## **GSV** trick for L6a3

We want to see whether we can use [GSV, eq. (5.5)] to compute unreduced KR homology for the two-component link L6a3. Our results for its n=2 and n=3 KR invariants are as follows:

```
 \begin{aligned} & & | \text{In}[1] & = & 1 \text{k} = 3 \text{; } & \text{KR2} = & \text{Expand}[ \\ & & & & \text{($t^6 q^2 + t^6 6 + t^5 5 q^2 + t^4 4 q^6 6 + t^5 3 q^4 6 + t^5 2 q^4 (10) + q^4 (14) + q^4 (12)) / (q^4 (18))] \text{; } \\ & & \text{KR3} = & \text{Expand}[ (t^6 6 q^6 6 + 2 t^6 6 q^4 4 + 2 t^6 6 q^4 2 + t^6 6 t^5 5 q^4 4 + t^5 5 q^2 2 + t^4 4 q^4 (10) + t^4 4 q^8 8 + t^3 q^8 8 + t^3 q^6 6 + t^2 2 q^4 (14) + t^2 2 q^4 (12) + q^4 (18) + q^4 (16) + q^4 (14)) / (q^4 (26))] \text{; } \\ & & \text{In}[3] & \text{In}[3] & \text{U2} = & \text{Expand}[ (q-1/q) (q^4 (4 lk) \text{KR2} - t^4 q (q+1/q)^2)] \text{; } \\ & \text{U3} = & \text{Expand}[ \text{Simplify}[ (q-1/q) (q^4 (6 lk) \text{KR3} - t^4 q ((q^4 3 - q^4 (-3))) / (q-1/q))^2)]] \text{; } \\ & \text{In}[5] & \text{U2} / \text{. } \text{\{$a \to 2 lk$\}} \end{aligned} 
& \text{Out}[5] & = & -q^5 + q^9 - q^3 t^2 + q^5 t^2 - \frac{t^3}{q} + q t^3 - \frac{t^4}{q} + q t^4 - \frac{t^5}{q^5} + \frac{t^5}{q^3} - \frac{t^6}{q^7} + \frac{2 t^6}{q^3} + \frac{t^6}{q} - q t^6 - q^3 t^6 \end{aligned}
& \text{In}[6] & \text{Expand}[ \text{Simplify}[ (q-1/q) (q^4 (6 lk) \text{KR3} - t^4 q (q^4 - q^4 - q^4
```

U3 has more  $t^6$  terms than U2 for all values of lk in  $\{0,1,-1,2,-2,3,-3\}$ , and this continues to be the case if we set a=6.

All t-monomials above can be easily matched apart from the t^6-monomials. Now if we have a term  $c * q^j * t^r$  in U\_N above, according to GSV it should be equal to  $\sum_{Q\in Q, j-N^*Q, r} q^{N^*Q + (j - N^*Q)} t^r$ . Below we will try to solve these equations for all j simultaneously. We use the notation  $f[Q,s] = D \{Q,s,6\}$ .

```
In[7]:= Solve[
                                                         Sum[f[Q, -7-2Q], \{Q, -4, 4\}] = -1,
                                                         Sum[f[Q, -3-2Q], \{Q, -4, 4\}] = 2,
                                                         Sum[f[Q, -1-2Q], \{Q, -4, 4\}] == 1,
                                                         Sum[f[Q, 1-2Q], \{Q, -4, 4\}] = -1,
                                                         Sum[f[Q, 3-2Q], \{Q, -4, 4\}] = -1,
                                                       Sum[f[Q, -6-2Q], \{Q, -4, 4\}] == 0,
                                                         Sum[f[Q, -5-2Q], \{Q, -4, 4\}] = 0,
                                                         Sum[f[Q, -4-2Q], \{Q, -4, 4\}] = 0,
                                                         Sum[f[Q, -2-2Q], \{Q, -4, 4\}] = 0,
                                                         Sum[f[Q, 0-2Q], \{Q, -4, 4\}] = 0,
                                                       Sum[f[Q, 2-2Q], \{Q, -4, 4\}] = 0,
                                                         Sum[f[Q, 4-2Q], \{Q, -4, 4\}] == 0,
                                                         Sum[f[Q, 5-2Q], \{Q, -4, 4\}] = 0,
                                                         Sum[f[Q, 6-2Q], \{Q, -4, 4\}] = 0,
                                                         Sum[f[Q, 7-2Q], {Q, -4, 4}] = 0,
                                                         Sum[f[Q, 8-2Q], \{Q, -4, 4\}] = 0,
                                                         Sum[f[Q, 9-2Q], \{Q, -4, 4\}] == 0,
                                                         Sum[f[Q, 10-2Q], \{Q, -4, 4\}] = 0,
                                                         Sum[f[Q, -9-3Q], \{Q, -4, 4\}] = -1,
                                                         Sum[f[Q, -7-3Q], \{Q, -4, 4\}] = -1,
                                                         Sum[f[Q, -5-3Q], \{Q, -4, 4\}] = 1,
                                                         Sum[f[Q, -3-3Q], \{Q, -4, 4\}] = 2,
                                                         Sum[f[Q, -1-3Q], \{Q, -4, 4\}] = 2,
                                                         Sum[f[Q, 1-3Q], \{Q, -4, 4\}] = -1,
                                                         Sum[f[Q, 3-3Q], \{Q, -4, 4\}] = -1,
                                                         Sum[f[Q, 5-3Q], {Q, -4, 4}] = -1,
                                                         Sum[f[Q, -11-3Q], \{Q, -4, 4\}] = 0,
                                                         Sum[f[Q, -10-3Q], \{Q, -4, 4\}] = 0,
                                                         Sum[f[Q, -8-3Q], \{Q, -4, 4\}] = 0,
                                                         Sum[f[Q, -6-3Q], \{Q, -4, 4\}] = 0,
                                                         Sum[f[Q, -4-3Q], \{Q, -4, 4\}] == 0,
                                                         Sum[f[Q, -2-3Q], \{Q, -4, 4\}] = 0,
                                                         Sum[f[Q, 0-3Q], \{Q, -4, 4\}] = 0,
                                                         Sum[f[Q, 8-3Q], \{Q, -4, 4\}] == 0,
                                                         Sum[f[Q, 6-3Q], \{Q, -4, 4\}] = 0,
                                                         Sum[f[Q, 4-3Q], \{Q, -4, 4\}] = 0,
                                                       Sum[f[Q, 2-3Q], \{Q, -4, 4\}] = 0
                                                ١.
