8 k_{10} k_{11}^2 k_{12} - 2 k_1^2 k_2 k_3 k_5^2 k_6 k_8 k_{11}^3 k_{12} \\
& - 2 k_1^2 k_2 k_3 k_5^2 k_6 k_9 k_{10} k_{11}^2 k_{12} - 2 k_1^2 k_2 k_3 k_5^2 k_6 k_9 k_{11}^3 k_{12} - 4 k_1^2 k_2 k_3 k_5 k_6^2 k_8 k_{10} k_{11}^2 k_{12} \\
& - 4 k_1^2 k_2 k_3 k_5 k_6^2 k_8 k_{11}^3 k_{12} - 4 k_1^2 k_2 k_3 k_5 k_6^2 k_9 k_{10} k_{11}^2 k_{12} - 4 k_1^2 k_2 k_3 k_5 k_6^2 k_9 k_{11}^3 k_{12} \\
& - 4 k_1^2 k_2 k_3 k_5 k_6 k_8 k_{10} k_{11}^2 k_{12} k_{13} - 4 k_1^2 k_2 k_3 k_5 k_6 k_8 k_{11}^3 k_{12} k_{13} - 4 \\
& k_1^2 k_2 k_3 k_5 k_6 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 4 k_1^2 k_2 k_3 k_5 k_6 k_9 k_{11}^3 k_{12} k_{13} - 2 k_1^2 k_2 k_3 k_6^3 k_8 k_{10} k_{11}^2 k_{12} \\
& - 2 k_1^2 k_2 k_3 k_6^3 k_8 k_{11}^3 k_{12} - 2 k_1^2 k_2 k_3 k_6^3 k_9 k_{10} k_{11}^2 k_{12} - 2 k_1^2 k_2 k_3 k_6^3 k_9 k_{11}^3 k_{12} - 4 \\
& k_1^2 k_2 k_3 k_6^2 k_8 k_{10} k_{11}^2 k_{12} k_{13} - 4 k_1^2 k_2 k_3 k_6^2 k_8 k_{11}^3 k_{12} k_{13} - 4 k_1^2 k_2 k_3 k_6^2 k_9 k_{10} k_{11}^2 k_{12} k_{13} \\
& - 4 k_1^2 k_2 k_3 k_6^2 k_9 k_{11}^3 k_{12} k_{13} - 2 k_1^2 k_2 k_3 k_6 k_8 k_{10} k_{11}^2 k_{12} k_{13}^2 - 2 k_1^2 k_2 k_3 k_6 k_8 k_{11}^3 k_{12} k_{13}^2 \\
& - 2 k_1^2 k_2 k_3 k_6 k_9 k_{10} k_{11}^2 k_{12} k_{13}^2 - 2 k_1^2 k_2 k_3 k_6 k_9 k_{11}^3 k_{12} k_{13}^2 - k_1^2 k_2 k_5 k_6^2 k_8 k_{10} k_{11}^2 k_{12}^2 \\
& - k_1^2 k_2 k_5 k_6^2 k_8 k_{11}^3 k_{12}^2 - k_1^2 k_2 k_5 k_6^2 k_9 k_{10} k_{11}^2 k_{12}^2 - k_1^2 k_2 k_5 k_6^2 k_9 k_{11}^3 k_{12}^2 - k_1^2 k_2 \\
& k_6^3 k_8 k_{10} k_{11}^2 k_{12}^2 - k_1^2 k_2 k_6^3 k_8 k_{11}^3 k_{12}^2 - k_1^2 k_2 k_6^3 k_9 k_{10} k_{11}^2 k_{12}^2 - k_1^2 k_2 k_6^3 k_9 k_{11}^3 k_{12}^2 - k_1^2 k_2 \\
& k_6^2 k_8 k_{10} k_{11}^2 k_{12}^2 k_{13} - k_1^2 k_2 k_6^2 k_8 k_{11}^3 k_{12}^2 k_{13} - k_1^2 k_2 k_6^2 k_9 k_{10} k_{11}^2 k_{12}^2 k_{13} - k_1^2 k_2 k_6^2 k_9 k_{11}^3 \\
& k_{12}^2 k_{13} - k_1^2 k_3^3 k_5^3 k_8 k_{10} k_{11}^2 - k_1^2 k_3^3 k_5^3 k_8 k_{11}^3 - k_1^2 k_3^3 k_5^3 k_9 k_{10} k_{11}^2 - k_1^2 k_3^3 k_5^3 k_9 k_{11}^3 - 3 k_1^2 \\
& k_3^3 k_5^3 k_6 k_8 k_{10} k_{11}^2 - 3 k_1^2 k_3^3 k_5^3 k_6 k_8 k_{11}^3 - 3 k_1^2 k_3^3 k_5^3 k_6 k_9 k_{10} k_{11}^2 - 3 k_1^2 k_3^3 k_5^3 k_6 k_9 k_{11}^3 - 3
\end{aligned}$$

$$\begin{aligned}
& k_1^2 k_3^3 k_5^2 k_8 k_{10} k_{11}^2 k_{13} - 3 k_1^2 k_3^3 k_5^2 k_8 k_{11}^3 k_{13} - 3 k_1^2 k_3^3 k_5^2 k_9 k_{10} k_{11}^2 k_{13} - 3 k_1^2 k_3^3 k_5^2 k_9 \\
& k_{11}^3 k_{13} - 3 k_1^2 k_3^3 k_5 k_6^2 k_8 k_{10} k_{11}^2 - 3 k_1^2 k_3^3 k_5 k_6^2 k_8 k_{11}^3 - 3 k_1^2 k_3^3 k_5 k_6^2 k_9 k_{10} k_{11}^2 - 3 k_1^2 \\
& k_3^3 k_5 k_6^2 k_9 k_{11}^3 - 6 k_1^2 k_3^3 k_5 k_6 k_8 k_{10} k_{11}^2 k_{13} - 6 k_1^2 k_3^3 k_5 k_6 k_8 k_{11}^3 k_{13} - 6 k_1^2 k_3^3 k_5 k_6 k_9 k_{10} \\
& k_{11}^2 k_{13} - 6 k_1^2 k_3^3 k_5 k_6 k_9 k_{11}^3 k_{13} - 3 k_1^2 k_3^3 k_5 k_8 k_{10} k_{11}^2 k_{13}^2 - 3 k_1^2 k_3^3 k_5 k_8 k_{11}^3 k_{13}^2 - 3 k_1^2 \\
& k_3^3 k_5 k_9 k_{10} k_{11}^2 k_{13}^2 - 3 k_1^2 k_3^3 k_5 k_9 k_{11}^3 k_{13}^2 - k_1^2 k_3^3 k_6^2 k_8 k_{10} k_{11}^2 - k_1^2 k_3^3 k_6^2 k_8 k_{11}^3 - k_1^2 k_3^3 \\
& k_6^2 k_9 k_{10} k_{11}^2 - k_1^2 k_3^3 k_6^2 k_9 k_{11}^3 - 3 k_1^2 k_3^3 k_6^2 k_8 k_{10} k_{11}^2 k_{13} - 3 k_1^2 k_3^3 k_6^2 k_8 k_{11}^3 k_{13} - 3 k_1^2 k_3^3 \\
& k_6^2 k_9 k_{10} k_{11}^2 k_{13} - 3 k_1^2 k_3^3 k_6^2 k_9 k_{11}^3 k_{13} - 3 k_1^2 k_3^3 k_6 k_8 k_{10} k_{11}^2 k_{13}^2 - 3 k_1^2 k_3^3 k_6 k_8 k_{11}^3 k_{13}^2 \\
& - 3 k_1^2 k_3^3 k_6 k_9 k_{10} k_{11}^2 k_{13}^2 - 3 k_1^2 k_3^3 k_6 k_9 k_{11}^3 k_{13}^2 - k_1^2 k_3^3 k_8 k_{10} k_{11}^2 k_{13}^3 - k_1^2 k_3^3 k_8 k_{11}^3 k_{13}^3 \\
& - k_1^2 k_3^3 k_9 k_{10} k_{11}^2 k_{13}^3 - k_1^2 k_3^3 k_9 k_{11}^3 k_{13}^3 - k_1^2 k_3^2 k_5^2 k_8 k_{10} k_{11}^2 k_{12} - k_1^2 k_3^2 k_5^2 k_8 k_{11}^3 k_{12} - k_1^2 \\
& k_3^2 k_5^2 k_9 k_{10} k_{11}^2 k_{12} - k_1^2 k_3^2 k_5^2 k_9 k_{11}^3 k_{12} - 5 k_1^2 k_3^2 k_5^2 k_6 k_8 k_{10} k_{11}^2 k_{12} - 5 k_1^2 k_3^2 k_5^2 k_6 k_8 \\
& k_{11}^3 k_{12} - 5 k_1^2 k_3^2 k_5^2 k_6 k_9 k_{10} k_{11}^2 k_{12} - 5 k_1^2 k_3^2 k_5^2 k_6 k_9 k_{11}^3 k_{12} - 2 k_1^2 k_3^2 k_5^2 k_8 k_{10} k_{11}^2 k_{12} k_{13} \\
& - 2 k_1^2 k_3^2 k_5^2 k_8 k_{11}^3 k_{12} k_{13} - 2 k_1^2 k_3^2 k_5^2 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 2 k_1^2 k_3^2 k_5^2 k_9 k_{11}^3 k_{12} k_{13} - 7 k_1^2 \\
& k_3^2 k_5^2 k_6^2 k_8 k_{10} k_{11}^2 k_{12} - 7 k_1^2 k_3^2 k_5^2 k_6^2 k_8 k_{11}^3 k_{12} - 7 k_1^2 k_3^2 k_5^2 k_6^2 k_9 k_{10} k_{11}^2 k_{12} - 7 k_1^2 k_3^2 k_5^2 \\
& k_6^2 k_9 k_{11}^3 k_{12} - 8 k_1^2 k_3^2 k_5^2 k_6 k_8 k_{10} k_{11}^2 k_{12} k_{13} - 8 k_1^2 k_3^2 k_5^2 k_6 k_8 k_{11}^3 k_{12} k_{13} - 8 k_1^2 \\
& k_3^2 k_5^2 k_6 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 8 k_1^2 k_3^2 k_5^2 k_6 k_9 k_{11}^3 k_{12} k_{13} - k_1^2 k_3^2 k_5^2 k_8 k_{10} k_{11}^2 k_{12} k_{13}^2 - k_1^2 \\
& k_3^2 k_5^2 k_8 k_{11}^3 k_{12} k_{13}^2 - k_1^2 k_3^2 k_5^2 k_9 k_{10} k_{11}^2 k_{12} k_{13}^2 - k_1^2 k_3^2 k_5^2 k_9 k_{11}^3 k_{12} k_{13}^2 - 3 k_1^2 k_3^2 k_6^2 k_8 k_{10} \\
& k_{11}^2 k_{12} - 3 k_1^2 k_3^2 k_6^2 k_8 k_{11}^3 k_{12} - 3 k_1^2 k_3^2 k_6^2 k_9 k_{10} k_{11}^2 k_{12} - 3 k_1^2 k_3^2 k_6^2 k_9 k_{11}^3 k_{12} - 6 k_1^2 k_3^2 \\
& k_6^2 k_8 k_{10} k_{11}^2 k_{12} k_{13} - 6 k_1^2 k_3^2 k_6^2 k_8 k_{11}^3 k_{12} k_{13} - 6 k_1^2 k_3^2 k_6^2 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 6 k_1^2 k_3^2 \\
& k_6^2 k_9 k_{11}^3 k_{12} k_{13} - 3 k_1^2 k_3^2 k_6 k_8 k_{10} k_{11}^2 k_{12} k_{13}^2 - 3 k_1^2 k_3^2 k_6 k_8 k_{11}^3 k_{12} k_{13}^2 - 3 k_1^2 \\
& k_3^2 k_6 k_9 k_{10} k_{11}^2 k_{12} k_{13}^2 - 3 k_1^2 k_3^2 k_6 k_9 k_{11}^3 k_{12} k_{13}^2 - 2 k_1^2 k_3 k_5^2 k_6 k_8 k_{10} k_{11}^2 k_{12}^2 - 2 k_1^2 k_3 \\
& k_5^2 k_6 k_8 k_{11}^3 k_{12}^2 - 2 k_1^2 k_3 k_5^2 k_6 k_9 k_{10} k_{11}^2 k_{12}^2 - 2 k_1^2 k_3 k_5^2 k_6 k_9 k_{11}^3 k_{12}^2 - 5 k_1^2 k_3 k_5^2 k_6^2 k_8 k_{10} \\
& k_{11}^2 k_{12}^2 - 5 k_1^2 k_3 k_5^2 k_6^2 k_8 k_{11}^3 k_{12}^2 - 5 k_1^2 k_3 k_5^2 k_6^2 k_9 k_{10} k_{11}^2 k_{12}^2 - 5 k_1^2 k_3 k_5^2 k_6^2 k_9 k_{11}^3 k_{12}^2 - 2 \\
& k_1^2 k_3 k_5 k_6 k_8 k_{10} k_{11}^2 k_{12}^2 k_{13} - 2 k_1^2 k_3 k_5 k_6 k_8 k_{11}^3 k_{12}^2 k_{13} - 2 k_1^2 k_3 k_5 k_6 k_9 k_{10} k_{11}^2 k_{12}^2 k_{13} \\
& - 2 k_1^2 k_3 k_5 k_6 k_9 k_{11}^3 k_{12}^2 k_{13} - 3 k_1^2 k_3 k_6^2 k_8 k_{10} k_{11}^2 k_{12}^2 - 3 k_1^2 k_3 k_6^2 k_8 k_{11}^3 k_{12}^2 - 3 k_1^2 k_3 \\
& k_6^2 k_9 k_{10} k_{11}^2 k_{12}^2 - 3 k_1^2 k_3 k_6^2 k_9 k_{11}^3 k_{12}^2 - 3 k_1^2 k_3 k_6^2 k_8 k_{10} k_{11}^2 k_{12}^2 k_{13} - 3 k_1^2 k_3 k_6^2 k_8 k_{11}^3 \\
& k_{12}^2 k_{13} - 3 k_1^2 k_3 k_6^2 k_9 k_{10} k_{11}^2 k_{12}^2 k_{13} - 3 k_1^2 k_3 k_6^2 k_9 k_{11}^3 k_{12}^2 k_{13} - k_1^2 k_5 k_6^2 k_8 k_{10} k_{11}^2 k_{12}^3 - \\
& k_1^2 k_5 k_6^2 k_8 k_{11}^3 k_{12}^3 - k_1^2 k_5 k_6^2 k_9 k_{10} k_{11}^2 k_{12}^3 - k_1^2 k_5 k_6^2 k_9 k_{11}^3 k_{12}^3 - k_1^2 k_6^2 k_8 k_{10} k_{11}^2 k_{12}^3 - k_1^2
\end{aligned}$$

$$\begin{aligned}
& k_6^3 k_8 k_{11}^3 k_{12}^3 - k_1^2 k_6^3 k_9 k_{10} k_{11}^2 k_{12}^3 - k_1^2 k_6^3 k_9 k_{11}^3 k_{12}^3 - 2 k_1 k_2^2 k_3 k_4 k_5^2 k_6 k_8 k_{10}^2 k_{11} - 2 k_1 \\
& k_2^2 k_3 k_4 k_5^2 k_6 k_8 k_{10} k_{11}^2 - 2 k_1 k_2^2 k_3 k_4 k_5^2 k_6 k_9 k_{10}^2 k_{11} - 2 k_1 k_2^2 k_3 k_4 k_5^2 k_6 k_9 k_{10} k_{11}^2 \\
& - 4 k_1 k_2^2 k_3 k_4 k_5 k_6^2 k_8 k_{10}^2 k_{11} - 4 k_1 k_2^2 k_3 k_4 k_5 k_6^2 k_8 k_{10} k_{11}^2 - 4 k_1 k_2^2 k_3 k_4 k_5 k_6^2 k_9 \\
& k_{10}^2 k_{11} - 4 k_1 k_2^2 k_3 k_4 k_5 k_6^2 k_9 k_{10} k_{11}^2 - 4 k_1 k_2^2 k_3 k_4 k_5 k_6 k_8 k_{10}^2 k_{11} k_{13} - 4 k_1 \\
& k_2^2 k_3 k_4 k_5 k_6 k_8 k_{10} k_{11}^2 k_{13} - 4 k_1 k_2^2 k_3 k_4 k_5 k_6 k_9 k_{10}^2 k_{11} k_{13} - 4 k_1 k_2^2 k_3 k_4 k_5 k_6 k_9 k_{10} \\
& k_{11}^2 k_{13} - 2 k_1 k_2^2 k_3 k_4 k_6^3 k_8 k_{10}^2 k_{11} - 2 k_1 k_2^2 k_3 k_4 k_6^3 k_8 k_{10} k_{11}^2 - 2 k_1 k_2^2 k_3 k_4 k_6^3 k_9 k_{10}^2 k_{11} \\
& - 2 k_1 k_2^2 k_3 k_4 k_6^3 k_9 k_{10} k_{11}^2 - 4 k_1 k_2^2 k_3 k_4 k_6^2 k_8 k_{10}^2 k_{11} k_{13} - 4 k_1 k_2^2 k_3 k_4 k_6^2 k_8 k_{10} k_{11}^2 k_{13} \\
& - 4 k_1 k_2^2 k_3 k_4 k_6^2 k_9 k_{10}^2 k_{11} k_{13} - 4 k_1 k_2^2 k_3 k_4 k_6^2 k_9 k_{10} k_{11}^2 k_{13} - 2 k_1 k_2^2 k_3 k_4 k_6 k_8 \\
& k_{10}^2 k_{11} k_{13}^2 - 2 k_1 k_2^2 k_3 k_4 k_6 k_8 k_{10} k_{11}^2 k_{13}^2 - 2 k_1 k_2^2 k_3 k_4 k_6 k_9 k_{10}^2 k_{11} k_{13}^2 - 2 k_1 \\
& k_2^2 k_3 k_4 k_6 k_9 k_{10} k_{11}^2 k_{13}^2 - 2 k_1 k_2^2 k_4 k_5 k_6^2 k_8 k_{10}^2 k_{11} k_{12} - 2 k_1 k_2^2 k_4 k_5 k_6^2 k_8 k_{10} k_{11}^2 k_{12} \\
& - 2 k_1 k_2^2 k_4 k_5 k_6^2 k_9 k_{10}^2 k_{11} k_{12} - 2 k_1 k_2^2 k_4 k_5 k_6^2 k_9 k_{10} k_{11}^2 k_{12} - 2 k_1 k_2^2 k_4 k_6^3 k_8 \\
& k_{10}^2 k_{11} k_{12} - 2 k_1 k_2^2 k_4 k_6^3 k_8 k_{10} k_{11}^2 k_{12} - 2 k_1 k_2^2 k_4 k_6^3 k_9 k_{10}^2 k_{11} k_{12} - 2 k_1 k_2^2 k_4 k_6^3 k_9 k_{10} \\
& k_{11}^2 k_{12} - 2 k_1 k_2^2 k_4 k_6^2 k_8 k_{10}^2 k_{11} k_{12} k_{13} - 2 k_1 k_2^2 k_4 k_6^2 k_8 k_{10} k_{11}^2 k_{12} k_{13} - 2 k_1 k_2^2 k_4 k_6^2 k_9 \\
& k_{10}^2 k_{11} k_{12} k_{13} - 2 k_1 k_2^2 k_4 k_6^2 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 4 k_1 k_2 k_3^2 k_4 k_5^2 k_6 k_8 k_{10}^2 k_{11} - 4 k_1 k_2 \\
& k_3^2 k_4 k_5^2 k_6 k_8 k_{10} k_{11}^2 - 4 k_1 k_2 k_3^2 k_4 k_5^2 k_6 k_9 k_{10}^2 k_{11} - 4 k_1 k_2 k_3^2 k_4 k_5^2 k_6 k_9 k_{10} k_{11}^2 \\
& - 2 k_1 k_2 k_3^2 k_4 k_5^2 k_8 k_{10}^2 k_{11} k_{13} - 2 k_1 k_2 k_3^2 k_4 k_5^2 k_8 k_{10} k_{11}^2 k_{13} - 2 k_1 k_2 k_3^2 k_4 k_5^2 k_9 \\
& k_{10}^2 k_{11} k_{13} - 2 k_1 k_2 k_3^2 k_4 k_5^2 k_9 k_{10} k_{11}^2 k_{13} - 8 k_1 k_2 k_3^2 k_4 k_5 k_6^2 k_8 k_{10}^2 k_{11} - 8 k_1 k_2 k_3^2 k_4 k_5 \\
& k_6^2 k_8 k_{10} k_{11}^2 - 8 k_1 k_2 k_3^2 k_4 k_5 k_6^2 k_9 k_{10}^2 k_{11} - 8 k_1 k_2 k_3^2 k_4 k_5 k_6^2 k_9 k_{10} k_{11}^2 - 12 k_1 k_2 \\
& k_3^2 k_4 k_5 k_6 k_8 k_{10}^2 k_{11} k_{13} - 12 k_1 k_2 k_3^2 k_4 k_5 k_6 k_8 k_{10} k_{11}^2 k_{13} - 12 k_1 k_2 k_3^2 k_4 k_5 k_6 k_9 \\
& k_{10}^2 k_{11} k_{13} - 12 k_1 k_2 k_3^2 k_4 k_5 k_6 k_9 k_{10} k_{11}^2 k_{13} - 4 k_1 k_2 k_3^2 k_4 k_5 k_8 k_{10}^2 k_{11} k_{13}^2 - 4 k_1 k_2 \\
& k_3^2 k_4 k_5 k_8 k_{10} k_{11}^2 k_{13}^2 - 4 k_1 k_2 k_3^2 k_4 k_5 k_9 k_{10}^2 k_{11} k_{13}^2 - 4 k_1 k_2 k_3^2 k_4 k_5 k_9 k_{10} k_{11}^2 k_{13}^2 \\
& - 4 k_1 k_2 k_3^2 k_4 k_6^3 k_8 k_{10}^2 k_{11} - 4 k_1 k_2 k_3^2 k_4 k_6^3 k_8 k_{10} k_{11}^2 - 4 k_1 k_2 k_3^2 k_4 k_6^3 k_9 k_{10}^2 k_{11} \\
& - 4 k_1 k_2 k_3^2 k_4 k_6^3 k_9 k_{10} k_{11}^2 - 10 k_1 k_2 k_3^2 k_4 k_6^2 k_8 k_{10}^2 k_{11} k_{13} - 10 k_1 k_2 k_3^2 k_4 k_6^2 k_8 k_{10} \\
& k_{11}^2 k_{13} - 10 k_1 k_2 k_3^2 k_4 k_6^2 k_9 k_{10}^2 k_{11} k_{13} - 10 k_1 k_2 k_3^2 k_4 k_6^2 k_9 k_{10} k_{11}^2 k_{13} - 8 k_1 k_2 \\
& k_3^2 k_4 k_6 k_8 k_{10}^2 k_{11} k_{13}^2 - 8 k_1 k_2 k_3^2 k_4 k_6 k_8 k_{10} k_{11}^2 k_{13}^2 - 8 k_1 k_2 k_3^2 k_4 k_6 k_9 k_{10}^2 k_{11} k_{13}^2 \\
& - 8 k_1 k_2 k_3^2 k_4 k_6 k_9 k_{10} k_{11}^2 k_{13}^2 - 2 k_1 k_2 k_3^2 k_4 k_8 k_{10}^2 k_{11} k_{13}^2 - 2 k_1 k_2 k_3^2 k_4 k_8 k_{10} k_{11}^2 k_{13}^2 \\
& - 2 k_1 k_2 k_3^2 k_4 k_9 k_{10}^2 k_{11} k_{13}^2 - 2 k_1 k_2 k_3^2 k_4 k_9 k_{10} k_{11}^2 k_{13}^2 - 4 k_1 k_2 k_3 k_4 k_5^2 k_6 k_8
\end{aligned}$$

$$\begin{aligned}
& k_{10}^2 k_{11} k_{12} - 4 k_1 k_2 k_3 k_4 k_5^2 k_6 k_8 k_{10} k_{11}^2 k_{12} - 4 k_1 k_2 k_3 k_4 k_5^2 k_6 k_9 k_{10}^2 k_{11} k_{12} \\
& - 4 k_1 k_2 k_3 k_4 k_5^2 k_6 k_9 k_{10} k_{11}^2 k_{12} - 12 k_1 k_2 k_3 k_4 k_5 k_6^2 k_8 k_{10}^2 k_{11} k_{12} - 12 k_1 k_2 k_3 k_4 k_5 \\
& k_6^2 k_8 k_{10} k_{11}^2 k_{12} - 12 k_1 k_2 k_3 k_4 k_5 k_6^2 k_9 k_{10}^2 k_{11} k_{12} - 12 k_1 k_2 k_3 k_4 k_5 k_6^2 k_9 k_{10} k_{11}^2 k_{12} \\
& - 8 k_1 k_2 k_3 k_4 k_5 k_6 k_8 k_{10}^2 k_{11} k_{12} k_{13} - 8 k_1 k_2 k_3 k_4 k_5 k_6 k_8 k_{10} k_{11}^2 k_{12} k_{13} \\
& - 8 k_1 k_2 k_3 k_4 k_5 k_6 k_9 k_{10}^2 k_{11} k_{12} k_{13} - 8 k_1 k_2 k_3 k_4 k_5 k_6 k_9 k_{10} k_{11}^2 k_{12} k_{13} \\
& - 8 k_1 k_2 k_3 k_4 k_6^3 k_8 k_{10}^2 k_{11} k_{12} - 8 k_1 k_2 k_3 k_4 k_6^3 k_8 k_{10} k_{11}^2 k_{12} - 8 k_1 k_2 k_3 k_4 k_6^3 k_9 \\
& k_{10}^2 k_{11} k_{12} - 8 k_1 k_2 k_3 k_4 k_6^3 k_9 k_{10} k_{11}^2 k_{12} - 12 k_1 k_2 k_3 k_4 k_6^2 k_8 k_{10}^2 k_{11} k_{12} k_{13} \\
& - 12 k_1 k_2 k_3 k_4 k_6^2 k_8 k_{10} k_{11}^2 k_{12} k_{13} - 12 k_1 k_2 k_3 k_4 k_6^2 k_9 k_{10}^2 k_{11} k_{12} k_{13} - 12 k_1 k_2 k_3 k_4 \\
& k_6^2 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 4 k_1 k_2 k_3 k_4 k_6 k_8 k_{10}^2 k_{11} k_{12} k_{13}^2 - 4 k_1 k_2 k_3 k_4 k_6 k_8 k_{10} k_{11}^2 k_{12} k_{13}^2 \\
& - 4 k_1 k_2 k_3 k_4 k_6 k_9 k_{10}^2 k_{11} k_{12} k_{13}^2 - 4 k_1 k_2 k_3 k_4 k_6 k_9 k_{10} k_{11}^2 k_{12} k_{13}^2 - 4 k_1 k_2 k_4 k_5 \\
& k_6^2 k_8 k_{10}^2 k_{11} k_{12}^2 - 4 k_1 k_2 k_4 k_5 k_6^2 k_8 k_{10} k_{11}^2 k_{12}^2 - 4 k_1 k_2 k_4 k_5 k_6^2 k_9 k_{10}^2 k_{11} k_{12}^2 \\
& - 4 k_1 k_2 k_4 k_5 k_6^2 k_9 k_{10} k_{11}^2 k_{12}^2 - 4 k_1 k_2 k_4 k_6^3 k_8 k_{10}^2 k_{11} k_{12}^2 - 4 k_1 k_2 k_4 k_6^3 k_8 k_{10} k_{11}^2 k_{12}^2 \\
& - 4 k_1 k_2 k_4 k_6^3 k_9 k_{10}^2 k_{11} k_{12}^2 - 4 k_1 k_2 k_4 k_6^3 k_9 k_{10} k_{11}^2 k_{12}^2 - 2 k_1 k_2 k_4 k_6^2 k_8 k_{10}^2 k_{11} k_{12}^2 k_{13} \\
& - 2 k_1 k_2 k_4 k_6^2 k_8 k_{10} k_{11}^2 k_{12}^2 k_{13} - 2 k_1 k_2 k_4 k_6^2 k_9 k_{10}^2 k_{11} k_{12}^2 k_{13} - 2 k_1 k_2 k_4 k_6^2 k_9 k_{10} k_{11}^2 k_{12}^2 \\
& k_{13} - 2 k_1 k_3^3 k_4 k_5^2 k_6 k_8 k_{10}^2 k_{11} - 2 k_1 k_3^3 k_4 k_5^2 k_6 k_8 k_{10} k_{11}^2 - 2 k_1 k_3^3 k_4 k_5^2 k_6 k_9 k_{10}^2 k_{11} \\
& - 2 k_1 k_3^3 k_4 k_5^2 k_6 k_9 k_{10} k_{11}^2 - 2 k_1 k_3^3 k_4 k_5^2 k_8 k_{10}^2 k_{11} k_{13} - 2 k_1 k_3^3 k_4 k_5^2 k_8 k_{10} k_{11}^2 k_{13} \\
& - 2 k_1 k_3^3 k_4 k_5^2 k_9 k_{10}^2 k_{11} k_{13} - 2 k_1 k_3^3 k_4 k_5^2 k_9 k_{10} k_{11}^2 k_{13} - 4 k_1 k_3^3 k_4 k_5 k_6^2 k_8 k_{10}^2 k_{11} \\
& - 4 k_1 k_3^3 k_4 k_5 k_6^2 k_8 k_{10} k_{11}^2 - 4 k_1 k_3^3 k_4 k_5 k_6^2 k_9 k_{10}^2 k_{11} - 4 k_1 k_3^3 k_4 k_5 k_6^2 k_9 k_{10} k_{11}^2 \\
& - 8 k_1 k_3^3 k_4 k_5 k_6 k_8 k_{10}^2 k_{11} k_{13} - 8 k_1 k_3^3 k_4 k_5 k_6 k_8 k_{10} k_{11}^2 k_{13} - 8 k_1 k_3^3 k_4 k_5 k_6 k_9 \\
& k_{10}^2 k_{11} k_{13} - 8 k_1 k_3^3 k_4 k_5 k_6 k_9 k_{10} k_{11}^2 k_{13} - 4 k_1 k_3^3 k_4 k_5 k_8 k_{10}^2 k_{11} k_{13}^2 - 4 k_1 \\
& k_3^3 k_4 k_5 k_8 k_{10} k_{11}^2 k_{13}^2 - 4 k_1 k_3^3 k_4 k_5 k_9 k_{10}^2 k_{11} k_{13}^2 - 4 k_1 k_3^3 k_4 k_5 k_9 k_{10} k_{11}^2 k_{13}^2 - 2 k_1 \\
& k_3^3 k_4 k_6^3 k_8 k_{10}^2 k_{11} - 2 k_1 k_3^3 k_4 k_6^3 k_8 k_{10} k_{11}^2 - 2 k_1 k_3^3 k_4 k_6^3 k_9 k_{10}^2 k_{11} - 2 k_1 k_3^3 k_4 k_6^3 k_9 k_{10} \\
& k_{11}^2 - 6 k_1 k_3^3 k_4 k_6^2 k_8 k_{10}^2 k_{11} k_{13} - 6 k_1 k_3^3 k_4 k_6^2 k_8 k_{10} k_{11}^2 k_{13} - 6 k_1 k_3^3 k_4 k_6^2 k_9 k_{10}^2 k_{11} k_{13} \\
& - 6 k_1 k_3^3 k_4 k_6^2 k_9 k_{10} k_{11}^2 k_{13} - 6 k_1 k_3^3 k_4 k_6 k_8 k_{10}^2 k_{11} k_{13}^2 - 6 k_1 k_3^3 k_4 k_6 k_8 k_{10} k_{11}^2 k_{13}^2 \\
& - 6 k_1 k_3^3 k_4 k_6 k_9 k_{10}^2 k_{11} k_{13}^2 - 6 k_1 k_3^3 k_4 k_6 k_9 k_{10} k_{11}^2 k_{13}^2 - 2 k_1 k_3^3 k_4 k_8 k_{10}^2 k_{11} k_{13}^3 \\
& - 2 k_1 k_3^3 k_4 k_8 k_{10} k_{11}^2 k_{13}^3 - 2 k_1 k_3^3 k_4 k_9 k_{10}^2 k_{11} k_{13}^3 - 2 k_1 k_3^3 k_4 k_9 k_{10} k_{11}^2 k_{13}^3 - 4 k_1 \\
& k_3^2 k_4 k_5^2 k_6 k_8 k_{10}^2 k_{11} k_{12} - 4 k_1 k_3^2 k_4 k_5^2 k_6 k_8 k_{10} k_{11}^2 k_{12} - 4 k_1 k_3^2 k_4 k_5^2 k_6 k_9 k_{10}^2 k_{11} k_{12}
\end{aligned}$$

$$\begin{aligned}
& -4 k_1 k_3^2 k_4 k_5^2 k_6 k_9 k_{10} k_{11}^2 k_{12} - 2 k_1 k_3^2 k_4 k_5^2 k_8 k_{10}^2 k_{11} k_{12} k_{13} - 2 k_1 k_3^2 k_4 k_5^2 k_8 k_{10} \\
& k_{11}^2 k_{12} k_{13} - 2 k_1 k_3^2 k_4 k_5^2 k_9 k_{10}^2 k_{11} k_{12} k_{13} - 2 k_1 k_3^2 k_4 k_5^2 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 10 k_1 \\
& k_3^2 k_4 k_5 k_6^2 k_8 k_{10}^2 k_{11} k_{12} - 10 k_1 k_3^2 k_4 k_5 k_6^2 k_8 k_{10} k_{11}^2 k_{12} - 10 k_1 k_3^2 k_4 k_5 k_6^2 k_9 k_{10}^2 k_{11} k_{12} \\
& - 10 k_1 k_3^2 k_4 k_5 k_6^2 k_9 k_{10} k_{11}^2 k_{12} - 12 k_1 k_3^2 k_4 k_5 k_6 k_8 k_{10}^2 k_{11} k_{12} k_{13} - 12 k_1 \\
& k_3^2 k_4 k_5 k_6 k_8 k_{10} k_{11}^2 k_{12} k_{13} - 12 k_1 k_3^2 k_4 k_5 k_6 k_9 k_{10}^2 k_{11} k_{12} k_{13} - 12 k_1 k_3^2 k_4 k_5 k_6 k_9 k_{10} \\
& k_{11}^2 k_{12} k_{13} - 2 k_1 k_3^2 k_4 k_5 k_8 k_{10}^2 k_{11} k_{12} k_{13}^2 - 2 k_1 k_3^2 k_4 k_5 k_8 k_{10} k_{11}^2 k_{12} k_{13}^2 - 2 k_1 \\
& k_3^2 k_4 k_5 k_9 k_{10}^2 k_{11} k_{12} k_{13}^2 - 2 k_1 k_3^2 k_4 k_5 k_9 k_{10} k_{11}^2 k_{12} k_{13}^2 - 6 k_1 k_3^2 k_4 k_6^3 k_8 k_{10}^2 k_{11} k_{12} \\
& - 6 k_1 k_3^2 k_4 k_6^3 k_8 k_{10} k_{11}^2 k_{12} - 6 k_1 k_3^2 k_4 k_6^3 k_9 k_{10}^2 k_{11} k_{12} - 6 k_1 k_3^2 k_4 k_6^3 k_9 k_{10} k_{11}^2 k_{12} \\
& - 12 k_1 k_3^2 k_4 k_6^2 k_8 k_{10}^2 k_{11} k_{12} k_{13} - 12 k_1 k_3^2 k_4 k_6^2 k_8 k_{10} k_{11}^2 k_{12} k_{13} - 12 k_1 k_3^2 k_4 k_6^2 k_9 \\
& k_{10}^2 k_{11} k_{12} k_{13} - 12 k_1 k_3^2 k_4 k_6^2 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 6 k_1 k_3^2 k_4 k_6 k_8 k_{10}^2 k_{11} k_{12} k_{13}^2 - 6 k_1 \\
& k_3^2 k_4 k_6 k_8 k_{10} k_{11}^2 k_{12} k_{13}^2 - 6 k_1 k_3^2 k_4 k_6 k_9 k_{10}^2 k_{11} k_{12} k_{13}^2 - 6 k_1 k_3^2 k_4 k_6 k_9 k_{10} k_{11}^2 k_{12} k_{13}^2 \\
& - 2 k_1 k_3 k_4 k_5^2 k_6 k_8 k_{10}^2 k_{11} k_{12}^2 - 2 k_1 k_3 k_4 k_5^2 k_6 k_8 k_{10} k_{11}^2 k_{12}^2 - 2 k_1 k_3 k_4 k_5^2 k_6 k_9 \\
& k_{10}^2 k_{11} k_{12}^2 - 2 k_1 k_3 k_4 k_5^2 k_6 k_9 k_{10} k_{11}^2 k_{12}^2 - 8 k_1 k_3 k_4 k_5 k_6^2 k_8 k_{10}^2 k_{11} k_{12}^2 - 8 k_1 k_3 k_4 k_5 \\
& k_6^2 k_8 k_{10} k_{11}^2 k_{12}^2 - 8 k_1 k_3 k_4 k_5 k_6^2 k_9 k_{10}^2 k_{11} k_{12}^2 - 8 k_1 k_3 k_4 k_5 k_6^2 k_9 k_{10} k_{11}^2 k_{12}^2 \\
& - 4 k_1 k_3 k_4 k_5 k_6 k_8 k_{10}^2 k_{11} k_{12}^2 k_{13} - 4 k_1 k_3 k_4 k_5 k_6 k_8 k_{10} k_{11}^2 k_{12}^2 k_{13} \\
& - 4 k_1 k_3 k_4 k_5 k_6 k_9 k_{10}^2 k_{11} k_{12}^2 k_{13} - 4 k_1 k_3 k_4 k_5 k_6 k_9 k_{10} k_{11}^2 k_{12}^2 k_{13} - 6 k_1 k_3 k_4 k_6^3 k_8 \\
& k_{10}^2 k_{11} k_{12}^2 - 6 k_1 k_3 k_4 k_6^3 k_8 k_{10} k_{11}^2 k_{12}^2 - 6 k_1 k_3 k_4 k_6^3 k_9 k_{10}^2 k_{11} k_{12}^2 - 6 k_1 k_3 k_4 k_6^3 k_9 k_{10} \\
& k_{11}^2 k_{12}^2 - 6 k_1 k_3 k_4 k_6^2 k_8 k_{10}^2 k_{11} k_{12}^2 k_{13} - 6 k_1 k_3 k_4 k_6^2 k_8 k_{10} k_{11}^2 k_{12}^2 k_{13} - 6 k_1 k_3 k_4 k_6^2 k_9 \\
& k_{10}^2 k_{11} k_{12}^2 k_{13} - 6 k_1 k_3 k_4 k_6^2 k_9 k_{10} k_{11}^2 k_{12}^2 k_{13} - 2 k_1 k_4 k_5 k_6^2 k_8 k_{10}^2 k_{11} k_{12}^3 - 2 k_1 k_4 k_5 \\
& k_6^2 k_8 k_{10} k_{11}^2 k_{12}^3 - 2 k_1 k_4 k_5 k_6^2 k_9 k_{10}^2 k_{11} k_{12}^3 - 2 k_1 k_4 k_5 k_6^2 k_9 k_{10} k_{11}^2 k_{12}^3 - 2 k_1 k_4 k_6^3 k_8 \\
& k_{10}^2 k_{11} k_{12}^3 - 2 k_1 k_4 k_6^3 k_8 k_{10} k_{11}^2 k_{12}^3 - 2 k_1 k_4 k_6^3 k_9 k_{10}^2 k_{11} k_{12}^3 - 2 k_1 k_4 k_6^3 k_9 k_{10} k_{11}^2 k_{12}^3 \\
& - k_2^3 k_4^2 k_5 k_6^2 k_8 k_{10}^3 - k_2^3 k_4^2 k_5 k_6^2 k_8 k_{10}^2 k_{11} - k_2^3 k_4^2 k_5 k_6^2 k_9 k_{10}^3 - k_2^3 k_4^2 k_5 k_6^2 k_9 k_{10}^2 k_{11} - \\
& k_2^3 k_4^2 k_6^3 k_8 k_{10}^3 - k_2^3 k_4^2 k_6^3 k_8 k_{10}^2 k_{11} - k_2^3 k_4^2 k_6^3 k_9 k_{10}^3 - k_2^3 k_4^2 k_6^3 k_9 k_{10}^2 k_{11} - k_2^3 k_4^2 k_6^2 k_8 \\
& k_{10}^3 k_{13} - k_2^3 k_4^2 k_6^2 k_8 k_{10}^2 k_{11} k_{13} - k_2^3 k_4^2 k_6^2 k_9 k_{10}^3 k_{13} - k_2^3 k_4^2 k_6^2 k_9 k_{10}^2 k_{11} k_{13} - 3 k_2^2 k_3 \\
& k_4^2 k_5 k_6^2 k_8 k_{10}^3 - 3 k_2^2 k_3 k_4^2 k_5 k_6^2 k_8 k_{10}^2 k_{11} - 3 k_2^2 k_3 k_4^2 k_5 k_6^2 k_9 k_{10}^3 - 3 k_2^2 k_3 k_4^2 k_5 k_6^2 k_9 \\
& k_{10}^2 k_{11} - 2 k_2^2 k_3 k_4^2 k_5 k_6 k_8 k_{10}^3 k_{13} - 2 k_2^2 k_3 k_4^2 k_5 k_6 k_8 k_{10}^2 k_{11} k_{13} - 2 k_2^2 k_3 k_4^2 k_5 k_6 k_9 \\
& k_{10}^3 k_{13} - 2 k_2^2 k_3 k_4^2 k_5 k_6 k_9 k_{10}^2 k_{11} k_{13} - 3 k_2^2 k_3 k_4^2 k_6^3 k_8 k_{10}^3 - 3 k_2^2 k_3 k_4^2 k_6^3 k_8 k_{10}^2 k_{11} - 3
\end{aligned}$$

$$\begin{aligned}
& k_2^2 k_3 k_4^2 k_6^3 k_9 k_{10}^3 - 3 k_2^2 k_3 k_4^2 k_6^3 k_9 k_{10}^2 k_{11} - 5 k_2^2 k_3 k_4^2 k_6^2 k_8 k_{10}^3 k_{13} - 5 k_2^2 k_3 k_4^2 k_6^2 k_8 \\
& k_{10}^2 k_{11} k_{13} - 5 k_2^2 k_3 k_4^2 k_6^2 k_9 k_{10}^3 k_{13} - 5 k_2^2 k_3 k_4^2 k_6^2 k_9 k_{10}^2 k_{11} k_{13} - 2 k_2^2 k_3 k_4^2 k_6^2 k_8 k_{10}^3 k_{13}^2 \\
& - 2 k_2^2 k_3 k_4^2 k_6^2 k_8 k_{10}^2 k_{11} k_{13}^2 - 2 k_2^2 k_3 k_4^2 k_6^2 k_9 k_{10}^3 k_{13}^2 - 2 k_2^2 k_3 k_4^2 k_6^2 k_9 k_{10}^2 k_{11} k_{13}^2 - 3 k_2^2 \\
& k_4^2 k_5 k_6^2 k_8 k_{10}^3 k_{12} - 3 k_2^2 k_4^2 k_5 k_6^2 k_8 k_{10}^2 k_{11} k_{12} - 3 k_2^2 k_4^2 k_5 k_6^2 k_9 k_{10}^3 k_{12} - 3 k_2^2 k_4^2 k_5 k_6^2 k_9 \\
& k_{10}^2 k_{11} k_{12} - 3 k_2^2 k_4^2 k_6^3 k_8 k_{10}^3 k_{12} - 3 k_2^2 k_4^2 k_6^3 k_8 k_{10}^2 k_{11} k_{12} - 3 k_2^2 k_4^2 k_6^3 k_9 k_{10}^3 k_{12} - 3 k_2^2 \\
& k_4^2 k_6^3 k_9 k_{10}^2 k_{11} k_{12} - 2 k_2^2 k_4^2 k_6^2 k_8 k_{10}^3 k_{12} k_{13} - 2 k_2^2 k_4^2 k_6^2 k_8 k_{10}^2 k_{11} k_{12} k_{13} - 2 k_2^2 k_4^2 k_6^2 k_9 \\
& k_{10}^3 k_{12} k_{13} - 2 k_2^2 k_4^2 k_6^2 k_9 k_{10}^2 k_{11} k_{12} k_{13} - 3 k_2 k_3^2 k_4^2 k_5 k_6^2 k_8 k_{10}^3 - 3 k_2 k_3^2 k_4^2 k_5 k_6^2 k_8 \\
& k_{10}^2 k_{11} - 3 k_2 k_3^2 k_4^2 k_5 k_6^2 k_9 k_{10}^3 - 3 k_2 k_3^2 k_4^2 k_5 k_6^2 k_9 k_{10}^2 k_{11} - 4 k_2 k_3^2 k_4^2 k_5 k_6 k_8 k_{10}^3 k_{13} \\
& - 4 k_2 k_3^2 k_4^2 k_5 k_6 k_8 k_{10}^2 k_{11} k_{13} - 4 k_2 k_3^2 k_4^2 k_5 k_6 k_9 k_{10}^3 k_{13} - 4 k_2 k_3^2 k_4^2 k_5 k_6 k_9 k_{10}^2 k_{11} k_{13} \\
& - k_2 k_3^2 k_4^2 k_5 k_8 k_{10}^3 k_{13}^2 - k_2 k_3^2 k_4^2 k_5 k_8 k_{10}^2 k_{11} k_{13}^2 - k_2 k_3^2 k_4^2 k_5 k_9 k_{10}^3 k_{13}^2 - k_2 k_3^2 k_4^2 k_5 k_9 \\
& k_{10}^2 k_{11} k_{13}^2 - 3 k_2 k_3^2 k_4^2 k_6^3 k_8 k_{10}^3 - 3 k_2 k_3^2 k_4^2 k_6^3 k_8 k_{10}^2 k_{11} - 3 k_2 k_3^2 k_4^2 k_6^3 k_9 k_{10}^3 - 3 k_2 k_3^2 \\
& k_4^2 k_6^3 k_9 k_{10}^2 k_{11} - 7 k_2 k_3^2 k_4^2 k_6^2 k_8 k_{10}^3 k_{13} - 7 k_2 k_3^2 k_4^2 k_6^2 k_8 k_{10}^2 k_{11} k_{13} - 7 k_2 k_3^2 k_4^2 k_6^2 k_9 \\
& k_{10}^3 k_{13} - 7 k_2 k_3^2 k_4^2 k_6^2 k_9 k_{10}^2 k_{11} k_{13} - 5 k_2 k_3^2 k_4^2 k_6 k_8 k_{10}^3 k_{13}^2 - 5 k_2 k_3^2 k_4^2 k_6 k_8 k_{10}^2 k_{11} k_{13}^2 \\
& - 5 k_2 k_3^2 k_4^2 k_6 k_9 k_{10}^3 k_{13}^2 - 5 k_2 k_3^2 k_4^2 k_6 k_9 k_{10}^2 k_{11} k_{13}^2 - k_2 k_3^2 k_4^2 k_8 k_{10}^3 k_{13}^2 - k_2 k_3^2 k_4^2 k_8 \\
& k_{10}^2 k_{11} k_{13}^2 - k_2 k_3^2 k_4^2 k_9 k_{10}^3 k_{13}^2 - k_2 k_3^2 k_4^2 k_9 k_{10}^2 k_{11} k_{13}^2 - 6 k_2 k_3 k_4^2 k_5 k_6^2 k_8 k_{10}^3 k_{12} \\
& - 6 k_2 k_3 k_4^2 k_5 k_6^2 k_8 k_{10}^2 k_{11} k_{12} - 6 k_2 k_3 k_4^2 k_5 k_6^2 k_9 k_{10}^3 k_{12} - 6 k_2 k_3 k_4^2 k_5 k_6^2 k_9 k_{10}^2 k_{11} k_{12} \\
& - 4 k_2 k_3 k_4^2 k_5 k_6 k_8 k_{10}^3 k_{12} k_{13} - 4 k_2 k_3 k_4^2 k_5 k_6 k_8 k_{10}^2 k_{11} k_{12} k_{13} - 4 k_2 k_3 k_4^2 k_5 k_6 k_9 \\
& k_{10}^3 k_{12} k_{13} - 4 k_2 k_3 k_4^2 k_5 k_6 k_9 k_{10}^2 k_{11} k_{12} k_{13} - 6 k_2 k_3 k_4^2 k_6^3 k_8 k_{10}^3 k_{12} - 6 k_2 k_3 k_4^2 k_6^3 k_8 \\
& k_{10}^2 k_{11} k_{12} - 6 k_2 k_3 k_4^2 k_6^3 k_9 k_{10}^3 k_{12} - 6 k_2 k_3 k_4^2 k_6^3 k_9 k_{10}^2 k_{11} k_{12} - 8 k_2 k_3 k_4^2 k_6^2 k_8 \\
& k_{10}^3 k_{12} k_{13} - 8 k_2 k_3 k_4^2 k_6^2 k_8 k_{10}^2 k_{11} k_{12} k_{13} - 8 k_2 k_3 k_4^2 k_6^2 k_9 k_{10}^3 k_{12} k_{13} - 8 k_2 k_3 k_4^2 k_6^2 k_9 \\
& k_{10}^2 k_{11} k_{12} k_{13} - 2 k_2 k_3 k_4^2 k_6 k_8 k_{10}^3 k_{12} k_{13}^2 - 2 k_2 k_3 k_4^2 k_6 k_8 k_{10}^2 k_{11} k_{12} k_{13}^2 - 2 k_2 k_3 \\
& k_4^2 k_6 k_9 k_{10}^3 k_{12} k_{13}^2 - 2 k_2 k_3 k_4^2 k_6 k_9 k_{10}^2 k_{11} k_{12} k_{13}^2 - 3 k_2 k_4^2 k_5 k_6^2 k_8 k_{10}^3 k_{12}^2 - 3 k_2 k_4^2 k_5 \\
& k_6^2 k_8 k_{10}^2 k_{11} k_{12}^2 - 3 k_2 k_4^2 k_5 k_6^2 k_9 k_{10}^3 k_{12}^2 - 3 k_2 k_4^2 k_5 k_6^2 k_9 k_{10}^2 k_{11} k_{12}^2 - 3 k_2 k_4^2 k_6^3 k_8 k_{10}^3 \\
& k_{12}^2 - 3 k_2 k_4^2 k_6^3 k_8 k_{10}^2 k_{11} k_{12}^2 - 3 k_2 k_4^2 k_6^3 k_9 k_{10}^3 k_{12}^2 - 3 k_2 k_4^2 k_6^3 k_9 k_{10}^2 k_{11} k_{12}^2 - k_2 k_4^2 \\
& k_6^2 k_8 k_{10}^3 k_{12}^2 k_{13} - k_2 k_4^2 k_6^2 k_8 k_{10}^2 k_{11} k_{12}^2 k_{13} - k_2 k_4^2 k_6^2 k_9 k_{10}^3 k_{12}^2 k_{13} - k_2 k_4^2 k_6^2 k_9 k_{10}^2 k_{11} \\
& k_{12}^2 k_{13} - k_3^2 k_4^2 k_5 k_6^2 k_8 k_{10}^3 - k_3^2 k_4^2 k_5 k_6^2 k_8 k_{10}^2 k_{11} - k_3^2 k_4^2 k_5 k_6^2 k_9 k_{10}^3 - k_3^2 k_4^2 k_5 k_6^2 k_9 \\
& k_{10}^2 k_{11} - 2 k_3^2 k_4^2 k_5 k_6 k_8 k_{10}^3 k_{13} - 2 k_3^2 k_4^2 k_5 k_6 k_8 k_{10}^2 k_{11} k_{13} - 2 k_3^2 k_4^2 k_5 k_6 k_9 k_{10}^3 k_{13} - 2
\end{aligned}$$

$$\begin{aligned}
& k_3^3 k_4^2 k_5 k_6 k_9 k_{10}^2 k_{11} k_{13} - k_3^3 k_4^2 k_5 k_8 k_{10}^2 k_{13}^2 - k_3^3 k_4^2 k_5 k_8 k_{10}^2 k_{11} k_{13}^2 - k_3^3 k_4^2 k_5 k_9 k_{10}^2 k_{13}^2 \\
& - k_3^3 k_4^2 k_5 k_9 k_{10}^2 k_{11} k_{13}^2 - k_3^3 k_4^2 k_6^3 k_8 k_{10}^2 - k_3^3 k_4^2 k_6^3 k_8 k_{10}^2 k_{11} - k_3^3 k_4^2 k_6^3 k_9 k_{10}^2 - k_3^3 k_4^2 \\
& k_6^3 k_9 k_{10}^2 k_{11} - 3 k_3^3 k_4^2 k_6^2 k_8 k_{10}^2 k_{13} - 3 k_3^3 k_4^2 k_6^2 k_8 k_{10}^2 k_{11} k_{13} - 3 k_3^3 k_4^2 k_6^2 k_9 k_{10}^2 k_{13} - 3 k_3^3 \\
& k_4^2 k_6^2 k_9 k_{10}^2 k_{11} k_{13} - 3 k_3^3 k_4^2 k_6 k_8 k_{10}^2 k_{13}^2 - 3 k_3^3 k_4^2 k_6 k_8 k_{10}^2 k_{11} k_{13}^2 - 3 k_3^3 k_4^2 k_6 k_9 k_{10}^2 k_{13}^2 \\
& - 3 k_3^3 k_4^2 k_6 k_9 k_{10}^2 k_{11} k_{13}^2 - k_3^3 k_4^2 k_8 k_{10}^2 k_{13}^3 - k_3^3 k_4^2 k_8 k_{10}^2 k_{11} k_{13}^3 - k_3^3 k_4^2 k_9 k_{10}^2 k_{13}^3 - k_3^3 \\
& k_4^2 k_9 k_{10}^2 k_{11} k_{13}^3 - 3 k_3^2 k_4^2 k_5 k_6^2 k_8 k_{10}^2 k_{12} - 3 k_3^2 k_4^2 k_5 k_6^2 k_8 k_{10}^2 k_{11} k_{12} - 3 k_3^2 k_4^2 k_5 k_6^2 k_9 \\
& k_{10}^2 k_{12} - 3 k_3^2 k_4^2 k_5 k_6^2 k_9 k_{10}^2 k_{11} k_{12} - 4 k_3^2 k_4^2 k_5 k_6 k_8 k_{10}^2 k_{12} k_{13} - 4 k_3^2 k_4^2 k_5 k_6 k_8 \\
& k_{10}^2 k_{11} k_{12} k_{13} - 4 k_3^2 k_4^2 k_5 k_6 k_9 k_{10}^2 k_{12} k_{13} - 4 k_3^2 k_4^2 k_5 k_6 k_9 k_{10}^2 k_{11} k_{12} k_{13} - k_3^2 k_4^2 k_5 k_8 \\
& k_{10}^2 k_{12} k_{13}^2 - k_3^2 k_4^2 k_5 k_8 k_{10}^2 k_{11} k_{12} k_{13}^2 - k_3^2 k_4^2 k_5 k_9 k_{10}^2 k_{12} k_{13}^2 - k_3^2 k_4^2 k_5 k_9 k_{10}^2 k_{11} k_{12} k_{13}^2 \\
& - 3 k_3^2 k_4^2 k_6^3 k_8 k_{10}^2 k_{12} - 3 k_3^2 k_4^2 k_6^3 k_8 k_{10}^2 k_{11} k_{12} - 3 k_3^2 k_4^2 k_6^3 k_9 k_{10}^2 k_{12} - 3 k_3^2 k_4^2 k_6^3 k_9 \\
& k_{10}^2 k_{11} k_{12} - 6 k_3^2 k_4^2 k_6^2 k_8 k_{10}^2 k_{12} k_{13} - 6 k_3^2 k_4^2 k_6^2 k_8 k_{10}^2 k_{11} k_{12} k_{13} - 6 k_3^2 k_4^2 k_6^2 k_9 \\
& k_{10}^2 k_{12} k_{13} - 6 k_3^2 k_4^2 k_6^2 k_9 k_{10}^2 k_{11} k_{12} k_{13} - 3 k_3^2 k_4^2 k_6 k_8 k_{10}^2 k_{12} k_{13}^2 - 3 k_3^2 k_4^2 k_6 k_8 \\
& k_{10}^2 k_{11} k_{12} k_{13}^2 - 3 k_3^2 k_4^2 k_6 k_9 k_{10}^2 k_{12} k_{13}^2 - 3 k_3^2 k_4^2 k_6 k_9 k_{10}^2 k_{11} k_{12} k_{13}^2 - 3 k_3 k_4^2 k_5 k_6^2 k_8 \\
& k_{10}^2 k_{12}^2 - 3 k_3 k_4^2 k_5 k_6^2 k_8 k_{10}^2 k_{11} k_{12}^2 - 3 k_3 k_4^2 k_5 k_6^2 k_9 k_{10}^2 k_{12}^2 - 3 k_3 k_4^2 k_5 k_6^2 k_9 k_{10}^2 k_{11} k_{12}^2 \\
& - 2 k_3 k_4^2 k_5 k_6 k_8 k_{10}^2 k_{12} k_{13} - 2 k_3 k_4^2 k_5 k_6 k_8 k_{10}^2 k_{11} k_{12} k_{13} - 2 k_3 k_4^2 k_5 k_6 k_9 k_{10}^2 k_{12} k_{13} \\
& - 2 k_3 k_4^2 k_5 k_6 k_9 k_{10}^2 k_{11} k_{12} k_{13} - 3 k_3 k_4^2 k_6^3 k_8 k_{10}^2 k_{12}^2 - 3 k_3 k_4^2 k_6^3 k_8 k_{10}^2 k_{11} k_{12}^2 - 3 k_3 \\
& k_4^2 k_6^3 k_9 k_{10}^2 k_{12}^2 - 3 k_3 k_4^2 k_6^3 k_9 k_{10}^2 k_{11} k_{12}^2 - 3 k_3 k_4^2 k_6^2 k_8 k_{10}^2 k_{12} k_{13} - 3 k_3 k_4^2 k_6^2 k_8 k_{10}^2 k_{11} \\
& k_{12} k_{13} - 3 k_3 k_4^2 k_6^2 k_9 k_{10}^2 k_{12} k_{13} - 3 k_3 k_4^2 k_6^2 k_9 k_{10}^2 k_{11} k_{12} k_{13} - k_4^2 k_5 k_6^2 k_8 k_{10}^2 k_{12}^2 - \\
& k_4^2 k_5 k_6^2 k_8 k_{10}^2 k_{11} k_{12}^2 - k_4^2 k_5 k_6^2 k_9 k_{10}^2 k_{12}^2 - k_4^2 k_5 k_6^2 k_9 k_{10}^2 k_{11} k_{12}^2 - k_4^2 k_6^3 k_8 k_{10}^2 k_{12}^2 - k_4^2 \\
& k_6^3 k_8 k_{10}^2 k_{11} k_{12}^2 - k_4^2 k_6^3 k_9 k_{10}^2 k_{12}^2 - k_4^2 k_6^3 k_9 k_{10}^2 k_{11} k_{12}^2) x_1 x_3^2 + k_7 (-3 k_1 k_2^2 k_3 k_4 \\
& k_5^2 k_7 k_9 k_{10} k_{11} k_{13} - 3 k_1 k_2^2 k_3 k_4 k_5^2 k_7 k_9 k_{11} k_{13} - 6 k_1 k_2^2 k_3 k_4 k_5 k_6 k_7 k_9 k_{10} k_{11} k_{13} \\
& - 6 k_1 k_2^2 k_3 k_4 k_5 k_6 k_7 k_9 k_{11} k_{13} - 6 k_1 k_2^2 k_3 k_4 k_5 k_7 k_9 k_{10} k_{11} k_{13}^2 - 6 k_1 k_2^2 k_3 k_4 k_5 k_7 k_9 \\
& k_{11} k_{13}^2 - 3 k_1 k_2^2 k_3 k_4 k_6^2 k_7 k_9 k_{10} k_{11} k_{13} - 3 k_1 k_2^2 k_3 k_4 k_6^2 k_7 k_9 k_{11} k_{13} - 6 k_1 \\
& k_2^2 k_3 k_4 k_6 k_7 k_9 k_{10} k_{11} k_{13}^2 - 6 k_1 k_2^2 k_3 k_4 k_6 k_7 k_9 k_{11} k_{13}^2 - 3 k_1 k_2^2 k_3 k_4 k_7 k_9 k_{10} k_{11} k_{13}^3 \\
& - 3 k_1 k_2^2 k_3 k_4 k_7 k_9 k_{11} k_{13}^3 - 2 k_1 k_2^2 k_4 k_5^2 k_6 k_7 k_9 k_{10} k_{11} k_{12} - 2 k_1 k_2^2 k_4 k_5^2 k_6 k_7 k_9 \\
& k_{11} k_{12} - 2 k_1 k_2^2 k_4 k_5^2 k_7 k_9 k_{10} k_{11} k_{12} - 3 k_1 k_2^2 k_4 k_5^2 k_7 k_9 k_{10} k_{11} k_{13} - 2 k_1 k_2^2 k_4 k_5^2 k_7 k_9 \\
& k_{11} k_{12} - 3 k_1 k_2^2 k_4 k_5^2 k_7 k_9 k_{11} k_{13} - 4 k_1 k_2^2 k_4 k_5 k_6^2 k_7 k_9 k_{10} k_{11} k_{12} - 4 k_1 k_2^2 k_4 k_5
\end{aligned}$$

$$\begin{aligned}
& k_6^2 k_7 k_9 k_{11}^2 k_{12} - 4 k_1 k_2^2 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11} k_{12} - 6 k_1 k_2^2 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11} k_{13} - 4 k_1 \\
& k_2^2 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{12} - 6 k_1 k_2^2 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{13} - 5 k_1 k_2^2 k_4 k_5 k_6 k_7 k_9 k_{10} k_{11} k_{12} k_{13} \\
& - 5 k_1 k_2^2 k_4 k_5 k_6 k_7 k_9 k_{11}^2 k_{12} k_{13} - 5 k_1 k_2^2 k_4 k_5 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13} - 6 k_1 k_2^2 k_4 k_5 k_7 \\
& k_9^2 k_{10} k_{11} k_{13}^2 - 5 k_1 k_2^2 k_4 k_5 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 6 k_1 k_2^2 k_4 k_5 k_7 k_9^2 k_{11}^2 k_{13}^2 - 2 k_1 k_2^2 k_4 \\
& k_6^3 k_7 k_9 k_{10} k_{11} k_{12} - 2 k_1 k_2^2 k_4 k_6^3 k_7 k_9 k_{11}^2 k_{12} - 2 k_1 k_2^2 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11} k_{12} - 3 k_1 k_2^2 k_4 \\
& k_6^2 k_7 k_9^2 k_{10} k_{11} k_{13} - 2 k_1 k_2^2 k_4 k_6^2 k_7 k_9^2 k_{11}^2 k_{12} - 3 k_1 k_2^2 k_4 k_6^2 k_7 k_9^2 k_{11}^2 k_{13} - 5 k_1 k_2^2 k_4 \\
& k_6^2 k_7 k_9 k_{10} k_{11} k_{12} k_{13} - 5 k_1 k_2^2 k_4 k_6^2 k_7 k_9 k_{11}^2 k_{12} k_{13} - 5 k_1 k_2^2 k_4 k_6 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13} \\
& - 6 k_1 k_2^2 k_4 k_6 k_7 k_9^2 k_{10} k_{11} k_{13}^2 - 5 k_1 k_2^2 k_4 k_6 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 6 k_1 k_2^2 k_4 k_6 k_7 k_9^2 k_{11}^2 k_{13}^2 \\
& - 3 k_1 k_2^2 k_4 k_6 k_7 k_9 k_{10} k_{11} k_{12} k_{13}^2 - 3 k_1 k_2^2 k_4 k_6 k_7 k_9 k_{11}^2 k_{12} k_{13}^2 - 3 k_1 k_2^2 k_4 k_7 \\
& k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - 3 k_1 k_2^2 k_4 k_7 k_9^2 k_{10} k_{11} k_{13}^3 - 3 k_1 k_2^2 k_4 k_7 k_9^2 k_{11}^2 k_{12} k_{13}^2 - 3 k_1 k_2^2 k_4 k_7 \\
& k_9^2 k_{11}^2 k_{13}^3 - 6 k_1 k_2 k_3^2 k_4 k_5^2 k_7 k_9 k_{10} k_{11} k_{13} - 6 k_1 k_2 k_3^2 k_4 k_5^2 k_7 k_9 k_{11}^2 k_{13} - 12 k_1 k_2 \\
& k_3^2 k_4 k_5 k_6 k_7 k_9 k_{10} k_{11} k_{13} - 12 k_1 k_2 k_3^2 k_4 k_5 k_6 k_7 k_9 k_{11}^2 k_{13} - 12 k_1 k_2 \\
& k_3^2 k_4 k_5 k_7 k_9 k_{10} k_{11} k_{13}^2 - 12 k_1 k_2 k_3^2 k_4 k_5 k_7 k_9 k_{11}^2 k_{13}^2 - 6 k_1 k_2 k_3^2 k_4 k_6^2 k_7 k_9 k_{10} k_{11} k_{13} \\
& - 6 k_1 k_2 k_3^2 k_4 k_6^2 k_7 k_9 k_{11}^2 k_{13} - 12 k_1 k_2 k_3^2 k_4 k_6 k_7 k_9 k_{10} k_{11} k_{13}^2 - 12 k_1 k_2 k_3^2 k_4 k_6 k_7 k_9 \\
& k_{11}^2 k_{13}^2 - 6 k_1 k_2 k_3^2 k_4 k_7 k_9 k_{10} k_{11} k_{13}^3 - 6 k_1 k_2 k_3^2 k_4 k_7 k_9 k_{11}^2 k_{13}^3 - 4 k_1 k_2 k_3 k_4 \\
& k_5^2 k_6 k_7 k_9 k_{10} k_{11} k_{12} - 4 k_1 k_2 k_3 k_4 k_5^2 k_6 k_7 k_9 k_{11}^2 k_{12} - 4 k_1 k_2 k_3 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11} k_{12} \\
& - 6 k_1 k_2 k_3 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11} k_{13} - 4 k_1 k_2 k_3 k_4 k_5^2 k_7 k_9^2 k_{11}^2 k_{12} - 6 k_1 k_2 k_3 k_4 k_5^2 k_7 k_9^2 \\
& k_{11}^2 k_{13} - 5 k_1 k_2 k_3 k_4 k_5^2 k_7 k_9 k_{10} k_{11} k_{12} k_{13} - 5 k_1 k_2 k_3 k_4 k_5^2 k_7 k_9 k_{11}^2 k_{12} k_{13} \\
& - 8 k_1 k_2 k_3 k_4 k_5 k_6^2 k_7 k_9 k_{10} k_{11} k_{12} - 8 k_1 k_2 k_3 k_4 k_5 k_6^2 k_7 k_9 k_{11}^2 k_{12} \\
& - 8 k_1 k_2 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11} k_{12} - 12 k_1 k_2 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11} k_{13} \\
& - 8 k_1 k_2 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{12} - 12 k_1 k_2 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{13} \\
& - 20 k_1 k_2 k_3 k_4 k_5 k_6 k_7 k_9 k_{10} k_{11} k_{12} k_{13} - 20 k_1 k_2 k_3 k_4 k_5 k_6 k_7 k_9 k_{11}^2 k_{12} k_{13} \\
& - 10 k_1 k_2 k_3 k_4 k_5 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13} - 12 k_1 k_2 k_3 k_4 k_5 k_7 k_9^2 k_{10} k_{11} k_{13}^2 \\
& - 10 k_1 k_2 k_3 k_4 k_5 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 12 k_1 k_2 k_3 k_4 k_5 k_7 k_9^2 k_{11}^2 k_{13}^2 \\
& - 5 k_1 k_2 k_3 k_4 k_5 k_7 k_9 k_{10} k_{11} k_{12} k_{13}^2 - 5 k_1 k_2 k_3 k_4 k_5 k_7 k_9 k_{11}^2 k_{12} k_{13}^2 - 4 k_1 k_2 k_3 k_4 \\
& k_6^3 k_7 k_9 k_{10} k_{11} k_{12} - 4 k_1 k_2 k_3 k_4 k_6^3 k_7 k_9 k_{11}^2 k_{12} - 4 k_1 k_2 k_3 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11} k_{12} \\
& - 6 k_1 k_2 k_3 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11} k_{13} - 4 k_1 k_2 k_3 k_4 k_6^2 k_7 k_9^2 k_{11}^2 k_{12} - 6 k_1 k_2 k_3 k_4 k_6^2 k_7 k_9^2
\end{aligned}$$

$$\begin{aligned}
& k_{11}^2 k_{13} - 15 k_1 k_2 k_3 k_4 k_6^2 k_7 k_9 k_{10} k_{11} k_{12} k_{13} - 15 k_1 k_2 k_3 k_4 k_6^2 k_7 k_9 k_{11}^2 k_{12} k_{13} \\
& - 10 k_1 k_2 k_3 k_4 k_6 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13} - 12 k_1 k_2 k_3 k_4 k_6 k_7 k_9^2 k_{10} k_{11} k_{13}^2 \\
& - 10 k_1 k_2 k_3 k_4 k_6 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 12 k_1 k_2 k_3 k_4 k_6 k_7 k_9^2 k_{11}^2 k_{13}^2 \\
& - 11 k_1 k_2 k_3 k_4 k_6 k_7 k_9 k_{10} k_{11} k_{12} k_{13}^2 - 11 k_1 k_2 k_3 k_4 k_6 k_7 k_9 k_{11}^2 k_{12} k_{13}^2 \\
& - 6 k_1 k_2 k_3 k_4 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - 6 k_1 k_2 k_3 k_4 k_7 k_9^2 k_{10} k_{11} k_{13}^3 - 6 k_1 k_2 k_3 k_4 k_7 k_9^2 \\
& k_{11}^2 k_{12} k_{13}^2 - 6 k_1 k_2 k_3 k_4 k_7 k_9^2 k_{11}^2 k_{13}^3 - 4 k_1 k_2 k_4 k_5^2 k_6 k_7 k_9 k_{10} k_{11} k_{12}^2 - 4 k_1 k_2 k_4 \\
& k_5^2 k_6 k_7 k_9 k_{11}^2 k_{12}^2 - 4 k_1 k_2 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11} k_{12}^2 - 5 k_1 k_2 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13} \\
& - 4 k_1 k_2 k_4 k_5^2 k_7 k_9^2 k_{11}^2 k_{12}^2 - 5 k_1 k_2 k_4 k_5^2 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 8 k_1 k_2 k_4 k_5^2 k_6 k_7 k_9 k_{10} k_{11} \\
& k_{12}^2 - 8 k_1 k_2 k_4 k_5^2 k_6 k_7 k_9 k_{11}^2 k_{12}^2 - 8 k_1 k_2 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11} k_{12}^2 - 10 k_1 k_2 k_4 k_5 k_6 k_7 \\
& k_9^2 k_{10} k_{11} k_{12} k_{13} - 8 k_1 k_2 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{12}^2 - 10 k_1 k_2 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{12} k_{13} \\
& - 5 k_1 k_2 k_4 k_5 k_6 k_7 k_9 k_{10} k_{11} k_{12}^2 k_{13} - 5 k_1 k_2 k_4 k_5 k_6 k_7 k_9 k_{11}^2 k_{12}^2 k_{13} - 5 k_1 k_2 k_4 k_5 k_7 \\
& k_9^2 k_{10} k_{11} k_{12}^2 k_{13} - 5 k_1 k_2 k_4 k_5 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - 5 k_1 k_2 k_4 k_5 k_7 k_9^2 k_{11}^2 k_{12}^2 k_{13} \\
& - 5 k_1 k_2 k_4 k_5 k_7 k_9^2 k_{11}^2 k_{12} k_{13}^2 - 4 k_1 k_2 k_4 k_5^2 k_6 k_7 k_9 k_{10} k_{11} k_{12}^2 - 4 k_1 k_2 k_4 k_5^2 k_6 k_7 k_9 k_{11}^2 k_{12}^2 \\
& - 4 k_1 k_2 k_4 k_5^2 k_6 k_7 k_9^2 k_{10} k_{11} k_{12}^2 - 5 k_1 k_2 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13} - 4 k_1 k_2 k_4 k_5^2 k_7 k_9^2 \\
& k_{11}^2 k_{12}^2 - 5 k_1 k_2 k_4 k_5^2 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 5 k_1 k_2 k_4 k_5^2 k_7 k_9 k_{10} k_{11} k_{12}^2 k_{13} - 5 k_1 k_2 k_4 \\
& k_5^2 k_6 k_7 k_9 k_{11}^2 k_{12}^2 k_{13} - 5 k_1 k_2 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11} k_{12}^2 k_{13} - 5 k_1 k_2 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13}^2 \\
& - 5 k_1 k_2 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{12}^2 k_{13} - 5 k_1 k_2 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{12} k_{13}^2 - 3 k_1 k_3^3 k_4 \\
& k_5^2 k_7 k_9 k_{10} k_{11} k_{13} - 3 k_1 k_3^3 k_4 k_5^2 k_7 k_9 k_{11}^2 k_{13} - 6 k_1 k_3^3 k_4 k_5 k_6 k_7 k_9 k_{10} k_{11} k_{13} - 6 k_1 \\
& k_3^3 k_4 k_5 k_6 k_7 k_9 k_{11}^2 k_{13} - 6 k_1 k_3^3 k_4 k_5 k_7 k_9 k_{10} k_{11} k_{13}^2 - 6 k_1 k_3^3 k_4 k_5 k_7 k_9 k_{11}^2 k_{13}^2 - 3 k_1 \\
& k_3^3 k_4 k_5^2 k_6 k_7 k_9 k_{10} k_{11} k_{13} - 3 k_1 k_3^3 k_4 k_5^2 k_7 k_9 k_{11}^2 k_{13} - 6 k_1 k_3^3 k_4 k_5 k_6 k_7 k_9 k_{10} k_{11} k_{13}^2 - 6 k_1 \\
& k_3^3 k_4 k_5 k_6 k_7 k_9 k_{11}^2 k_{13}^2 - 3 k_1 k_3^3 k_4 k_7 k_9 k_{10} k_{11} k_{13}^3 - 3 k_1 k_3^3 k_4 k_7 k_9 k_{11}^2 k_{13}^3 - 2 k_1 k_3^2 k_4 \\
& k_5^2 k_6 k_7 k_9 k_{10} k_{11} k_{12} - 2 k_1 k_3^2 k_4 k_5^2 k_6 k_7 k_9 k_{11}^2 k_{12} - 2 k_1 k_3^2 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11} k_{12} - 3 k_1 \\
& k_3^2 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11} k_{13} - 2 k_1 k_3^2 k_4 k_5^2 k_7 k_9^2 k_{11}^2 k_{12} - 3 k_1 k_3^2 k_4 k_5^2 k_7 k_9^2 k_{11}^2 k_{13} - 5 k_1 \\
& k_3^2 k_4 k_5^2 k_7 k_9 k_{10} k_{11} k_{12} k_{13} - 5 k_1 k_3^2 k_4 k_5^2 k_7 k_9 k_{11}^2 k_{12} k_{13} - 4 k_1 k_3^2 k_4 k_5 \\
& k_6^2 k_7 k_9 k_{10} k_{11} k_{12} - 4 k_1 k_3^2 k_4 k_5 k_6^2 k_7 k_9 k_{11}^2 k_{12} - 4 k_1 k_3^2 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11} k_{12} - 6 k_1 \\
& k_3^2 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11} k_{13} - 4 k_1 k_3^2 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{12} - 6 k_1 k_3^2 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{13} \\
& - 15 k_1 k_3^2 k_4 k_5 k_6 k_7 k_9 k_{10} k_{11} k_{12} k_{13} - 15 k_1 k_3^2 k_4 k_5 k_6 k_7 k_9 k_{11}^2 k_{12} k_{13} - 5 k_1
\end{aligned}$$