                                               Flatten[Array[f, {4, 47}, {-4, -23}]]]
                                        Solve::svars: Equations may not give solutions for all "solve" variables. >>>
                                         \{ \{ f[-4\,,\,1] \,\rightarrow\, -\, f[-3\,,\,16] \,+\, f[-2\,,\,-4] \,-\, f[-2\,,\,13] \,-\, f[-2\,,\,14] \,+\, f[-1\,,\,-7] \,+\, f[-1\,,\,-6] \,-\, f[-1\,,\,10] \,
                                                                            f\,[\,-1\,,\,\,11\,]\,\,-\,f\,[\,-1\,,\,\,12\,]\,\,+\,f\,[\,0\,,\,\,-10\,]\,\,+\,f\,[\,0\,,\,\,-9\,]\,\,+\,f\,[\,0\,,\,\,-8\,]\,\,-\,f\,[\,0\,,\,\,7\,]\,\,-\,f\,[\,0\,,\,\,8\,]\,\,-\,f\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[\,0\,,\,\,9\,]\,\,-\,10\,[
                                                                           f[0, 10] + f[1, -13] + f[1, -12] + f[1, -11] + f[1, -10] - f[1, 4] - f[1, 5] - f[1, 6] -
                                                                            f[1, 7] - f[1, 8] + f[2, -16] + f[2, -15] + f[2, -14] + f[2, -13] + f[2, -12] - f[2, 1] - f[2, -14] + f[2, -13] + f[2, -14] + f[2, -15] + f[2, -15]
                                                                           f[2, 2] - f[2, 3] - f[2, 4] - f[2, 5] - f[2, 6] + f[3, -19] + f[3, -18] + f[3, -17] +
                                                                            \texttt{f} \hspace{0.05cm} \texttt{[3,-16]} + \texttt{f} \hspace{0.05cm} \texttt{[3,-15]} + \texttt{f} \hspace{0.05cm} \texttt{[3,-14]} - \texttt{f} \hspace{0.05cm} \texttt{[3,-2]} - \texttt{f} \hspace{0.05cm} \texttt{[3,-1]} - \texttt{f} \hspace{0.05cm} \texttt{[3,0]} - \texttt{f} \hspace{0.05cm} \texttt{[3,1]} - \texttt{f} \hspace{0.05cm} \texttt{[3,2]} - \texttt{f} \hspace{0.05cm} \texttt{[3,-2]} - \texttt{f} \hspace{0.05cm} \texttt{[
                                                                            \texttt{f[3,3]} - \texttt{f[3,4]} + \texttt{f[4,-22]} + \texttt{f[4,-21]} + \texttt{f[4,-20]} + \texttt{f[4,-19]} + \texttt{f[4,-18]} + \texttt{f[4,-17]} + \texttt{f[4,-18]} + \texttt{f
                                                                           f[4, -16] - f[4, -5] - f[4, -4] - f[4, -3] - f[4, -2] - f[4, -1] - f[4, 0] - f[4, 1] - f[4, 2]
                                                         \texttt{f}\,[\,-\,4\,,\,\,2\,]\,\rightarrow\,1\,\,-\,\,\texttt{f}\,[\,-\,3\,,\,\,16\,]\,\,+\,\,\texttt{f}\,[\,-\,2\,,\,\,-\,3\,]\,\,-\,\,\texttt{f}\,[\,-\,2\,,\,\,14\,]\,\,+\,\,\texttt{f}\,[\,-\,1\,,\,\,-\,6\,]\,\,+\,\,\texttt{f}\,[\,-\,1\,,\,\,-\,5\,]\,\,-\,\,1\,
                                                                           f[-1, 10] - f[-1, 11] - f[-1, 12] + f[0, -9] + f[0, -8] + f[0, -7] - f[0, 7] - f[0, 8] - f[0, 
                                                                           f[0, 9] - f[0, 10] + f[1, -12] + f[1, -11] + f[1, -10] + f[1, -9] - f[1, 4] - f[1, 5] -
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f[1, 6] - f[1, 7] - f[1, 8] + f[2, -15] + f[2, -14] + f[2, -13] + f[2, -12] + f[2, -11] - f[2, -14] + f[2, -14] 
                                                       \texttt{f[2,1]} - \texttt{f[2,2]} - \texttt{f[2,3]} - \texttt{f[2,4]} - \texttt{f[2,5]} - \texttt{f[2,6]} + \texttt{f[3,-18]} + \texttt{f[3,-17]} + \texttt{f[3,-16]} + \texttt{f[3,-16]} + \texttt{f[3,-18]} + \texttt{f[3,-17]} + \texttt{f[3,-16]} + \texttt{f[3,-18]} + \texttt{f[3,-18]}
                                                       \texttt{f} \hspace{0.05cm} \texttt{[3,-15]} + \texttt{f} \hspace{0.05cm} \texttt{[3,-14]} + \texttt{f} \hspace{0.05cm} \texttt{[3,-13]} - \texttt{f} \hspace{0.05cm} \texttt{[3,-2]} - \texttt{f} \hspace{0.05cm} \texttt{[3,-1]} - \texttt{f} \hspace{0.05cm} \texttt{[3,0]} - \texttt{f} \hspace{0.05cm} \texttt{[3,1]} - \texttt{f} \hspace{0.05cm} \texttt{[3,2]} - \texttt{f} \hspace{0.05cm} \texttt{[3,-2]} - \texttt{f} \hspace{0.05cm} \texttt{[
                                                       \texttt{f[3,3]} - \texttt{f[3,4]} + \texttt{f[4,-21]} + \texttt{f[4,-20]} + \texttt{f[4,-19]} + \texttt{f[4,-18]} + \texttt{f[4,-17]} + \texttt{f[4,-16]} + \texttt{f[4,-18]} + \texttt{f[4,-17]} + \texttt{f[4,-16]} + \texttt{f[4,-18]} + \texttt{f[4,-18]} + \texttt{f[4,-17]} + \texttt{f[4,-16]} + \texttt{f[4,-18]} + \texttt{f
                                                      f[4, -15] - f[4, -5] - f[4, -4] - f[4, -3] - f[4, -2] - f[4, -1] - f[4, 0] - f[4, 1] - f[4, 2]
    f[-4\,,\,3] \,\rightarrow\, -\, f[-3\,,\,16] \,+\, f[-2\,,\,-2] \,-\, f[-2\,,\,13] \,-\, f[-2\,,\,14] \,+\, f[-1\,,\,-5] \,+\, f[-1\,,\,-4] \,-\, f
                                                      f[-1, 10] - f[-1, 11] - f[-1, 12] + f[0, -8] + f[0, -7] + f[0, -6] - f[0, 7] - f[0, 8] - f[0, -6]
                                                       f[0, 9] - f[0, 10] + f[1, -11] + f[1, -10] + f[1, -9] + f[1, -8] - f[1, 4] - f[1, 5] - f[1, 5] + f[1, 5
                                                       \texttt{f[1,6]} - \texttt{f[1,7]} - \texttt{f[1,8]} + \texttt{f[2,-14]} + \texttt{f[2,-13]} + \texttt{f[2,-12]} + \texttt{f[2,-11]} + \texttt{f[2,-10]} - \texttt{f[2,-10]} + \texttt{f[2
                                                       f[2,1] - f[2,2] - f[2,3] - f[2,4] - f[2,5] - f[2,6] + f[3,-17] + f[3,-16] + f[3,-15] 
                                                       \texttt{f[3,-14]} + \texttt{f[3,-13]} + \texttt{f[3,-12]} - \texttt{f[3,-2]} - \texttt{f[3,-1]} - \texttt{f[3,0]} - \texttt{f[3,1]} - \texttt{f[3,2]} - \texttt{f[3,-1]} - \texttt{
                                                       \texttt{f[3,3]} - \texttt{f[3,4]} + \texttt{f[4,-20]} + \texttt{f[4,-19]} + \texttt{f[4,-18]} + \texttt{f[4,-17]} + \texttt{f[4,-16]} + \texttt{f[4,-15]} + \texttt{f[4,-18]} + \texttt{f
                                                       \texttt{f}[4, -14] - \texttt{f}[4, -5] - \texttt{f}[4, -4] - \texttt{f}[4, -3] - \texttt{f}[4, -2] - \texttt{f}[4, -1] - \texttt{f}[4, 0] - \texttt{f}[4, 1] - \texttt{f}[4, 2] \, , \\
\texttt{f} \, [\, -4 \,, \, 4 \,] \, \rightarrow \, -\, \texttt{f} \, [\, -3 \,, \, 16 \,] \, +\, \texttt{f} \, [\, -2 \,, \, -1 \,] \, -\, \texttt{f} \, [\, -2 \,, \, 13 \,] \, -\, \texttt{f} \, [\, -2 \,, \, 14 \,] \, +\, \texttt{f} \, [\, -1 \,, \, -4 \,] \, +\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -2 \,, \, 14 \,] \, +\, \texttt{f} \, [\, -1 \,, \, -4 \,] \, +\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -2 \,, \, 14 \,] \, +\, \texttt{f} \, [\, -1 \,, \, -4 \,] \, +\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -2 \,, \, 14 \,] \, +\, \texttt{f} \, [\, -1 \,, \, -4 \,] \, +\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -2 \,, \, 14 \,] \, +\, \texttt{f} \, [\, -1 \,, \, -4 \,] \, +\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -1 \,, \, -3 \,] \, -\, \texttt{f} \, [\, -
                                                      f[-1, 10] - f[-1, 11] - f[-1, 12] + f[0, -7] + f[0, -6] + f[0, -5] - f[0, 7] - f[0, 8] - f[0, 7] + f[0, -6] 
                                                      f[0, 9] - f[0, 10] + f[1, -10] + f[1, -9] + f[1, -8] + f[1, -7] - f[1, 4] - f[1, 5] -
                                                      f[1, 6] - f[1, 7] - f[1, 8] + f[2, -13] + f[2, -12] + f[2, -11] + f[2, -10] + f[2, -9] - f[1, 6] + f[2, -10] + f
                                                       f[2,1] - f[2,2] - f[2,3] - f[2,4] - f[2,5] - f[2,6] + f[3,-16] + f[3,-15] + f[3,-14] 
                                                       \texttt{f[3,-13]} + \texttt{f[3,-12]} + \texttt{f[3,-11]} - \texttt{f[3,-2]} - \texttt{f[3,-1]} - \texttt{f[3,0]} - \texttt{f[3,1]} - \texttt{f[3,2]} - \texttt{f[3,-1]} - \texttt{
                                                       f[3, 3] - f[3, 4] + f[4, -19] + f[4, -18] + f[4, -17] + f[4, -16] + f[4, -15] + f[4, -14] + f[4, -18] + f[4, -1
                                                       f[4, -13] - f[4, -5] - f[4, -4] - f[4, -3] - f[4, -2] - f[4, -1] - f[4, 0] - f[4, 1] - f[4, 2], 
\texttt{f}\left[-4\,,\,5\right] \rightarrow -1\,-\,\texttt{f}\left[-3\,,\,16\right]\,+\,\texttt{f}\left[-2\,,\,0\right]\,-\,\texttt{f}\left[-2\,,\,13\right]\,-\,\texttt{f}\left[-2\,,\,14\right]\,+\,\texttt{f}\left[-1\,,\,-3\right]\,+\,\texttt{f}\left[-1\,,\,-2\right]\,-\,\texttt{f}\left[-2\,,\,14\right]\,+\,\texttt{f}\left[-1\,,\,-3\right]\,+\,\texttt{f}\left[-1\,,\,-2\right]\,-\,\texttt{f}\left[-2\,,\,14\right]\,+\,\texttt{f}\left[-2\,,\,14\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[-2\,,\,2\right]\,+\,\texttt{f}\left[
                                                       f[-1, 10] - f[-1, 11] - f[-1, 12] + f[0, -6] + f[0, -5] + f[0, -4] - f[0, 7] - f[0, 8] - f[0, -4] + f[0, -4
                                                       f \left[ \, 0 \,, \, 9 \, \right] \, - \, f \left[ \, 0 \,, \, \, 10 \, \right] \, + \, f \left[ \, 1 \,, \, \, -9 \, \right] \, + \, f \left[ \, 1 \,, \, \, -8 \, \right] \, + \, f \left[ \, 1 \,, \, \, -7 \, \right] \, + \, f \left[ \, 1 \,, \, \, -6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 4 \, \right] \, - \, f \left[ \, 1 \,, \, \, 5 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, \, \, 6 \, \right] \, - \, f \left[ \, 1 \,, 
                                                      f[1, 7] - f[1, 8] + f[2, -12] + f[2, -11] + f[2, -10] + f[2, -9] + f[2, -8] - f[2, 1] - f[2, -10]
                                                      f[2, 2] - f[2, 3] - f[2, 4] - f[2, 5] - f[2, 6] + f[3, -15] + f[3, -14] + f[3, -13] +
                                                       \texttt{f[3,-12]} + \texttt{f[3,-11]} + \texttt{f[3,-10]} - \texttt{f[3,-2]} - \texttt{f[3,-1]} - \texttt{f[3,0]} - \texttt{f[3,1]} - \texttt{f[3,2]} - \texttt{f[3,-1]} - \texttt{
                                                      f[3, 3] - f[3, 4] + f[4, -18] + f[4, -17] + f[4, -16] + f[4, -15] + f[4, -14] + f[4, -13] + f[4, -18] + f[4, -18
                                                      f[4, -12] - f[4, -5] - f[4, -4] - f[4, -3] - f[4, -2] - f[4, -1] - f[4, 0] - f[4, 1] - f[4, 2]
   \texttt{f} \, [-\, 4\,,\, 6\,] \, \rightarrow \, -\, 3\, -\, \texttt{f} \, [-\, 3\,,\, 16\,] \, +\, \texttt{f} \, [-\, 2\,,\, 1\,] \, -\, \texttt{f} \, [-\, 2\,,\, 13\,] \, -\, \texttt{f} \, [-\, 2\,,\, 14\,] \, +\, \texttt{f} \, [-\, 1\,,\, -\, 2\,] \, +\, \texttt{f} \, [-\, 1\,,\, -\, 1\,] \, -\, \texttt{f} \, [-\, 2\,,\, 14\,] \, +\, \texttt{f} \, [-\, 1\,,\, -\, 2\,] \, +\, \texttt{f} \, [-\, 1\,,\, -\, 1\,] \, -\, \texttt{f} \, [-\, 2\,,\, 14\,] \, +\, \texttt{f} \, [-\, 1\,,\, -\, 2\,] \, +\, \texttt{f} \, [-\, 1\,,\, -\, 1\,] \, -\, \texttt{f} \, [-\, 2\,,\, 14\,] \, +\, \texttt{f} \, [-\, 1\,,\, -\, 2\,] \, +\, \texttt{f} \, [
                                                       f[-1, 10] - f[-1, 11] - f[-1, 12] + f[0, -5] + f[0, -4] + f[0, -3] - f[0, 7] - f[0, 8] - f[0, 7] + f[0,
                                                       f[0, 9] - f[0, 10] + f[1, -8] + f[1, -7] + f[1, -6] + f[1, -5] - f[1, 4] - f[1, 5] - f[1, 6] 
                                                      f[1, 7] - f[1, 8] + f[2, -11] + f[2, -10] + f[2, -9] + f[2, -8] + f[2, -7] - f[2, 1] - f[2, -9]