$$\begin{aligned}
& k_3^2 k_4 k_5 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13} - 6 k_1 k_3^2 k_4 k_5 k_7 k_9^2 k_{10} k_{11} k_{13}^2 - 5 k_1 k_3^2 k_4 k_5 k_7 k_9^2 k_{11}^2 k_{12} k_{13} \\
& - 6 k_1 k_3^2 k_4 k_5 k_7 k_9^2 k_{11}^2 k_{13}^2 - 5 k_1 k_3^2 k_4 k_5 k_7 k_9 k_{10} k_{11} k_{12} k_{13}^2 - 5 k_1 k_3^2 k_4 k_5 k_7 k_9 \\
& k_{11}^2 k_{12} k_{13}^2 - 2 k_1 k_3^2 k_4 k_6^3 k_7 k_9 k_{10} k_{11} k_{12} - 2 k_1 k_3^2 k_4 k_6^3 k_7 k_9 k_{11}^2 k_{12} - 2 k_1 k_3^2 k_4 k_6^2 k_7 \\
& k_9^2 k_{10} k_{11} k_{12} - 3 k_1 k_3^2 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11} k_{13} - 2 k_1 k_3^2 k_4 k_6^2 k_7 k_9^2 k_{11}^2 k_{12} - 3 k_1 k_3^2 k_4 k_6^2 k_7 \\
& k_9^2 k_{11}^2 k_{13} - 10 k_1 k_3^2 k_4 k_6^2 k_7 k_9 k_{10} k_{11} k_{12} k_{13} - 10 k_1 k_3^2 k_4 k_6^2 k_7 k_9 k_{11}^2 k_{12} k_{13} - 5 k_1 \\
& k_3^2 k_4 k_6 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13} - 6 k_1 k_3^2 k_4 k_6 k_7 k_9^2 k_{10} k_{11} k_{13}^2 - 5 k_1 k_3^2 k_4 k_6 k_7 k_9^2 k_{11}^2 k_{12} k_{13} \\
& - 6 k_1 k_3^2 k_4 k_6 k_7 k_9^2 k_{11}^2 k_{13}^2 - 8 k_1 k_3^2 k_4 k_6 k_7 k_9 k_{10} k_{11} k_{12} k_{13}^2 - 8 k_1 k_3^2 k_4 k_6 k_7 k_9 \\
& k_{11}^2 k_{12} k_{13}^2 - 3 k_1 k_3^2 k_4 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - 3 k_1 k_3^2 k_4 k_7 k_9^2 k_{10} k_{11} k_{13}^3 - 3 k_1 k_3^2 k_4 k_7 k_9^2 \\
& k_{11}^2 k_{12} k_{13}^2 - 3 k_1 k_3^2 k_4 k_7 k_9^2 k_{11}^2 k_{13}^3 - 4 k_1 k_3 k_4 k_5^2 k_6 k_7 k_9 k_{10} k_{11} k_{12}^2 - 4 k_1 k_3 k_4 \\
& k_5^2 k_6 k_7 k_9 k_{11}^2 k_{12}^2 - 4 k_1 k_3 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11} k_{12}^2 - 5 k_1 k_3 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13} \\
& - 4 k_1 k_3 k_4 k_5^2 k_7 k_9^2 k_{11}^2 k_{12}^2 - 5 k_1 k_3 k_4 k_5^2 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 2 k_1 k_3 k_4 k_5^2 k_7 k_9 k_{10} k_{11} \\
& k_{12}^2 k_{13} - 2 k_1 k_3 k_4 k_5^2 k_7 k_9 k_{11}^2 k_{12}^2 k_{13} - 8 k_1 k_3 k_4 k_5 k_6^2 k_7 k_9 k_{10} k_{11} k_{12}^2 - 8 k_1 k_3 k_4 k_5 \\
& k_6^2 k_7 k_9 k_{11}^2 k_{12}^2 - 8 k_1 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11} k_{12}^2 - 10 k_1 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13} \\
& - 8 k_1 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{12}^2 - 10 k_1 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{12} k_{13} \\
& - 9 k_1 k_3 k_4 k_5 k_6 k_7 k_9 k_{10} k_{11} k_{12}^2 k_{13} - 9 k_1 k_3 k_4 k_5 k_6 k_7 k_9 k_{11}^2 k_{12}^2 k_{13} - 5 k_1 k_3 k_4 k_5 k_7 \\
& k_9^2 k_{10} k_{11} k_{12}^2 k_{13} - 5 k_1 k_3 k_4 k_5 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - 5 k_1 k_3 k_4 k_5 k_7 k_9^2 k_{11}^2 k_{12}^2 k_{13} \\
& - 5 k_1 k_3 k_4 k_5 k_7 k_9^2 k_{11}^2 k_{12} k_{13}^2 - 4 k_1 k_3 k_4 k_6^3 k_7 k_9 k_{10} k_{11} k_{12}^2 - 4 k_1 k_3 k_4 k_6^3 k_7 k_9 k_{11}^2 k_{12}^2 \\
& - 4 k_1 k_3 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11} k_{12}^2 - 5 k_1 k_3 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13} - 4 k_1 k_3 k_4 k_6^2 k_7 k_9^2 \\
& k_{11}^2 k_{12}^2 - 5 k_1 k_3 k_4 k_6^2 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 7 k_1 k_3 k_4 k_6^2 k_7 k_9 k_{10} k_{11} k_{12}^2 k_{13} - 7 k_1 k_3 k_4 \\
& k_6^2 k_7 k_9 k_{11}^2 k_{12}^2 k_{13} - 5 k_1 k_3 k_4 k_6 k_7 k_9^2 k_{10} k_{11} k_{12}^2 k_{13} - 5 k_1 k_3 k_4 k_6 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13}^2 \\
& - 5 k_1 k_3 k_4 k_6 k_7 k_9^2 k_{11}^2 k_{12}^2 k_{13} - 5 k_1 k_3 k_4 k_6 k_7 k_9^2 k_{11}^2 k_{12} k_{13}^2 - 2 k_1 k_4 \\
& k_5^2 k_6 k_7 k_9 k_{10} k_{11} k_{12}^3 - 2 k_1 k_4 k_5^2 k_6 k_7 k_9 k_{11}^2 k_{12}^3 - 2 k_1 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11} k_{12}^3 - 2 k_1 k_4 \\
& k_5^2 k_7 k_9^2 k_{10} k_{11} k_{12}^2 k_{13} - 2 k_1 k_4 k_5^2 k_7 k_9^2 k_{11}^2 k_{12}^3 - 2 k_1 k_4 k_5^2 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 4 k_1 k_4 k_5 \\
& k_6^2 k_7 k_9 k_{10} k_{11} k_{12}^3 - 4 k_1 k_4 k_5 k_6^2 k_7 k_9 k_{11}^2 k_{12}^3 - 4 k_1 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11} k_{12}^3 \\
& - 4 k_1 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11} k_{12}^2 k_{13} - 4 k_1 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{12}^3 - 4 k_1 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 \\
& k_{12}^2 k_{13} - 2 k_1 k_4 k_6^3 k_7 k_9 k_{10} k_{11} k_{12}^3 - 2 k_1 k_4 k_6^3 k_7 k_9 k_{11}^2 k_{12}^3 - 2 k_1 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11} k_{12}^3 \\
& - 2 k_1 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11} k_{12}^2 k_{13} - 2 k_1 k_4 k_6^2 k_7 k_9^2 k_{11}^2 k_{12}^3 - 2 k_1 k_4 k_6^2 k_7 k_9^2 k_{11}^2 k_{12} k_{13} -
\end{aligned}$$

$$\begin{aligned}
& k_2^3 k_4^2 k_5 k_6 k_7 k_9 k_{10}^2 k_{13} - k_2^3 k_4^2 k_5 k_6 k_7 k_9 k_{10} k_{11} k_{13} - k_2^3 k_4^2 k_5 k_7 k_9^2 k_{10}^2 k_{13} - k_2^3 k_4^2 k_5 k_7 \\
& k_9^2 k_{10} k_{11} k_{13} - k_2^3 k_4^2 k_6^2 k_7 k_9 k_{10}^2 k_{13} - k_2^3 k_4^2 k_6^2 k_7 k_9 k_{10} k_{11} k_{13} - k_2^3 k_4^2 k_6 k_7 k_9^2 k_{10}^2 k_{13} - \\
& k_2^3 k_4^2 k_6 k_7 k_9^2 k_{10} k_{11} k_{13} - k_2^3 k_4^2 k_6 k_7 k_9 k_{10}^2 k_{13}^2 - k_2^3 k_4^2 k_6 k_7 k_9 k_{10} k_{11} k_{13}^2 - k_2^3 k_4^2 k_7 k_9^2 \\
& k_{10}^2 k_{13}^2 - k_2^3 k_4^2 k_7 k_9^2 k_{10} k_{11} k_{13}^2 - 3 k_2^2 k_3 k_4^2 k_5 k_6 k_7 k_9 k_{10}^2 k_{13} - 3 k_2^2 k_3 \\
& k_4^2 k_5 k_6 k_7 k_9 k_{10} k_{11} k_{13} - 3 k_2^2 k_3 k_4^2 k_5 k_7 k_9^2 k_{10}^2 k_{13} - 3 k_2^2 k_3 k_4^2 k_5 k_7 k_9^2 k_{10} k_{11} k_{13} - \\
& k_2^2 k_3 k_4^2 k_5 k_7 k_9 k_{10}^2 k_{13}^2 - k_2^2 k_3 k_4^2 k_5 k_7 k_9 k_{10} k_{11} k_{13}^2 - 3 k_2^2 k_3 k_4^2 k_6^2 k_7 k_9 k_{10}^2 k_{13} - 3 k_2^2 k_3 \\
& k_4^2 k_6^2 k_7 k_9 k_{10} k_{11} k_{13} - 3 k_2^2 k_3 k_4^2 k_6 k_7 k_9^2 k_{10}^2 k_{13} - 3 k_2^2 k_3 k_4^2 k_6 k_7 k_9^2 k_{10} k_{11} k_{13} - 4 k_2^2 k_3 \\
& k_4^2 k_6 k_7 k_9 k_{10}^2 k_{13}^2 - 4 k_2^2 k_3 k_4^2 k_6 k_7 k_9 k_{10} k_{11} k_{13}^2 - 3 k_2^2 k_3 k_4^2 k_7 k_9^2 k_{10}^2 k_{13}^2 - 3 k_2^2 k_3 k_4^2 k_7 \\
& k_9^2 k_{10} k_{11} k_{13}^2 - k_2^2 k_3 k_4^2 k_7 k_9 k_{10}^2 k_{13}^3 - k_2^2 k_3 k_4^2 k_7 k_9 k_{10} k_{11} k_{13}^3 - 2 k_2^2 k_4^2 k_5 k_6 k_7 k_9 \\
& k_{10}^2 k_{12} k_{13} - 2 k_2^2 k_4^2 k_5 k_6 k_7 k_9 k_{10} k_{11} k_{12} k_{13} - 2 k_2^2 k_4^2 k_5 k_7 k_9^2 k_{10}^2 k_{12} k_{13} - k_2^2 k_4^2 k_5 k_7 k_9^2 \\
& k_{10}^2 k_{13}^2 - 2 k_2^2 k_4^2 k_5 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13} - k_2^2 k_4^2 k_5 k_7 k_9^2 k_{10} k_{11} k_{13}^2 - 2 k_2^2 k_4^2 k_6^2 k_7 k_9 \\
& k_{10}^2 k_{12} k_{13} - 2 k_2^2 k_4^2 k_6^2 k_7 k_9 k_{10} k_{11} k_{12} k_{13} - 2 k_2^2 k_4^2 k_6 k_7 k_9^2 k_{10}^2 k_{12} k_{13} - k_2^2 k_4^2 k_6 k_7 k_9^2 \\
& k_{10}^2 k_{13}^2 - 2 k_2^2 k_4^2 k_6 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13} - k_2^2 k_4^2 k_6 k_7 k_9^2 k_{10} k_{11} k_{13}^2 - k_2^2 k_4^2 k_6 k_7 k_9 k_{10}^2 k_{12} \\
& k_{13}^2 - k_2^2 k_4^2 k_6 k_7 k_9 k_{10} k_{11} k_{12} k_{13}^2 - k_2^2 k_4^2 k_7 k_9^2 k_{10}^2 k_{12} k_{13}^2 - k_2^2 k_4^2 k_7 k_9^2 k_{10}^2 k_{13}^3 - k_2^2 k_4^2 k_7 \\
& k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - k_2^2 k_4^2 k_7 k_9^2 k_{10} k_{11} k_{13}^3 - 3 k_2 k_3^2 k_4^2 k_5 k_6 k_7 k_9 k_{10}^2 k_{13} - 3 k_2 k_3^2 \\
& k_4^2 k_5 k_6 k_7 k_9 k_{10} k_{11} k_{13} - 3 k_2 k_3^2 k_4^2 k_5 k_7 k_9^2 k_{10}^2 k_{13} - 3 k_2 k_3^2 k_4^2 k_5 k_7 k_9^2 k_{10} k_{11} k_{13} - 2 k_2 \\
& k_3^2 k_4^2 k_5 k_7 k_9 k_{10}^2 k_{13}^2 - 2 k_2 k_3^2 k_4^2 k_5 k_7 k_9 k_{10} k_{11} k_{13}^2 - 3 k_2 k_3^2 k_4^2 k_6^2 k_7 k_9 k_{10}^2 k_{13} - 3 k_2 k_3^2 \\
& k_4^2 k_6^2 k_7 k_9 k_{10} k_{11} k_{13} - 3 k_2 k_3^2 k_4^2 k_6 k_7 k_9^2 k_{10}^2 k_{13} - 3 k_2 k_3^2 k_4^2 k_6 k_7 k_9^2 k_{10} k_{11} k_{13} - 5 k_2 k_3^2 \\
& k_4^2 k_6 k_7 k_9 k_{10}^2 k_{13}^2 - 5 k_2 k_3^2 k_4^2 k_6 k_7 k_9 k_{10} k_{11} k_{13}^2 - 3 k_2 k_3^2 k_4^2 k_7 k_9^2 k_{10}^2 k_{13}^2 - 3 k_2 k_3^2 k_4^2 k_7 \\
& k_9^2 k_{10} k_{11} k_{13}^2 - 2 k_2 k_3^2 k_4^2 k_7 k_9 k_{10}^2 k_{13}^3 - 2 k_2 k_3^2 k_4^2 k_7 k_9 k_{10} k_{11} k_{13}^3 - 4 k_2 k_3 k_4^2 k_5 k_6 k_7 k_9 \\
& k_{10}^2 k_{12} k_{13} - 4 k_2 k_3 k_4^2 k_5 k_6 k_7 k_9 k_{10} k_{11} k_{12} k_{13} - 4 k_2 k_3 k_4^2 k_5 k_7 k_9^2 k_{10}^2 k_{12} k_{13} - 2 k_2 k_3 \\
& k_4^2 k_5 k_7 k_9^2 k_{10}^2 k_{13}^2 - 4 k_2 k_3 k_4^2 k_5 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13} - 2 k_2 k_3 k_4^2 k_5 k_7 k_9^2 k_{10} k_{11} k_{13}^2 \\
& - k_2 k_3 k_4^2 k_5 k_7 k_9 k_{10}^2 k_{12} k_{13}^2 - k_2 k_3 k_4^2 k_5 k_7 k_9 k_{10} k_{11} k_{12} k_{13}^2 - 4 k_2 k_3 k_4^2 k_6^2 k_7 k_9 \\
& k_{10}^2 k_{12} k_{13} - 4 k_2 k_3 k_4^2 k_6^2 k_7 k_9 k_{10} k_{11} k_{12} k_{13} - 4 k_2 k_3 k_4^2 k_6 k_7 k_9^2 k_{10}^2 k_{12} k_{13} - 2 k_2 k_3 \\
& k_4^2 k_6 k_7 k_9^2 k_{10}^2 k_{13}^2 - 4 k_2 k_3 k_4^2 k_6 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13} - 2 k_2 k_3 k_4^2 k_6 k_7 k_9^2 k_{10} k_{11} k_{13}^2 \\
& - 3 k_2 k_3 k_4^2 k_6 k_7 k_9 k_{10}^2 k_{12} k_{13}^2 - 3 k_2 k_3 k_4^2 k_6 k_7 k_9 k_{10} k_{11} k_{12} k_{13}^2 - 2 k_2 k_3 k_4^2 k_7 k_9^2 \\
& k_{10}^2 k_{12} k_{13}^2 - 2 k_2 k_3 k_4^2 k_7 k_9^2 k_{10}^2 k_{13}^3 - 2 k_2 k_3 k_4^2 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - 2 k_2 k_3 k_4^2 k_7
\end{aligned}$$

$$\begin{aligned}
& k_9^2 k_{10} k_{11} k_{13}^3 - k_2 k_4^2 k_5 k_6 k_7 k_9 k_{10}^2 k_{12}^2 k_{13} - k_2 k_4^2 k_5 k_6 k_7 k_9 k_{10} k_{11} k_{12}^2 k_{13} - k_2 k_4^2 k_5 k_7 \\
& k_9^2 k_{10}^2 k_{12}^2 k_{13} - k_2 k_4^2 k_5 k_7 k_9^2 k_{10}^2 k_{12}^2 k_{13} - k_2 k_4^2 k_5 k_7 k_9^2 k_{10} k_{11} k_{12}^2 k_{13} - k_2 k_4^2 k_5 k_7 \\
& k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - k_2 k_4^2 k_6^2 k_7 k_9 k_{10}^2 k_{12}^2 k_{13} - k_2 k_4^2 k_6^2 k_7 k_9 k_{10} k_{11} k_{12}^2 k_{13} - k_2 k_4^2 k_6 k_7 k_9^2 \\
& k_{10}^2 k_{12}^2 k_{13} - k_2 k_4^2 k_6 k_7 k_9^2 k_{10}^2 k_{12}^2 k_{13} - k_2 k_4^2 k_6 k_7 k_9^2 k_{10} k_{11} k_{12}^2 k_{13} - k_2 k_4^2 k_6 k_7 \\
& k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - k_3^3 k_4^2 k_5 k_6 k_7 k_9 k_{10}^2 k_{13} - k_3^3 k_4^2 k_5 k_6 k_7 k_9 k_{10} k_{11} k_{13} - k_3^3 k_4^2 k_5 k_7 k_9^2 \\
& k_{10}^2 k_{13} - k_3^3 k_4^2 k_5 k_7 k_9^2 k_{10} k_{11} k_{13} - k_3^3 k_4^2 k_5 k_7 k_9 k_{10}^2 k_{13}^2 - k_3^3 k_4^2 k_5 k_7 k_9 k_{10} k_{11} k_{13}^2 - k_3^3 \\
& k_4^2 k_6^2 k_7 k_9 k_{10}^2 k_{13} - k_3^3 k_4^2 k_6^2 k_7 k_9 k_{10} k_{11} k_{13} - k_3^3 k_4^2 k_6 k_7 k_9^2 k_{10}^2 k_{13} - k_3^3 k_4^2 k_6 k_7 \\
& k_9^2 k_{10} k_{11} k_{13} - 2 k_3^3 k_4^2 k_6 k_7 k_9 k_{10}^2 k_{13}^2 - 2 k_3^3 k_4^2 k_6 k_7 k_9 k_{10} k_{11} k_{13}^2 - k_3^3 k_4^2 k_7 k_9^2 k_{10}^2 k_{13}^2 \\
& - k_3^3 k_4^2 k_7 k_9^2 k_{10} k_{11} k_{13}^2 - k_3^3 k_4^2 k_7 k_9 k_{10}^2 k_{13}^3 - k_3^3 k_4^2 k_7 k_9 k_{10} k_{11} k_{13}^3 - 2 k_3^2 k_4^2 k_5 k_6 k_7 k_9 \\
& k_{10}^2 k_{12} k_{13} - 2 k_3^2 k_4^2 k_5 k_6 k_7 k_9 k_{10} k_{11} k_{12} k_{13} - 2 k_3^2 k_4^2 k_5 k_7 k_9^2 k_{10}^2 k_{12} k_{13} - k_3^2 k_4^2 k_5 k_7 k_9^2 \\
& k_{10}^2 k_{13}^2 - 2 k_3^2 k_4^2 k_5 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13} - k_3^2 k_4^2 k_5 k_7 k_9^2 k_{10} k_{11} k_{13}^2 - k_3^2 k_4^2 k_5 k_7 k_9 k_{10}^2 k_{12} \\
& k_{13}^2 - k_3^2 k_4^2 k_5 k_7 k_9 k_{10} k_{11} k_{12} k_{13}^2 - 2 k_3^2 k_4^2 k_6^2 k_7 k_9 k_{10}^2 k_{12} k_{13} - 2 k_3^2 k_4^2 \\
& k_6^2 k_7 k_9 k_{10} k_{11} k_{12} k_{13} - 2 k_3^2 k_4^2 k_6 k_7 k_9^2 k_{10}^2 k_{12} k_{13} - k_3^2 k_4^2 k_6 k_7 k_9^2 k_{10}^2 k_{13}^2 - 2 k_3^2 k_4^2 k_6 k_7 \\
& k_9^2 k_{10} k_{11} k_{12} k_{13} - k_3^2 k_4^2 k_6 k_7 k_9^2 k_{10} k_{11} k_{13}^2 - 2 k_3^2 k_4^2 k_6 k_7 k_9 k_{10}^2 k_{12} k_{13}^2 - 2 k_3^2 \\
& k_4^2 k_6 k_7 k_9 k_{10} k_{11} k_{12} k_{13}^2 - k_3^2 k_4^2 k_7 k_9^2 k_{10}^2 k_{12} k_{13}^2 - k_3^2 k_4^2 k_7 k_9^2 k_{10}^2 k_{13}^3 - k_3^2 k_4^2 k_7 \\
& k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - k_3^2 k_4^2 k_7 k_9^2 k_{10} k_{11} k_{13}^3 - k_3 k_4^2 k_5 k_6 k_7 k_9 k_{10}^2 k_{12} k_{13} - k_3 \\
& k_4^2 k_5 k_6 k_7 k_9 k_{10} k_{11} k_{12}^2 k_{13} - k_3 k_4^2 k_5 k_7 k_9^2 k_{10}^2 k_{12} k_{13} - k_3 k_4^2 k_5 k_7 k_9^2 k_{10}^2 k_{12} k_{13}^2 - k_3 \\
& k_4^2 k_5 k_7 k_9^2 k_{10} k_{11} k_{12}^2 k_{13} - k_3 k_4^2 k_5 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - k_3 k_4^2 k_6^2 k_7 k_9 k_{10}^2 k_{12} k_{13} - k_3 k_4^2 \\
& k_6 k_7 k_9 k_{10} k_{11} k_{12}^2 k_{13} - k_3 k_4^2 k_6 k_7 k_9^2 k_{10}^2 k_{12} k_{13} - k_3 k_4^2 k_6 k_7 k_9^2 k_{10}^2 k_{12} k_{13}^2 - k_3 k_4^2 k_6 k_7 \\
& k_9^2 k_{10} k_{11} k_{12}^2 k_{13} - k_3 k_4^2 k_6 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13}^2) x_1 x_3 x_7^2 + k_7 (-3 k_1 k_2^2 k_3 k_4 \\
& k_5^2 k_8 k_9 k_{10} k_{11} k_{13} - 3 k_1 k_2^2 k_3 k_4 k_5^2 k_8 k_9 k_{11}^2 k_{13} - 3 k_1 k_2^2 k_3 k_4 k_5^2 k_9^2 k_{10} k_{11} k_{13} - 3 k_1 \\
& k_2^2 k_3 k_4 k_5^2 k_9^2 k_{11}^2 k_{13} - 6 k_1 k_2^2 k_3 k_4 k_5 k_6 k_8 k_9 k_{10} k_{11} k_{13} - 6 k_1 k_2^2 k_3 k_4 k_5 k_6 k_8 k_9 k_{11}^2 k_{13} \\
& - 6 k_1 k_2^2 k_3 k_4 k_5 k_6 k_9^2 k_{10} k_{11} k_{13} - 6 k_1 k_2^2 k_3 k_4 k_5 k_6 k_9^2 k_{11}^2 k_{13} - 6 k_1 \\
& k_2^2 k_3 k_4 k_5 k_8 k_9 k_{10} k_{11} k_{13}^2 - 6 k_1 k_2^2 k_3 k_4 k_5 k_8 k_9 k_{11}^2 k_{13}^2 - 6 k_1 k_2^2 k_3 k_4 k_5 k_9^2 k_{10} k_{11} k_{13}^2 \\
& - 6 k_1 k_2^2 k_3 k_4 k_5 k_9^2 k_{11}^2 k_{13}^2 - 3 k_1 k_2^2 k_3 k_4 k_6^2 k_8 k_9 k_{10} k_{11} k_{13} - 3 k_1 k_2^2 k_3 k_4 k_6^2 k_8 k_9 \\
& k_{11}^2 k_{13} - 3 k_1 k_2^2 k_3 k_4 k_6^2 k_9^2 k_{10} k_{11} k_{13} - 3 k_1 k_2^2 k_3 k_4 k_6^2 k_9^2 k_{11}^2 k_{13} - 6 k_1 \\
& k_2^2 k_3 k_4 k_6 k_8 k_9 k_{10} k_{11} k_{13}^2 - 6 k_1 k_2^2 k_3 k_4 k_6 k_8 k_9 k_{11}^2 k_{13}^2 - 6 k_1 k_2^2 k_3 k_4 k_6 k_9^2 k_{10} k_{11} k_{13}^2
\end{aligned}$$

$$\begin{aligned}
& -6 k_1 k_2^2 k_3 k_4 k_6 k_9^2 k_{11}^2 k_{13}^2 - 3 k_1 k_2^2 k_3 k_4 k_8 k_9 k_{10} k_{11} k_{13}^3 - 3 k_1 k_2^2 k_3 k_4 k_8 k_9 k_{11}^2 k_{13}^3 \\
& - 3 k_1 k_2^2 k_3 k_4 k_9^2 k_{10} k_{11} k_{13}^3 - 3 k_1 k_2^2 k_3 k_4 k_9^2 k_{11}^2 k_{13}^3 - 2 k_1 k_2^2 k_4 k_5^2 k_6 k_8 k_9 k_{10} k_{11} k_{12} \\
& - 2 k_1 k_2^2 k_4 k_5^2 k_6 k_8 k_9 k_{11}^2 k_{12} - 2 k_1 k_2^2 k_4 k_5^2 k_6 k_9^2 k_{10} k_{11} k_{12} - 2 k_1 k_2^2 k_4 k_5^2 k_6 k_9^2 k_{11}^2 k_{12} \\
& - 4 k_1 k_2^2 k_4 k_5 k_6^2 k_8 k_9 k_{10} k_{11} k_{12} - 4 k_1 k_2^2 k_4 k_5 k_6^2 k_8 k_9 k_{11}^2 k_{12} - 4 k_1 k_2^2 k_4 k_5 k_6^2 \\
& k_9 k_{10} k_{11} k_{12} - 4 k_1 k_2^2 k_4 k_5 k_6^2 k_9^2 k_{11}^2 k_{12} - 5 k_1 k_2^2 k_4 k_5 k_6 k_8 k_9 k_{10} k_{11} k_{12} k_{13} - 5 k_1 \\
& k_2^2 k_4 k_5 k_6 k_8 k_9 k_{11}^2 k_{12} k_{13} - 5 k_1 k_2^2 k_4 k_5 k_6 k_9^2 k_{10} k_{11} k_{12} k_{13} - 5 k_1 k_2^2 k_4 k_5 k_6 k_9^2 \\
& k_{11}^2 k_{12} k_{13} - 2 k_1 k_2^2 k_4 k_6^3 k_8 k_9 k_{10} k_{11} k_{12} - 2 k_1 k_2^2 k_4 k_6^3 k_8 k_9 k_{11}^2 k_{12} - 2 k_1 k_2^2 k_4 k_6^3 \\
& k_9 k_{10} k_{11} k_{12} - 2 k_1 k_2^2 k_4 k_6^3 k_9^2 k_{11}^2 k_{12} - 5 k_1 k_2^2 k_4 k_6^2 k_8 k_9 k_{10} k_{11} k_{12} k_{13} - 5 k_1 k_2^2 k_4 \\
& k_6^2 k_8 k_9 k_{11}^2 k_{12} k_{13} - 5 k_1 k_2^2 k_4 k_6^2 k_9^2 k_{10} k_{11} k_{12} k_{13} - 5 k_1 k_2^2 k_4 k_6^2 k_9^2 k_{11}^2 k_{12} k_{13} - 3 k_1 \\
& k_2^2 k_4 k_6 k_8 k_9 k_{10} k_{11} k_{12} k_{13}^2 - 3 k_1 k_2^2 k_4 k_6 k_8 k_9 k_{11}^2 k_{12} k_{13}^2 - 3 k_1 k_2^2 k_4 k_6 k_9^2 k_{10} k_{11} k_{12} \\
& k_{13}^2 - 3 k_1 k_2^2 k_4 k_6 k_9^2 k_{11}^2 k_{12} k_{13}^2 - 6 k_1 k_2 k_3^2 k_4 k_5^2 k_8 k_9 k_{10} k_{11} k_{13} - 6 k_1 k_2 k_3^2 k_4 k_5^2 k_8 k_9 \\
& k_{11}^2 k_{13} - 6 k_1 k_2 k_3^2 k_4 k_5^2 k_9^2 k_{10} k_{11} k_{13} - 6 k_1 k_2 k_3^2 k_4 k_5^2 k_9^2 k_{11}^2 k_{13} - 12 k_1 k_2 \\
& k_3^2 k_4 k_5 k_6 k_8 k_9 k_{10} k_{11} k_{13} - 12 k_1 k_2 k_3^2 k_4 k_5 k_6 k_8 k_9 k_{11}^2 k_{13} - 12 k_1 k_2 k_3^2 k_4 k_5 k_6 \\
& k_9^2 k_{10} k_{11} k_{13} - 12 k_1 k_2 k_3^2 k_4 k_5 k_6 k_9^2 k_{11}^2 k_{13} - 12 k_1 k_2 k_3^2 k_4 k_5 k_8 k_9 k_{10} k_{11} k_{13}^2 \\
& - 12 k_1 k_2 k_3^2 k_4 k_5 k_8 k_9 k_{11}^2 k_{13}^2 - 12 k_1 k_2 k_3^2 k_4 k_5 k_9^2 k_{10} k_{11} k_{13}^2 - 12 k_1 k_2 k_3^2 k_4 k_5 k_9^2 k_{11}^2 \\
& k_{13}^2 - 6 k_1 k_2 k_3^2 k_4 k_6^2 k_8 k_9 k_{10} k_{11} k_{13} - 6 k_1 k_2 k_3^2 k_4 k_6^2 k_8 k_9 k_{11}^2 k_{13} - 6 k_1 k_2 k_3^2 k_4 k_6^2 \\
& k_9 k_{10} k_{11} k_{13} - 6 k_1 k_2 k_3^2 k_4 k_6^2 k_9^2 k_{11}^2 k_{13} - 12 k_1 k_2 k_3^2 k_4 k_6 k_8 k_9 k_{10} k_{11} k_{13}^2 - 12 k_1 k_2 \\
& k_3^2 k_4 k_6 k_8 k_9 k_{11}^2 k_{13}^2 - 12 k_1 k_2 k_3^2 k_4 k_6 k_9^2 k_{10} k_{11} k_{13}^2 - 12 k_1 k_2 k_3^2 k_4 k_6 k_9^2 k_{11}^2 k_{13}^2 \\
& - 6 k_1 k_2 k_3^2 k_4 k_8 k_9 k_{10} k_{11} k_{13}^3 - 6 k_1 k_2 k_3^2 k_4 k_8 k_9 k_{11}^2 k_{13}^3 - 6 k_1 k_2 k_3^2 k_4 k_9^2 k_{10} k_{11} k_{13}^3 \\
& - 6 k_1 k_2 k_3^2 k_4 k_9^2 k_{11}^2 k_{13}^3 - 4 k_1 k_2 k_3 k_4 k_5^2 k_6 k_8 k_9 k_{10} k_{11} k_{12} - 4 k_1 k_2 k_3 k_4 k_5^2 k_6 k_8 k_9 \\
& k_{11}^2 k_{12} - 4 k_1 k_2 k_3 k_4 k_5^2 k_6 k_9^2 k_{10} k_{11} k_{12} - 4 k_1 k_2 k_3 k_4 k_5^2 k_6 k_9^2 k_{11}^2 k_{12} - 5 k_1 k_2 k_3 k_4 \\
& k_5^2 k_8 k_9 k_{10} k_{11} k_{12} k_{13} - 5 k_1 k_2 k_3 k_4 k_5^2 k_8 k_9 k_{11}^2 k_{12} k_{13} - 5 k_1 k_2 k_3 k_4 k_5^2 \\
& k_9 k_{10} k_{11} k_{12} k_{13} - 5 k_1 k_2 k_3 k_4 k_5^2 k_9^2 k_{11}^2 k_{12} k_{13} - 8 k_1 k_2 k_3 k_4 k_5 k_6^2 k_8 k_9 k_{10} k_{11} k_{12} \\
& - 8 k_1 k_2 k_3 k_4 k_5 k_6^2 k_8 k_9 k_{11}^2 k_{12} - 8 k_1 k_2 k_3 k_4 k_5 k_6^2 k_9^2 k_{10} k_{11} k_{12} - 8 k_1 k_2 k_3 k_4 k_5 k_6^2 k_9^2 \\
& k_{11}^2 k_{12} - 20 k_1 k_2 k_3 k_4 k_5 k_6 k_8 k_9 k_{10} k_{11} k_{12} k_{13} - 20 k_1 k_2 k_3 k_4 k_5 k_6 k_8 k_9 k_{11}^2 k_{12} k_{13} \\
& - 20 k_1 k_2 k_3 k_4 k_5 k_6 k_9^2 k_{10} k_{11} k_{12} k_{13} - 20 k_1 k_2 k_3 k_4 k_5 k_6 k_9^2 k_{11}^2 k_{12} k_{13} \\
& - 5 k_1 k_2 k_3 k_4 k_5 k_8 k_9 k_{10} k_{11} k_{12} k_{13}^2 - 5 k_1 k_2 k_3 k_4 k_5 k_8 k_9 k_{11}^2 k_{12} k_{13}^2 - 5 k_1 k_2 k_3 k_4 k_5
\end{aligned}$$