                                                       \texttt{f[2,2]} - \texttt{f[2,3]} - \texttt{f[2,4]} - \texttt{f[2,5]} - \texttt{f[2,6]} + \texttt{f[3,-14]} + \texttt{f[3,-13]} + \texttt{f[3,-12]} + 
                                                      f[3, -11] + f[3, -10] + f[3, -9] - f[3, -2] - f[3, -1] - f[3, 0] - f[3, 1] - f[3, 2] - f[3, -1]
                                                       \texttt{f[3,3]} - \texttt{f[3,4]} + \texttt{f[4,-17]} + \texttt{f[4,-16]} + \texttt{f[4,-15]} + \texttt{f[4,-14]} + \texttt{f[4,-13]} + \texttt{f[4,-12]} + \texttt{f[4,-15]} + \texttt{f
                                                      f[4, -11] - f[4, -5] - f[4, -4] - f[4, -3] - f[4, -2] - f[4, -1] - f[4, 0] - f[4, 1] - f[4, 2]
\texttt{f}\,[\,-\,4\,,\,7\,]\,\rightarrow\,-\,2\,-\,\texttt{f}\,[\,-\,3\,,\,16\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,13\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,1\,,\,-\,1\,]\,+\,\texttt{f}\,[\,-\,1\,,\,0\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,[\,-\,2\,,\,2\,]\,-\,\frac{1}{2}\,
                                                      f[-1, 10] - f[-1, 11] - f[-1, 12] + f[0, -4] + f[0, -3] + f[0, -2] - f[0, 7] - f[0, 8] -
                                                       f[0, 9] - f[0, 10] + f[1, -7] + f[1, -6] + f[1, -5] + f[1, -4] - f[1, 4] - f[1, 5] - f[1, 6] 
                                                       \texttt{f[1,7]} - \texttt{f[1,8]} + \texttt{f[2,-10]} + \texttt{f[2,-9]} + \texttt{f[2,-8]} + \texttt{f[2,-7]} + \texttt{f[2,-6]} - \texttt{f[2,1]} - \texttt{f[2,2]} - \texttt{f[2,2]}
                                                      f[2, 3] - f[2, 4] - f[2, 5] - f[2, 6] + f[3, -13] + f[3, -12] + f[3, -11] + f[3, -10] + 
                                                       \texttt{f[3,-9]} + \texttt{f[3,-8]} - \texttt{f[3,-2]} - \texttt{f[3,-1]} - \texttt{f[3,0]} - \texttt{f[3,1]} - \texttt{f[3,2]} - \texttt{f[3,3]} - \texttt{f[3,4]} + \texttt{f[3,-9]} + \texttt{f[3,-9]} - \texttt{f[3,-
                                                       \texttt{f} \left[ 4 \,,\, -16 \right] \,+\, \texttt{f} \left[ 4 \,,\, -15 \right] \,+\, \texttt{f} \left[ 4 \,,\, -14 \right] \,+\, \texttt{f} \left[ 4 \,,\, -13 \right] \,+\, \texttt{f} \left[ 4 \,,\, -12 \right] \,+\, \texttt{f} \left[ 4 \,,\, -11 \right] \,+\, \texttt{f} \left[ 4 \,,\, -10 \right] \,-\, \texttt{f} \left[ 4 \,,\, -10 \right] \,+\, \texttt{f} \left[ 4 \,,\, -10 
                                                       \texttt{f} \left[ 4 \,,\, -5 \right] \,-\, \texttt{f} \left[ 4 \,,\, -4 \right] \,-\, \texttt{f} \left[ 4 \,,\, -3 \right] \,-\, \texttt{f} \left[ 4 \,,\, -2 \right] \,-\, \texttt{f} \left[ 4 \,,\, -1 \right] \,-\, \texttt{f} \left[ 4 \,,\, 0 \right] \,-\, \texttt{f} \left[ 4 \,,\, 1 \right] \,-\, \texttt{f} \left[ 4 \,,\, 2 \right] \,,
\texttt{f} \left[ -4 \,,\, 8 \right] \,\rightarrow\, -3 \,-\, \texttt{f} \left[ -3 \,,\, 16 \right] \,+\, \texttt{f} \left[ -2 \,,\, 3 \right] \,-\, \texttt{f} \left[ -2 \,,\, 13 \right] \,-\, \texttt{f} \left[ -2 \,,\, 14 \right] \,+\, \texttt{f} \left[ -1 \,,\, 0 \right] \,+\, \texttt{f} \left[ -1 \,,\, 1 \right] \,-\, \texttt{f} \left[ -1 \,,\, 1 \right] \,+\, \texttt{f} \left[ -1 \,,\, 1 \right
                                                      f[-1, 10] - f[-1, 11] - f[-1, 12] + f[0, -3] + f[0, -2] + f[0, -1] - f[0, 7] - f[0, 8] - f[0, -1] - f[0, -1]
                                                       f[0, 9] - f[0, 10] + f[1, -6] + f[1, -5] + f[1, -4] + f[1, -3] - f[1, 4] - f[1, 5] - f[1, 6] - f[1, 6] + f[1, 6] - f[1, 6] + f[1, 6] 
                                                      \texttt{f[1,7]} - \texttt{f[1,8]} + \texttt{f[2,-9]} + \texttt{f[2,-8]} + \texttt{f[2,-7]} + \texttt{f[2,-6]} + \texttt{f[2,-5]} - \texttt{f[2,1]} - \texttt{f[2,2]} -
                                                       \texttt{f[2,3]} - \texttt{f[2,4]} - \texttt{f[2,5]} - \texttt{f[2,6]} + \texttt{f[3,-12]} + \texttt{f[3,-11]} + \texttt{f[3,-10]} + \texttt{f[3,-9]} + 
                                                       \texttt{f}[3, -8] + \texttt{f}[3, -7] - \texttt{f}[3, -2] - \texttt{f}[3, -1] - \texttt{f}[3, 0] - \texttt{f}[3, 1] - \texttt{f}[3, 2] - \texttt{f}[3, 3] - \texttt{f}[3, 4] + \texttt{f}[3, -1] - \texttt{f}
                                                      f[4, -15] + f[4, -14] + f[4, -13] + f[4, -12] + f[4, -11] + f[4, -10] + f[4, -9] -
                                                      f[4, -5] - f[4, -4] - f[4, -3] - f[4, -2] - f[4, -1] - f[4, 0] - f[4, 1] - f[4, 2],
\texttt{f}\,[\,-\,4\,,\,9\,]\,\rightarrow\,-\,1\,-\,\texttt{f}\,[\,-\,3\,,\,16\,]\,+\,\texttt{f}\,[\,-\,2\,,\,4\,]\,-\,\texttt{f}\,[\,-\,2\,,\,13\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,1\,,\,1\,]\,+\,\texttt{f}\,[\,-\,1\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,1\,,\,1\,]\,+\,\texttt{f}\,[\,-\,1\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,1\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,-\,
                                                       \texttt{f} \left[-1\,,\,10\right] \,-\, \texttt{f} \left[-1\,,\,11\right] \,-\, \texttt{f} \left[-1\,,\,12\right] \,+\, \texttt{f} \left[0\,,\,-2\right] \,+\, \texttt{f} \left[0\,,\,-1\right] \,+\, \texttt{f} \left[0\,,\,0\right] \,-\, \texttt{f} \left[0\,,\,7\right] \,-\, \texttt{f} \left[0\,,\,8\right] \,-\, \texttt{f} \left[0\,,\,2\right] \,+\, \texttt{
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f[0, 9] - f[0, 10] + f[1, -5] + f[1, -4] + f[1, -3] + f[1, -2] - f[1, 4] - f[1, 5] -
                                            f[1, 6] - f[1, 7] - f[1, 8] + f[2, -8] + f[2, -7] + f[2, -6] + f[2, -5] + f[2, -4] -