$$\begin{aligned}
& k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - 5 k_1 k_2 k_3 k_4 k_5 k_9^2 k_{11}^2 k_{12} k_{13}^2 - 4 k_1 k_2 k_3 k_4 k_6^3 k_8 k_9 k_{10} k_{11} k_{12} \\
& - 4 k_1 k_2 k_3 k_4 k_6^3 k_8 k_9 k_{11}^2 k_{12} - 4 k_1 k_2 k_3 k_4 k_6^3 k_9^2 k_{10} k_{11} k_{12} - 4 k_1 k_2 k_3 k_4 k_6^3 k_9^2 k_{11}^2 k_{12} \\
& - 15 k_1 k_2 k_3 k_4 k_6^2 k_8 k_9 k_{10} k_{11} k_{12} k_{13} - 15 k_1 k_2 k_3 k_4 k_6^2 k_8 k_9 k_{11}^2 k_{12} k_{13} \\
& - 15 k_1 k_2 k_3 k_4 k_6^2 k_9^2 k_{10} k_{11} k_{12} k_{13} - 15 k_1 k_2 k_3 k_4 k_6^2 k_9^2 k_{11}^2 k_{12} k_{13} \\
& - 11 k_1 k_2 k_3 k_4 k_6 k_8 k_9 k_{10} k_{11} k_{12} k_{13}^2 - 11 k_1 k_2 k_3 k_4 k_6 k_8 k_9 k_{11}^2 k_{12} k_{13}^2 \\
& - 11 k_1 k_2 k_3 k_4 k_6 k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - 11 k_1 k_2 k_3 k_4 k_6 k_9^2 k_{11}^2 k_{12} k_{13}^2 - 4 k_1 k_2 k_4 \\
& k_5^2 k_6 k_8 k_9 k_{10} k_{11} k_{12}^2 - 4 k_1 k_2 k_4 k_5^2 k_6 k_8 k_9 k_{11}^2 k_{12}^2 - 4 k_1 k_2 k_4 k_5^2 k_6 k_9^2 k_{10} k_{11} k_{12}^2 \\
& - 4 k_1 k_2 k_4 k_5^2 k_6 k_9^2 k_{11}^2 k_{12}^2 - 8 k_1 k_2 k_4 k_5 k_6^2 k_8 k_9 k_{10} k_{11} k_{12}^2 - 8 k_1 k_2 k_4 k_5 k_6^2 k_8 k_9 k_{11}^2 \\
& k_{12}^2 - 8 k_1 k_2 k_4 k_5 k_6^2 k_9^2 k_{10} k_{11} k_{12}^2 - 8 k_1 k_2 k_4 k_5 k_6^2 k_9^2 k_{11}^2 k_{12}^2 \\
& - 5 k_1 k_2 k_4 k_5 k_6 k_8 k_9 k_{10} k_{11} k_{12}^2 k_{13} - 5 k_1 k_2 k_4 k_5 k_6 k_8 k_9 k_{11}^2 k_{12}^2 k_{13} - 5 k_1 k_2 k_4 k_5 k_6 \\
& k_9^2 k_{10} k_{11} k_{12}^2 k_{13} - 5 k_1 k_2 k_4 k_5 k_6 k_9^2 k_{11}^2 k_{12}^2 k_{13} - 4 k_1 k_2 k_4 k_6^3 k_8 k_9 k_{10} k_{11} k_{12}^2 \\
& - 4 k_1 k_2 k_4 k_6^3 k_8 k_9 k_{11}^2 k_{12}^2 - 4 k_1 k_2 k_4 k_6^3 k_9^2 k_{10} k_{11} k_{12}^2 - 4 k_1 k_2 k_4 k_6^3 k_9^2 k_{11}^2 k_{12}^2 \\
& - 5 k_1 k_2 k_4 k_6^2 k_8 k_9 k_{10} k_{11} k_{12}^2 k_{13} - 5 k_1 k_2 k_4 k_6^2 k_8 k_9 k_{11}^2 k_{12}^2 k_{13} - 5 k_1 k_2 k_4 k_6^2 \\
& k_9^2 k_{10} k_{11} k_{12}^2 k_{13} - 5 k_1 k_2 k_4 k_6^2 k_9^2 k_{11}^2 k_{12}^2 k_{13} - 3 k_1 k_3^3 k_4 k_5^2 k_8 k_9 k_{10} k_{11} k_{13} - 3 k_1 k_3^3 k_4 \\
& k_5^2 k_8 k_9 k_{11}^2 k_{13} - 3 k_1 k_3^3 k_4 k_5^2 k_9^2 k_{10} k_{11} k_{13} - 3 k_1 k_3^3 k_4 k_5^2 k_9^2 k_{11}^2 k_{13} - 6 k_1 \\
& k_3^3 k_4 k_5 k_6 k_8 k_9 k_{10} k_{11} k_{13} - 6 k_1 k_3^3 k_4 k_5 k_6 k_8 k_9 k_{11}^2 k_{13} - 6 k_1 k_3^3 k_4 k_5 k_6 k_9^2 k_{10} k_{11} k_{13} \\
& - 6 k_1 k_3^3 k_4 k_5 k_6 k_9^2 k_{11}^2 k_{13} - 6 k_1 k_3^3 k_4 k_5 k_8 k_9 k_{10} k_{11} k_{13}^2 - 6 k_1 k_3^3 k_4 k_5 k_8 k_9 k_{11}^2 k_{13}^2 \\
& - 6 k_1 k_3^3 k_4 k_5 k_9^2 k_{10} k_{11} k_{13}^2 - 6 k_1 k_3^3 k_4 k_5 k_9^2 k_{11}^2 k_{13}^2 - 3 k_1 k_3^3 k_4 k_6^2 k_8 k_9 k_{10} k_{11} k_{13} \\
& - 3 k_1 k_3^3 k_4 k_6^2 k_8 k_9 k_{11}^2 k_{13} - 3 k_1 k_3^3 k_4 k_6^2 k_9^2 k_{10} k_{11} k_{13} - 3 k_1 k_3^3 k_4 k_6^2 k_9^2 k_{11}^2 k_{13} - 6 k_1 \\
& k_3^3 k_4 k_6 k_8 k_9 k_{10} k_{11} k_{13}^2 - 6 k_1 k_3^3 k_4 k_6 k_8 k_9 k_{11}^2 k_{13}^2 - 6 k_1 k_3^3 k_4 k_6 k_9^2 k_{10} k_{11} k_{13}^2 - 6 k_1 \\
& k_3^3 k_4 k_6 k_9^2 k_{11}^2 k_{13}^2 - 3 k_1 k_3^3 k_4 k_8 k_9 k_{10} k_{11} k_{13}^3 - 3 k_1 k_3^3 k_4 k_8 k_9 k_{11}^2 k_{13}^3 - 3 k_1 k_3^3 k_4 \\
& k_9^2 k_{10} k_{11} k_{13}^3 - 3 k_1 k_3^3 k_4 k_9^2 k_{11}^2 k_{13}^3 - 2 k_1 k_3^2 k_4 k_5^2 k_6 k_8 k_9 k_{10} k_{11} k_{12} - 2 k_1 k_3^2 k_4 \\
& k_5^2 k_6 k_8 k_9 k_{11}^2 k_{12} - 2 k_1 k_3^2 k_4 k_5^2 k_6 k_9^2 k_{10} k_{11} k_{12} - 2 k_1 k_3^2 k_4 k_5^2 k_6 k_9^2 k_{11}^2 k_{12} - 5 k_1 k_3^2 k_4 \\
& k_5^2 k_8 k_9 k_{10} k_{11} k_{12} k_{13} - 5 k_1 k_3^2 k_4 k_5^2 k_8 k_9 k_{11}^2 k_{12} k_{13} - 5 k_1 k_3^2 k_4 k_5^2 k_9^2 k_{10} k_{11} k_{12} k_{13} \\
& - 5 k_1 k_3^2 k_4 k_5^2 k_9^2 k_{11}^2 k_{12} k_{13} - 4 k_1 k_3^2 k_4 k_5 k_6^2 k_8 k_9 k_{10} k_{11} k_{12} - 4 k_1 k_3^2 k_4 k_5 k_6^2 k_8 k_9 \\
& k_{11}^2 k_{12} - 4 k_1 k_3^2 k_4 k_5 k_6^2 k_9^2 k_{10} k_{11} k_{12} - 4 k_1 k_3^2 k_4 k_5 k_6^2 k_9^2 k_{11}^2 k_{12} - 15 k_1 \\
& k_3^2 k_4 k_5 k_6 k_8 k_9 k_{10} k_{11} k_{12} k_{13} - 15 k_1 k_3^2 k_4 k_5 k_6 k_8 k_9 k_{11}^2 k_{12} k_{13} - 15 k_1 k_3^2 k_4 k_5 k_6
\end{aligned}$$

$$\begin{aligned}
& k_9^2 k_{10} k_{11} k_{12} k_{13} - 15 k_1 k_3^2 k_4 k_5 k_6 k_9^2 k_{11}^2 k_{12} k_{13} - 5 k_1 k_3^2 k_4 k_5 k_8 k_9 k_{10} k_{11} k_{12} k_{13}^2 \\
& - 5 k_1 k_3^2 k_4 k_5 k_8 k_9 k_{11}^2 k_{12} k_{13}^2 - 5 k_1 k_3^2 k_4 k_5 k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - 5 k_1 k_3^2 k_4 k_5 k_9^2 k_{11}^2 k_{12} \\
& k_{13}^2 - 2 k_1 k_3^2 k_4 k_6^3 k_8 k_9 k_{10} k_{11} k_{12} - 2 k_1 k_3^2 k_4 k_6^3 k_8 k_9 k_{11}^2 k_{12} - 2 k_1 k_3^2 k_4 k_6^3 \\
& k_9^2 k_{10} k_{11} k_{12} - 2 k_1 k_3^2 k_4 k_6^3 k_9^2 k_{11}^2 k_{12} - 10 k_1 k_3^2 k_4 k_6^2 k_8 k_9 k_{10} k_{11} k_{12} k_{13} - 10 k_1 k_3^2 k_4 \\
& k_6^2 k_8 k_9 k_{11}^2 k_{12} k_{13} - 10 k_1 k_3^2 k_4 k_6^2 k_9^2 k_{10} k_{11} k_{12} k_{13} - 10 k_1 k_3^2 k_4 k_6^2 k_9^2 k_{11}^2 k_{12} k_{13} - 8 k_1 \\
& k_3^2 k_4 k_6 k_8 k_9 k_{10} k_{11} k_{12} k_{13}^2 - 8 k_1 k_3^2 k_4 k_6 k_8 k_9 k_{11}^2 k_{12} k_{13}^2 - 8 k_1 k_3^2 k_4 k_6 k_9^2 k_{10} k_{11} k_{12} \\
& k_{13}^2 - 8 k_1 k_3^2 k_4 k_6 k_9^2 k_{11}^2 k_{12} k_{13}^2 - 4 k_1 k_3 k_4 k_5^2 k_6 k_8 k_9 k_{10} k_{11} k_{12}^2 - 4 k_1 k_3 k_4 k_5^2 k_6 k_8 k_9 \\
& k_{11}^2 k_{12}^2 - 4 k_1 k_3 k_4 k_5^2 k_6 k_9^2 k_{10} k_{11} k_{12}^2 - 4 k_1 k_3 k_4 k_5^2 k_6 k_9^2 k_{11}^2 k_{12}^2 - 2 k_1 k_3 k_4 \\
& k_5^2 k_8 k_9 k_{10} k_{11} k_{12}^2 k_{13} - 2 k_1 k_3 k_4 k_5^2 k_8 k_9 k_{11}^2 k_{12}^2 k_{13} - 2 k_1 k_3 k_4 k_5^2 k_9^2 k_{10} k_{11} k_{12}^2 k_{13} \\
& - 2 k_1 k_3 k_4 k_5^2 k_9^2 k_{11}^2 k_{12}^2 k_{13} - 8 k_1 k_3 k_4 k_5 k_6^2 k_8 k_9 k_{10} k_{11} k_{12}^2 - 8 k_1 k_3 k_4 k_5 k_6^2 k_8 k_9 k_{11}^2 \\
& k_{12}^2 - 8 k_1 k_3 k_4 k_5 k_6^2 k_9^2 k_{10} k_{11} k_{12}^2 - 8 k_1 k_3 k_4 k_5 k_6^2 k_9^2 k_{11}^2 k_{12}^2 \\
& - 9 k_1 k_3 k_4 k_5 k_6 k_8 k_9 k_{10} k_{11} k_{12}^2 k_{13} - 9 k_1 k_3 k_4 k_5 k_6 k_8 k_9 k_{11}^2 k_{12}^2 k_{13} - 9 k_1 k_3 k_4 k_5 k_6 \\
& k_9^2 k_{10} k_{11} k_{12}^2 k_{13} - 9 k_1 k_3 k_4 k_5 k_6 k_9^2 k_{11}^2 k_{12}^2 k_{13} - 4 k_1 k_3 k_4 k_6^3 k_8 k_9 k_{10} k_{11} k_{12}^2 \\
& - 4 k_1 k_3 k_4 k_6^3 k_8 k_9 k_{11}^2 k_{12}^2 - 4 k_1 k_3 k_4 k_6^3 k_9^2 k_{10} k_{11} k_{12}^2 - 4 k_1 k_3 k_4 k_6^3 k_9^2 k_{11}^2 k_{12}^2 \\
& - 7 k_1 k_3 k_4 k_6^2 k_8 k_9 k_{10} k_{11} k_{12}^2 k_{13} - 7 k_1 k_3 k_4 k_6^2 k_8 k_9 k_{11}^2 k_{12}^2 k_{13} - 7 k_1 k_3 k_4 k_6^2 \\
& k_9^2 k_{10} k_{11} k_{12}^2 k_{13} - 7 k_1 k_3 k_4 k_6^2 k_9^2 k_{11}^2 k_{12}^2 k_{13} - 2 k_1 k_4 k_5^2 k_6 k_8 k_9 k_{10} k_{11} k_{12}^3 - 2 k_1 k_4 \\
& k_5^2 k_6 k_8 k_9 k_{11}^2 k_{12}^3 - 2 k_1 k_4 k_5^2 k_6 k_9^2 k_{10} k_{11} k_{12}^3 - 2 k_1 k_4 k_5^2 k_6 k_9^2 k_{11}^2 k_{12}^3 - 4 k_1 k_4 k_5 \\
& k_6^2 k_8 k_9 k_{10} k_{11} k_{12}^3 - 4 k_1 k_4 k_5 k_6^2 k_8 k_9 k_{11}^2 k_{12}^3 - 4 k_1 k_4 k_5 k_6^2 k_9^2 k_{10} k_{11} k_{12}^3 - 4 k_1 k_4 k_5 k_6^2 \\
& k_9^2 k_{11}^2 k_{12}^3 - 2 k_1 k_4 k_6^3 k_8 k_9 k_{10} k_{11} k_{12}^3 - 2 k_1 k_4 k_6^3 k_8 k_9 k_{11}^2 k_{12}^3 - 2 k_1 k_4 k_6^3 k_9^2 k_{10} k_{11} k_{12}^3 \\
& - 2 k_1 k_4 k_6^3 k_9^2 k_{11}^2 k_{12}^3 - k_2^3 k_4^2 k_5 k_6 k_8 k_9 k_{10} k_{11} k_{13} - k_2^3 \\
& k_4^2 k_5 k_6 k_9^2 k_{10} k_{13} - k_2^3 k_4^2 k_5 k_6 k_9^2 k_{10} k_{11} k_{13} - k_2^3 k_4^2 k_6^2 k_8 k_9 k_{10} k_{13} - k_2^3 k_4^2 \\
& k_6^2 k_8 k_9 k_{10} k_{11} k_{13} - k_2^3 k_4^2 k_6^2 k_9^2 k_{10} k_{13} - k_2^3 k_4^2 k_6^2 k_9^2 k_{10} k_{11} k_{13} - k_2^3 k_4^2 k_6 k_8 k_9 k_{10}^2 k_{13}^2 - \\
& k_2^3 k_4^2 k_6 k_8 k_9 k_{10} k_{11} k_{13}^2 - k_2^3 k_4^2 k_6 k_9^2 k_{10} k_{13}^2 - k_2^3 k_4^2 k_6 k_9^2 k_{10} k_{11} k_{13}^2 - 3 k_2^2 k_3 \\
& k_4^2 k_5 k_6 k_8 k_9 k_{10}^2 k_{13} - 3 k_2^2 k_3 k_4^2 k_5 k_6 k_8 k_9 k_{10} k_{11} k_{13} - 3 k_2^2 k_3 k_4^2 k_5 k_6 k_9^2 k_{10}^2 k_{13} - 3 \\
& k_2^2 k_3 k_4^2 k_5 k_6 k_9^2 k_{10} k_{11} k_{13} - k_2^2 k_3 k_4^2 k_5 k_8 k_9 k_{10}^2 k_{13}^2 - k_2^2 k_3 k_4^2 k_5 k_8 k_9 k_{10} k_{11} k_{13}^2 - k_2^2 k_3 \\
& k_4^2 k_5 k_9^2 k_{10}^2 k_{13}^2 - k_2^2 k_3 k_4^2 k_5 k_9^2 k_{10} k_{11} k_{13}^2 - 3 k_2^2 k_3 k_4^2 k_6^2 k_8 k_9 k_{10}^2 k_{13} - 3 k_2^2 k_3 k_4^2 \\
& k_6^2 k_8 k_9 k_{10} k_{11} k_{13} - 3 k_2^2 k_3 k_4^2 k_6^2 k_9^2 k_{10} k_{13} - 3 k_2^2 k_3 k_4^2 k_6^2 k_9^2 k_{10} k_{11} k_{13} - 4 k_2^2 k_3
\end{aligned}$$

$$\begin{aligned}
& k_4^2 k_6 k_8 k_9 k_{10}^2 k_{13}^2 - 4 k_2^2 k_3 k_4^2 k_6 k_8 k_9 k_{10} k_{11} k_{13}^2 - 4 k_2^2 k_3 k_4^2 k_6 k_9 k_{10}^2 k_{13}^2 - 4 k_2^2 k_3 k_4^2 k_6 \\
& k_9^2 k_{10} k_{11} k_{13}^2 - k_2^2 k_3 k_4^2 k_8 k_9 k_{10}^2 k_{13}^3 - k_2^2 k_3 k_4^2 k_8 k_9 k_{10} k_{11} k_{13}^3 - k_2^2 k_3 k_4^2 k_9^2 k_{10}^2 k_{13}^3 - \\
& k_2^2 k_3 k_4^2 k_9^2 k_{10} k_{11} k_{13}^3 - 2 k_2^2 k_4^2 k_5 k_6 k_8 k_9 k_{10}^2 k_{12} k_{13} - 2 k_2^2 k_4^2 k_5 k_6 k_8 k_9 k_{10} k_{11} k_{12} k_{13} \\
& - 2 k_2^2 k_4^2 k_5 k_6 k_9^2 k_{10}^2 k_{12} k_{13} - 2 k_2^2 k_4^2 k_5 k_6 k_9^2 k_{10} k_{11} k_{12} k_{13} - 2 k_2^2 k_4^2 k_6^2 k_8 k_9 k_{10}^2 k_{12} k_{13} \\
& - 2 k_2^2 k_4^2 k_6^2 k_8 k_9 k_{10} k_{11} k_{12} k_{13} - 2 k_2^2 k_4^2 k_6^2 k_9^2 k_{10} k_{11} k_{12} k_{13} - 2 k_2^2 k_4^2 k_6^2 k_9^2 k_{10} k_{11} k_{12} k_{13} \\
& - k_2^2 k_4^2 k_6 k_8 k_9 k_{10}^2 k_{12} k_{13}^2 - k_2^2 k_4^2 k_6 k_8 k_9 k_{10} k_{11} k_{12} k_{13}^2 - k_2^2 k_4^2 k_6 k_9^2 k_{10}^2 k_{12} k_{13}^2 - k_2^2 \\
& k_4^2 k_6 k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - 3 k_2 k_3^2 k_4^2 k_5 k_6 k_8 k_9 k_{10}^2 k_{13} - 3 k_2 k_3^2 k_4^2 k_5 k_6 k_8 k_9 k_{10} k_{11} k_{13} \\
& - 3 k_2 k_3^2 k_4^2 k_5 k_6 k_9^2 k_{10}^2 k_{13} - 3 k_2 k_3^2 k_4^2 k_5 k_6 k_9^2 k_{10} k_{11} k_{13} - 2 k_2 k_3^2 k_4^2 k_5 k_8 k_9 k_{10}^2 k_{13}^2 \\
& - 2 k_2 k_3^2 k_4^2 k_5 k_8 k_9 k_{10} k_{11} k_{13}^2 - 2 k_2 k_3^2 k_4^2 k_5 k_9^2 k_{10}^2 k_{13}^2 - 2 k_2 k_3^2 k_4^2 k_5 k_9^2 k_{10} k_{11} k_{13}^2 \\
& - 3 k_2 k_3^2 k_4^2 k_6^2 k_8 k_9 k_{10}^2 k_{13} - 3 k_2 k_3^2 k_4^2 k_6^2 k_8 k_9 k_{10} k_{11} k_{13} - 3 k_2 k_3^2 k_4^2 k_6^2 k_9^2 k_{10}^2 k_{13} \\
& - 3 k_2 k_3^2 k_4^2 k_6^2 k_9^2 k_{10} k_{11} k_{13} - 5 k_2 k_3^2 k_4^2 k_6 k_8 k_9 k_{10}^2 k_{13}^2 - 5 k_2 k_3^2 k_4^2 k_6 k_8 k_9 k_{10} k_{11} k_{13}^2 \\
& - 5 k_2 k_3^2 k_4^2 k_6 k_9^2 k_{10}^2 k_{13}^2 - 5 k_2 k_3^2 k_4^2 k_6 k_9^2 k_{10} k_{11} k_{13}^2 - 2 k_2 k_3^2 k_4^2 k_8 k_9 k_{10}^2 k_{13}^3 - 2 k_2 k_3^2 \\
& k_4^2 k_8 k_9 k_{10} k_{11} k_{13}^3 - 2 k_2 k_3^2 k_4^2 k_9^2 k_{10}^2 k_{13}^3 - 2 k_2 k_3^2 k_4^2 k_9^2 k_{10} k_{11} k_{13}^3 - 4 k_2 k_3 k_4^2 k_5 k_6 k_8 k_9 \\
& k_{10}^2 k_{12} k_{13} - 4 k_2 k_3 k_4^2 k_5 k_6 k_8 k_9 k_{10} k_{11} k_{12} k_{13} - 4 k_2 k_3 k_4^2 k_5 k_6 k_9^2 k_{10}^2 k_{12} k_{13} - 4 k_2 k_3 \\
& k_4^2 k_5 k_6 k_9^2 k_{10} k_{11} k_{12} k_{13} - k_2 k_3 k_4^2 k_5 k_8 k_9 k_{10}^2 k_{12} k_{13}^2 - k_2 k_3 k_4^2 k_5 k_8 k_9 k_{10} k_{11} k_{12} k_{13}^2 \\
& - k_2 k_3 k_4^2 k_5 k_9^2 k_{10}^2 k_{12} k_{13}^2 - k_2 k_3 k_4^2 k_5 k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - 4 k_2 k_3 k_4^2 k_6^2 k_8 k_9 k_{10}^2 k_{12} k_{13} \\
& - 4 k_2 k_3 k_4^2 k_6^2 k_8 k_9 k_{10} k_{11} k_{12} k_{13} - 4 k_2 k_3 k_4^2 k_6^2 k_9^2 k_{10}^2 k_{12} k_{13} - 4 k_2 k_3 k_4^2 k_6^2 \\
& k_9^2 k_{10} k_{11} k_{12} k_{13} - 3 k_2 k_3 k_4^2 k_6 k_8 k_9 k_{10}^2 k_{12} k_{13}^2 - 3 k_2 k_3 k_4^2 k_6 k_8 k_9 k_{10} k_{11} k_{12} k_{13}^2 \\
& - 3 k_2 k_3 k_4^2 k_6 k_9^2 k_{10}^2 k_{12} k_{13}^2 - 3 k_2 k_3 k_4^2 k_6 k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - k_2 k_4^2 k_5 k_6 k_8 k_9 k_{10}^2 k_{12}^2 k_{13} \\
& - k_2 k_4^2 k_5 k_6 k_8 k_9 k_{10} k_{11} k_{12}^2 k_{13} - k_2 k_4^2 k_5 k_6 k_9^2 k_{10}^2 k_{12}^2 k_{13} - k_2 k_4^2 k_5 k_6 k_9^2 k_{10} k_{11} k_{12}^2 k_{13} \\
& - k_2 k_4^2 k_6^2 k_8 k_9 k_{10}^2 k_{12}^2 k_{13} - k_2 k_4^2 k_6^2 k_8 k_9 k_{10} k_{11} k_{12}^2 k_{13} - k_2 k_4^2 k_6^2 k_9^2 k_{10}^2 k_{12}^2 k_{13} - k_2 k_4^2 \\
& k_6^2 k_9^2 k_{10} k_{11} k_{12}^2 k_{13} - k_3^3 k_4^2 k_5 k_6 k_8 k_9 k_{10}^2 k_{13} - k_3^3 k_4^2 k_5 k_6 k_8 k_9 k_{10} k_{11} k_{13} - k_3^3 k_4^2 k_5 k_6 \\
& k_9^2 k_{10}^2 k_{13} - k_3^3 k_4^2 k_5 k_6 k_9^2 k_{10} k_{11} k_{13} - k_3^3 k_4^2 k_5 k_8 k_9 k_{10}^2 k_{13}^2 - k_3^3 k_4^2 k_5 k_8 k_9 k_{10} k_{11} k_{13}^2 - \\
& k_3^3 k_4^2 k_5 k_9^2 k_{10}^2 k_{13}^2 - k_3^3 k_4^2 k_5 k_9^2 k_{10} k_{11} k_{13}^2 - k_3^3 k_4^2 k_6^2 k_8 k_9 k_{10}^2 k_{13} - k_3^3 k_4^2 \\
& k_6^2 k_8 k_9 k_{10} k_{11} k_{13} - k_3^3 k_4^2 k_6^2 k_9^2 k_{10}^2 k_{13} - k_3^3 k_4^2 k_6^2 k_9^2 k_{10} k_{11} k_{13} - 2 k_3^3 k_4^2 k_6 k_8 k_9 k_{10}^2 k_{13}^2 \\
& - 2 k_3^3 k_4^2 k_6 k_8 k_9 k_{10} k_{11} k_{13}^2 - 2 k_3^3 k_4^2 k_6 k_9^2 k_{10}^2 k_{13}^2 - 2 k_3^3 k_4^2 k_6 k_9^2 k_{10} k_{11} k_{13}^2 - k_3^3 \\
& k_4^2 k_8 k_9 k_{10}^2 k_{13}^3 - k_3^3 k_4^2 k_8 k_9 k_{10} k_{11} k_{13}^3 - k_3^3 k_4^2 k_9^2 k_{10}^2 k_{13}^3 - k_3^3 k_4^2 k_9^2 k_{10} k_{11} k_{13}^3 - 2 k_3^3
\end{aligned}$$

$$\begin{aligned}
& k_4^2 k_5 k_6 k_8 k_9 k_{10}^2 k_{12} k_{13} - 2 k_3^2 k_4^2 k_5 k_6 k_8 k_9 k_{10} k_{11} k_{12} k_{13} - 2 k_3^2 k_4^2 k_5 k_6 k_9^2 k_{10}^2 k_{12} k_{13} \\
& - 2 k_3^2 k_4^2 k_5 k_6 k_9^2 k_{10} k_{11} k_{12} k_{13} - k_3^2 k_4^2 k_5 k_8 k_9 k_{10}^2 k_{12} k_{13}^2 - k_3^2 k_4^2 k_5 k_8 k_9 k_{10} k_{11} k_{12} k_{13}^2 \\
& - k_3^2 k_4^2 k_5 k_9^2 k_{10}^2 k_{12} k_{13}^2 - k_3^2 k_4^2 k_5 k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - 2 k_3^2 k_4^2 k_6^2 k_8 k_9 k_{10}^2 k_{12} k_{13} - 2 k_3^2 \\
& k_4^2 k_6^2 k_8 k_9 k_{10} k_{11} k_{12} k_{13} - 2 k_3^2 k_4^2 k_6^2 k_9^2 k_{10}^2 k_{12} k_{13} - 2 k_3^2 k_4^2 k_6^2 k_9^2 k_{10} k_{11} k_{12} k_{13} - 2 k_3^2 \\
& k_4^2 k_6 k_8 k_9 k_{10}^2 k_{12} k_{13}^2 - 2 k_3^2 k_4^2 k_6 k_8 k_9 k_{10} k_{11} k_{12} k_{13}^2 - 2 k_3^2 k_4^2 k_6 k_9^2 k_{10}^2 k_{12} k_{13}^2 - 2 k_3^2 \\
& k_4^2 k_6 k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - k_3 k_4^2 k_5 k_6 k_8 k_9 k_{10}^2 k_{12}^2 k_{13} - k_3 k_4^2 k_5 k_6 k_8 k_9 k_{10} k_{11} k_{12}^2 k_{13} - k_3 \\
& k_4^2 k_5 k_6 k_9^2 k_{10}^2 k_{12}^2 k_{13} - k_3 k_4^2 k_5 k_6 k_9^2 k_{10} k_{11} k_{12}^2 k_{13} - k_3 k_4^2 k_6^2 k_8 k_9 k_{10}^2 k_{12}^2 k_{13} - k_3 k_4^2 \\
& k_6^2 k_8 k_9 k_{10} k_{11} k_{12}^2 k_{13} - k_3 k_4^2 k_6^2 k_9^2 k_{10}^2 k_{12}^2 k_{13} - k_3 k_4^2 k_6^2 k_9^2 k_{10} k_{11} k_{12}^2 k_{13} \Big) x_1 x_3 x_7 \\
& + k_7 \Big(-k_1 k_2^2 k_5^3 k_7 k_9^2 k_{11}^3 - k_1 k_2^2 k_5^3 k_7 k_9^2 k_{11}^2 k_{12} - 3 k_1 k_2^2 k_5^2 k_6 k_7 k_9^2 k_{11}^3 - 3 k_1 k_2^2 \\
& k_5^2 k_6 k_7 k_9^2 k_{11}^2 k_{12} - k_1 k_2^2 k_5^2 k_7 k_9^2 k_{11}^3 k_{12} - 3 k_1 k_2^2 k_5^2 k_7 k_9^2 k_{11}^3 k_{13} - 2 k_1 k_2^2 k_5^2 k_7 k_9^2 \\
& k_{11}^2 k_{12} k_{13} - 3 k_1 k_2^2 k_5^2 k_6 k_7 k_9^2 k_{11}^3 - 3 k_1 k_2^2 k_5^2 k_6 k_7 k_9^2 k_{11}^2 k_{12} - 2 k_1 k_2^2 k_5^2 k_6 k_7 k_9^2 k_{11}^3 k_{12} \\
& - 6 k_1 k_2^2 k_5^2 k_6 k_7 k_9^2 k_{11}^3 k_{13} - 4 k_1 k_2^2 k_5^2 k_6 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 2 k_1 k_2^2 k_5^2 k_7 k_9^2 k_{11}^3 k_{12} k_{13} \\
& - 3 k_1 k_2^2 k_5^2 k_7 k_9^2 k_{11}^3 k_{13}^2 - k_1 k_2^2 k_5^2 k_7 k_9^2 k_{11}^2 k_{12} k_{13}^2 - k_1 k_2^2 k_6^3 k_7 k_9^2 k_{11}^3 - k_1 k_2^2 k_6^3 k_7 k_9^2 \\
& k_{11}^2 k_{12} - k_1 k_2^2 k_6^2 k_7 k_9^2 k_{11}^3 k_{12} - 3 k_1 k_2^2 k_6^2 k_7 k_9^2 k_{11}^3 k_{13} - 2 k_1 k_2^2 k_6^2 k_7 k_9^2 k_{11}^2 k_{12} k_{13} \\
& - 2 k_1 k_2^2 k_6^2 k_7 k_9^2 k_{11}^3 k_{12} k_{13} - 3 k_1 k_2^2 k_6^2 k_7 k_9^2 k_{11}^3 k_{13}^2 - k_1 k_2^2 k_6^2 k_7 k_9^2 k_{11}^2 k_{12} k_{13}^2 - k_1 \\
& k_2^2 k_7 k_9^2 k_{11}^3 k_{12} k_{13}^2 - k_1 k_2^2 k_7 k_9^2 k_{11}^3 k_{13}^3 - 2 k_1 k_2 k_3 k_5^3 k_7 k_9^2 k_{11}^3 - 2 k_1 k_2 k_3 k_5^3 k_7 k_9^2 k_{11}^2 k_{12} \\
& - 6 k_1 k_2 k_3 k_5^2 k_6 k_7 k_9^2 k_{11}^3 - 6 k_1 k_2 k_3 k_5^2 k_6 k_7 k_9^2 k_{11}^2 k_{12} - 2 k_1 k_2 k_3 k_5^2 k_7 k_9^2 k_{11}^3 k_{12} \\
& - 6 k_1 k_2 k_3 k_5^2 k_7 k_9^2 k_{11}^3 k_{13} - 4 k_1 k_2 k_3 k_5^2 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 6 k_1 k_2 k_3 k_5^2 k_6 k_7 k_9^2 k_{11}^3 \\
& - 6 k_1 k_2 k_3 k_5^2 k_6 k_7 k_9^2 k_{11}^2 k_{12} - 4 k_1 k_2 k_3 k_5 k_6 k_7 k_9^2 k_{11}^3 k_{12} - 12 k_1 k_2 k_3 k_5 k_6 k_7 k_9^2 \\
& k_{11}^3 k_{13} - 8 k_1 k_2 k_3 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 4 k_1 k_2 k_3 k_5 k_7 k_9^2 k_{11}^3 k_{12} k_{13} - 6 k_1 k_2 k_3 k_5 k_7 \\
& k_9^2 k_{11}^3 k_{13}^2 - 2 k_1 k_2 k_3 k_5 k_7 k_9^2 k_{11}^2 k_{12} k_{13}^2 - 2 k_1 k_2 k_3 k_6^3 k_7 k_9^2 k_{11}^3 - 2 k_1 k_2 k_3 k_6^3 k_7 k_9^2 \\
& k_{11}^2 k_{12} - 2 k_1 k_2 k_3 k_6^2 k_7 k_9^2 k_{11}^3 k_{12} - 6 k_1 k_2 k_3 k_6^2 k_7 k_9^2 k_{11}^3 k_{13} - 4 k_1 k_2 k_3 k_6^2 k_7 k_9^2 \\
& k_{11}^2 k_{12} k_{13} - 4 k_1 k_2 k_3 k_6 k_7 k_9^2 k_{11}^3 k_{12} k_{13} - 6 k_1 k_2 k_3 k_6 k_7 k_9^2 k_{11}^3 k_{13}^2 - 2 k_1 k_2 k_3 k_6 k_7 k_9^2 \\
& k_{11}^2 k_{12} k_{13}^2 - 2 k_1 k_2 k_3 k_7 k_9^2 k_{11}^3 k_{12} k_{13}^2 - 2 k_1 k_2 k_3 k_7 k_9^2 k_{11}^3 k_{13}^3 - 2 k_1 k_2 k_5^3 k_7 k_9^2 k_{11}^3 k_{12} \\
& - 2 k_1 k_2 k_5^3 k_7 k_9^2 k_{11}^2 k_{12}^2 - 6 k_1 k_2 k_5^2 k_6 k_7 k_9^2 k_{11}^3 k_{12} - 6 k_1 k_2 k_5^2 k_6 k_7 k_9^2 k_{11}^2 k_{12}^2 \\
& - 2 k_1 k_2 k_5^2 k_7 k_9^2 k_{11}^3 k_{12}^2 - 4 k_1 k_2 k_5^2 k_7 k_9^2 k_{11}^3 k_{12} k_{13} - 2 k_1 k_2 k_5^2 k_7 k_9^2 k_{11}^2 k_{12}^2 k_{13} \\
& - 6 k_1 k_2 k_5 k_6 k_7 k_9^2 k_{11}^3 k_{12} - 6 k_1 k_2 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{12}^2 - 4 k_1 k_2 k_5 k_6 k_7 k_9^2 k_{11}^3 k_{12}^2
\end{aligned}$$