                                             f[2, 1] - f[2, 2] - f[2, 3] - f[2, 4] - f[2, 5] - f[2, 6] + f[3, -11] + f[3, -10] + f[3, -9] + f
                                             f[3, -8] + f[3, -7] + f[3, -6] - f[3, -2] - f[3, -1] - f[3, 0] - f[3, 1] - f[3, 2] - f[3, -1] - 
                                            f[3, 3] - f[3, 4] + f[4, -14] + f[4, -13] + f[4, -12] + f[4, -11] + f[4, -10] + f[4, -9] + f[4, -9] + f[4, -10] 
                                             f[4, -8] - f[4, -5] - f[4, -4] - f[4, -3] - f[4, -2] - f[4, -1] - f[4, 0] - f[4, 1] - f[4, 2], 
  \texttt{f}\,[\,-\,4\,,\,10\,]\,\rightarrow\,-\,\texttt{f}\,[\,-\,3\,,\,16\,]\,+\,\texttt{f}\,[\,-\,2\,,\,5\,]\,-\,\texttt{f}\,[\,-\,2\,,\,13\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,1\,,\,2\,]\,+\,\texttt{f}\,[\,-\,1\,,\,3\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,1\,,\,2\,]\,+\,\texttt{f}\,[\,-\,1\,,\,3\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,1\,,\,2\,]\,+\,\texttt{f}\,[\,-\,1\,,\,3\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,1\,,\,2\,]\,+\,\texttt{f}\,[\,-\,1\,,\,3\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,1\,,\,2\,]\,+\,\texttt{f}\,[\,-\,1\,,\,3\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,1\,,\,2\,]\,+\,\texttt{f}\,[\,-\,1\,,\,3\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,1\,,\,2\,]\,+\,\texttt{f}\,[\,-\,1\,,\,3\,]\,-\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,-\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2\,]\,+\,\texttt{f}\,[\,2\,,\,2
                                             f[-1, 10] - f[-1, 11] - f[-1, 12] + f[0, -1] + f[0, 0] + f[0, 1] - f[0, 7] - f[0, 8] - f[0, 1] + f[0, 1
                                             f \left[ \, 0 \,, \, 9 \, \right] \, - \, f \left[ \, 0 \,, \, \, 10 \, \right] \, + \, f \left[ \, 1 \,, \, \, -4 \, \right] \, + \, f \left[ \, 1 \,, \, \, -3 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -1 \, \right] \, - \, f \left[ \, 1 \,, \, \, 4 \, \right] \, - \, f \left[ \, 1 \,, \, \, 5 \, \right] \, - \, f \left[ \, 1 \,, \, \, 4 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 \,, \, \, -2 \, \right] \, + \, f \left[ \, 1 
                                            f[1, 6] - f[1, 7] - f[1, 8] + f[2, -7] + f[2, -6] + f[2, -5] + f[2, -4] + f[2, -3] -
                                             \texttt{f[2,1]} - \texttt{f[2,2]} - \texttt{f[2,3]} - \texttt{f[2,4]} - \texttt{f[2,5]} - \texttt{f[2,6]} + \texttt{f[3,-10]} + \texttt{f[3,-9]} + \texttt{f[3,-8]} + \texttt{f[3,-
                                             \texttt{f}[3,-7] + \texttt{f}[3,-6] + \texttt{f}[3,-5] - \texttt{f}[3,-2] - \texttt{f}[3,-1] - \texttt{f}[3,0] - \texttt{f}[3,1] - \texttt{f}[3,2] - \texttt{f}[3,3] - \texttt{f}[3,-7] + \texttt{f}[3,-6] + \texttt{f}[3
                                             \texttt{f[3,4]} + \texttt{f[4,-13]} + \texttt{f[4,-12]} + \texttt{f[4,-11]} + \texttt{f[4,-10]} + \texttt{f[4,-9]} + \texttt{f[4,-8]} + \texttt{f[4,-7]} - \texttt{f[4,-8]} + \texttt{f[4,-8]} +
                                            f[4, -5] - f[4, -4] - f[4, -3] - f[4, -2] - f[4, -1] - f[4, 0] - f[4, 1] - f[4, 2]
  \texttt{f}\,[\,-\,4\,,\,11\,]\,\to\,2\,-\,\texttt{f}\,[\,-\,3\,,\,16\,]\,+\,\texttt{f}\,[\,-\,2\,,\,6\,]\,-\,\texttt{f}\,[\,-\,2\,,\,13\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,1\,,\,3\,]\,+\,\texttt{f}\,[\,-\,1\,,\,4\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]
                                            f[-1, 10] - f[-1, 11] - f[-1, 12] + f[0, 0] + f[0, 1] + f[0, 2] - f[0, 7] - f[0, 8] -
                                             f[0, 9] - f[0, 10] + f[1, -3] + f[1, -2] + f[1, -1] + f[1, 0] - f[1, 4] - f[1, 5] - f[1, 6] -
                                             f[1,\,7] - f[1,\,8] + f[2,\,-6] + f[2,\,-5] + f[2,\,-4] + f[2,\,-3] + f[2,\,-2] - f[2,\,1] - f[2,\,-2] + 
                                             \texttt{f[2,2]} - \texttt{f[2,3]} - \texttt{f[2,4]} - \texttt{f[2,5]} - \texttt{f[2,6]} + \texttt{f[3,-9]} + \texttt{f[3,-8]} + \texttt{f[3,-7]} + \texttt{f[3,-6]} + \texttt{f[3,-
                                            f[3, -5] + f[3, -4] - f[3, -2] - f[3, -1] - f[3, 0] - f[3, 1] - f[3, 2] - f[3, 3] - f[3, -1] - f[
                                             \texttt{f[3,4]} + \texttt{f[4,-12]} + \texttt{f[4,-11]} + \texttt{f[4,-10]} + \texttt{f[4,-9]} + \texttt{f[4,-8]} + \texttt{f[4,-7]} + \texttt{f[4,-6]} - \texttt{f[4,-8]} + 
                                             f[4, -5] - f[4, -4] - f[4, -3] - f[4, -2] - f[4, -1] - f[4, 0] - f[4, 1] - f[4, 2] , 
f[-4, 12] \rightarrow 3 - f[-3, 16] + f[-2, 7] - f[-2, 13] - f[-2, 14] + f[-1, 4] + f[-1, 5] - f[-2, 14] + f[-1, 4] + f[-1, 5] - f[-2, 14] + f[-1, 4] + f[-1, 5] - f[-2, 14] + f[-1, 4] + f[-1, 5] - f[-2, 14] + f[-1, 4] + f[-1, 5] - f[-2, 14] + f[-1, 4] + f[-1, 5] - f[-2, 14] + f[-1, 4] + f[-1, 5] - f[-2, 14] + f[-1, 4] + f[-1, 5] - f[-2, 14] + f[-1, 4] + f[-1, 5] - f[-2, 14] + f[-2, 14] 
                                            f[-1, 10] - f[-1, 11] - f[-1, 12] + f[0, 1] + f[0, 2] + f[0, 3] - f[0, 7] - f[0, 8] - f[0, 7] - f[0, 8] - f[0, 7] - f[0, 8] 
                                            f[0, 9] - f[0, 10] + f[1, -2] + f[1, -1] + f[1, 0] + f[1, 1] - f[1, 4] - f[1, 5] -
                                            f[1, 6] - f[1, 7] - f[1, 8] + f[2, -5] + f[2, -4] + f[2, -3] + f[2, -2] + f[2, -1] - f[2, -1] + f
                                            f[2, 1] - f[2, 2] - f[2, 3] - f[2, 4] - f[2, 5] - f[2, 6] + f[3, -8] + f[3, -7] +
                                            f[3, -6] + f[3, -5] + f[3, -4] + f[3, -3] - f[3, -2] - f[3, -1] - f[3, 0] - f[3, 1] - f[3, 0]
                                            f[3, 2] - f[3, 3] - f[3, 4] + f[4, -11] + f[4, -10] + f[4, -9] + f[4, -8] + f[4, -7] +
                                            f[4, -6] - f[4, -4] - f[4, -3] - f[4, -2] - f[4, -1] - f[4, 0] - f[4, 1] - f[4, 2],
\texttt{f}\,[\,-\,4\,,\,13\,]\,\rightarrow\,2\,-\,\texttt{f}\,[\,-\,3\,,\,16\,]\,+\,\texttt{f}\,[\,-\,2\,,\,8\,]\,-\,\texttt{f}\,[\,-\,2\,,\,13\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,1\,,\,5\,]\,+\,\texttt{f}\,[\,-\,1\,,\,6\,]\,-\,1\,
                                             \texttt{f[-1, 10]} - \texttt{f[-1, 11]} - \texttt{f[-1, 12]} + \texttt{f[0, 2]} + \texttt{f[0, 3]} + \texttt{f[0, 4]} - \texttt{f[0, 7]} - \texttt{f[0, 8]} - \texttt{f[0, 4]} + \texttt{f[0, 4]
                                             f[0, 9] - f[0, 10] + f[1, -1] + f[1, 0] + f[1, 1] + f[1, 2] - f[1, 4] - f[1, 5] - f[1, 6] - f
                                             \texttt{f[1,7]} - \texttt{f[1,8]} + \texttt{f[2,-4]} + \texttt{f[2,-3]} + \texttt{f[2,-2]} + \texttt{f[2,-1]} + \texttt{f[2,0]} - \texttt{f[2,1]} - \texttt{f[2,2]} -
                                             \texttt{f[2,3]} - \texttt{f[2,4]} - \texttt{f[2,5]} - \texttt{f[2,6]} + \texttt{f[3,-7]} + \texttt{f[3,-6]} + \texttt{f[3,-5]} + \texttt{f[3,-4]} + \texttt{f[3,-3]} - \texttt{f[2,4]} + \texttt{f[3,-4]} + \texttt{f[3,-
                                             \texttt{f[3,-1]} - \texttt{f[3,0]} - \texttt{f[3,1]} - \texttt{f[3,2]} - \texttt{f[3,3]} - \texttt{f[3,4]} + \texttt{f[4,-10]} + \texttt{f[4,-9]} + \texttt{f[4,-8]} + \texttt{f[4,
                                            f[4, -7] + f[4, -6] - f[4, -3] - f[4, -2] - f[4, -1] - f[4, 0] - f[4, 1] - f[4, 2]
\texttt{f}\,[\,-\,4\,,\,14\,]\,\to\,2\,-\,\texttt{f}\,[\,-\,3\,,\,16\,]\,+\,\texttt{f}\,[\,-\,2\,,\,9\,]\,-\,\texttt{f}\,[\,-\,2\,,\,13\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,1\,,\,6\,]\,+\,\texttt{f}\,[\,-\,1\,,\,7\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,1\,,\,6\,]\,+\,\texttt{f}\,[\,-\,1\,,\,7\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,1\,,\,6\,]\,+\,\texttt{f}\,[\,-\,1\,,\,7\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,1\,,\,6\,]\,+\,\texttt{f}\,[\,-\,1\,,\,7\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,1\,,\,6\,]\,+\,\texttt{f}\,[\,-\,1\,,\,7\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,1\,,\,6\,]\,+\,\texttt{f}\,[\,-\,1\,,\,7\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,1\,,\,6\,]\,+\,\texttt{f}\,[\,-\,1\,,\,7\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,1\,,\,6\,]\,+\,\texttt{f}\,[\,-\,1\,,\,7\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,14\,]
                                            f[-1, 10] - f[-1, 11] - f[-1, 12] + f[0, 3] + f[0, 4] + f[0, 5] - f[0, 7] - f[0, 8] - f[0, 9] - f[0, 9]
                                             f[0, 10] + f[1, 0] + f[1, 1] + f[1, 2] + f[1, 3] - f[1, 4] - f[1, 5] - f[1, 6] - f[1, 7] - f[1, 8] + f[1, 7] + f[
                                             f[2,-3] + f[2,-2] + f[2,-1] + f[2,0] - f[2,2] - f[2,3] - f[2,4] - f[2,5] - f[2,6] + f[2,6]
                                             \texttt{f}[3, -6] + \texttt{f}[3, -5] + \texttt{f}[3, -4] + \texttt{f}[3, -3] - \texttt{f}[3, 0] - \texttt{f}[3, 1] - \texttt{f}[3, 2] - \texttt{f}[3, 3] - \texttt{f}[3, 4] + \texttt{f}[3, -6] + \texttt{f}
                                             \texttt{f} [4, -9] + \texttt{f} [4, -8] + \texttt{f} [4, -7] + \texttt{f} [4, -6] - \texttt{f} [4, -2] - \texttt{f} [4, -1] - \texttt{f} [4, 0] - \texttt{f} [4, 1] - \texttt{f} [4, 2] \,, \\
  \texttt{f} \, [\, -\, 4\,,\, 15\,] \, \rightarrow \, 1\, -\, \texttt{f} \, [\, -\, 3\,,\, 16\,] \, +\, \texttt{f} \, [\, -\, 2\,,\, 10\,] \, -\, \texttt{f} \, [\, -\, 2\,,\, 13\,] \, -\, \texttt{f} \, [\, -\, 2\,,\, 14\,] \, +\, \texttt{f} \, [\, -\, 1\,,\, 7\,] \, +\, \texttt{f} \, [\, -\, 1\,,\, 8\,] \, -\, \texttt{f} \, [\, -\, 2\,,\, 14\,] \, +\, \texttt{f} \, [\, -\, 1\,,\, 7\,] \, +\, \texttt{f} \, [\, -\, 1\,,\, 8\,] \, -\, \texttt{f} \, [\, -\, 2\,,\, 14\,] \, +\, \texttt{f} \, [\, -\, 1\,,\, 7\,] \, +\, \texttt{f} \, [\, -\, 1\,,\, 8\,] \, -\, \texttt{f} \, [\, -\, 2\,,\, 14\,] \, +\, \texttt{f} \, [\, -\, 1\,,\, 7\,] \, +\, \texttt{f} \, [\, -\, 1\,,\, 8\,] \, -\, \texttt{f} \, [\, -\, 2\,,\, 14\,] \, +\, \texttt{f} \, [\, -\, 1\,,\, 7\,] \, +\, \texttt{f} \, [\, -\, 1\,,\, 8\,] \, -\, \texttt{f} \, [\, -\, 2\,,\, 14\,] \, +\, \texttt{f} \, [\, -\, 1\,,\, 8\,] \, -\, \texttt{f} \, [\, -\, 2\,,\, 14\,] \, +\, \texttt{f} \, [\, -\, 1\,,\, 7\,] \, +\, \texttt{f} \, [\, -\, 1\,,\, 8\,] \, -\, \texttt{f} \, [\, -\, 2\,,\, 14\,] \, +\, \texttt{f} \, [\, -\, 1\,,\, 7\,] \, +\, \texttt{f} \, [\, -\, 1\,,\, 8\,] \, -\, \texttt{f} \, [\, -\, 2\,,\, 14\,] \, +\, \texttt{f} \, [\, -\, 1\,,\, 7\,] \, +\, \texttt{f} \, [\, -\, 1\,,\, 8\,] \, -\, \texttt{f} \, [\, -\, 2\,,\, 14\,] \, +\, \texttt{f} \, [\, -\, 1\,,\, 8\,] \, -\, \texttt{f} \, [\, -\, 2\,,\, 14\,] \, +\, \texttt{f} \, [\, -
                                             f\,[\,-1\,,\,10\,]\,\,-\,f\,[\,-1\,,\,11\,]\,\,-\,f\,[\,-1\,,\,12\,]\,\,+\,f\,[\,0\,,\,4\,]\,\,+\,f\,[\,0\,,\,5\,]\,\,+\,f\,[\,0\,,\,6\,]\,\,-\,f\,[\,0\,,\,7\,]\,\,-\,1\,
                                            f[0, 8] - f[0, 9] - f[0, 10] + f[1, 1] + f[1, 2] + f[1, 3] - f[1, 5] - f[1, 6] -
                                            f[1, 7] - f[1, 8] + f[2, -2] + f[2, -1] + f[2, 0] - f[2, 3] - f[2, 4] - f[2, 5] -