$$\begin{aligned}
& -8 k_1 k_2 k_5 k_6 k_7 k_9^2 k_{11}^3 k_{12} k_{13} - 4 k_1 k_2 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{12}^2 k_{13} - 2 k_1 k_2 k_5 k_7 k_9^2 k_{11}^3 \\
& k_{12}^2 k_{13} - 2 k_1 k_2 k_5 k_7 k_9^2 k_{11}^3 k_{12} k_{13}^2 - 2 k_1 k_2 k_6^3 k_7 k_9^2 k_{11}^3 k_{12} - 2 k_1 k_2 k_6^3 k_7 k_9^2 k_{11}^2 k_{12}^2 \\
& - 2 k_1 k_2 k_6^2 k_7 k_9^2 k_{11}^3 k_{12}^2 - 4 k_1 k_2 k_6^2 k_7 k_9^2 k_{11}^3 k_{12} k_{13} - 2 k_1 k_2 k_6^2 k_7 k_9^2 k_{11}^2 k_{12}^2 k_{13} \\
& - 2 k_1 k_2 k_6 k_7 k_9^2 k_{11}^3 k_{12}^2 k_{13} - 2 k_1 k_2 k_6 k_7 k_9^2 k_{11}^3 k_{12} k_{13}^2 - k_1 k_3^2 k_5^3 k_7 k_9^2 k_{11}^3 - k_1 k_3^2 \\
& k_5^3 k_7 k_9^2 k_{11}^2 k_{12} - 3 k_1 k_3^2 k_5^2 k_6 k_7 k_9^2 k_{11}^3 - 3 k_1 k_3^2 k_5^2 k_6 k_7 k_9^2 k_{11}^2 k_{12} - k_1 k_3^2 k_5^2 k_7 k_9^2 k_{11}^3 k_{12} \\
& - 3 k_1 k_3^2 k_5^2 k_7 k_9^2 k_{11}^3 k_{13} - 2 k_1 k_3^2 k_5^2 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 3 k_1 k_3^2 k_5^2 k_6 k_7 k_9^2 k_{11}^3 - 3 k_1 \\
& k_3^2 k_5^2 k_6^2 k_7 k_9^2 k_{11}^2 k_{12} - 2 k_1 k_3^2 k_5^2 k_6 k_7 k_9^2 k_{11}^3 k_{12} - 6 k_1 k_3^2 k_5^2 k_6 k_7 k_9^2 k_{11}^3 k_{13} - 4 k_1 \\
& k_3^2 k_5^2 k_6 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 2 k_1 k_3^2 k_5^2 k_7 k_9^2 k_{11}^3 k_{12} k_{13} - 3 k_1 k_3^2 k_5^2 k_7 k_9^2 k_{11}^3 k_{13}^2 - k_1 \\
& k_3^2 k_5^2 k_7 k_9^2 k_{11}^2 k_{12} k_{13}^2 - k_1 k_3^2 k_6^3 k_7 k_9^2 k_{11}^3 - k_1 k_3^2 k_6^3 k_7 k_9^2 k_{11}^2 k_{12} - k_1 k_3^2 k_6^2 k_7 k_9^2 k_{11}^3 k_{12} \\
& - 3 k_1 k_3^2 k_6^2 k_7 k_9^2 k_{11}^3 k_{13} - 2 k_1 k_3^2 k_6^2 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 2 k_1 k_3^2 k_6^2 k_7 k_9^2 k_{11}^3 k_{12} k_{13} - 3 k_1 \\
& k_3^2 k_6^2 k_7 k_9^2 k_{11}^3 k_{13}^2 - k_1 k_3^2 k_6^2 k_7 k_9^2 k_{11}^2 k_{12} k_{13}^2 - k_1 k_3^2 k_7 k_9^2 k_{11}^3 k_{12} k_{13}^2 - k_1 k_3^2 k_7 k_9^2 k_{11}^3 k_{13}^3 \\
& - 2 k_1 k_3^2 k_5^3 k_7 k_9^2 k_{11}^3 k_{12} - 2 k_1 k_3^2 k_5^3 k_7 k_9^2 k_{11}^2 k_{12}^2 - 6 k_1 k_3^2 k_5^2 k_6 k_7 k_9^2 k_{11}^3 k_{12} - 6 k_1 k_3^2 \\
& k_5^2 k_6 k_7 k_9^2 k_{11}^2 k_{12}^2 - 2 k_1 k_3^2 k_5^2 k_7 k_9^2 k_{11}^3 k_{12}^2 - 4 k_1 k_3^2 k_5^2 k_7 k_9^2 k_{11}^3 k_{12} k_{13} - 2 k_1 k_3^2 k_5^2 k_7 k_9^2 \\
& k_{11}^2 k_{12}^2 k_{13} - 6 k_1 k_3^2 k_5^2 k_6 k_7 k_9^2 k_{11}^3 k_{12} - 6 k_1 k_3^2 k_5^2 k_6 k_7 k_9^2 k_{11}^2 k_{12}^2 - 4 k_1 k_3^2 k_5^2 k_6 k_7 k_9^2 k_{11}^3 \\
& k_{12}^2 - 8 k_1 k_3^2 k_5^2 k_6 k_7 k_9^2 k_{11}^3 k_{12} k_{13} - 4 k_1 k_3^2 k_5^2 k_6 k_7 k_9^2 k_{11}^2 k_{12}^2 k_{13} - 2 k_1 k_3^2 k_5^2 k_7 k_9^2 k_{11}^3 \\
& k_{12}^2 k_{13} - 2 k_1 k_3^2 k_5^2 k_7 k_9^2 k_{11}^3 k_{12} k_{13}^2 - 2 k_1 k_3^2 k_6^3 k_7 k_9^2 k_{11}^3 k_{12} - 2 k_1 k_3^2 k_6^3 k_7 k_9^2 k_{11}^2 k_{12}^2 \\
& - 2 k_1 k_3^2 k_6^2 k_7 k_9^2 k_{11}^3 k_{12}^2 - 4 k_1 k_3^2 k_6^2 k_7 k_9^2 k_{11}^3 k_{12} k_{13} - 2 k_1 k_3^2 k_6^2 k_7 k_9^2 k_{11}^2 k_{12}^2 k_{13} \\
& - 2 k_1 k_3^2 k_6 k_7 k_9^2 k_{11}^3 k_{12}^2 k_{13} - 2 k_1 k_3^2 k_6 k_7 k_9^2 k_{11}^3 k_{12} k_{13}^2 - k_1 k_5^3 k_7 k_9^2 k_{11}^3 k_{12}^2 - k_1 k_5^3 k_7 \\
& k_9^2 k_{11}^2 k_{12}^3 - 3 k_1 k_5^2 k_6 k_7 k_9^2 k_{11}^3 k_{12}^2 - 3 k_1 k_5^2 k_6 k_7 k_9^2 k_{11}^2 k_{12}^3 - k_1 k_5^2 k_7 k_9^2 k_{11}^3 k_{12}^3 - k_1 \\
& k_5^2 k_7 k_9^2 k_{11}^3 k_{12}^2 k_{13} - 3 k_1 k_5^2 k_6^2 k_7 k_9^2 k_{11}^3 k_{12}^2 - 3 k_1 k_5^2 k_6^2 k_7 k_9^2 k_{11}^2 k_{12}^3 - 2 k_1 k_5^2 k_6 k_7 k_9^2 k_{11}^3 \\
& k_{12}^3 - 2 k_1 k_5^2 k_6 k_7 k_9^2 k_{11}^3 k_{12}^2 k_{13} - k_1 k_6^3 k_7 k_9^2 k_{11}^3 k_{12}^2 - k_1 k_6^3 k_7 k_9^2 k_{11}^2 k_{12}^3 - k_1 k_6^2 k_7 k_9^2 k_{11}^3 \\
& k_{12}^3 - k_1 k_6^2 k_7 k_9^2 k_{11}^3 k_{12}^2 k_{13} - k_2^3 k_4^2 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 - 2 k_2^3 k_4^2 k_5^2 k_7 k_9^2 k_{10} k_{11} k_{13} - 3 k_2^3 k_4^2 \\
& k_5^2 k_7 k_9^2 k_{11}^2 k_{13} - 2 k_2^3 k_4^2 k_5^2 k_6 k_7 k_9^2 k_{10} k_{11}^2 - 4 k_2^3 k_4^2 k_5^2 k_6 k_7 k_9^2 k_{10} k_{11} k_{13} - 6 \\
& k_2^3 k_4^2 k_5^2 k_6 k_7 k_9^2 k_{11}^2 k_{13} - 2 k_2^3 k_4^2 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 4 k_2^3 k_4^2 k_5^2 k_7 k_9^2 k_{10} k_{11} k_{13}^2 - 6 \\
& k_2^3 k_4^2 k_5^2 k_7 k_9^2 k_{11}^2 k_{13}^2 - k_2^3 k_4^2 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 - 2 k_2^3 k_4^2 k_6^2 k_7 k_9^2 k_{10} k_{11} k_{13} - 3 k_2^3 k_4^2 k_6^2 k_7 k_9^2 \\
& k_{11}^2 k_{13} - 2 k_2^3 k_4^2 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 4 k_2^3 k_4^2 k_6 k_7 k_9^2 k_{10} k_{11} k_{13}^2 - 6 k_2^3 k_4^2 k_6 k_7 k_9^2 k_{11}^2 k_{13}^2 \\
& - k_2^3 k_4^2 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 2 k_2^3 k_4^2 k_7 k_9^2 k_{10} k_{11} k_{13}^3 - 3 k_2^3 k_4^2 k_7 k_9^2 k_{11}^2 k_{13}^3 - 3 k_2^3 k_3^2 k_4^2
\end{aligned}$$

$$\begin{aligned}
& k_5^2 k_7 k_9^2 k_{10} k_{11}^2 - 6 k_2^2 k_3 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11} k_{13} - 9 k_2^2 k_3 k_4 k_5^2 k_7 k_9^2 k_{11}^2 k_{13} - 6 \\
& k_2^2 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 - 12 k_2^2 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11} k_{13} - 18 k_2^2 k_3 k_4 k_5 k_6 k_7 k_9^2 \\
& k_{11}^2 k_{13} - 6 k_2^2 k_3 k_4 k_5 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 12 k_2^2 k_3 k_4 k_5 k_7 k_9^2 k_{10} k_{11} k_{13}^2 - 18 k_2^2 k_3 k_4 k_5 k_7 \\
& k_9^2 k_{11}^2 k_{13}^2 - 3 k_2^2 k_3 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 - 6 k_2^2 k_3 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11} k_{13} - 9 k_2^2 k_3 k_4 k_6^2 k_7 k_9^2 \\
& k_{11}^2 k_{13} - 6 k_2^2 k_3 k_4 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 12 k_2^2 k_3 k_4 k_6 k_7 k_9^2 k_{10} k_{11} k_{13}^2 - 18 k_2^2 k_3 k_4 k_6 k_7 \\
& k_9^2 k_{11}^2 k_{13}^2 - 3 k_2^2 k_3 k_4 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 6 k_2^2 k_3 k_4 k_7 k_9^2 k_{10} k_{11} k_{13}^3 - 9 k_2^2 k_3 k_4 k_7 k_9^2 k_{11}^2 \\
& k_{13}^3 - 3 k_2^2 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - k_2^2 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 4 k_2^2 k_4 k_5^2 k_7 \\
& k_9^2 k_{10} k_{11} k_{12} k_{13} - 6 k_2^2 k_4 k_5^2 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 6 k_2^2 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - 2 \\
& k_2^2 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 8 k_2^2 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13} - 12 k_2^2 k_4 k_5 k_6 k_7 k_9^2 \\
& k_{11}^2 k_{12} k_{13} - 4 k_2^2 k_4 k_5 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 2 k_2^2 k_4 k_5 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 4 k_2^2 k_4 k_5 k_7 \\
& k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - 6 k_2^2 k_4 k_5 k_7 k_9^2 k_{11}^2 k_{12} k_{13}^2 - 3 k_2^2 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - k_2^2 k_4 k_6^2 k_7 \\
& k_9^2 k_{10} k_{11}^2 k_{13} - 4 k_2^2 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13} - 6 k_2^2 k_4 k_6^2 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 4 k_2^2 k_4 k_6 k_7 \\
& k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 2 k_2^2 k_4 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 4 k_2^2 k_4 k_6 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - 6 \\
& k_2^2 k_4 k_6 k_7 k_9^2 k_{11}^2 k_{12} k_{13}^2 - k_2^2 k_4 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13}^2 - k_2^2 k_4 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^3 - 3 k_2 k_3^2 k_4 \\
& k_5^2 k_7 k_9^2 k_{10} k_{11}^2 - 6 k_2 k_3^2 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11} k_{13} - 9 k_2 k_3^2 k_4 k_5^2 k_7 k_9^2 k_{11}^2 k_{13} - 6 k_2 \\
& k_3^2 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 - 12 k_2 k_3^2 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11} k_{13} - 18 k_2 k_3^2 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{13} \\
& - 6 k_2 k_3^2 k_4 k_5 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 12 k_2 k_3^2 k_4 k_5 k_7 k_9^2 k_{10} k_{11} k_{13}^2 - 18 k_2 k_3^2 k_4 k_5 k_7 k_9^2 k_{11}^2 \\
& k_{13}^2 - 3 k_2 k_3^2 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 - 6 k_2 k_3^2 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11} k_{13} - 9 k_2 k_3^2 k_4 k_6^2 k_7 k_9^2 k_{11}^2 k_{13} \\
& - 6 k_2 k_3^2 k_4 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 12 k_2 k_3^2 k_4 k_6 k_7 k_9^2 k_{10} k_{11} k_{13}^2 - 18 k_2 k_3^2 k_4 k_6 k_7 k_9^2 k_{11}^2 \\
& k_{13}^2 - 3 k_2 k_3^2 k_4 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 6 k_2 k_3^2 k_4 k_7 k_9^2 k_{10} k_{11} k_{13}^3 - 9 k_2 k_3^2 k_4 k_7 k_9^2 k_{11}^2 k_{13}^3 \\
& - 6 k_2 k_3 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - 2 k_2 k_3 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 8 k_2 k_3 k_4 k_5^2 k_7 \\
& k_9^2 k_{10} k_{11} k_{12} k_{13} - 12 k_2 k_3 k_4 k_5^2 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 12 k_2 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} \\
& - 4 k_2 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 16 k_2 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13} \\
& - 24 k_2 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 8 k_2 k_3 k_4 k_5 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 4 k_2 k_3 k_4 k_5 k_7 \\
& k_9^2 k_{10} k_{11}^2 k_{13}^2 - 8 k_2 k_3 k_4 k_5 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - 12 k_2 k_3 k_4 k_5 k_7 k_9^2 k_{11}^2 k_{12} k_{13}^2 \\
& - 6 k_2 k_3 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - 2 k_2 k_3 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 8 k_2 k_3 k_4 k_6^2 k_7 \\
& k_9^2 k_{10} k_{11} k_{12} k_{13} - 12 k_2 k_3 k_4 k_6^2 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 8 k_2 k_3 k_4 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13}
\end{aligned}$$

$$\begin{aligned}
& -4 k_2 k_3 k_4 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 8 k_2 k_3 k_4 k_6 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - 12 k_2 k_3 k_4 k_6 k_7 k_9^2 \\
& k_{11}^2 k_{12} k_{13}^2 - 2 k_2 k_3 k_4 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13}^2 - 2 k_2 k_3 k_4 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^3 - 3 k_2 k_4 k_5^2 k_7 \\
& k_9^2 k_{10} k_{11}^2 k_{12}^2 - 2 k_2 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 2 k_2 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11} k_{12}^2 k_{13} - 3 k_2 k_4 \\
& k_5^2 k_7 k_9^2 k_{11}^2 k_{12}^2 k_{13} - 6 k_2 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 - 4 k_2 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} \\
& - 4 k_2 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11} k_{12}^2 k_{13} - 6 k_2 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{12}^2 k_{13} - 2 k_2 k_4 k_5 k_7 k_9^2 k_{10} \\
& k_{11}^2 k_{12}^2 k_{13} - 2 k_2 k_4 k_5 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13}^2 - 3 k_2 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 - 2 k_2 k_4 k_6^2 k_7 \\
& k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 2 k_2 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11} k_{12}^2 k_{13} - 3 k_2 k_4 k_6^2 k_7 k_9^2 k_{11}^2 k_{12}^2 k_{13} \\
& - 2 k_2 k_4 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 k_{13} - 2 k_2 k_4 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13}^2 - k_3^3 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 \\
& - 2 k_3^3 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11} k_{13} - 3 k_3^3 k_4 k_5^2 k_7 k_9^2 k_{11}^2 k_{13} - 2 k_3^3 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 - 4 \\
& k_3^3 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11} k_{13} - 6 k_3^3 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{13} - 2 k_3^3 k_4 k_5 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 4 \\
& k_3^3 k_4 k_5 k_7 k_9^2 k_{10} k_{11} k_{13}^2 - 6 k_3^3 k_4 k_5 k_7 k_9^2 k_{11}^2 k_{13}^2 - k_3^3 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 - 2 k_3^3 k_4 k_6^2 k_7 \\
& k_9^2 k_{10} k_{11} k_{13} - 3 k_3^3 k_4 k_6^2 k_7 k_9^2 k_{11}^2 k_{13} - 2 k_3^3 k_4 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 4 k_3^3 k_4 k_6 k_7 \\
& k_9^2 k_{10} k_{11} k_{13}^2 - 6 k_3^3 k_4 k_6 k_7 k_9^2 k_{11}^2 k_{13}^2 - k_3^3 k_4 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 2 k_3^3 k_4 k_7 k_9^2 k_{10} k_{11} k_{13}^3 \\
& - 3 k_3^3 k_4 k_7 k_9^2 k_{11}^2 k_{13}^3 - 3 k_3^2 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - k_3^2 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 4 k_3^2 k_4 \\
& k_5^2 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13} - 6 k_3^2 k_4 k_5^2 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 6 k_3^2 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - 2 \\
& k_3^2 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 8 k_3^2 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13} - 12 k_3^2 k_4 k_5 k_6 k_7 k_9^2 \\
& k_{11}^2 k_{12} k_{13} - 4 k_3^2 k_4 k_5 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 2 k_3^2 k_4 k_5 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 4 k_3^2 k_4 k_5 k_7 \\
& k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - 6 k_3^2 k_4 k_5 k_7 k_9^2 k_{11}^2 k_{12} k_{13}^2 - 3 k_3^2 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - k_3^2 k_4 k_6^2 k_7 \\
& k_9^2 k_{10} k_{11}^2 k_{13} - 4 k_3^2 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13} - 6 k_3^2 k_4 k_6^2 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 4 k_3^2 k_4 k_6 k_7 \\
& k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 2 k_3^2 k_4 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 4 k_3^2 k_4 k_6 k_7 k_9^2 k_{10} k_{11} k_{12} k_{13}^2 - 6 \\
& k_3^2 k_4 k_6 k_7 k_9^2 k_{11}^2 k_{12} k_{13}^2 - k_3^2 k_4 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13}^2 - k_3^2 k_4 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^3 - 3 k_3 k_4 \\
& k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 - 2 k_3 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 2 k_3 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11} k_{12}^2 k_{13} \\
& - 3 k_3 k_4 k_5^2 k_7 k_9^2 k_{11}^2 k_{12} k_{13} - 6 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 - 4 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{10} \\
& k_{11}^2 k_{12} k_{13} - 4 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11} k_{12}^2 k_{13} - 6 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{11}^2 k_{12}^2 k_{13} \\
& - 2 k_3 k_4 k_5 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 2 k_3 k_4 k_5 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 3 k_3 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 \\
& k_{12}^2 - 2 k_3 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 2 k_3 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11} k_{12}^2 k_{13} - 3 k_3 k_4 k_6^2 k_7 k_9^2 k_{11}^2 \\
& k_{12} k_{13} - 2 k_3 k_4 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 2 k_3 k_4 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 - k_4 k_5^2 k_7 k_9^2 k_{10}
\end{aligned}$$

$$\begin{aligned}
& k_{11}^2 k_{12}^3 - k_4 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 k_{13} - 2 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^3 - 2 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 \\
& k_{12}^2 k_{13} - k_4 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^3 - k_4 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 k_{13} \Big) x_1 x_7^2 + k_7 \Big(-k_1 k_2^2 k_3 \\
& k_5^3 k_7 k_9 k_{10} k_{11}^2 - k_1 k_2^2 k_3 k_5^3 k_7 k_9 k_{11}^3 - 3 k_1 k_2^2 k_3 k_5^2 k_6 k_7 k_9 k_{10} k_{11}^2 - 3 k_1 k_2^2 k_3 \\
& k_5^2 k_6 k_7 k_9 k_{11}^3 - 3 k_1 k_2^2 k_3 k_5^2 k_7 k_9 k_{10} k_{11}^2 k_{13} - 3 k_1 k_2^2 k_3 k_5^2 k_7 k_9 k_{11}^3 k_{13} - 3 k_1 k_2^2 k_3 k_5 \\
& k_6^2 k_7 k_9 k_{10} k_{11}^2 - 3 k_1 k_2^2 k_3 k_5 k_6^2 k_7 k_9 k_{11}^3 - 6 k_1 k_2^2 k_3 k_5 k_6 k_7 k_9 k_{10} k_{11}^2 k_{13} - 6 k_1 \\
& k_2^2 k_3 k_5 k_6 k_7 k_9 k_{11}^3 k_{13} - 3 k_1 k_2^2 k_3 k_5 k_7 k_9 k_{10} k_{11}^2 k_{13}^2 - 3 k_1 k_2^2 k_3 k_5 k_7 k_9 k_{11}^3 k_{13}^2 - k_1 \\
& k_2^2 k_3 k_6^3 k_7 k_9 k_{10} k_{11}^2 - k_1 k_2^2 k_3 k_6^3 k_7 k_9 k_{11}^3 - 3 k_1 k_2^2 k_3 k_6^2 k_7 k_9 k_{10} k_{11}^2 k_{13} - 3 k_1 k_2^2 k_3 \\
& k_6^2 k_7 k_9 k_{11}^3 k_{13} - 3 k_1 k_2^2 k_3 k_6 k_7 k_9 k_{10} k_{11}^2 k_{13}^2 - 3 k_1 k_2^2 k_3 k_6 k_7 k_9 k_{11}^3 k_{13}^2 - k_1 \\
& k_2^2 k_3 k_7 k_9 k_{10} k_{11}^2 k_{13}^3 - k_1 k_2^2 k_3 k_7 k_9 k_{11}^3 k_{13}^3 - k_1 k_2^2 k_5^3 k_7 k_9^2 k_{10} k_{11}^2 - k_1 k_2^2 k_5^3 k_7 k_9^2 k_{11}^3 \\
& - 3 k_1 k_2^2 k_5^2 k_6 k_7 k_9^2 k_{10} k_{11}^2 - 3 k_1 k_2^2 k_5^2 k_6 k_7 k_9^2 k_{11}^3 - k_1 k_2^2 k_5^2 k_6 k_7 k_9 k_{10} k_{11}^2 k_{12} - k_1 k_2^2 \\
& k_5^2 k_6 k_7 k_9 k_{11}^3 k_{12} - k_1 k_2^2 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - 3 k_1 k_2^2 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - k_1 k_2^2 k_5^2 k_7 k_9^2 \\
& k_{11}^3 k_{12} - 3 k_1 k_2^2 k_5^2 k_7 k_9^2 k_{11}^3 k_{13} - 3 k_1 k_2^2 k_5^2 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 - 3 k_1 k_2^2 k_5^2 k_6^2 k_7 k_9^2 k_{11}^3 \\
& - 2 k_1 k_2^2 k_5^2 k_6^2 k_7 k_9 k_{10} k_{11}^2 k_{12} - 2 k_1 k_2^2 k_5^2 k_6^2 k_7 k_9 k_{11}^3 k_{12} - 2 k_1 k_2^2 k_5^2 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} \\
& - 6 k_1 k_2^2 k_5^2 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 2 k_1 k_2^2 k_5^2 k_6 k_7 k_9^2 k_{11}^3 k_{12} - 6 k_1 k_2^2 k_5^2 k_6 k_7 k_9^2 k_{11}^3 k_{13} \\
& - 2 k_1 k_2^2 k_5^2 k_6 k_7 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 2 k_1 k_2^2 k_5^2 k_6 k_7 k_9 k_{11}^3 k_{12} k_{13} - 2 k_1 k_2^2 k_5^2 k_7 k_9^2 k_{10} \\
& k_{11}^2 k_{12} k_{13} - 3 k_1 k_2^2 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 2 k_1 k_2^2 k_5^2 k_7 k_9^2 k_{11}^3 k_{12} k_{13} - 3 k_1 k_2^2 k_5^2 k_7 k_9^2 k_{11}^3 \\
& k_{13}^2 - k_1 k_2^2 k_6^3 k_7 k_9^2 k_{10} k_{11}^2 - k_1 k_2^2 k_6^3 k_7 k_9^2 k_{11}^3 - k_1 k_2^2 k_6^3 k_7 k_9 k_{10} k_{11}^2 k_{12} - k_1 k_2^2 k_6^3 k_7 k_9 \\
& k_{11}^3 k_{12} - k_1 k_2^2 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - 3 k_1 k_2^2 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - k_1 k_2^2 k_6^2 k_7 k_9^2 k_{11}^3 k_{12} \\
& - 3 k_1 k_2^2 k_6^2 k_7 k_9^2 k_{11}^3 k_{13} - 2 k_1 k_2^2 k_6^2 k_7 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 2 k_1 k_2^2 k_6^2 k_7 k_9 k_{11}^3 k_{12} k_{13} \\
& - 2 k_1 k_2^2 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 3 k_1 k_2^2 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 2 k_1 k_2^2 k_6 k_7 k_9^2 k_{11}^3 k_{12} k_{13} \\
& - 3 k_1 k_2^2 k_6 k_7 k_9^2 k_{11}^3 k_{13}^2 - k_1 k_2^2 k_6 k_7 k_9 k_{10} k_{11}^2 k_{12} k_{13}^2 - k_1 k_2^2 k_6 k_7 k_9 k_{11}^3 k_{12} k_{13}^2 - k_1 \\
& k_2^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13}^2 - k_1 k_2^2 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^3 - k_1 k_2^2 k_7 k_9^2 k_{11}^3 k_{12} k_{13}^2 - k_1 k_2^2 k_7 k_9^2 k_{11}^3 \\
& k_{13}^3 - 2 k_1 k_2 k_3^2 k_5^3 k_7 k_9 k_{10} k_{11}^2 - 2 k_1 k_2 k_3^2 k_5^3 k_7 k_9 k_{11}^3 - 6 k_1 k_2 k_3^2 k_5^2 k_6 k_7 k_9 k_{10} k_{11}^2 \\
& - 6 k_1 k_2 k_3^2 k_5^2 k_6 k_7 k_9 k_{11}^3 - 6 k_1 k_2 k_3^2 k_5^2 k_7 k_9 k_{10} k_{11}^2 k_{13} - 6 k_1 k_2 k_3^2 k_5^2 k_7 k_9 k_{11}^3 k_{13} \\
& - 6 k_1 k_2 k_3^2 k_5 k_6^2 k_7 k_9 k_{10} k_{11}^2 - 6 k_1 k_2 k_3^2 k_5 k_6^2 k_7 k_9 k_{11}^3 - 12 k_1 k_2 k_3^2 k_5 k_6 k_7 k_9 k_{10} \\
& k_{11}^2 k_{13} - 12 k_1 k_2 k_3^2 k_5 k_6 k_7 k_9 k_{11}^3 k_{13} - 6 k_1 k_2 k_3^2 k_5 k_7 k_9 k_{10} k_{11}^2 k_{13}^2 - 6 k_1 k_2 k_3^2 k_5 k_7 k_9 \\
& k_{11}^3 k_{13}^2 - 2 k_1 k_2 k_3^2 k_6^3 k_7 k_9 k_{10} k_{11}^2 - 2 k_1 k_2 k_3^2 k_6^3 k_7 k_9 k_{11}^3 - 6 k_1 k_2 k_3^2 k_6^2 k_7 k_9 k_{10} k_{11}^2 k_{13}
\end{aligned}$$

$$\begin{aligned}
& -6 k_1 k_2 k_3^2 k_6^2 k_7 k_9 k_{11}^3 k_{13} - 6 k_1 k_2 k_3^2 k_6 k_7 k_9 k_{10} k_{11}^2 k_{13}^2 - 6 k_1 k_2 k_3^2 k_6 k_7 k_9 k_{11}^3 k_{13}^2 \\
& -2 k_1 k_2 k_3^2 k_7 k_9 k_{10} k_{11}^2 k_{13}^3 - 2 k_1 k_2 k_3^2 k_7 k_9 k_{11}^3 k_{13}^3 - 2 k_1 k_2 k_3 k_5^3 k_7 k_9^2 k_{10} k_{11}^2 \\
& -2 k_1 k_2 k_3 k_5^3 k_7 k_9^2 k_{11}^3 - 2 k_1 k_2 k_3 k_5^3 k_7 k_9 k_{10} k_{11}^2 k_{12} - 2 k_1 k_2 k_3 k_5^3 k_7 k_9 k_{11}^3 k_{12} \\
& -6 k_1 k_2 k_3 k_5^2 k_6 k_7 k_9^2 k_{10} k_{11}^2 - 6 k_1 k_2 k_3 k_5^2 k_6 k_7 k_9^2 k_{11}^3 - 8 k_1 k_2 k_3 k_5^2 k_6 k_7 k_9 k_{10} \\
& k_{11}^2 k_{12} - 8 k_1 k_2 k_3 k_5^2 k_6 k_7 k_9 k_{11}^3 k_{12} - 2 k_1 k_2 k_3 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - 6 k_1 k_2 k_3 k_5^2 k_7 \\
& k_9^2 k_{10} k_{11}^2 k_{13} - 2 k_1 k_2 k_3 k_5^2 k_7 k_9^2 k_{11}^3 k_{12} - 6 k_1 k_2 k_3 k_5^2 k_7 k_9^2 k_{11}^3 k_{13} - 4 k_1 k_2 k_3 \\
& k_5^2 k_7 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 4 k_1 k_2 k_3 k_5^2 k_7 k_9 k_{11}^3 k_{12} k_{13} - 6 k_1 k_2 k_3 k_5 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 \\
& -6 k_1 k_2 k_3 k_5 k_6^2 k_7 k_9^2 k_{11}^3 - 10 k_1 k_2 k_3 k_5 k_6^2 k_7 k_9 k_{10} k_{11}^2 k_{12} - 10 k_1 k_2 k_3 k_5 k_6^2 k_7 k_9 \\
& k_{11}^3 k_{12} - 4 k_1 k_2 k_3 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - 12 k_1 k_2 k_3 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{13} \\
& -4 k_1 k_2 k_3 k_5 k_6 k_7 k_9^2 k_{11}^3 k_{12} - 12 k_1 k_2 k_3 k_5 k_6 k_7 k_9^2 k_{11}^3 k_{13} - 12 k_1 k_2 k_3 k_5 k_6 k_7 k_9 k_{10} \\
& k_{11}^2 k_{12} k_{13} - 12 k_1 k_2 k_3 k_5 k_6 k_7 k_9 k_{11}^3 k_{12} k_{13} - 4 k_1 k_2 k_3 k_5 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} \\
& -6 k_1 k_2 k_3 k_5 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 4 k_1 k_2 k_3 k_5 k_7 k_9^2 k_{11}^3 k_{12} k_{13} - 6 k_1 k_2 k_3 k_5 k_7 k_9^2 k_{11}^3 k_{13}^2 \\
& -2 k_1 k_2 k_3 k_5 k_7 k_9 k_{10} k_{11}^2 k_{12} k_{13}^2 - 2 k_1 k_2 k_3 k_5 k_7 k_9 k_{11}^3 k_{12} k_{13}^2 - 2 k_1 k_2 k_3 k_6^3 k_7 \\
& k_9^2 k_{10} k_{11}^2 - 2 k_1 k_2 k_3 k_6^3 k_7 k_9^2 k_{11}^3 - 4 k_1 k_2 k_3 k_6^3 k_7 k_9 k_{10} k_{11}^2 k_{12} - 4 k_1 k_2 k_3 k_6^3 k_7 k_9 \\
& k_{11}^3 k_{12} - 2 k_1 k_2 k_3 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - 6 k_1 k_2 k_3 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 2 k_1 k_2 k_3 k_6^2 k_7 k_9^2 \\
& k_{11}^3 k_{12} - 6 k_1 k_2 k_3 k_6^2 k_7 k_9^2 k_{11}^3 k_{13} - 8 k_1 k_2 k_3 k_6^2 k_7 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 8 k_1 k_2 k_3 k_6^2 k_7 k_9 \\
& k_{11}^3 k_{12} k_{13} - 4 k_1 k_2 k_3 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 6 k_1 k_2 k_3 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 \\
& -4 k_1 k_2 k_3 k_6 k_7 k_9^2 k_{11}^3 k_{12} k_{13} - 6 k_1 k_2 k_3 k_6 k_7 k_9^2 k_{11}^3 k_{13}^2 - 4 k_1 k_2 k_3 k_6 k_7 k_9 k_{10} \\
& k_{11}^2 k_{12} k_{13}^2 - 4 k_1 k_2 k_3 k_6 k_7 k_9 k_{11}^3 k_{12} k_{13}^2 - 2 k_1 k_2 k_3 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13}^2 - 2 k_1 k_2 k_3 k_7 \\
& k_9^2 k_{10} k_{11}^2 k_{13}^3 - 2 k_1 k_2 k_3 k_7 k_9^2 k_{11}^3 k_{12} k_{13}^2 - 2 k_1 k_2 k_3 k_7 k_9^2 k_{11}^3 k_{13}^3 - 2 k_1 k_2 k_5^3 k_7 k_9^2 k_{10} \\
& k_{11}^2 k_{12} - 2 k_1 k_2 k_5^3 k_7 k_9^2 k_{11}^3 k_{12} - 6 k_1 k_2 k_5^2 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - 6 k_1 k_2 k_5^2 k_6 k_7 k_9^2 \\
& k_{11}^3 k_{12} - 2 k_1 k_2 k_5^2 k_6 k_7 k_9 k_{10} k_{11}^2 k_{12}^2 - 2 k_1 k_2 k_5^2 k_6 k_7 k_9 k_{11}^3 k_{12}^2 - 2 k_1 k_2 k_5^2 k_7 k_9^2 k_{10} \\
& k_{11}^2 k_{12}^2 - 4 k_1 k_2 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 2 k_1 k_2 k_5^2 k_7 k_9^2 k_{11}^3 k_{12}^2 - 4 k_1 k_2 k_5^2 k_7 k_9^2 \\
& k_{11}^3 k_{12} k_{13} - 6 k_1 k_2 k_5 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - 6 k_1 k_2 k_5 k_6^2 k_7 k_9^2 k_{11}^3 k_{12} - 4 k_1 k_2 k_5 \\
& k_6^2 k_7 k_9 k_{10} k_{11}^2 k_{12}^2 - 4 k_1 k_2 k_5 k_6^2 k_7 k_9 k_{11}^3 k_{12}^2 - 4 k_1 k_2 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 \\
& -8 k_1 k_2 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 4 k_1 k_2 k_5 k_6 k_7 k_9^2 k_{11}^3 k_{12}^2 - 8 k_1 k_2 k_5 k_6 k_7 k_9^2 \\
& k_{11}^3 k_{12} k_{13} - 2 k_1 k_2 k_5 k_6 k_7 k_9 k_{10} k_{11}^2 k_{12}^2 k_{13} - 2 k_1 k_2 k_5 k_6 k_7 k_9 k_{11}^3 k_{12}^2 k_{13}
\end{aligned}$$