                                            f[2, 6] + f[3, -5] + f[3, -4] + f[3, -3] - f[3, 1] - f[3, 2] - f[3, 3] - f[3, 4] +
                                            f[4, -8] + f[4, -7] + f[4, -6] - f[4, -1] - f[4, 0] - f[4, 1] - f[4, 2],
\texttt{f}[-4\,,\,16] \rightarrow \texttt{1} - \texttt{f}[-3\,,\,16] + \texttt{f}[-2\,,\,11] - \texttt{f}[-2\,,\,13] - \texttt{f}[-2\,,\,14] + \texttt{f}[-1\,,\,8] + \texttt{f}[-1\,,\,9] - \texttt{f}[-1\,,\,10] - \texttt{f}[-1
                                             f[-1, 11] - f[-1, 12] + f[0, 5] + f[0, 6] - f[0, 8] - f[0, 9] - f[0, 10] + f[1, 2] + f[1, 3] - f[0, 9] + f[0, 10] + f[1, 10] + f[
                                             \texttt{f[1,6]} - \texttt{f[1,7]} - \texttt{f[1,8]} + \texttt{f[2,-1]} + \texttt{f[2,0]} - \texttt{f[2,4]} - \texttt{f[2,5]} - \texttt{f[2,6]} + \texttt{f[3,-4]} + \\
                                            f[3, -3] - f[3, 2] - f[3, 3] - f[3, 4] + f[4, -7] + f[4, -6] - f[4, 0] - f[4, 1] - f[4, 2]
\texttt{f}\,[\,-\,4\,,\,17\,]\,\rightarrow\,-\,\texttt{f}\,[\,-\,3\,,\,16\,]\,+\,\texttt{f}\,[\,-\,2\,,\,12\,]\,-\,\texttt{f}\,[\,-\,2\,,\,13\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,1\,,\,9\,]\,-\,\texttt{f}\,[\,-\,1\,,\,11\,]\,-\,\texttt{f}\,[\,-\,2\,,\,12\,]\,-\,\texttt{f}\,[\,-\,2\,,\,13\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,1\,,\,9\,]\,-\,\texttt{f}\,[\,-\,1\,,\,11\,]\,-\,\texttt{f}\,[\,-\,2\,,\,12\,]\,-\,\texttt{f}\,[\,-\,2\,,\,13\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,1\,,\,9\,]\,-\,\texttt{f}\,[\,-\,1\,,\,11\,]\,-\,\texttt{f}\,[\,-\,2\,,\,12\,]\,-\,\texttt{f}\,[\,-\,2\,,\,13\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,1\,,\,9\,]\,-\,\texttt{f}\,[\,-\,1\,,\,11\,]\,-\,\texttt{f}\,[\,-\,2\,,\,12\,]\,-\,\texttt{f}\,[\,-\,2\,,\,13\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,+\,\texttt{f}\,[\,-\,2\,,\,9\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,-\,2\,,\,14\,]\,-\,\texttt{f}\,[\,
                                            f[-1, 12] + f[0, 6] - f[0, 9] - f[0, 10] + f[1, 3] - f[1, 7] - f[1, 8] + f[2, 0] - f[1, 12] + f[1
```

```
f[2, 5] - f[2, 6] + f[3, -3] - f[3, 3] - f[3, 4] + f[4, -6] - f[4, 1] - f[4, 2]
\texttt{f}[-4\,,\,18] \,\rightarrow\, -\,\texttt{f}[-3\,,\,16]\,\,-\,\texttt{f}[-2\,,\,14]\,\,-\,\texttt{f}[-1\,,\,12]\,\,-\,\texttt{f}[0\,,\,10]\,\,-\,\texttt{f}[1\,,\,8]\,\,-\,\texttt{f}[2\,,\,6]\,\,-\,\texttt{f}[3\,,\,4]\,\,-\,\texttt{f}[4\,,\,2]\,,
f[-4,20] \rightarrow
                          -f[-3, 17] - f[-2, 14] - f[-1, 11] - f[0, 8] - f[1, 5] - f[2, 2] - f[3, -1] - f[4, -4],
 f[-3,-2] \rightarrow f[-3,16] - f[-2,-5] - f[-2,-4] + f[-2,13] + f[-2,14] - f[-1,-8] - f[-1,-8]
                                             f[-1, -7] - f[-1, -6] + f[-1, 10] + f[-1, 11] + f[-1, 12] - f[0, -11] - f[0, -10] - f[0, -9] - f
                                            f[0, -8] + f[0, 7] + f[0, 8] + f[0, 9] + f[0, 10] - f[1, -14] - f[1, -13] - f[1, -12] -
                                            f[1, -11] - f[1, -10] + f[1, 4] + f[1, 5] + f[1, 6] + f[1, 7] + f[1, 8] - f[2, -17] - f[1, 8]
                                             \texttt{f[2,-16]} - \texttt{f[2,-15]} - \texttt{f[2,-14]} - \texttt{f[2,-13]} - \texttt{f[2,-12]} + \texttt{f[2,1]} + \texttt{f[2,2]} + \texttt{f[2,3]} + \texttt{f[2,-15]} + \texttt{f[2
                                             \texttt{f[2,4]} + \texttt{f[2,5]} + \texttt{f[2,6]} - \texttt{f[3,-20]} - \texttt{f[3,-19]} - \texttt{f[3,-18]} - \texttt{f[3,-17]} - \texttt{f[3,-16]} - \texttt{f[3,-18]} - \texttt{f[3,-17]} - \texttt{f[3,-18]} - \texttt{f[3
                                             \texttt{f[3,-15]} - \texttt{f[3,-14]} + \texttt{f[3,-2]} + \texttt{f[3,-1]} + \texttt{f[3,0]} + \texttt{f[3,1]} + \texttt{f[3,2]} + \texttt{f[3,3]} + \texttt{f[3,4]} - \texttt{f[3,4]} + \texttt{f[3,4]}
                                             \texttt{f} \left[ 4 \,,\, -23 \right] \,-\, \texttt{f} \left[ 4 \,,\, -22 \right] \,-\, \texttt{f} \left[ 4 \,,\, -21 \right] \,-\, \texttt{f} \left[ 4 \,,\, -20 \right] \,-\, \texttt{f} \left[ 4 \,,\, -19 \right] \,-\, \texttt{f} \left[ 4 \,,\, -18 \right] \,-\, \texttt{f} \left[ 4 \,,\, -17 \right] \,-\, \texttt{f} \left[ 4 \,,\, -17 \right] \,-\, \texttt{f} \left[ 4 \,,\, -18 
                                             f[4, -16] + f[4, -5] + f[4, -4] + f[4, -3] + f[4, -2] + f[4, -1] + f[4, 0] + f[4, 1] + f[4, 2], 
\texttt{f} \, [\, -3 \, , \, -1 \, ] \, \rightarrow \, -1 \, + \, \texttt{f} \, [\, -3 \, , \, \, 16 \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, -4 \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, -3 \, ] \, + \, \texttt{f} \, [\, -2 \, , \, \, 13 \, ] \, + \, \texttt{f} \, [\, -2 \, , \, \, 14 \, ] \, - \, \texttt{f} \, [\, -1 \, , \, \, -7 \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, -2 \, ] \, + \, \texttt{f} \, [\, -2 \, , \, \, 13 \, ] \, + \, \texttt{f} \, [\, -2 \, , \, \, 14 \, ] \, - \, \texttt{f} \, [\, -1 \, , \, \, -7 \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, \, 14 \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, \, \, 14 \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, \, \, \, \, ] \, + \, \texttt{f} \, [\, -2 \, , \, \, \, \, \, ] \, + \, \texttt{f} \, [\, -2 \, , \, \, \, \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, \, \, ] \, + \, \texttt{f} \, [\, -2 \, , \, \, \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [\, -2 \, , \, \, ] \, - \, \texttt{f} \, [
                                            f[-1, -6] - f[-1, -5] + f[-1, 10] + f[-1, 11] + f[-1, 12] - f[0, -10] - f[0, -9] -