[illegible]

$$\begin{aligned}
& k_9^2 k_{10} k_{11}^2 k_{12} k_{13}^2 - k_1 k_3^2 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^3 - k_1 k_3^2 k_7 k_9^2 k_{11}^3 k_{12} k_{13}^2 - k_1 k_3^2 k_7 k_9^2 k_{11}^3 k_{13}^3 \\
& - 2 k_1 k_3 k_5^3 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - 2 k_1 k_3 k_5^3 k_7 k_9^2 k_{11}^3 k_{12} - k_1 k_3 k_5^3 k_7 k_9 k_{10} k_{11}^2 k_{12}^2 - k_1 k_3 \\
& k_5^3 k_7 k_9 k_{11}^3 k_{12}^2 - 6 k_1 k_3 k_5^2 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - 6 k_1 k_3 k_5^2 k_6 k_7 k_9^2 k_{11}^3 k_{12} - 5 k_1 k_3 \\
& k_5^2 k_6 k_7 k_9 k_{10} k_{11}^2 k_{12}^2 - 5 k_1 k_3 k_5^2 k_6 k_7 k_9 k_{11}^3 k_{12}^2 - 2 k_1 k_3 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 - 4 k_1 k_3 \\
& k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 2 k_1 k_3 k_5^2 k_7 k_9^2 k_{11}^3 k_{12}^2 - 4 k_1 k_3 k_5^2 k_7 k_9^2 k_{11}^3 k_{12} k_{13} - k_1 k_3 \\
& k_5^2 k_7 k_9 k_{10} k_{11}^2 k_{12}^2 k_{13} - k_1 k_3 k_5^2 k_7 k_9 k_{11}^3 k_{12}^2 k_{13} - 6 k_1 k_3 k_5 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} \\
& - 6 k_1 k_3 k_5 k_6^2 k_7 k_9^2 k_{11}^3 k_{12} - 7 k_1 k_3 k_5 k_6^2 k_7 k_9 k_{10} k_{11}^2 k_{12}^2 - 7 k_1 k_3 k_5 k_6^2 k_7 k_9 k_{11}^3 k_{12}^2 \\
& - 4 k_1 k_3 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 - 8 k_1 k_3 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 4 k_1 k_3 k_5 k_6 k_7 k_9^2 \\
& k_{11}^3 k_{12}^2 - 8 k_1 k_3 k_5 k_6 k_7 k_9^2 k_{11}^3 k_{12} k_{13} - 4 k_1 k_3 k_5 k_6 k_7 k_9 k_{10} k_{11}^2 k_{12}^2 k_{13} \\
& - 4 k_1 k_3 k_5 k_6 k_7 k_9 k_{11}^3 k_{12}^2 k_{13} - 2 k_1 k_3 k_5 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 k_{13} - 2 k_1 k_3 k_5 k_7 k_9^2 k_{10} \\
& k_{11}^2 k_{12} k_{13}^2 - 2 k_1 k_3 k_5 k_7 k_9^2 k_{11}^3 k_{12}^2 k_{13} - 2 k_1 k_3 k_5 k_7 k_9^2 k_{11}^3 k_{12} k_{13}^2 - 2 k_1 k_3 k_6^3 k_7 k_9^2 k_{10} \\
& k_{11}^2 k_{12} - 2 k_1 k_3 k_6^3 k_7 k_9^2 k_{11}^3 k_{12} - 3 k_1 k_3 k_6^3 k_7 k_9 k_{10} k_{11}^2 k_{12}^2 - 3 k_1 k_3 k_6^3 k_7 k_9 k_{11}^3 k_{12}^2 \\
& - 2 k_1 k_3 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 - 4 k_1 k_3 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 2 k_1 k_3 k_6^2 k_7 k_9^2 k_{11}^3 k_{12}^2 \\
& - 4 k_1 k_3 k_6^2 k_7 k_9^2 k_{11}^3 k_{12} k_{13} - 3 k_1 k_3 k_6^2 k_7 k_9 k_{10} k_{11}^2 k_{12}^2 k_{13} - 3 k_1 k_3 k_6^2 k_7 k_9 k_{11}^3 k_{12}^2 k_{13} \\
& - 2 k_1 k_3 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 k_{13} - 2 k_1 k_3 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13}^2 - 2 k_1 k_3 k_6 k_7 k_9^2 k_{11}^3 \\
& k_{12}^2 k_{13} - 2 k_1 k_3 k_6 k_7 k_9^2 k_{11}^3 k_{12} k_{13}^2 - k_1 k_5^3 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 - k_1 k_5^3 k_7 k_9^2 k_{11}^3 k_{12}^2 - 3 k_1 \\
& k_5^2 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 - 3 k_1 k_5^2 k_6 k_7 k_9^2 k_{11}^3 k_{12}^2 - k_1 k_5^2 k_6 k_7 k_9 k_{10} k_{11}^2 k_{12}^3 - k_1 k_5^2 k_6 k_7 k_9 \\
& k_{11}^3 k_{12}^3 - k_1 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^3 - k_1 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - k_1 k_5^2 k_7 k_9^2 k_{11}^3 k_{12}^3 - k_1 k_5^2 k_7 \\
& k_9^2 k_{11}^3 k_{12}^2 k_{13} - 3 k_1 k_5 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 - 3 k_1 k_5 k_6^2 k_7 k_9^2 k_{11}^3 k_{12}^2 - 2 k_1 k_5 k_6^2 k_7 k_9 k_{10} \\
& k_{11}^2 k_{12}^3 - 2 k_1 k_5 k_6^2 k_7 k_9 k_{11}^3 k_{12}^3 - 2 k_1 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^3 - 2 k_1 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 \\
& k_{12}^2 k_{13} - 2 k_1 k_5 k_6 k_7 k_9^2 k_{11}^3 k_{12}^3 - 2 k_1 k_5 k_6 k_7 k_9^2 k_{11}^3 k_{12}^2 k_{13} - k_1 k_6^3 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 - k_1 \\
& k_6^3 k_7 k_9^2 k_{11}^3 k_{12}^2 - k_1 k_6^3 k_7 k_9 k_{10} k_{11}^2 k_{12}^3 - k_1 k_6^3 k_7 k_9 k_{11}^3 k_{12}^3 - k_1 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^3 - k_1 \\
& k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 k_{13} - k_1 k_6^2 k_7 k_9^2 k_{11}^3 k_{12}^3 - k_1 k_6^2 k_7 k_9^2 k_{11}^3 k_{12}^2 k_{13} - k_2^3 k_4 k_5^2 k_6 k_7 k_9 \\
& k_{10} k_{11} - k_2^3 k_4 k_5^2 k_6 k_7 k_9 k_{10} k_{11}^2 - k_2^3 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11} - k_2^3 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 - 2 \\
& k_2^3 k_4 k_5 k_6^2 k_7 k_9 k_{10} k_{11}^2 - 2 k_2^3 k_4 k_5 k_6^2 k_7 k_9 k_{10} k_{11}^2 - 2 k_2^3 k_4 k_5 k_6 k_7 k_9^2 k_{10}^2 k_{11} - 2 \\
& k_2^3 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 - 2 k_2^3 k_4 k_5 k_6 k_7 k_9 k_{10}^2 k_{11} k_{13} - 2 k_2^3 k_4 k_5 k_6 k_7 k_9 k_{10} k_{11}^2 k_{13} - 2 \\
& k_2^3 k_4 k_5 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 2 k_2^3 k_4 k_5 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - k_2^3 k_4 k_6^3 k_7 k_9 k_{10} k_{11}^2 - k_2^3 k_4
\end{aligned}$$

$$\begin{aligned}
& k_6^3 k_7 k_9 k_{10} k_{11}^2 - k_2^3 k_4 k_6^2 k_7 k_9^2 k_{10}^2 k_{11} - k_2^3 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 - 2 k_2^3 k_4 k_6^2 k_7 k_9 k_{10}^2 k_{11} k_{13} \\
& - 2 k_2^3 k_4 k_6^2 k_7 k_9 k_{10} k_{11}^2 k_{13} - 2 k_2^3 k_4 k_6 k_7 k_9^2 k_{10}^2 k_{11} k_{13} - 2 k_2^3 k_4 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - \\
& k_2^3 k_4 k_6 k_7 k_9 k_{10}^2 k_{11} k_{13}^2 - k_2^3 k_4 k_6 k_7 k_9 k_{10} k_{11}^2 k_{13}^2 - k_2^3 k_4 k_7 k_9^2 k_{10}^2 k_{11} k_{13}^2 - k_2^3 k_4 k_7 \\
& k_9^2 k_{10} k_{11}^2 k_{13}^2 - 3 k_2^2 k_3 k_4 k_5^2 k_6 k_7 k_9 k_{10}^2 k_{11} - 3 k_2^2 k_3 k_4 k_5^2 k_6 k_7 k_9 k_{10} k_{11}^2 - 3 k_2^2 k_3 k_4 \\
& k_5^2 k_7 k_9^2 k_{10}^2 k_{11} - 3 k_2^2 k_3 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 - k_2^2 k_3 k_4 k_5^2 k_7 k_9 k_{10}^2 k_{11} k_{13} - k_2^2 k_3 k_4 \\
& k_5^2 k_7 k_9 k_{10} k_{11}^2 k_{13} - 6 k_2^2 k_3 k_4 k_5 k_6^2 k_7 k_9 k_{10}^2 k_{11} - 6 k_2^2 k_3 k_4 k_5 k_6^2 k_7 k_9 k_{10} k_{11}^2 - 6 \\
& k_2^2 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{10}^2 k_{11} - 6 k_2^2 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 - 8 k_2^2 k_3 k_4 k_5 k_6 k_7 k_9 k_{10}^2 k_{11} k_{13} \\
& - 8 k_2^2 k_3 k_4 k_5 k_6 k_7 k_9 k_{10} k_{11}^2 k_{13} - 6 k_2^2 k_3 k_4 k_5 k_7 k_9^2 k_{10}^2 k_{11} k_{13} - 6 k_2^2 k_3 k_4 k_5 k_7 k_9^2 k_{10} \\
& k_{11}^2 k_{13} - 2 k_2^2 k_3 k_4 k_5 k_7 k_9 k_{10}^2 k_{11} k_{13}^2 - 2 k_2^2 k_3 k_4 k_5 k_7 k_9 k_{10} k_{11}^2 k_{13}^2 - 3 k_2^2 k_3 k_4 k_6^3 k_7 k_9 \\
& k_{10}^2 k_{11} - 3 k_2^2 k_3 k_4 k_6^3 k_7 k_9 k_{10} k_{11}^2 - 3 k_2^2 k_3 k_4 k_6^2 k_7 k_9^2 k_{10}^2 k_{11} - 3 k_2^2 k_3 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 \\
& - 7 k_2^2 k_3 k_4 k_6^2 k_7 k_9 k_{10}^2 k_{11} k_{13} - 7 k_2^2 k_3 k_4 k_6^2 k_7 k_9 k_{10} k_{11}^2 k_{13} - 6 k_2^2 k_3 k_4 k_6 k_7 k_9^2 \\
& k_{10}^2 k_{11} k_{13} - 6 k_2^2 k_3 k_4 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 5 k_2^2 k_3 k_4 k_6 k_7 k_9 k_{10}^2 k_{11} k_{13}^2 - 5 \\
& k_2^2 k_3 k_4 k_6 k_7 k_9 k_{10} k_{11}^2 k_{13}^2 - 3 k_2^2 k_3 k_4 k_7 k_9^2 k_{10}^2 k_{11} k_{13}^2 - 3 k_2^2 k_3 k_4 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 - \\
& k_2^2 k_3 k_4 k_7 k_9 k_{10}^2 k_{11} k_{13}^3 - k_2^2 k_3 k_4 k_7 k_9 k_{10} k_{11}^2 k_{13}^3 - 3 k_2^2 k_4 k_5^2 k_6 k_7 k_9 k_{10}^2 k_{11} k_{12} - 3 \\
& k_2^2 k_4 k_5^2 k_6 k_7 k_9 k_{10} k_{11}^2 k_{12} - 3 k_2^2 k_4 k_5^2 k_7 k_9^2 k_{10}^2 k_{11} k_{12} - k_2^2 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11} k_{13} - 3 \\
& k_2^2 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - k_2^2 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 6 k_2^2 k_4 k_5 k_6^2 k_7 k_9 k_{10}^2 k_{11} k_{12} - 6 \\
& k_2^2 k_4 k_5 k_6^2 k_7 k_9 k_{10} k_{11}^2 k_{12} - 6 k_2^2 k_4 k_5 k_6 k_7 k_9^2 k_{10}^2 k_{11} k_{12} - 2 k_2^2 k_4 k_5 k_6 k_7 k_9^2 k_{10}^2 k_{11} k_{13} \\
& - 6 k_2^2 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - 2 k_2^2 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 4 k_2^2 k_4 k_5 k_6 k_7 k_9 \\
& k_{10}^2 k_{11} k_{12} k_{13} - 4 k_2^2 k_4 k_5 k_6 k_7 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 4 k_2^2 k_4 k_5 k_7 k_9^2 k_{10}^2 k_{11} k_{12} k_{13} - 2 \\
& k_2^2 k_4 k_5 k_7 k_9^2 k_{10}^2 k_{11} k_{12} k_{13} - 2 k_2^2 k_4 k_5 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 3 \\
& k_2^2 k_4 k_6^3 k_7 k_9 k_{10}^2 k_{11} k_{12} - 3 k_2^2 k_4 k_6^3 k_7 k_9 k_{10} k_{11}^2 k_{12} - 3 k_2^2 k_4 k_6^2 k_7 k_9^2 k_{10}^2 k_{11} k_{12} - k_2^2 k_4 \\
& k_6^2 k_7 k_9^2 k_{10}^2 k_{11} k_{13} - 3 k_2^2 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - k_2^2 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 4 k_2^2 k_4 \\
& k_6^2 k_7 k_9 k_{10}^2 k_{11} k_{12} k_{13} - 4 k_2^2 k_4 k_6^2 k_7 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 4 k_2^2 k_4 k_6 k_7 k_9^2 k_{10}^2 k_{11} k_{12} k_{13} \\
& - 2 k_2^2 k_4 k_6 k_7 k_9^2 k_{10}^2 k_{11} k_{13}^2 - 4 k_2^2 k_4 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 2 k_2^2 k_4 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 \\
& - k_2^2 k_4 k_6 k_7 k_9 k_{10}^2 k_{11} k_{12} k_{13}^2 - k_2^2 k_4 k_6 k_7 k_9 k_{10} k_{11}^2 k_{12} k_{13}^2 - k_2^2 k_4 k_7 k_9^2 k_{10}^2 k_{11} k_{12} k_{13}^2 \\
& - k_2^2 k_4 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^3 - k_2^2 k_4 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13}^2 - k_2^2 k_4 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^3 - 3 k_2 k_3^2 k_4 \\
& k_5^2 k_6 k_7 k_9 k_{10}^2 k_{11} - 3 k_2 k_3^2 k_4 k_5^2 k_6 k_7 k_9 k_{10} k_{11}^2 - 3 k_2 k_3^2 k_4 k_5^2 k_6 k_7 k_9^2 k_{10}^2 k_{11} - 3 k_2 k_3^2 k_4
\end{aligned}$$

$$\begin{aligned}
& k_5^2 k_7 k_9^2 k_{10} k_{11}^2 - 2 k_2 k_3^2 k_4 k_5^2 k_7 k_9 k_{10}^2 k_{11} k_{13} - 2 k_2 k_3^2 k_4 k_5^2 k_7 k_9 k_{10} k_{11}^2 k_{13} - 6 k_2 \\
& k_3^2 k_4 k_5 k_6^2 k_7 k_9 k_{10}^2 k_{11} - 6 k_2 k_3^2 k_4 k_5 k_6^2 k_7 k_9 k_{10} k_{11}^2 - 6 k_2 k_3^2 k_4 k_5 k_6 k_7 k_9^2 k_{10}^2 k_{11} \\
& - 6 k_2 k_3^2 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 - 10 k_2 k_3^2 k_4 k_5 k_6 k_7 k_9 k_{10}^2 k_{11} k_{13} - 10 k_2 \\
& k_3^2 k_4 k_5 k_6 k_7 k_9 k_{10} k_{11}^2 k_{13} - 6 k_2 k_3^2 k_4 k_5 k_7 k_9^2 k_{10}^2 k_{11} k_{13} - 6 k_2 k_3^2 k_4 k_5 k_7 k_9^2 k_{10} k_{11}^2 k_{13} \\
& - 4 k_2 k_3^2 k_4 k_5 k_7 k_9 k_{10}^2 k_{11}^2 k_{13} - 4 k_2 k_3^2 k_4 k_5 k_7 k_9 k_{10} k_{11}^2 k_{13}^2 - 3 k_2 k_3^2 k_4 k_6^3 k_7 k_9 k_{10}^2 k_{11} \\
& - 3 k_2 k_3^2 k_4 k_6^3 k_7 k_9 k_{10} k_{11}^2 - 3 k_2 k_3^2 k_4 k_6^2 k_7 k_9^2 k_{10}^2 k_{11} - 3 k_2 k_3^2 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 \\
& - 8 k_2 k_3^2 k_4 k_6^2 k_7 k_9 k_{10}^2 k_{11} k_{13} - 8 k_2 k_3^2 k_4 k_6^2 k_7 k_9 k_{10} k_{11}^2 k_{13} - 6 k_2 k_3^2 k_4 k_6 k_7 k_9^2 \\
& k_{10}^2 k_{11} k_{13} - 6 k_2 k_3^2 k_4 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 7 k_2 k_3^2 k_4 k_6 k_7 k_9 k_{10}^2 k_{11}^2 k_{13} - 7 k_2 \\
& k_3^2 k_4 k_6 k_7 k_9 k_{10} k_{11}^2 k_{13}^2 - 3 k_2 k_3^2 k_4 k_7 k_9^2 k_{10}^2 k_{11} k_{13}^2 - 3 k_2 k_3^2 k_4 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 2 k_2 \\
& k_3^2 k_4 k_7 k_9 k_{10}^2 k_{11} k_{13}^3 - 2 k_2 k_3^2 k_4 k_7 k_9 k_{10} k_{11}^2 k_{13}^3 - 6 k_2 k_3 k_4 k_5^2 k_6 k_7 k_9 k_{10}^2 k_{11} k_{12} \\
& - 6 k_2 k_3 k_4 k_5^2 k_6 k_7 k_9 k_{10} k_{11}^2 k_{12} - 6 k_2 k_3 k_4 k_5^2 k_7 k_9^2 k_{10}^2 k_{11} k_{12} - 2 k_2 k_3 k_4 k_5^2 k_7 k_9^2 \\
& k_{10}^2 k_{11} k_{13} - 6 k_2 k_3 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - 2 k_2 k_3 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 2 k_2 k_3 k_4 \\
& k_5^2 k_7 k_9 k_{10}^2 k_{11} k_{12} k_{13} - 2 k_2 k_3 k_4 k_5^2 k_7 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 12 k_2 k_3 k_4 k_5 k_6^2 k_7 k_9 \\
& k_{10}^2 k_{11} k_{12} - 12 k_2 k_3 k_4 k_5 k_6^2 k_7 k_9 k_{10} k_{11}^2 k_{12} - 12 k_2 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{10}^2 k_{11} k_{12} \\
& - 4 k_2 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{10}^2 k_{11} k_{13} - 12 k_2 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - 4 k_2 k_3 k_4 k_5 k_6 k_7 \\
& k_9^2 k_{10} k_{11}^2 k_{13} - 12 k_2 k_3 k_4 k_5 k_6 k_7 k_9 k_{10}^2 k_{11} k_{12} k_{13} - 12 k_2 k_3 k_4 k_5 k_6 k_7 k_9 k_{10} \\
& k_{11}^2 k_{12} k_{13} - 8 k_2 k_3 k_4 k_5 k_7 k_9^2 k_{10}^2 k_{11} k_{12} k_{13} - 4 k_2 k_3 k_4 k_5 k_7 k_9^2 k_{10}^2 k_{11} k_{13}^2 \\
& - 8 k_2 k_3 k_4 k_5 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 4 k_2 k_3 k_4 k_5 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 2 k_2 k_3 k_4 k_5 k_7 k_9 \\
& k_{10}^2 k_{11} k_{12} k_{13}^2 - 2 k_2 k_3 k_4 k_5 k_7 k_9 k_{10} k_{11}^2 k_{12} k_{13}^2 - 6 k_2 k_3 k_4 k_6^3 k_7 k_9 k_{10}^2 k_{11} k_{12} \\
& - 6 k_2 k_3 k_4 k_6^3 k_7 k_9 k_{10} k_{11}^2 k_{12} - 6 k_2 k_3 k_4 k_6^2 k_7 k_9^2 k_{10}^2 k_{11} k_{12} - 2 k_2 k_3 k_4 k_6^2 k_7 k_9^2 \\
& k_{10}^2 k_{11} k_{13} - 6 k_2 k_3 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - 2 k_2 k_3 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 10 k_2 k_3 k_4 \\
& k_6^2 k_7 k_9 k_{10}^2 k_{11} k_{12} k_{13} - 10 k_2 k_3 k_4 k_6^2 k_7 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 8 k_2 k_3 k_4 k_6 k_7 k_9^2 \\
& k_{10}^2 k_{11} k_{12} k_{13} - 4 k_2 k_3 k_4 k_6 k_7 k_9^2 k_{10}^2 k_{11} k_{13}^2 - 8 k_2 k_3 k_4 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} \\
& - 4 k_2 k_3 k_4 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 4 k_2 k_3 k_4 k_6 k_7 k_9 k_{10}^2 k_{11} k_{12} k_{13}^2 \\
& - 4 k_2 k_3 k_4 k_6 k_7 k_9 k_{10} k_{11}^2 k_{12} k_{13}^2 - 2 k_2 k_3 k_4 k_7 k_9^2 k_{10}^2 k_{11} k_{12} k_{13}^2 - 2 k_2 k_3 k_4 k_7 k_9^2 \\
& k_{10}^2 k_{11} k_{13}^3 - 2 k_2 k_3 k_4 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13}^2 - 2 k_2 k_3 k_4 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^3 - 3 k_2 k_4 \\
& k_5^2 k_6 k_7 k_9 k_{10}^2 k_{11} k_{12}^2 - 3 k_2 k_4 k_5^2 k_6 k_7 k_9 k_{10} k_{11}^2 k_{12}^2 - 3 k_2 k_4 k_5^2 k_7 k_9^2 k_{10}^2 k_{11} k_{12}^2
\end{aligned}$$

$$\begin{aligned}
& -2 k_2 k_4 k_5^2 k_7 k_9 k_{10}^2 k_{11} k_{12} k_{13} - 3 k_2 k_4 k_5^2 k_7 k_9 k_{10} k_{11}^2 k_{12}^2 - 2 k_2 k_4 k_5^2 k_7 k_9 k_{10} \\
& k_{11}^2 k_{12} k_{13} - 6 k_2 k_4 k_5 k_6^2 k_7 k_9 k_{10}^2 k_{11} k_{12}^2 - 6 k_2 k_4 k_5 k_6^2 k_7 k_9 k_{10} k_{11}^2 k_{12}^2 \\
& - 6 k_2 k_4 k_5 k_6 k_7 k_9 k_{10}^2 k_{11} k_{12}^2 - 4 k_2 k_4 k_5 k_6 k_7 k_9 k_{10}^2 k_{11} k_{12} k_{13} - 6 k_2 k_4 k_5 k_6 k_7 \\
& k_9 k_{10} k_{11}^2 k_{12}^2 - 4 k_2 k_4 k_5 k_6 k_7 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 2 k_2 k_4 k_5 k_6 k_7 k_9 k_{10}^2 k_{11} k_{12}^2 k_{13} \\
& - 2 k_2 k_4 k_5 k_6 k_7 k_9 k_{10} k_{11}^2 k_{12}^2 k_{13} - 2 k_2 k_4 k_5 k_7 k_9 k_{10}^2 k_{11} k_{12}^2 k_{13} - 2 k_2 k_4 k_5 k_7 k_9 \\
& k_{10}^2 k_{11} k_{12} k_{13}^2 - 2 k_2 k_4 k_5 k_7 k_9 k_{10} k_{11}^2 k_{12}^2 k_{13} - 2 k_2 k_4 k_5 k_7 k_9 k_{10} k_{11}^2 k_{12} k_{13}^2 - 3 k_2 k_4 \\
& k_6^3 k_7 k_9 k_{10}^2 k_{11} k_{12}^2 - 3 k_2 k_4 k_6^3 k_7 k_9 k_{10} k_{11}^2 k_{12}^2 - 3 k_2 k_4 k_6^2 k_7 k_9 k_{10}^2 k_{11} k_{12}^2 - 2 k_2 k_4 \\
& k_6^2 k_7 k_9 k_{10}^2 k_{11} k_{12} k_{13} - 3 k_2 k_4 k_6^2 k_7 k_9 k_{10} k_{11}^2 k_{12}^2 - 2 k_2 k_4 k_6^2 k_7 k_9 k_{10} k_{11}^2 k_{12} k_{13} \\
& - 2 k_2 k_4 k_6^2 k_7 k_9 k_{10}^2 k_{11} k_{12}^2 k_{13} - 2 k_2 k_4 k_6^2 k_7 k_9 k_{10} k_{11}^2 k_{12}^2 k_{13} - 2 k_2 k_4 k_6 k_7 k_9 k_{10}^2 k_{11}^2 k_{12}^2 k_{13} \\
& k_{12}^2 k_{13} - 2 k_2 k_4 k_6 k_7 k_9 k_{10}^2 k_{11} k_{12} k_{13}^2 - 2 k_2 k_4 k_6 k_7 k_9 k_{10} k_{11}^2 k_{12}^2 k_{13} - 2 k_2 k_4 k_6 k_7 \\
& k_9 k_{10} k_{11}^2 k_{12} k_{13}^2 - k_3^3 k_4 k_5^2 k_6 k_7 k_9 k_{10}^2 k_{11} - k_3^3 k_4 k_5^2 k_6 k_7 k_9 k_{10} k_{11}^2 - k_3^3 k_4 k_5^2 k_7 k_9^2 \\
& k_{10}^2 k_{11} - k_3^3 k_4 k_5^2 k_7 k_9 k_{10} k_{11}^2 - k_3^3 k_4 k_5^2 k_7 k_9 k_{10}^2 k_{11} k_{13} - k_3^3 k_4 k_5^2 k_7 k_9 k_{10} k_{11}^2 k_{13} - 2 \\
& k_3^3 k_4 k_5 k_6^2 k_7 k_9 k_{10}^2 k_{11} - 2 k_3^3 k_4 k_5 k_6^2 k_7 k_9 k_{10} k_{11}^2 - 2 k_3^3 k_4 k_5 k_6 k_7 k_9^2 k_{10}^2 k_{11} - 2 \\
& k_3^3 k_4 k_5 k_6 k_7 k_9 k_{10} k_{11}^2 - 4 k_3^3 k_4 k_5 k_6 k_7 k_9 k_{10}^2 k_{11} k_{13} - 4 k_3^3 k_4 k_5 k_6 k_7 k_9 k_{10} k_{11}^2 k_{13} - 2 \\
& k_3^3 k_4 k_5 k_7 k_9 k_{10}^2 k_{11} k_{13} - 2 k_3^3 k_4 k_5 k_7 k_9 k_{10} k_{11}^2 k_{13} - 2 k_3^3 k_4 k_5 k_7 k_9 k_{10}^2 k_{11} k_{13}^2 - 2 \\
& k_3^3 k_4 k_5 k_7 k_9 k_{10} k_{11}^2 k_{13}^2 - k_3^3 k_4 k_6^3 k_7 k_9 k_{10}^2 k_{11} - k_3^3 k_4 k_6^3 k_7 k_9 k_{10} k_{11}^2 - k_3^3 k_4 k_6^2 k_7 k_9^2 \\
& k_{10}^2 k_{11} - k_3^3 k_4 k_6^2 k_7 k_9 k_{10} k_{11}^2 - 3 k_3^3 k_4 k_6^2 k_7 k_9 k_{10}^2 k_{11} k_{13} - 3 k_3^3 k_4 k_6^2 k_7 k_9 k_{10} k_{11}^2 k_{13} \\
& - 2 k_3^3 k_4 k_6 k_7 k_9^2 k_{10}^2 k_{11} k_{13} - 2 k_3^3 k_4 k_6 k_7 k_9 k_{10} k_{11}^2 k_{13} - 3 k_3^3 k_4 k_6 k_7 k_9 k_{10}^2 k_{11} k_{13}^2 \\
& - 3 k_3^3 k_4 k_6 k_7 k_9 k_{10} k_{11}^2 k_{13}^2 - k_3^3 k_4 k_7 k_9^2 k_{10}^2 k_{11} k_{13}^2 - k_3^3 k_4 k_7 k_9 k_{10} k_{11}^2 k_{13}^2 - \\
& k_3^3 k_4 k_7 k_9 k_{10}^2 k_{11} k_{13}^3 - k_3^3 k_4 k_7 k_9 k_{10} k_{11}^2 k_{13}^3 - 3 k_3^2 k_4 k_5^2 k_6 k_7 k_9 k_{10}^2 k_{11} k_{12} - 3 k_3^2 k_4 \\
& k_5^2 k_6 k_7 k_9 k_{10} k_{11}^2 k_{12} - 3 k_3^2 k_4 k_5^2 k_7 k_9 k_{10}^2 k_{11} k_{12} - k_3^2 k_4 k_5^2 k_7 k_9 k_{10} k_{11}^2 k_{13} - 3 k_3^2 k_4 \\
& k_5^2 k_7 k_9 k_{10} k_{11}^2 k_{12} - k_3^2 k_4 k_5^2 k_7 k_9 k_{10} k_{11}^2 k_{13} - 2 k_3^2 k_4 k_5^2 k_7 k_9 k_{10}^2 k_{11} k_{12} k_{13} - 2 k_3^2 k_4 \\
& k_5^2 k_7 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 6 k_3^2 k_4 k_5 k_6^2 k_7 k_9 k_{10}^2 k_{11} k_{12} - 6 k_3^2 k_4 k_5 k_6^2 k_7 k_9 k_{10} k_{11}^2 k_{12} - 6 \\
& k_3^2 k_4 k_5 k_6 k_7 k_9 k_{10}^2 k_{11} k_{12} - 2 k_3^2 k_4 k_5 k_6 k_7 k_9 k_{10}^2 k_{11} k_{13} - 6 k_3^2 k_4 k_5 k_6 k_7 k_9 k_{10} k_{11}^2 k_{12} \\
& - 2 k_3^2 k_4 k_5 k_6 k_7 k_9 k_{10} k_{11}^2 k_{13} - 8 k_3^2 k_4 k_5 k_6 k_7 k_9 k_{10}^2 k_{11} k_{12} k_{13} - 8 \\
& k_3^2 k_4 k_5 k_6 k_7 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 4 k_3^2 k_4 k_5 k_7 k_9 k_{10}^2 k_{11} k_{12} k_{13} - 2 k_3^2 k_4 k_5 k_7 k_9 k_{10}^2 k_{11} \\
& k_{13}^2 - 4 k_3^2 k_4 k_5 k_7 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 2 k_3^2 k_4 k_5 k_7 k_9 k_{10} k_{11}^2 k_{13}^2 - 2 k_3^2 k_4 k_5 k_7 k_9
\end{aligned}$$

$$\begin{aligned}
& k_{10}^2 k_{11} k_{12} k_{13}^2 - 2 k_3^2 k_4 k_5 k_7 k_9 k_{10} k_{11}^2 k_{12} k_{13}^2 - 3 k_3^2 k_4 k_6^3 k_7 k_9 k_{10}^2 k_{11} k_{12} - 3 k_3^2 k_4 \\
& k_6^3 k_7 k_9 k_{10} k_{11}^2 k_{12} - 3 k_3^2 k_4 k_6^2 k_7 k_9^2 k_{10}^2 k_{11} k_{12} - k_3^2 k_4 k_6^2 k_7 k_9^2 k_{10}^2 k_{11} k_{13} - 3 k_3^2 k_4 k_6^2 k_7 \\
& k_9^2 k_{10} k_{11}^2 k_{12} - k_3^2 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 6 k_3^2 k_4 k_6^2 k_7 k_9 k_{10}^2 k_{11} k_{12} k_{13} - 6 k_3^2 k_4 \\
& k_6^2 k_7 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 4 k_3^2 k_4 k_6 k_7 k_9^2 k_{10}^2 k_{11} k_{12} k_{13} - 2 k_3^2 k_4 k_6 k_7 k_9^2 k_{10}^2 k_{11} k_{13}^2 - 4 \\
& k_3^2 k_4 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 2 k_3^2 k_4 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 3 k_3^2 k_4 k_6 k_7 k_9 k_{10}^2 k_{11} k_{12} k_{13}^2 \\
& - 3 k_3^2 k_4 k_6 k_7 k_9 k_{10} k_{11}^2 k_{12} k_{13}^2 - k_3^2 k_4 k_7 k_9^2 k_{10}^2 k_{11} k_{12} k_{13}^2 - k_3^2 k_4 k_7 k_9^2 k_{10}^2 k_{11} k_{13}^3 - \\
& k_3^2 k_4 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13}^2 - k_3^2 k_4 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^3 - 3 k_3 k_4 k_5^2 k_6 k_7 k_9 k_{10}^2 k_{11} k_{12}^2 - 3 k_3 k_4 \\
& k_5^2 k_6 k_7 k_9 k_{10} k_{11}^2 k_{12}^2 - 3 k_3 k_4 k_5^2 k_7 k_9^2 k_{10}^2 k_{11} k_{12}^2 - 2 k_3 k_4 k_5^2 k_7 k_9^2 k_{10}^2 k_{11} k_{12} k_{13} \\
& - 3 k_3 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 - 2 k_3 k_4 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - k_3 k_4 k_5^2 k_7 k_9^2 k_{10}^2 k_{11} \\
& k_{12}^2 k_{13} - k_3 k_4 k_5^2 k_7 k_9 k_{10} k_{11}^2 k_{12}^2 k_{13} - 6 k_3 k_4 k_5 k_6^2 k_7 k_9 k_{10}^2 k_{11} k_{12}^2 - 6 k_3 k_4 k_5 \\
& k_6^2 k_7 k_9 k_{10} k_{11}^2 k_{12}^2 - 6 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{10}^2 k_{11} k_{12}^2 - 4 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{10}^2 k_{11} k_{12} k_{13} \\
& - 6 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 - 4 k_3 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 4 k_3 k_4 k_5 k_6 k_7 k_9 \\
& k_{10}^2 k_{11}^2 k_{12} k_{13} - 4 k_3 k_4 k_5 k_6 k_7 k_9 k_{10} k_{11}^2 k_{12}^2 k_{13} - 2 k_3 k_4 k_5 k_7 k_9^2 k_{10}^2 k_{11} k_{12}^2 k_{13} \\
& - 2 k_3 k_4 k_5 k_7 k_9^2 k_{10}^2 k_{11} k_{12} k_{13}^2 - 2 k_3 k_4 k_5 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 k_{13} - 2 k_3 k_4 k_5 k_7 k_9^2 k_{10} \\
& k_{11}^2 k_{12} k_{13}^2 - 3 k_3 k_4 k_6^3 k_7 k_9 k_{10}^2 k_{11} k_{12}^2 - 3 k_3 k_4 k_6^3 k_7 k_9 k_{10} k_{11}^2 k_{12}^2 - 3 k_3 k_4 k_6^2 k_7 k_9^2 \\
& k_{10}^2 k_{11} k_{12}^2 - 2 k_3 k_4 k_6^2 k_7 k_9^2 k_{10}^2 k_{11} k_{12} k_{13} - 3 k_3 k_4 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 - 2 k_3 k_4 k_6^2 k_7 \\
& k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 3 k_3 k_4 k_6^2 k_7 k_9 k_{10}^2 k_{11} k_{12}^2 k_{13} - 3 k_3 k_4 k_6^2 k_7 k_9 k_{10} k_{11}^2 k_{12}^2 k_{13} \\
& - 2 k_3 k_4 k_6 k_7 k_9^2 k_{10}^2 k_{11} k_{12}^2 k_{13} - 2 k_3 k_4 k_6 k_7 k_9^2 k_{10}^2 k_{11} k_{12} k_{13}^2 - 2 k_3 k_4 k_6 k_7 k_9^2 k_{10} k_{11}^2 \\
& k_{12}^2 k_{13} - 2 k_3 k_4 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13}^2 - k_4 k_5^2 k_6 k_7 k_9 k_{10}^2 k_{11} k_{12}^3 - k_4 k_5^2 k_6 k_7 k_9 k_{10} k_{11}^2 \\
& k_{12}^3 - k_4 k_5^2 k_7 k_9^2 k_{10}^2 k_{11} k_{12}^3 - k_4 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - k_4 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^3 - k_4 k_5^2 k_7 \\
& k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 2 k_4 k_5 k_6^2 k_7 k_9 k_{10}^2 k_{11} k_{12}^3 - 2 k_4 k_5 k_6^2 k_7 k_9 k_{10} k_{11}^2 k_{12}^3 - 2 k_4 k_5 k_6 k_7 \\
& k_9^2 k_{10} k_{11}^2 k_{12}^3 - 2 k_4 k_5 k_6 k_7 k_9^2 k_{10}^2 k_{11} k_{12}^2 k_{13} - 2 k_4 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^3 - 2 k_4 k_5 k_6 k_7 \\
& k_9 k_{10} k_{11}^2 k_{12} k_{13} - k_4 k_6^3 k_7 k_9 k_{10}^2 k_{11} k_{12}^3 - k_4 k_6^3 k_7 k_9 k_{10} k_{11}^2 k_{12}^3 - k_4 k_6^2 k_7 k_9^2 k_{10}^2 k_{11} k_{12}^3 \\
& - k_4 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 k_{13} - k_4 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 k_{13}^2 - k_4 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 k_{13}^2 \Big) x_3 x_7^2 \\
& + k_7 \Big(-k_1 k_2^2 k_3 k_5^3 k_8 k_9 k_{10} k_{11}^2 - k_1 k_2^2 k_3 k_5^3 k_8 k_9 k_{11}^3 - k_1 k_2^2 k_3 k_5^3 k_9^2 k_{10} k_{11}^2 - k_1 k_2^2 k_3 \\
& k_5^3 k_9^2 k_{11}^3 - 3 k_1 k_2^2 k_3 k_5^2 k_6 k_8 k_9 k_{10} k_{11}^2 - 3 k_1 k_2^2 k_3 k_5^2 k_6 k_8 k_9 k_{11}^3 - 3 k_1 k_2^2 k_3 k_5^2 k_6 k_9^2 k_{10} \\
& k_{11}^2 - 3 k_1 k_2^2 k_3 k_5^2 k_6 k_9^2 k_{11}^3 - 3 k_1 k_2^2 k_3 k_5^2 k_8 k_9 k_{10} k_{11}^2 k_{13} - 3 k_1 k_2^2 k_3 k_5^2 k_8 k_9 k_{11}^3 k_{13}
\end{aligned}$$

$$\begin{aligned}
& -3 k_1 k_2^2 k_3 k_5^2 k_9^2 k_{10} k_{11}^2 k_{13} - 3 k_1 k_2^2 k_3 k_5^2 k_9^2 k_{11}^3 k_{13} - 3 k_1 k_2^2 k_3 k_5 k_6^2 k_8 k_9 k_{10} k_{11}^2 \\
& - 3 k_1 k_2^2 k_3 k_5 k_6^2 k_8 k_9 k_{11}^3 - 3 k_1 k_2^2 k_3 k_5 k_6^2 k_9^2 k_{10} k_{11}^2 - 3 k_1 k_2^2 k_3 k_5 k_6^2 k_9^2 k_{11}^3 - 6 k_1 \\
& k_2^2 k_3 k_5 k_6 k_8 k_9 k_{10} k_{11}^2 k_{13} - 6 k_1 k_2^2 k_3 k_5 k_6 k_8 k_9 k_{11}^3 k_{13} - 6 k_1 k_2^2 k_3 k_5 k_6 k_9^2 k_{10} k_{11}^2 k_{13} \\
& - 6 k_1 k_2^2 k_3 k_5 k_6 k_9^2 k_{11}^3 k_{13} - 3 k_1 k_2^2 k_3 k_5 k_8 k_9 k_{10} k_{11}^2 k_{13}^2 - 3 k_1 k_2^2 k_3 k_5 k_8 k_9 k_{11}^3 k_{13}^2 \\
& - 3 k_1 k_2^2 k_3 k_5 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 3 k_1 k_2^2 k_3 k_5 k_9^2 k_{11}^3 k_{13}^2 - k_1 k_2^2 k_3 k_6^3 k_8 k_9 k_{10} k_{11}^2 - k_1 \\
& k_2^2 k_3 k_6^3 k_8 k_9 k_{11}^3 - k_1 k_2^2 k_3 k_6^3 k_9^2 k_{10} k_{11}^2 - k_1 k_2^2 k_3 k_6^3 k_9^2 k_{11}^3 - 3 k_1 k_2^2 k_3 k_6^2 k_8 k_9 k_{10} k_{11}^2 k_{13} \\
& - 3 k_1 k_2^2 k_3 k_6^2 k_8 k_9 k_{11}^3 k_{13} - 3 k_1 k_2^2 k_3 k_6^2 k_9^2 k_{10} k_{11}^2 k_{13} - 3 k_1 k_2^2 k_3 k_6^2 k_9^2 k_{11}^3 k_{13} - 3 k_1 \\
& k_2^2 k_3 k_6 k_8 k_9 k_{10} k_{11}^2 k_{13}^2 - 3 k_1 k_2^2 k_3 k_6 k_8 k_9 k_{11}^3 k_{13}^2 - 3 k_1 k_2^2 k_3 k_6 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 3 k_1 \\
& k_2^2 k_3 k_6 k_9^2 k_{11}^3 k_{13}^2 - k_1 k_2^2 k_3 k_8 k_9 k_{10} k_{11}^2 k_{13}^3 - k_1 k_2^2 k_3 k_8 k_9 k_{11}^3 k_{13}^3 - k_1 k_2^2 k_3 k_9^2 k_{10} k_{11}^2 \\
& k_{13}^3 - k_1 k_2^2 k_3 k_9^2 k_{11}^3 k_{13}^3 - k_1 k_2^2 k_5^2 k_6 k_8 k_9 k_{10} k_{11}^2 k_{12} - k_1 k_2^2 k_5^2 k_6 k_8 k_9 k_{11}^3 k_{12} - k_1 k_2^2 \\
& k_5^2 k_6 k_9^2 k_{10} k_{11}^2 k_{12} - k_1 k_2^2 k_5^2 k_6 k_9^2 k_{11}^3 k_{12} - 2 k_1 k_2^2 k_5 k_6^2 k_8 k_9 k_{10} k_{11}^2 k_{12} - 2 k_1 k_2^2 k_5 \\
& k_6^2 k_8 k_9 k_{11}^3 k_{12} - 2 k_1 k_2^2 k_5 k_6^2 k_9^2 k_{10} k_{11}^2 k_{12} - 2 k_1 k_2^2 k_5 k_6^2 k_9^2 k_{11}^3 k_{12} - 2 k_1 \\
& k_2^2 k_5 k_6 k_8 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 2 k_1 k_2^2 k_5 k_6 k_8 k_9 k_{11}^3 k_{12} k_{13} - 2 k_1 k_2^2 k_5 k_6 k_9^2 k_{10} \\
& k_{11}^2 k_{12} k_{13} - 2 k_1 k_2^2 k_5 k_6 k_9^2 k_{11}^3 k_{12} k_{13} - k_1 k_2^2 k_6^3 k_8 k_9 k_{10} k_{11}^2 k_{12} - k_1 k_2^2 k_6^3 k_8 k_9 k_{11}^3 k_{12} \\
& - k_1 k_2^2 k_6^3 k_9^2 k_{10} k_{11}^2 k_{12} - k_1 k_2^2 k_6^3 k_9^2 k_{11}^3 k_{12} - 2 k_1 k_2^2 k_6^2 k_8 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 2 k_1 k_2^2 \\
& k_6^2 k_8 k_9 k_{11}^3 k_{12} k_{13} - 2 k_1 k_2^2 k_6^2 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 2 k_1 k_2^2 k_6^2 k_9^2 k_{11}^3 k_{12} k_{13} - k_1 \\
& k_2^2 k_6 k_8 k_9 k_{10} k_{11}^2 k_{12} k_{13}^2 - k_1 k_2^2 k_6 k_8 k_9 k_{11}^3 k_{12} k_{13}^2 - k_1 k_2^2 k_6 k_9^2 k_{10} k_{11}^2 k_{12} k_{13}^2 - k_1 k_2^2 k_6 \\
& k_9^2 k_{11}^3 k_{12} k_{13}^2 - 2 k_1 k_2 k_3^2 k_5^2 k_8 k_9 k_{10} k_{11}^2 - 2 k_1 k_2 k_3^2 k_5^2 k_8 k_9 k_{11}^3 - 2 k_1 k_2 k_3^2 k_5^2 k_9^2 k_{10} k_{11}^2 \\
& - 2 k_1 k_2 k_3^2 k_5^2 k_9^2 k_{11}^3 - 6 k_1 k_2 k_3^2 k_5^2 k_6 k_8 k_9 k_{10} k_{11}^2 - 6 k_1 k_2 k_3^2 k_5^2 k_6 k_8 k_9 k_{11}^3 - 6 k_1 k_2 \\
& k_3^2 k_5^2 k_6 k_9^2 k_{10} k_{11}^2 - 6 k_1 k_2 k_3^2 k_5^2 k_6 k_9^2 k_{11}^3 - 6 k_1 k_2 k_3^2 k_5^2 k_8 k_9 k_{10} k_{11}^2 k_{13} - 6 k_1 k_2 k_3^2 \\
& k_5^2 k_8 k_9 k_{11}^3 k_{13} - 6 k_1 k_2 k_3^2 k_5^2 k_9^2 k_{10} k_{11}^2 k_{13} - 6 k_1 k_2 k_3^2 k_5^2 k_9^2 k_{11}^3 k_{13} - 6 k_1 k_2 k_3^2 k_5 \\
& k_6^2 k_8 k_9 k_{10} k_{11}^2 - 6 k_1 k_2 k_3^2 k_5 k_6^2 k_8 k_9 k_{11}^3 - 6 k_1 k_2 k_3^2 k_5 k_6^2 k_9^2 k_{10} k_{11}^2 - 6 k_1 k_2 k_3^2 k_5 k_6^2 k_9^2 \\
& k_{11}^3 - 12 k_1 k_2 k_3^2 k_5 k_6 k_8 k_9 k_{10} k_{11}^2 k_{13} - 12 k_1 k_2 k_3^2 k_5 k_6 k_8 k_9 k_{11}^3 k_{13} - 12 k_1 k_2 k_3^2 k_5 k_6 \\
& k_9^2 k_{10} k_{11}^2 k_{13} - 12 k_1 k_2 k_3^2 k_5 k_6 k_9^2 k_{11}^3 k_{13} - 6 k_1 k_2 k_3^2 k_5 k_8 k_9 k_{10} k_{11}^2 k_{13}^2 - 6 k_1 k_2 \\
& k_3^2 k_5 k_8 k_9 k_{11}^3 k_{13}^2 - 6 k_1 k_2 k_3^2 k_5 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 6 k_1 k_2 k_3^2 k_5 k_9^2 k_{11}^3 k_{13}^2 - 2 k_1 k_2 k_3^2 \\
& k_6^3 k_8 k_9 k_{10} k_{11}^2 - 2 k_1 k_2 k_3^2 k_6^3 k_8 k_9 k_{11}^3 - 2 k_1 k_2 k_3^2 k_6^3 k_9^2 k_{10} k_{11}^2 - 2 k_1 k_2 k_3^2 k_6^3 k_9^2 k_{11}^3 \\
& - 6 k_1 k_2 k_3^2 k_6^2 k_8 k_9 k_{10} k_{11}^2 k_{13} - 6 k_1 k_2 k_3^2 k_6^2 k_8 k_9 k_{11}^3 k_{13} - 6 k_1 k_2 k_3^2 k_6^2 k_9^2 k_{10} k_{11}^2 k_{13}
\end{aligned}$$

$$\begin{aligned}
& -6 k_1 k_2 k_3^2 k_6^2 k_9^2 k_{11}^3 k_{13} - 6 k_1 k_2 k_3^2 k_6 k_8 k_9 k_{10} k_{11}^2 k_{13}^2 - 6 k_1 k_2 k_3^2 k_6 k_8 k_9 k_{11}^3 k_{13}^2 \\
& - 6 k_1 k_2 k_3^2 k_6 k_9 k_{10} k_{11}^2 k_{13}^2 - 6 k_1 k_2 k_3^2 k_6 k_9^2 k_{11}^3 k_{13}^2 - 2 k_1 k_2 k_3^2 k_8 k_9 k_{10} k_{11}^2 k_{13}^3 \\
& - 2 k_1 k_2 k_3^2 k_8 k_9 k_{11}^3 k_{13}^3 - 2 k_1 k_2 k_3^2 k_9^2 k_{10} k_{11}^2 k_{13}^3 - 2 k_1 k_2 k_3^2 k_9^2 k_{11}^3 k_{13}^3 - 2 k_1 k_2 k_3 \\
& k_5^3 k_8 k_9 k_{10} k_{11}^2 k_{12} - 2 k_1 k_2 k_3 k_5^3 k_8 k_9 k_{11}^3 k_{12} - 2 k_1 k_2 k_3 k_5^3 k_9^2 k_{10} k_{11}^2 k_{12} - 2 k_1 k_2 k_3 k_5^3 \\
& k_9^2 k_{11}^3 k_{12} - 8 k_1 k_2 k_3 k_5^2 k_6 k_8 k_9 k_{10} k_{11}^2 k_{12} - 8 k_1 k_2 k_3 k_5^2 k_6 k_8 k_9 k_{11}^3 k_{12} - 8 k_1 k_2 k_3 \\
& k_5^2 k_6 k_9^2 k_{10} k_{11}^2 k_{12} - 8 k_1 k_2 k_3 k_5^2 k_6 k_9^2 k_{11}^3 k_{12} - 4 k_1 k_2 k_3 k_5^2 k_8 k_9 k_{10} k_{11}^2 k_{12} k_{13} \\
& - 4 k_1 k_2 k_3 k_5^2 k_8 k_9 k_{11}^3 k_{12} k_{13} - 4 k_1 k_2 k_3 k_5^2 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 4 k_1 k_2 k_3 k_5^2 k_9^2 \\
& k_{11}^3 k_{12} k_{13} - 10 k_1 k_2 k_3 k_5 k_6^2 k_8 k_9 k_{10} k_{11}^2 k_{12} - 10 k_1 k_2 k_3 k_5 k_6^2 k_8 k_9 k_{11}^3 k_{12} \\
& - 10 k_1 k_2 k_3 k_5 k_6^2 k_9^2 k_{10} k_{11}^2 k_{12} - 10 k_1 k_2 k_3 k_5 k_6^2 k_9^2 k_{11}^3 k_{12} - 12 k_1 k_2 k_3 k_5 k_6 k_8 k_9 k_{10} \\
& k_{11}^2 k_{12} k_{13} - 12 k_1 k_2 k_3 k_5 k_6 k_8 k_9 k_{11}^3 k_{12} k_{13} - 12 k_1 k_2 k_3 k_5 k_6 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} \\
& - 12 k_1 k_2 k_3 k_5 k_6 k_9^2 k_{11}^3 k_{12} k_{13} - 2 k_1 k_2 k_3 k_5 k_8 k_9 k_{10} k_{11}^2 k_{12} k_{13}^2 - 2 k_1 k_2 k_3 k_5 k_8 k_9 \\
& k_{11}^3 k_{12} k_{13}^2 - 2 k_1 k_2 k_3 k_5 k_9^2 k_{10} k_{11}^2 k_{12} k_{13}^2 - 2 k_1 k_2 k_3 k_5 k_9^2 k_{11}^3 k_{12} k_{13}^2 - 4 k_1 k_2 k_3 \\
& k_6^3 k_8 k_9 k_{10} k_{11}^2 k_{12} - 4 k_1 k_2 k_3 k_6^3 k_8 k_9 k_{11}^3 k_{12} - 4 k_1 k_2 k_3 k_6^3 k_9^2 k_{10} k_{11}^2 k_{12} - 4 k_1 k_2 k_3 k_6^3 \\
& k_9^2 k_{11}^3 k_{12} - 8 k_1 k_2 k_3 k_6^2 k_8 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 8 k_1 k_2 k_3 k_6^2 k_8 k_9 k_{11}^3 k_{12} k_{13} - 8 k_1 k_2 k_3 \\
& k_6^2 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 8 k_1 k_2 k_3 k_6^2 k_9^2 k_{11}^3 k_{12} k_{13} - 4 k_1 k_2 k_3 k_6 k_8 k_9 k_{10} k_{11}^2 k_{12} k_{13}^2 \\
& - 4 k_1 k_2 k_3 k_6 k_8 k_9 k_{11}^3 k_{12} k_{13}^2 - 4 k_1 k_2 k_3 k_6 k_9^2 k_{10} k_{11}^2 k_{12} k_{13}^2 - 4 k_1 k_2 k_3 k_6 k_9^2 k_{11}^3 k_{12} \\
& k_{13}^2 - 2 k_1 k_2 k_5^2 k_6 k_8 k_9 k_{10} k_{11}^2 k_{12}^2 - 2 k_1 k_2 k_5^2 k_6 k_8 k_9 k_{11}^3 k_{12}^2 - 2 k_1 k_2 k_5^2 k_6 k_9^2 k_{10} k_{11}^2 \\
& k_{12}^2 - 2 k_1 k_2 k_5^2 k_6 k_9^2 k_{11}^3 k_{12}^2 - 4 k_1 k_2 k_5 k_6^2 k_8 k_9 k_{10} k_{11}^2 k_{12}^2 - 4 k_1 k_2 k_5 k_6^2 k_8 k_9 k_{11}^3 k_{12}^2 \\
& - 4 k_1 k_2 k_5 k_6^2 k_9^2 k_{10} k_{11}^2 k_{12}^2 - 4 k_1 k_2 k_5 k_6^2 k_9^2 k_{11}^3 k_{12}^2 - 2 k_1 k_2 k_5 k_6 k_8 k_9 k_{10} k_{11}^2 k_{12}^2 k_{13} \\
& - 2 k_1 k_2 k_5 k_6 k_8 k_9 k_{11}^3 k_{12}^2 k_{13} - 2 k_1 k_2 k_5 k_6 k_9^2 k_{10} k_{11}^2 k_{12}^2 k_{13} - 2 k_1 k_2 k_5 k_6 k_9^2 k_{11}^3 \\
& k_{12}^2 k_{13} - 2 k_1 k_2 k_6^3 k_8 k_9 k_{10} k_{11}^2 k_{12}^2 - 2 k_1 k_2 k_6^3 k_8 k_9 k_{11}^3 k_{12}^2 - 2 k_1 k_2 k_6^3 k_9^2 k_{10} k_{11}^2 k_{12}^2 \\
& - 2 k_1 k_2 k_6^3 k_9^2 k_{11}^3 k_{12}^2 - 2 k_1 k_2 k_6^2 k_8 k_9 k_{10} k_{11}^2 k_{12}^2 k_{13} - 2 k_1 k_2 k_6^2 k_8 k_9 k_{11}^3 k_{12}^2 k_{13} \\
& - 2 k_1 k_2 k_6^2 k_9^2 k_{10} k_{11}^2 k_{12}^2 k_{13} - 2 k_1 k_2 k_6^2 k_9^2 k_{11}^3 k_{12}^2 k_{13} - k_1 k_3^3 k_5^3 k_8 k_9 k_{10} k_{11}^2 - k_1 k_3^3 \\
& k_5^3 k_8 k_9 k_{11}^3 - k_1 k_3^3 k_5^3 k_9^2 k_{10} k_{11}^2 - k_1 k_3^3 k_5^3 k_9^2 k_{11}^3 - 3 k_1 k_3^3 k_5^2 k_6 k_8 k_9 k_{10} k_{11}^2 - 3 k_1 k_3^3 \\
& k_5^2 k_6 k_8 k_9 k_{11}^3 - 3 k_1 k_3^3 k_5^2 k_6 k_9^2 k_{10} k_{11}^2 - 3 k_1 k_3^3 k_5^2 k_6 k_9^2 k_{11}^3 - 3 k_1 k_3^3 k_5^2 k_8 k_9 k_{10} k_{11}^2 k_{13} \\
& - 3 k_1 k_3^3 k_5^2 k_8 k_9 k_{11}^3 k_{13} - 3 k_1 k_3^3 k_5^2 k_9^2 k_{10} k_{11}^2 k_{13} - 3 k_1 k_3^3 k_5^2 k_9^2 k_{11}^3 k_{13} - 3 k_1 k_3^3 k_5 \\
& k_6^2 k_8 k_9 k_{10} k_{11}^2 - 3 k_1 k_3^3 k_5 k_6^2 k_8 k_9 k_{11}^3 - 3 k_1 k_3^3 k_5 k_6^2 k_9^2 k_{10} k_{11}^2 - 3 k_1 k_3^3 k_5 k_6^2 k_9^2 k_{11}^3
\end{aligned}$$

$$\begin{aligned}
& -6 k_1 k_3^3 k_5 k_6 k_8 k_9 k_{10} k_{11}^2 k_{13} - 6 k_1 k_3^3 k_5 k_6 k_8 k_9 k_{11}^3 k_{13} - 6 k_1 k_3^3 k_5 k_6 k_9^2 k_{10} k_{11}^2 k_{13} \\
& - 6 k_1 k_3^3 k_5 k_6 k_9^2 k_{11}^3 k_{13} - 3 k_1 k_3^3 k_5 k_8 k_9 k_{10} k_{11}^2 k_{13}^2 - 3 k_1 k_3^3 k_5 k_8 k_9 k_{11}^3 k_{13}^2 - 3 k_1 \\
& k_3^3 k_5 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 3 k_1 k_3^3 k_5 k_9^2 k_{11}^3 k_{13}^2 - k_1 k_3^3 k_6^3 k_8 k_9 k_{10} k_{11}^2 - k_1 k_3^3 k_6^3 k_8 k_9 k_{11}^3 - k_1 \\
& k_3^3 k_6^3 k_9^2 k_{10} k_{11}^2 - k_1 k_3^3 k_6^3 k_9^2 k_{11}^3 - 3 k_1 k_3^3 k_6^2 k_8 k_9 k_{10} k_{11}^2 k_{13} - 3 k_1 k_3^3 k_6^2 k_8 k_9 k_{11}^3 k_{13} \\
& - 3 k_1 k_3^3 k_6^2 k_9^2 k_{10} k_{11}^2 k_{13} - 3 k_1 k_3^3 k_6^2 k_9^2 k_{11}^3 k_{13} - 3 k_1 k_3^3 k_6 k_8 k_9 k_{10} k_{11}^2 k_{13}^2 - 3 k_1 \\
& k_3^3 k_6 k_8 k_9 k_{11}^3 k_{13}^2 - 3 k_1 k_3^3 k_6 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 3 k_1 k_3^3 k_6 k_9^2 k_{11}^3 k_{13}^2 - k_1 k_3^3 k_8 k_9 k_{10} k_{11}^2 k_{13}^3 \\
& - k_1 k_3^3 k_8 k_9 k_{11}^3 k_{13}^3 - k_1 k_3^3 k_9^2 k_{10} k_{11}^2 k_{13}^3 - k_1 k_3^3 k_9^2 k_{11}^3 k_{13}^3 - 2 k_1 k_3^2 k_5^3 k_8 k_9 k_{10} k_{11}^2 k_{12} \\
& - 2 k_1 k_3^2 k_5^3 k_8 k_9 k_{11}^3 k_{12} - 2 k_1 k_3^2 k_5^3 k_9^2 k_{10} k_{11}^2 k_{12} - 2 k_1 k_3^2 k_5^3 k_9^2 k_{11}^3 k_{12} - 7 k_1 k_3^2 \\
& k_5^2 k_6 k_8 k_9 k_{10} k_{11}^2 k_{12} - 7 k_1 k_3^2 k_5^2 k_6 k_8 k_9 k_{11}^3 k_{12} - 7 k_1 k_3^2 k_5^2 k_6 k_9^2 k_{10} k_{11}^2 k_{12} - 7 k_1 k_3^2 \\
& k_5^2 k_6 k_9^2 k_{11}^3 k_{12} - 4 k_1 k_3^2 k_5^2 k_8 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 4 k_1 k_3^2 k_5^2 k_8 k_9 k_{11}^3 k_{12} k_{13} - 4 k_1 k_3^2 k_5^2 \\
& k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 4 k_1 k_3^2 k_5^2 k_9^2 k_{11}^3 k_{12} k_{13} - 8 k_1 k_3^2 k_5 k_6^2 k_8 k_9 k_{10} k_{11}^2 k_{12} - 8 k_1 k_3^2 k_5 \\
& k_6^2 k_8 k_9 k_{11}^3 k_{12} - 8 k_1 k_3^2 k_5 k_6^2 k_9^2 k_{10} k_{11}^2 k_{12} - 8 k_1 k_3^2 k_5 k_6^2 k_9^2 k_{11}^3 k_{12} - 10 k_1 \\
& k_3^2 k_5 k_6 k_8 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 10 k_1 k_3^2 k_5 k_6 k_8 k_9 k_{11}^3 k_{12} k_{13} - 10 k_1 k_3^2 k_5 k_6 k_9^2 k_{10} \\
& k_{11}^2 k_{12} k_{13} - 10 k_1 k_3^2 k_5 k_6 k_9^2 k_{11}^3 k_{12} k_{13} - 2 k_1 k_3^2 k_5 k_8 k_9 k_{10} k_{11}^2 k_{12} k_{13}^2 - 2 k_1 \\
& k_3^2 k_5 k_8 k_9 k_{11}^3 k_{12} k_{13}^2 - 2 k_1 k_3^2 k_5 k_9^2 k_{10} k_{11}^2 k_{12} k_{13}^2 - 2 k_1 k_3^2 k_5 k_9^2 k_{11}^3 k_{12} k_{13}^2 - 3 k_1 k_3^2 \\
& k_6 k_8 k_9 k_{10} k_{11}^2 k_{12} - 3 k_1 k_3^2 k_6^3 k_8 k_9 k_{11}^3 k_{12} - 3 k_1 k_3^2 k_6^3 k_9^2 k_{10} k_{11}^2 k_{12} - 3 k_1 k_3^2 k_6^3 k_9^2 \\
& k_{11}^3 k_{12} - 6 k_1 k_3^2 k_6^2 k_8 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 6 k_1 k_3^2 k_6^2 k_8 k_9 k_{11}^3 k_{12} k_{13} - 6 k_1 k_3^2 k_6^2 k_9^2 k_{10} \\
& k_{11}^2 k_{12} k_{13} - 6 k_1 k_3^2 k_6^2 k_9^2 k_{11}^3 k_{12} k_{13} - 3 k_1 k_3^2 k_6 k_8 k_9 k_{10} k_{11}^2 k_{12} k_{13}^2 - 3 k_1 k_3^2 k_6 k_8 k_9 \\
& k_{11}^3 k_{12} k_{13}^2 - 3 k_1 k_3^2 k_6 k_9^2 k_{10} k_{11}^2 k_{12} k_{13}^2 - 3 k_1 k_3^2 k_6 k_9^2 k_{11}^3 k_{12} k_{13}^2 - k_1 k_3 k_5^3 k_8 k_9 k_{10} k_{11}^2 \\
& k_{12}^2 - k_1 k_3 k_5^3 k_8 k_9 k_{11}^3 k_{12}^2 - k_1 k_3 k_5^3 k_9^2 k_{10} k_{11}^2 k_{12}^2 - k_1 k_3 k_5^3 k_9^2 k_{11}^3 k_{12}^2 - 5 k_1 k_3 \\
& k_5^2 k_6 k_8 k_9 k_{10} k_{11}^2 k_{12}^2 - 5 k_1 k_3 k_5^2 k_6 k_8 k_9 k_{11}^3 k_{12}^2 - 5 k_1 k_3 k_5^2 k_6 k_9^2 k_{10} k_{11}^2 k_{12}^2 - 5 k_1 k_3 \\
& k_5^2 k_6 k_9^2 k_{11}^3 k_{12}^2 - k_1 k_3 k_5^2 k_8 k_9 k_{10} k_{11}^2 k_{12}^2 k_{13} - k_1 k_3 k_5^2 k_8 k_9 k_{11}^3 k_{12}^2 k_{13} - k_1 k_3 k_5^2 k_9^2 k_{10} \\
& k_{11}^2 k_{12} k_{13} - k_1 k_3 k_5^2 k_9^2 k_{11}^3 k_{12}^2 k_{13} - 7 k_1 k_3 k_5 k_6^2 k_8 k_9 k_{10} k_{11}^2 k_{12}^2 - 7 k_1 k_3 k_5 k_6^2 k_8 k_9 k_{11}^3 \\
& k_{12}^2 - 7 k_1 k_3 k_5 k_6^2 k_9^2 k_{10} k_{11}^2 k_{12}^2 - 7 k_1 k_3 k_5 k_6^2 k_9^2 k_{11}^3 k_{12}^2 - 4 k_1 k_3 k_5 k_6 k_8 k_9 k_{10} k_{11}^2 \\
& k_{12}^2 k_{13} - 4 k_1 k_3 k_5 k_6 k_8 k_9 k_{11}^3 k_{12}^2 k_{13} - 4 k_1 k_3 k_5 k_6 k_9^2 k_{10} k_{11}^2 k_{12}^2 k_{13} - 4 k_1 k_3 k_5 k_6 k_9^2 \\
& k_{11}^3 k_{12}^2 k_{13} - 3 k_1 k_3 k_6^3 k_8 k_9 k_{10} k_{11}^2 k_{12}^2 - 3 k_1 k_3 k_6^3 k_8 k_9 k_{11}^3 k_{12}^2 - 3 k_1 k_3 k_6^3 k_9^2 k_{10} k_{11}^2 k_{12}^2 \\
& - 3 k_1 k_3 k_6^3 k_9^2 k_{11}^3 k_{12}^2 - 3 k_1 k_3 k_6^2 k_8 k_9 k_{10} k_{11}^2 k_{12}^2 k_{13} - 3 k_1 k_3 k_6^2 k_8 k_9 k_{11}^3 k_{12}^2 k_{13}
\end{aligned}$$

$$\begin{aligned}
& -3 k_1 k_3 k_6^2 k_9^2 k_{10} k_{11}^2 k_{12}^2 k_{13} - 3 k_1 k_3 k_6^2 k_9^2 k_{11}^3 k_{12}^2 k_{13} - k_1 k_5^2 k_6 k_8 k_9 k_{10} k_{11}^2 k_{12}^3 - k_1 \\
& k_5^2 k_6 k_8 k_9 k_{11}^3 k_{12}^3 - k_1 k_5^2 k_6 k_9^2 k_{10} k_{11}^2 k_{12}^3 - k_1 k_5^2 k_6 k_9^2 k_{11}^3 k_{12}^3 - 2 k_1 k_5 k_6^2 k_8 k_9 k_{10} k_{11}^2 \\
& k_{12}^3 - 2 k_1 k_5 k_6^2 k_8 k_9 k_{11}^3 k_{12}^3 - 2 k_1 k_5 k_6^2 k_9^2 k_{10} k_{11}^2 k_{12}^3 - 2 k_1 k_5 k_6^2 k_9^2 k_{11}^3 k_{12}^3 - k_1 \\
& k_6^3 k_8 k_9 k_{10} k_{11}^2 k_{12}^3 - k_1 k_6^3 k_8 k_9 k_{11}^3 k_{12}^3 - k_1 k_6^3 k_9^2 k_{10} k_{11}^2 k_{12}^3 - k_1 k_6^3 k_9^2 k_{11}^3 k_{12}^3 - k_2^3 k_4 \\
& k_5^2 k_6 k_8 k_9 k_{10}^2 k_{11} - k_2^3 k_4 k_5^2 k_6 k_8 k_9 k_{10} k_{11}^2 - k_2^3 k_4 k_5^2 k_6 k_9^2 k_{10}^2 k_{11} - k_2^3 k_4 k_5^2 k_6 k_9^2 k_{10} k_{11}^2 \\
& - 2 k_2^3 k_4 k_5 k_6^2 k_8 k_9 k_{10}^2 k_{11} - 2 k_2^3 k_4 k_5 k_6^2 k_8 k_9 k_{10} k_{11}^2 - 2 k_2^3 k_4 k_5 k_6^2 k_9^2 k_{10}^2 k_{11} - 2 \\
& k_2^3 k_4 k_5 k_6^2 k_9^2 k_{10} k_{11}^2 - 2 k_2^3 k_4 k_5 k_6 k_8 k_9 k_{10}^2 k_{11} k_{13} - 2 k_2^3 k_4 k_5 k_6 k_8 k_9 k_{10} k_{11}^2 k_{13} - 2 \\
& k_2^3 k_4 k_5 k_6 k_9^2 k_{10}^2 k_{11} k_{13} - 2 k_2^3 k_4 k_5 k_6 k_9^2 k_{10} k_{11}^2 k_{13} - k_2^3 k_4 k_6^3 k_8 k_9 k_{10}^2 k_{11} - k_2^3 k_4 \\
& k_6^3 k_8 k_9 k_{10} k_{11}^2 - k_2^3 k_4 k_6^3 k_9^2 k_{10}^2 k_{11} - k_2^3 k_4 k_6^3 k_9^2 k_{10} k_{11}^2 - 2 k_2^3 k_4 k_6^2 k_8 k_9 k_{10}^2 k_{11} k_{13} - 2 \\
& k_2^3 k_4 k_6^2 k_8 k_9 k_{10} k_{11}^2 k_{13} - 2 k_2^3 k_4 k_6^2 k_9^2 k_{10}^2 k_{11} k_{13} - 2 k_2^3 k_4 k_6^2 k_9^2 k_{10} k_{11}^2 k_{13} - \\
& k_2^3 k_4 k_6 k_8 k_9 k_{10}^2 k_{11} k_{13}^2 - k_2^3 k_4 k_6 k_8 k_9 k_{10} k_{11}^2 k_{13}^2 - k_2^3 k_4 k_6 k_9^2 k_{10}^2 k_{11} k_{13}^2 - k_2^3 k_4 k_6 \\
& k_9^2 k_{10} k_{11}^2 k_{13}^2 - 3 k_2^2 k_3 k_4 k_5^2 k_6 k_8 k_9 k_{10}^2 k_{11} - 3 k_2^2 k_3 k_4 k_5^2 k_6 k_8 k_9 k_{10} k_{11}^2 - 3 k_2^2 k_3 k_4 \\
& k_5^2 k_6 k_9^2 k_{10}^2 k_{11} - 3 k_2^2 k_3 k_4 k_5^2 k_6 k_9^2 k_{10} k_{11}^2 - k_2^2 k_3 k_4 k_5^2 k_8 k_9 k_{10}^2 k_{11} k_{13} - k_2^2 k_3 k_4 \\
& k_5^2 k_8 k_9 k_{10} k_{11}^2 k_{13} - k_2^2 k_3 k_4 k_5^2 k_9^2 k_{10}^2 k_{11} k_{13} - k_2^2 k_3 k_4 k_5^2 k_9^2 k_{10} k_{11}^2 k_{13} - 6 k_2^2 k_3 k_4 k_5 \\
& k_6^2 k_8 k_9 k_{10}^2 k_{11} - 6 k_2^2 k_3 k_4 k_5 k_6^2 k_8 k_9 k_{10} k_{11}^2 - 6 k_2^2 k_3 k_4 k_5 k_6^2 k_9^2 k_{10}^2 k_{11} - 6 k_2^2 k_3 k_4 k_5 \\
& k_6^2 k_9^2 k_{10} k_{11}^2 - 8 k_2^2 k_3 k_4 k_5 k_6 k_8 k_9 k_{10}^2 k_{11} k_{13} - 8 k_2^2 k_3 k_4 k_5 k_6 k_8 k_9 k_{10} k_{11}^2 k_{13} - 8 \\
& k_2^2 k_3 k_4 k_5 k_6 k_9^2 k_{10}^2 k_{11} k_{13} - 8 k_2^2 k_3 k_4 k_5 k_6 k_9^2 k_{10} k_{11}^2 k_{13} - 2 k_2^2 k_3 k_4 k_5 k_8 k_9 k_{10}^2 k_{11} k_{13}^2 \\
& - 2 k_2^2 k_3 k_4 k_5 k_8 k_9 k_{10} k_{11}^2 k_{13}^2 - 2 k_2^2 k_3 k_4 k_5 k_9^2 k_{10}^2 k_{11} k_{13}^2 - 2 k_2^2 k_3 k_4 k_5 k_9^2 k_{10} k_{11}^2 k_{13}^2 \\
& - 3 k_2^2 k_3 k_4 k_6^3 k_8 k_9 k_{10}^2 k_{11} - 3 k_2^2 k_3 k_4 k_6^3 k_8 k_9 k_{10} k_{11}^2 - 3 k_2^2 k_3 k_4 k_6^3 k_9^2 k_{10}^2 k_{11} - 3 \\
& k_2^2 k_3 k_4 k_6^3 k_9^2 k_{10} k_{11}^2 - 7 k_2^2 k_3 k_4 k_6^2 k_8 k_9 k_{10}^2 k_{11} k_{13} - 7 k_2^2 k_3 k_4 k_6^2 k_8 k_9 k_{10} k_{11}^2 k_{13} - 7 \\
& k_2^2 k_3 k_4 k_6^2 k_9^2 k_{10}^2 k_{11} k_{13} - 7 k_2^2 k_3 k_4 k_6^2 k_9^2 k_{10} k_{11}^2 k_{13} - 5 k_2^2 k_3 k_4 k_6 k_8 k_9 k_{10}^2 k_{11} k_{13}^2 - 5 \\
& k_2^2 k_3 k_4 k_6 k_8 k_9 k_{10} k_{11}^2 k_{13}^2 - 5 k_2^2 k_3 k_4 k_6 k_9^2 k_{10}^2 k_{11} k_{13}^2 - 5 k_2^2 k_3 k_4 k_6 k_9^2 k_{10} k_{11}^2 k_{13}^2 - \\
& k_2^2 k_3 k_4 k_8 k_9 k_{10}^2 k_{11} k_{13}^3 - k_2^2 k_3 k_4 k_8 k_9 k_{10} k_{11}^2 k_{13}^3 - k_2^2 k_3 k_4 k_9^2 k_{10}^2 k_{11} k_{13}^3 - k_2^2 k_3 k_4 \\
& k_9^2 k_{10} k_{11}^2 k_{13}^3 - 3 k_2^2 k_4 k_5^2 k_6 k_8 k_9 k_{10}^2 k_{11} k_{12} - 3 k_2^2 k_4 k_5^2 k_6 k_8 k_9 k_{10} k_{11}^2 k_{12} - 3 k_2^2 k_4 \\
& k_5^2 k_6 k_9^2 k_{10}^2 k_{11} k_{12} - 3 k_2^2 k_4 k_5^2 k_6 k_9^2 k_{10} k_{11}^2 k_{12} - 6 k_2^2 k_4 k_5 k_6^2 k_8 k_9 k_{10}^2 k_{11} k_{12} - 6 \\
& k_2^2 k_4 k_5 k_6^2 k_8 k_9 k_{10} k_{11}^2 k_{12} - 6 k_2^2 k_4 k_5 k_6^2 k_9^2 k_{10}^2 k_{11} k_{12} - 6 k_2^2 k_4 k_5 k_6^2 k_9^2 k_{10} k_{11}^2 k_{12} - 4 \\
& k_2^2 k_4 k_5 k_6 k_8 k_9 k_{10}^2 k_{11} k_{12} k_{13} - 4 k_2^2 k_4 k_5 k_6 k_8 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 4 k_2^2 k_4 k_5 k_6 k_9^2
\end{aligned}$$

$$\begin{aligned}
& k_{10}^2 k_{11} k_{12} k_{13} - 4 k_2^2 k_4 k_5 k_6 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 3 k_2^2 k_4 k_6^3 k_8 k_9 k_{10}^2 k_{11} k_{12} - 3 k_2^2 k_4 \\
& k_6^3 k_8 k_9 k_{10} k_{11}^2 k_{12} - 3 k_2^2 k_4 k_6^3 k_9^2 k_{10}^2 k_{11} k_{12} - 3 k_2^2 k_4 k_6^3 k_9^2 k_{10} k_{11}^2 k_{12} - 4 k_2^2 k_4 k_6^2 k_8 k_9 \\
& k_{10}^2 k_{11} k_{12} k_{13} - 4 k_2^2 k_4 k_6^2 k_8 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 4 k_2^2 k_4 k_6^2 k_9^2 k_{10}^2 k_{11} k_{12} k_{13} - 4 k_2^2 k_4 k_6^2 \\
& k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - k_2^2 k_4 k_6 k_8 k_9 k_{10}^2 k_{11} k_{12} k_{13}^2 - k_2^2 k_4 k_6 k_8 k_9 k_{10} k_{11}^2 k_{12} k_{13}^2 - k_2^2 k_4 k_6 \\
& k_9^2 k_{10}^2 k_{11} k_{12} k_{13}^2 - k_2^2 k_4 k_6 k_9^2 k_{10} k_{11}^2 k_{12} k_{13}^2 - 3 k_2 k_3^2 k_4 k_5^2 k_6 k_8 k_9 k_{10}^2 k_{11} - 3 k_2 k_3^2 k_4 \\
& k_5^2 k_6 k_8 k_9 k_{10} k_{11}^2 - 3 k_2 k_3^2 k_4 k_5^2 k_6 k_9^2 k_{10}^2 k_{11} - 3 k_2 k_3^2 k_4 k_5^2 k_6 k_9^2 k_{10} k_{11}^2 - 2 k_2 k_3^2 k_4 \\
& k_5^2 k_8 k_9 k_{10}^2 k_{11} k_{13} - 2 k_2 k_3^2 k_4 k_5^2 k_8 k_9 k_{10} k_{11}^2 k_{13} - 2 k_2 k_3^2 k_4 k_5^2 k_9^2 k_{10}^2 k_{11} k_{13} - 2 k_2 \\
& k_3^2 k_4 k_5^2 k_9^2 k_{10} k_{11}^2 k_{13} - 6 k_2 k_3^2 k_4 k_5 k_6^2 k_8 k_9 k_{10}^2 k_{11} - 6 k_2 k_3^2 k_4 k_5 k_6^2 k_8 k_9 k_{10} k_{11}^2 - 6 k_2 \\
& k_3^2 k_4 k_5 k_6^2 k_9^2 k_{10}^2 k_{11} - 6 k_2 k_3^2 k_4 k_5 k_6^2 k_9^2 k_{10} k_{11}^2 - 10 k_2 k_3^2 k_4 k_5 k_6 k_8 k_9 k_{10}^2 k_{11} k_{13} \\
& - 10 k_2 k_3^2 k_4 k_5 k_6 k_8 k_9 k_{10} k_{11}^2 k_{13} - 10 k_2 k_3^2 k_4 k_5 k_6 k_9^2 k_{10}^2 k_{11} k_{13} - 10 k_2 k_3^2 k_4 k_5 k_6 \\
& k_9^2 k_{10} k_{11}^2 k_{13} - 4 k_2 k_3^2 k_4 k_5 k_8 k_9 k_{10}^2 k_{11} k_{13}^2 - 4 k_2 k_3^2 k_4 k_5 k_8 k_9 k_{10} k_{11}^2 k_{13}^2 - 4 k_2 \\
& k_3^2 k_4 k_5 k_9^2 k_{10}^2 k_{11} k_{13}^2 - 4 k_2 k_3^2 k_4 k_5 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 3 k_2 k_3^2 k_4 k_6^3 k_8 k_9 k_{10}^2 k_{11} - 3 k_2 k_3^2 k_4 \\
& k_6^3 k_8 k_9 k_{10} k_{11}^2 - 3 k_2 k_3^2 k_4 k_6^3 k_9^2 k_{10}^2 k_{11} - 3 k_2 k_3^2 k_4 k_6^3 k_9^2 k_{10} k_{11}^2 - 8 k_2 k_3^2 k_4 k_6^2 k_8 k_9 \\
& k_{10}^2 k_{11} k_{13} - 8 k_2 k_3^2 k_4 k_6^2 k_8 k_9 k_{10} k_{11}^2 k_{13} - 8 k_2 k_3^2 k_4 k_6^2 k_9^2 k_{10}^2 k_{11} k_{13} - 8 k_2 k_3^2 k_4 k_6^2 \\
& k_9^2 k_{10} k_{11}^2 k_{13} - 7 k_2 k_3^2 k_4 k_6 k_8 k_9 k_{10}^2 k_{11} k_{13}^2 - 7 k_2 k_3^2 k_4 k_6 k_8 k_9 k_{10} k_{11}^2 k_{13}^2 - 7 k_2 \\
& k_3^2 k_4 k_6 k_9^2 k_{10}^2 k_{11} k_{13}^2 - 7 k_2 k_3^2 k_4 k_6 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 2 k_2 k_3^2 k_4 k_8 k_9 k_{10}^2 k_{11} k_{13}^3 - 2 k_2 \\
& k_3^2 k_4 k_8 k_9 k_{10} k_{11}^2 k_{13}^3 - 2 k_2 k_3^2 k_4 k_9^2 k_{10}^2 k_{11} k_{13}^3 - 2 k_2 k_3^2 k_4 k_9^2 k_{10} k_{11}^2 k_{13}^3 - 6 k_2 k_3 k_4 \\
& k_5^2 k_6 k_8 k_9 k_{10}^2 k_{11} k_{12} - 6 k_2 k_3 k_4 k_5^2 k_6 k_8 k_9 k_{10} k_{11}^2 k_{12} - 6 k_2 k_3 k_4 k_5^2 k_6 k_9^2 k_{10}^2 k_{11} k_{12} \\
& - 6 k_2 k_3 k_4 k_5^2 k_6 k_9^2 k_{10} k_{11}^2 k_{12} - 2 k_2 k_3 k_4 k_5^2 k_8 k_9 k_{10}^2 k_{11} k_{12} k_{13} - 2 k_2 k_3 k_4 \\
& k_5^2 k_8 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 2 k_2 k_3 k_4 k_5^2 k_9^2 k_{10}^2 k_{11} k_{12} k_{13} - 2 k_2 k_3 k_4 k_5^2 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} \\
& - 12 k_2 k_3 k_4 k_5 k_6^2 k_8 k_9 k_{10}^2 k_{11} k_{12} - 12 k_2 k_3 k_4 k_5 k_6^2 k_8 k_9 k_{10} k_{11}^2 k_{12} - 12 k_2 k_3 k_4 k_5 k_6^2 \\
& k_9^2 k_{10} k_{11} k_{12} - 12 k_2 k_3 k_4 k_5 k_6^2 k_9^2 k_{10}^2 k_{11} k_{12} - 12 k_2 k_3 k_4 k_5 k_6 k_8 k_9 k_{10}^2 k_{11} k_{12} k_{13} \\
& - 12 k_2 k_3 k_4 k_5 k_6 k_8 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 12 k_2 k_3 k_4 k_5 k_6 k_9^2 k_{10}^2 k_{11} k_{12} k_{13} \\
& - 12 k_2 k_3 k_4 k_5 k_6 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 2 k_2 k_3 k_4 k_5 k_8 k_9 k_{10}^2 k_{11} k_{12} k_{13}^2 \\
& - 2 k_2 k_3 k_4 k_5 k_8 k_9 k_{10} k_{11}^2 k_{12} k_{13}^2 - 2 k_2 k_3 k_4 k_5 k_9^2 k_{10}^2 k_{11} k_{12} k_{13}^2 - 2 k_2 k_3 k_4 k_5 k_9^2 k_{10} \\
& k_{11}^2 k_{12} k_{13}^2 - 6 k_2 k_3 k_4 k_6^3 k_8 k_9 k_{10}^2 k_{11} k_{12} - 6 k_2 k_3 k_4 k_6^3 k_8 k_9 k_{10} k_{11}^2 k_{12} - 6 k_2 k_3 k_4 k_6^3 \\
& k_9^2 k_{10} k_{11} k_{12} - 6 k_2 k_3 k_4 k_6^3 k_9^2 k_{10}^2 k_{11} k_{12} - 10 k_2 k_3 k_4 k_6^2 k_8 k_9 k_{10}^2 k_{11} k_{12} k_{13}
\end{aligned}$$

$$\begin{aligned}
& -10 k_2 k_3 k_4 k_6^2 k_8 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 10 k_2 k_3 k_4 k_6^2 k_9^2 k_{10}^2 k_{11} k_{12} k_{13} - 10 k_2 k_3 k_4 k_6^2 \\
& k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 4 k_2 k_3 k_4 k_6 k_8 k_9 k_{10}^2 k_{11} k_{12} k_{13}^2 - 4 k_2 k_3 k_4 k_6 k_8 k_9 k_{10} k_{11}^2 k_{12}^2 k_{13} \\
& - 4 k_2 k_3 k_4 k_6 k_9^2 k_{10}^2 k_{11} k_{12} k_{13}^2 - 4 k_2 k_3 k_4 k_6 k_9^2 k_{10} k_{11}^2 k_{12} k_{13}^2 - 3 k_2 k_4 k_5^2 k_6 k_8 k_9 \\
& k_{10}^2 k_{11} k_{12}^2 - 3 k_2 k_4 k_5^2 k_6 k_8 k_9 k_{10} k_{11}^2 k_{12}^2 - 3 k_2 k_4 k_5^2 k_6 k_9^2 k_{10}^2 k_{11} k_{12}^2 - 3 k_2 k_4 k_5^2 k_6 \\
& k_9^2 k_{10} k_{11}^2 k_{12}^2 - 6 k_2 k_4 k_5 k_6^2 k_8 k_9 k_{10}^2 k_{11} k_{12}^2 - 6 k_2 k_4 k_5 k_6^2 k_8 k_9 k_{10} k_{11}^2 k_{12}^2 - 6 k_2 k_4 k_5 \\
& k_6^2 k_9^2 k_{10}^2 k_{11} k_{12}^2 - 6 k_2 k_4 k_5 k_6^2 k_9^2 k_{10} k_{11}^2 k_{12}^2 - 2 k_2 k_4 k_5 k_6 k_8 k_9 k_{10}^2 k_{11} k_{12}^2 k_{13} \\
& - 2 k_2 k_4 k_5 k_6 k_8 k_9 k_{10} k_{11}^2 k_{12}^2 k_{13} - 2 k_2 k_4 k_5 k_6 k_9^2 k_{10}^2 k_{11} k_{12}^2 k_{13} - 2 k_2 k_4 k_5 k_6 k_9^2 k_{10} \\
& k_{11}^2 k_{12}^2 k_{13} - 3 k_2 k_4 k_6^3 k_8 k_9 k_{10}^2 k_{11} k_{12}^2 - 3 k_2 k_4 k_6^3 k_8 k_9 k_{10} k_{11}^2 k_{12}^2 - 3 k_2 k_4 k_6^3 k_9^2 \\
& k_{10}^2 k_{11} k_{12}^2 - 3 k_2 k_4 k_6^3 k_9^2 k_{10} k_{11}^2 k_{12}^2 - 2 k_2 k_4 k_6^2 k_8 k_9 k_{10}^2 k_{11} k_{12}^2 k_{13} - 2 k_2 k_4 \\
& k_6^2 k_8 k_9 k_{10} k_{11}^2 k_{12}^2 k_{13} - 2 k_2 k_4 k_6^2 k_9^2 k_{10}^2 k_{11} k_{12}^2 k_{13} - 2 k_2 k_4 k_6^2 k_9^2 k_{10} k_{11}^2 k_{12}^2 k_{13} - k_3^3 k_4 \\
& k_5^2 k_6 k_8 k_9 k_{10}^2 k_{11} - k_3^3 k_4 k_5^2 k_6 k_8 k_9 k_{10} k_{11}^2 - k_3^3 k_4 k_5^2 k_6 k_9^2 k_{10}^2 k_{11} - k_3^3 k_4 k_5^2 k_6 k_9^2 k_{10} k_{11}^2 \\
& - k_3^3 k_4 k_5^2 k_8 k_9 k_{10}^2 k_{11} k_{13} - k_3^3 k_4 k_5^2 k_8 k_9 k_{10} k_{11}^2 k_{13} - k_3^3 k_4 k_5^2 k_9^2 k_{10}^2 k_{11} k_{13} - k_3^3 k_4 k_5^2 \\
& k_9^2 k_{10} k_{11}^2 k_{13} - 2 k_3^3 k_4 k_5 k_6^2 k_8 k_9 k_{10}^2 k_{11} - 2 k_3^3 k_4 k_5 k_6^2 k_8 k_9 k_{10} k_{11}^2 - 2 k_3^3 k_4 k_5 k_6^2 k_9^2 \\
& k_{10}^2 k_{11} - 2 k_3^3 k_4 k_5 k_6^2 k_9^2 k_{10} k_{11}^2 - 4 k_3^3 k_4 k_5 k_6 k_8 k_9 k_{10}^2 k_{11} k_{13} - 4 k_3^3 k_4 k_5 k_6 k_8 k_9 k_{10} \\
& k_{11}^2 k_{13} - 4 k_3^3 k_4 k_5 k_6 k_9^2 k_{10}^2 k_{11} k_{13} - 4 k_3^3 k_4 k_5 k_6 k_9^2 k_{10} k_{11}^2 k_{13} - 2 k_3^3 k_4 k_5 k_8 k_9 k_{10}^2 k_{11} \\
& k_{13}^2 - 2 k_3^3 k_4 k_5 k_8 k_9 k_{10} k_{11}^2 k_{13}^2 - 2 k_3^3 k_4 k_5 k_9^2 k_{10}^2 k_{11} k_{13}^2 - 2 k_3^3 k_4 k_5 k_9^2 k_{10} k_{11}^2 k_{13}^2 - \\
& k_3^3 k_4 k_6^3 k_8 k_9 k_{10}^2 k_{11} - k_3^3 k_4 k_6^3 k_8 k_9 k_{10} k_{11}^2 - k_3^3 k_4 k_6^3 k_9^2 k_{10}^2 k_{11} - k_3^3 k_4 k_6^3 k_9^2 k_{10} k_{11}^2 - 3 \\
& k_3^3 k_4 k_6^2 k_8 k_9 k_{10}^2 k_{11} k_{13} - 3 k_3^3 k_4 k_6^2 k_8 k_9 k_{10} k_{11}^2 k_{13} - 3 k_3^3 k_4 k_6^2 k_9^2 k_{10}^2 k_{11} k_{13} - 3 k_3^3 k_4 \\
& k_6^2 k_9^2 k_{10} k_{11}^2 k_{13} - 3 k_3^3 k_4 k_6 k_8 k_9 k_{10}^2 k_{11} k_{13}^2 - 3 k_3^3 k_4 k_6 k_8 k_9 k_{10} k_{11}^2 k_{13}^2 - 3 k_3^3 k_4 k_6 k_9^2 \\
& k_{10}^2 k_{11} k_{13}^2 - 3 k_3^3 k_4 k_6 k_9^2 k_{10} k_{11}^2 k_{13}^2 - k_3^3 k_4 k_8 k_9 k_{10}^2 k_{11} k_{13}^3 - k_3^3 k_4 k_8 k_9 k_{10} k_{11}^2 k_{13}^3 - \\
& k_3^3 k_4 k_9^2 k_{10}^2 k_{11} k_{13}^3 - k_3^3 k_4 k_9^2 k_{10} k_{11}^2 k_{13}^3 - 3 k_3^2 k_4 k_5^2 k_6 k_8 k_9 k_{10}^2 k_{11} k_{12} - 3 k_3^2 k_4 \\
& k_5^2 k_6 k_8 k_9 k_{10} k_{11}^2 k_{12} - 3 k_3^2 k_4 k_5^2 k_6 k_9^2 k_{10}^2 k_{11} k_{12} - 3 k_3^2 k_4 k_5^2 k_6 k_9^2 k_{10} k_{11}^2 k_{12} - 2 k_3^2 k_4 \\
& k_5^2 k_8 k_9 k_{10}^2 k_{11} k_{12} k_{13} - 2 k_3^2 k_4 k_5^2 k_8 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 2 k_3^2 k_4 k_5^2 k_9^2 k_{10}^2 k_{11} k_{12} k_{13} - 2 \\
& k_3^2 k_4 k_5^2 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 6 k_3^2 k_4 k_5 k_6^2 k_8 k_9 k_{10}^2 k_{11} k_{12} - 6 k_3^2 k_4 k_5 k_6^2 k_8 k_9 k_{10} k_{11}^2 k_{12} \\
& - 6 k_3^2 k_4 k_5 k_6^2 k_9^2 k_{10}^2 k_{11} k_{12} - 6 k_3^2 k_4 k_5 k_6^2 k_9^2 k_{10} k_{11}^2 k_{12} - 8 k_3^2 k_4 k_5 k_6 k_8 k_9 \\
& k_{10}^2 k_{11} k_{12} k_{13} - 8 k_3^2 k_4 k_5 k_6 k_8 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 8 k_3^2 k_4 k_5 k_6 k_9^2 k_{10}^2 k_{11} k_{12} k_{13} - 8 \\
& k_3^2 k_4 k_5 k_6 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 2 k_3^2 k_4 k_5 k_8 k_9 k_{10}^2 k_{11} k_{12} k_{13}^2 - 2 k_3^2 k_4 k_5 k_8 k_9 k_{10} k_{11}^2 k_{12}
\end{aligned}$$

$$\begin{aligned}
& k_{13}^2 - 2 k_3^2 k_4 k_5 k_9^2 k_{10}^2 k_{11} k_{12} k_{13}^2 - 2 k_3^2 k_4 k_5 k_9^2 k_{10} k_{11}^2 k_{12} k_{13}^2 - 3 k_3^2 k_4 k_6^3 k_8 k_9 \\
& k_{10}^2 k_{11} k_{12} - 3 k_3^2 k_4 k_6^3 k_8 k_9 k_{10} k_{11}^2 k_{12} - 3 k_3^2 k_4 k_6^3 k_9^2 k_{10}^2 k_{11} k_{12} - 3 k_3^2 k_4 k_6^3 k_9^2 k_{10} \\
& k_{11}^2 k_{12} - 6 k_3^2 k_4 k_6^2 k_8 k_9 k_{10}^2 k_{11} k_{12} k_{13} - 6 k_3^2 k_4 k_6^2 k_8 k_9 k_{10} k_{11}^2 k_{12} k_{13} - 6 k_3^2 k_4 k_6^2 k_9^2 \\
& k_{10}^2 k_{11} k_{12} k_{13} - 6 k_3^2 k_4 k_6^2 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 3 k_3^2 k_4 k_6 k_8 k_9 k_{10}^2 k_{11} k_{12} k_{13}^2 - 3 \\
& k_3^2 k_4 k_6 k_8 k_9 k_{10} k_{11}^2 k_{12} k_{13}^2 - 3 k_3^2 k_4 k_6 k_9^2 k_{10}^2 k_{11} k_{12} k_{13}^2 - 3 k_3^2 k_4 k_6 k_9^2 k_{10} k_{11}^2 k_{12} k_{13}^2 \\
& - 3 k_3 k_4 k_5^2 k_6 k_8 k_9 k_{10}^2 k_{11} k_{12}^2 - 3 k_3 k_4 k_5^2 k_6 k_8 k_9 k_{10} k_{11}^2 k_{12}^2 - 3 k_3 k_4 k_5^2 k_6 k_9^2 k_{10}^2 k_{11} \\
& k_{12}^2 - 3 k_3 k_4 k_5^2 k_6 k_9^2 k_{10} k_{11}^2 k_{12}^2 - k_3 k_4 k_5^2 k_8 k_9 k_{10}^2 k_{11} k_{12}^2 k_{13} - k_3 k_4 k_5^2 k_8 k_9 k_{10} k_{11}^2 \\
& k_{12}^2 k_{13} - k_3 k_4 k_5^2 k_9^2 k_{10}^2 k_{11} k_{12}^2 k_{13} - k_3 k_4 k_5^2 k_9^2 k_{10} k_{11}^2 k_{12}^2 k_{13} - 6 k_3 k_4 k_5 k_6^2 k_8 k_9 \\
& k_{10}^2 k_{11} k_{12}^2 - 6 k_3 k_4 k_5 k_6^2 k_8 k_9 k_{10} k_{11}^2 k_{12}^2 - 6 k_3 k_4 k_5 k_6^2 k_9^2 k_{10}^2 k_{11} k_{12}^2 - 6 k_3 k_4 k_5 k_6^2 \\
& k_9^2 k_{10} k_{11}^2 k_{12}^2 - 4 k_3 k_4 k_5 k_6 k_8 k_9 k_{10}^2 k_{11} k_{12}^2 k_{13} - 4 k_3 k_4 k_5 k_6 k_8 k_9 k_{10} k_{11}^2 k_{12}^2 k_{13} \\
& - 4 k_3 k_4 k_5 k_6 k_9^2 k_{10}^2 k_{11} k_{12}^2 k_{13} - 4 k_3 k_4 k_5 k_6 k_9^2 k_{10} k_{11}^2 k_{12}^2 k_{13} - 3 k_3 k_4 k_6^3 k_8 k_9 k_{10}^2 k_{11} \\
& k_{12}^2 - 3 k_3 k_4 k_6^3 k_8 k_9 k_{10} k_{11}^2 k_{12}^2 - 3 k_3 k_4 k_6^3 k_9^2 k_{10}^2 k_{11} k_{12}^2 - 3 k_3 k_4 k_6^3 k_9^2 k_{10} k_{11}^2 k_{12}^2 \\
& - 3 k_3 k_4 k_6^2 k_8 k_9 k_{10}^2 k_{11} k_{12}^2 k_{13} - 3 k_3 k_4 k_6^2 k_8 k_9 k_{10} k_{11}^2 k_{12}^2 k_{13} - 3 k_3 k_4 k_6^2 k_9^2 k_{10}^2 k_{11} \\
& k_{12}^2 k_{13} - 3 k_3 k_4 k_6^2 k_9^2 k_{10} k_{11}^2 k_{12}^2 k_{13} - k_4 k_5^2 k_6 k_8 k_9 k_{10}^2 k_{11} k_{12}^3 - k_4 k_5^2 k_6 k_8 k_9 k_{10} k_{11}^2 k_{12}^3 \\
& - k_4 k_5^2 k_6 k_9^2 k_{10}^2 k_{11} k_{12}^3 - k_4 k_5^2 k_6 k_9^2 k_{10} k_{11}^2 k_{12}^3 - 2 k_4 k_5 k_6^2 k_8 k_9 k_{10}^2 k_{11} k_{12}^3 - 2 k_4 k_5 \\
& k_6^2 k_8 k_9 k_{10} k_{11}^2 k_{12}^3 - 2 k_4 k_5 k_6^2 k_9^2 k_{10}^2 k_{11} k_{12}^3 - 2 k_4 k_5 k_6^2 k_9^2 k_{10} k_{11}^2 k_{12}^3 - k_4 k_6^3 k_8 k_9 \\
& k_{10}^2 k_{11} k_{12}^3 - k_4 k_6^3 k_8 k_9 k_{10} k_{11}^2 k_{12}^3 - k_4 k_6^3 k_9^2 k_{10}^2 k_{11} k_{12}^3 - k_4 k_6^3 k_9^2 k_{10} k_{11}^2 k_{12}^3) x_3 x_7 \\
& + k_7 \left(-k_2^3 k_5^3 k_7 k_9^2 k_{10} k_{11}^2 - k_2^3 k_5^3 k_7 k_9^2 k_{11}^3 - 3 k_2^3 k_5^2 k_6 k_7 k_9^2 k_{10} k_{11}^2 - 3 k_2^3 k_5^2 k_6 k_7 k_9^2 k_{11}^3 \right. \\
& - 3 k_2^3 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 3 k_2^3 k_5^2 k_7 k_9^2 k_{11}^3 k_{13} - 3 k_2^3 k_5 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 - 3 k_2^3 k_5 k_6^2 k_7 \\
& k_9^2 k_{11}^3 - 6 k_2^3 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 6 k_2^3 k_5 k_6 k_7 k_9^2 k_{11}^3 k_{13} - 3 k_2^3 k_5 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 3 \\
& k_2^3 k_5 k_7 k_9^2 k_{11}^3 k_{13}^2 - k_2^3 k_6^3 k_7 k_9^2 k_{10} k_{11}^2 - k_2^3 k_6^3 k_7 k_9^2 k_{11}^3 - 3 k_2^3 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 3 k_2^3 \\
& k_6^2 k_7 k_9^2 k_{11}^3 k_{13} - 3 k_2^3 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 3 k_2^3 k_6 k_7 k_9^2 k_{11}^3 k_{13}^2 - k_2^3 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^3 - \\
& k_2^3 k_7 k_9^2 k_{11}^3 k_{13}^3 - 3 k_2^2 k_3 k_5^3 k_7 k_9^2 k_{10} k_{11}^2 - 3 k_2^2 k_3 k_5^3 k_7 k_9^2 k_{11}^3 - 9 k_2^2 k_3 k_5^2 k_6 k_7 k_9^2 k_{10} k_{11}^2 \\
& - 9 k_2^2 k_3 k_5^2 k_6 k_7 k_9^2 k_{11}^3 - 9 k_2^2 k_3 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 9 k_2^2 k_3 k_5^2 k_7 k_9^2 k_{11}^3 k_{13} - 9 \\
& k_2^2 k_3 k_5 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 - 9 k_2^2 k_3 k_5 k_6^2 k_7 k_9^2 k_{11}^3 - 18 k_2^2 k_3 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 18 \\
& k_2^2 k_3 k_5 k_6 k_7 k_9^2 k_{11}^3 k_{13} - 9 k_2^2 k_3 k_5 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 9 k_2^2 k_3 k_5 k_7 k_9^2 k_{11}^3 k_{13}^2 - 3 k_2^2 k_3 \\
& k_6^3 k_7 k_9^2 k_{10} k_{11}^2 - 3 k_2^2 k_3 k_6^3 k_7 k_9^2 k_{11}^3 - 9 k_2^2 k_3 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 9 k_2^2 k_3 k_6^2 k_7 k_9^2 k_{11}^3 k_{13}
\end{aligned}$$

$$\begin{aligned}
& -9 k_2^2 k_3 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 9 k_2^2 k_3 k_6 k_7 k_9^2 k_{11}^3 k_{13}^2 - 3 k_2^2 k_3 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^3 - 3 \\
& k_2^2 k_3 k_7 k_9^2 k_{11}^3 k_{13}^3 - 3 k_2^2 k_5^3 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - 3 k_2^2 k_5^3 k_7 k_9^2 k_{11}^3 k_{12} - 9 k_2^2 k_5^2 k_6 k_7 k_9^2 k_{10} \\
& k_{11}^2 k_{12} - 9 k_2^2 k_5^2 k_6 k_7 k_9^2 k_{11}^3 k_{12} - 6 k_2^2 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 6 k_2^2 k_5^2 k_7 k_9^2 k_{11}^3 k_{12} k_{13} \\
& - 9 k_2^2 k_5^2 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - 9 k_2^2 k_5^2 k_6 k_7 k_9^2 k_{11}^3 k_{12} - 12 k_2^2 k_5^2 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} \\
& - 12 k_2^2 k_5^2 k_6 k_7 k_9^2 k_{11}^3 k_{12} k_{13} - 3 k_2^2 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13}^2 - 3 k_2^2 k_5^2 k_7 k_9^2 k_{11}^3 k_{12} k_{13}^2 \\
& - 3 k_2^2 k_6^3 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - 3 k_2^2 k_6^3 k_7 k_9^2 k_{11}^3 k_{12} - 6 k_2^2 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 6 k_2^2 \\
& k_6^2 k_7 k_9^2 k_{11}^3 k_{12} k_{13} - 3 k_2^2 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13}^2 - 3 k_2^2 k_6^2 k_7 k_9^2 k_{11}^3 k_{12} k_{13}^2 - 3 k_2^2 k_3^2 k_5^2 k_7 \\
& k_9^2 k_{10} k_{11}^2 - 3 k_2^2 k_3^2 k_5^2 k_7 k_9^2 k_{11}^3 - 9 k_2^2 k_3^2 k_5^2 k_6 k_7 k_9^2 k_{10} k_{11}^2 - 9 k_2^2 k_3^2 k_5^2 k_6 k_7 k_9^2 k_{11}^3 - 9 k_2^2 \\
& k_3^2 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 9 k_2^2 k_3^2 k_5^2 k_7 k_9^2 k_{11}^3 k_{13} - 9 k_2^2 k_3^2 k_5^2 k_6 k_7 k_9^2 k_{10} k_{11}^2 - 9 k_2^2 k_3^2 k_5^2 \\
& k_6^2 k_7 k_9^2 k_{11}^3 - 18 k_2^2 k_3^2 k_5^2 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 18 k_2^2 k_3^2 k_5^2 k_6 k_7 k_9^2 k_{11}^3 k_{13} - 9 k_2^2 k_3^2 k_5^2 k_7 \\
& k_9^2 k_{10} k_{11}^2 k_{13}^2 - 9 k_2^2 k_3^2 k_5^2 k_7 k_9^2 k_{11}^3 k_{13}^2 - 3 k_2^2 k_3^2 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 - 3 k_2^2 k_3^2 k_6^2 k_7 k_9^2 k_{11}^3 \\
& - 9 k_2^2 k_3^2 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 9 k_2^2 k_3^2 k_6^2 k_7 k_9^2 k_{11}^3 k_{13} - 9 k_2^2 k_3^2 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 9 k_2^2 \\
& k_3^2 k_6^2 k_7 k_9^2 k_{11}^3 k_{13}^2 - 3 k_2^2 k_3^2 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 3 k_2^2 k_3^2 k_7 k_9^2 k_{11}^3 k_{13}^2 - 6 k_2^2 k_3^2 k_5^2 k_7 k_9^2 k_{10} \\
& k_{11}^2 k_{12} - 6 k_2^2 k_3^2 k_5^2 k_7 k_9^2 k_{11}^3 k_{12} - 18 k_2^2 k_3^2 k_5^2 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - 18 k_2^2 k_3^2 k_5^2 k_6 k_7 k_9^2 \\
& k_{11}^3 k_{12} - 12 k_2^2 k_3^2 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 12 k_2^2 k_3^2 k_5^2 k_7 k_9^2 k_{11}^3 k_{12} k_{13} - 18 k_2^2 k_3^2 k_5^2 k_6^2 k_7 \\
& k_9^2 k_{10} k_{11}^2 k_{12} - 18 k_2^2 k_3^2 k_5^2 k_6^2 k_7 k_9^2 k_{11}^3 k_{12} - 24 k_2^2 k_3^2 k_5^2 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} \\
& - 24 k_2^2 k_3^2 k_5^2 k_6 k_7 k_9^2 k_{11}^3 k_{12} k_{13} - 6 k_2^2 k_3^2 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13}^2 - 6 k_2^2 k_3^2 k_5^2 k_7 k_9^2 k_{11}^3 k_{12} k_{13}^2 \\
& k_{13}^2 - 6 k_2^2 k_3^2 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - 6 k_2^2 k_3^2 k_6^2 k_7 k_9^2 k_{11}^3 k_{12} - 12 k_2^2 k_3^2 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} \\
& - 12 k_2^2 k_3^2 k_6^2 k_7 k_9^2 k_{11}^3 k_{12} k_{13} - 6 k_2^2 k_3^2 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13}^2 - 6 k_2^2 k_3^2 k_6^2 k_7 k_9^2 k_{11}^3 k_{12} k_{13}^2 \\
& k_{13}^2 - 3 k_2^2 k_5^3 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 - 3 k_2^2 k_5^3 k_7 k_9^2 k_{11}^3 k_{12}^2 - 9 k_2^2 k_5^2 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 - 9 k_2^2 \\
& k_5^2 k_6 k_7 k_9^2 k_{11}^3 k_{12}^2 - 3 k_2^2 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 k_{13} - 3 k_2^2 k_5^2 k_7 k_9^2 k_{11}^3 k_{12}^2 k_{13} - 9 k_2^2 k_5^2 k_6^2 k_7 \\
& k_9^2 k_{10} k_{11}^2 k_{12}^2 - 9 k_2^2 k_5^2 k_6^2 k_7 k_9^2 k_{11}^3 k_{12}^2 - 6 k_2^2 k_5^2 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 k_{13} - 6 k_2^2 k_5^2 k_6 k_7 k_9^2 \\
& k_{11}^3 k_{12}^2 k_{13} - 3 k_2^2 k_6^3 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 - 3 k_2^2 k_6^3 k_7 k_9^2 k_{11}^3 k_{12}^2 - 3 k_2^2 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 k_{13} \\
& - 3 k_2^2 k_6^2 k_7 k_9^2 k_{11}^3 k_{12}^2 k_{13} - k_3^3 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 - k_3^3 k_5^2 k_7 k_9^2 k_{11}^3 - 3 k_3^3 k_5^2 k_6 k_7 k_9^2 k_{10} k_{11}^2 \\
& - 3 k_3^3 k_5^2 k_6 k_7 k_9^2 k_{11}^3 - 3 k_3^3 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 3 k_3^3 k_5^2 k_7 k_9^2 k_{11}^3 k_{13} - 3 k_3^3 k_5^2 k_6^2 k_7 \\
& k_9^2 k_{10} k_{11}^2 - 3 k_3^3 k_5^2 k_6^2 k_7 k_9^2 k_{11}^3 - 6 k_3^3 k_5^2 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 6 k_3^3 k_5^2 k_6 k_7 k_9^2 k_{11}^3 k_{13} - 3 \\
& k_3^3 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 3 k_3^3 k_5^2 k_7 k_9^2 k_{11}^3 k_{13}^2 - k_3^3 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 - k_3^3 k_6^2 k_7 k_9^2 k_{11}^3 - 3 k_3^3
\end{aligned}$$

$$\begin{aligned}
& k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{13} - 3 k_3^3 k_6^2 k_7 k_9^2 k_{11}^3 k_{13} - 3 k_3^3 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^2 - 3 k_3^3 k_6 k_7 k_9^2 k_{11}^3 k_{13}^2 \\
& - k_3^3 k_7 k_9^2 k_{10} k_{11}^2 k_{13}^3 - k_3^3 k_7 k_9^2 k_{11}^3 k_{13}^3 - 3 k_3^2 k_5^3 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - 3 k_3^2 k_5^3 k_7 k_9^2 k_{11}^3 k_{12} \\
& - 9 k_3^2 k_5^2 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - 9 k_3^2 k_5^2 k_6 k_7 k_9^2 k_{11}^3 k_{12} - 6 k_3^2 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 6 \\
& k_3^2 k_5^2 k_7 k_9^2 k_{11}^3 k_{12} k_{13} - 9 k_3^2 k_5 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - 9 k_3^2 k_5 k_6^2 k_7 k_9^2 k_{11}^3 k_{12} - 12 \\
& k_3^2 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 12 k_3^2 k_5 k_6 k_7 k_9^2 k_{11}^3 k_{12} k_{13} - 3 k_3^2 k_5 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13}^2 \\
& - 3 k_3^2 k_5 k_7 k_9^2 k_{11}^3 k_{12} k_{13}^2 - 3 k_3^2 k_6^3 k_7 k_9^2 k_{10} k_{11}^2 k_{12} - 3 k_3^2 k_6^3 k_7 k_9^2 k_{11}^3 k_{12} - 6 k_3^2 k_6^2 k_7 \\
& k_9^2 k_{10} k_{11}^2 k_{12} k_{13} - 6 k_3^2 k_6^2 k_7 k_9^2 k_{11}^3 k_{12} k_{13} - 3 k_3^2 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12} k_{13}^2 - 3 k_3^2 k_6 k_7 k_9^2 \\
& k_{11}^3 k_{12} k_{13}^2 - 3 k_3 k_5^3 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 - 3 k_3 k_5^3 k_7 k_9^2 k_{11}^3 k_{12}^2 - 9 k_3 k_5^2 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 \\
& - 9 k_3 k_5^2 k_6 k_7 k_9^2 k_{11}^3 k_{12}^2 - 3 k_3 k_5^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 k_{13} - 3 k_3 k_5^2 k_7 k_9^2 k_{11}^3 k_{12}^2 k_{13} \\
& - 9 k_3 k_5 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 - 9 k_3 k_5 k_6^2 k_7 k_9^2 k_{11}^3 k_{12}^2 - 6 k_3 k_5 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 k_{13} \\
& - 6 k_3 k_5 k_6 k_7 k_9^2 k_{11}^3 k_{12}^2 k_{13} - 3 k_3 k_6^3 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^2 - 3 k_3 k_6^3 k_7 k_9^2 k_{11}^3 k_{12}^2 - 3 k_3 k_6^2 k_7 \\
& k_9^2 k_{10} k_{11}^2 k_{12}^2 k_{13} - 3 k_3 k_6^2 k_7 k_9^2 k_{11}^3 k_{12}^2 k_{13} - k_5^3 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^3 - k_5^3 k_7 k_9^2 k_{11}^3 k_{12}^3 - 3 \\
& k_5^2 k_6 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^3 - 3 k_5^2 k_6 k_7 k_9^2 k_{11}^3 k_{12}^3 - 3 k_5 k_6^2 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^3 - 3 k_5 k_6^2 k_7 k_9^2 k_{11}^3 \\
& k_{12}^3 - k_6^3 k_7 k_9^2 k_{10} k_{11}^2 k_{12}^3 - k_6^3 k_7 k_9^2 k_{11}^3 k_{12}^3) x_7^2
\end{aligned}$$

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Now we need to find coefficients in *mypol* with $x[1]$, $x[3]$ and $x[7]$ that do not have necessarily negative sign. (This should be based on their unpublished theorem, which I don't understand yet.)

However, different from the simplified system, this one have more than one coefficients have positive sign which makes it very difficult to find a parameter set.

(To be continued)