                                             \texttt{f[0,-8]} - \texttt{f[0,-7]} + \texttt{f[0,7]} + \texttt{f[0,8]} + \texttt{f[0,9]} + \texttt{f[0,10]} - \texttt{f[1,-13]} - \texttt{f[1,-12]} - \texttt{f[1,-12]} - \texttt{f[1,-13]} + \texttt{f[1,-12]} - \texttt{f[1,-13]} + \texttt{f[1,-13]} - \texttt{f[1,-13]} + \texttt{f[1,-13]} - \texttt{f[1,-1
                                             f[1, -11] - f[1, -10] - f[1, -9] + f[1, 4] + f[1, 5] + f[1, 6] + f[1, 7] + f[1, 8] - f[2, -16] - f[1, -10] + f[
                                             f[2, -15] - f[2, -14] - f[2, -13] - f[2, -12] - f[2, -11] + f[2, 1] + f[2, 2] + f[2, 3] + f[2
                                             f[2, 4] + f[2, 5] + f[2, 6] - f[3, -19] - f[3, -18] - f[3, -17] - f[3, -16] - f[3, -15] - f[3, -18] - f[3, -18]
                                             f[3, -14] - f[3, -13] + f[3, -2] + f[3, -1] + f[3, 0] + f[3, 1] + f[3, 2] + f[3, 3] + f[3, 4] - f[3, -14] + f[3, -13] + f[3
                                             \texttt{f[4,-22]} - \texttt{f[4,-21]} - \texttt{f[4,-20]} - \texttt{f[4,-19]} - \texttt{f[4,-18]} - \texttt{f[4,-17]} - \texttt{f[4,-16]} - \texttt{f[4,-18]} -
                                             f[4, -15] + f[4, -5] + f[4, -4] + f[4, -3] + f[4, -2] + f[4, -1] + f[4, 0] + f[4, 1] + f[4, 2], 
 f[-3, 0] \rightarrow -1 + f[-3, 16] - f[-2, -3] - f[-2, -2] + f[-2, 13] + f[-2, 14] - f[-1, -6] -
                                            f[-1, -5] - f[-1, -4] + f[-1, 10] + f[-1, 11] + f[-1, 12] - f[0, -9] - f[0, -8] - f[0, -7] - f[0, -7] - f[0, -8]
                                            f[0, -6] + f[0, 7] + f[0, 8] + f[0, 9] + f[0, 10] - f[1, -12] - f[1, -11] - f[1, -10] -
                                             f[1, -9] - f[1, -8] + f[1, 4] + f[1, 5] + f[1, 6] + f[1, 7] + f[1, 8] - f[2, -15] - f[2, -14] - f[2, -14] - f[2, -15] + f[2, -15] - f[2, -14] - f[2, -15] + f[2, -15] - f[2
                                             f[2, -13] - f[2, -12] - f[2, -11] - f[2, -10] + f[2, 1] + f[2, 2] + f[2, 3] + f[2, 4] + f[2, 
                                            f[2, 5] + f[2, 6] - f[3, -18] - f[3, -17] - f[3, -16] - f[3, -15] - f[3, -14] - f[3, -13] - f[3, -18] - f[3, -18
                                             \texttt{f[3,-12]} + \texttt{f[3,-2]} + \texttt{f[3,-1]} + \texttt{f[3,0]} + \texttt{f[3,1]} + \texttt{f[3,2]} + \texttt{f[3,3]} + \texttt{f[3,4]} - \texttt{f[4,-21]} - \texttt{f[4,-21]} + \texttt{f[3,-2]} + \texttt{f[
                                            f[4, -20] - f[4, -19] - f[4, -18] - f[4, -17] - f[4, -16] - f[4, -15] - f[4, -14] +
                                             f[4, -5] + f[4, -4] + f[4, -3] + f[4, -2] + f[4, -1] + f[4, 0] + f[4, 1] + f[4, 2], 
 f[-3, 1] \rightarrow f[-3, 16] - f[-2, -2] - f[-2, -1] + f[-2, 13] + f[-2, 14] - f[-1, -5] -
                                            f[-1, -4] - f[-1, -3] + f[-1, 10] + f[-1, 11] + f[-1, 12] - f[0, -8] - f[0, -7] - f[0, -7]
                                             f[0, -6] - f[0, -5] + f[0, 7] + f[0, 8] + f[0, 9] + f[0, 10] - f[1, -11] - f[1, -10] - 
                                             \texttt{f}[1,-9] - \texttt{f}[1,-8] - \texttt{f}[1,-7] + \texttt{f}[1,4] + \texttt{f}[1,5] + \texttt{f}[1,6] + \texttt{f}[1,7] + \texttt{f}[1,8] - \texttt{f}[2,-14] - \texttt{f}[1,6] + \texttt{f}[1,7] + \texttt{f}[1,8] - \texttt{f}[2,-14] - \texttt{f}[1,6] + \texttt{f}[1,6
                                             f[2, -13] - f[2, -12] - f[2, -11] - f[2, -10] - f[2, -9] + f[2, 1] + f[2, 2] + f[2, 3] + f[2,
                                            f[2, 4] + f[2, 5] + f[2, 6] - f[3, -17] - f[3, -16] - f[3, -15] - f[3, -14] - f[3, -13] - f[3, -18]
                                             \texttt{f[3,-12]} - \texttt{f[3,-11]} + \texttt{f[3,-2]} + \texttt{f[3,-1]} + \texttt{f[3,0]} + \texttt{f[3,1]} + \texttt{f[3,2]} + \texttt{f[3,3]} + \texttt{f[3,4]} - \texttt{f[3,-1]} + \texttt{f[3
                                             f[4, -20] - f[4, -19] - f[4, -18] - f[4, -17] - f[4, -16] - f[4, -15] - f[4, -14] - f[4, -18] - f[4
                                             f[4, -13] + f[4, -5] + f[4, -4] + f[4, -3] + f[4, -2] + f[4, -1] + f[4, 0] + f[4, 1] + f[4, 2], 
f[-1, -3] - f[-1, -2] + f[-1, 10] + f[-1, 11] + f[-1, 12] - f[0, -7] - f[0, -6] -
                                             f[0, -5] - f[0, -4] + f[0, 7] + f[0, 8] + f[0, 9] + f[0, 10] - f[1, -10] - f[1, -9] -
                                             f[1, -8] - f[1, -7] - f[1, -6] + f[1, 4] + f[1, 5] + f[1, 6] + f[1, 7] + f[1, 8] - f[2, -13] - f[1, -8] + f
                                             f[2, -12] - f[2, -11] - f[2, -10] - f[2, -9] - f[2, -8] + f[2, 1] + f[2, 2] + f[2, 3] + f[2, 
                                            f[2, 4] + f[2, 5] + f[2, 6] - f[3, -16] - f[3, -15] - f[3, -14] - f[3, -13] - f[3, -12] - f[3, -14] 
                                            f[3, -11] - f[3, -10] + f[3, -2] + f[3, -1] + f[3, 0] + f[3, 1] + f[3, 2] + f[3, 3] + f[3, 4] - f[3, -11] + f[3, -1] + 
                                             f[4, -19] - f[4, -18] - f[4, -17] - f[4, -16] - f[4, -15] - f[4, -14] - f[4, -13] - f[4, -18] - f[4
                                             f[4, -12] + f[4, -5] + f[4, -4] + f[4, -3] + f[4, -2] + f[4, -1] + f[4, 0] + f[4, 1] + f[4, 2], 
\texttt{f} \hspace{0.1cm} [-3 \hspace{0.1cm}, \hspace{0.1cm} 3] \hspace{0.1cm} \rightarrow \hspace{0.1cm} 3 \hspace{0.1cm} + \hspace{0.1cm} \texttt{f} \hspace{0.1cm} [-3 \hspace{0.1cm}, \hspace{0.1cm} 16] \hspace{0.1cm} - \hspace{0.1cm} \texttt{f} \hspace{0.1cm} [-2 \hspace{0.1cm}, \hspace{0.1cm} 0] \hspace{0.1cm} - \hspace{0.1cm} \texttt{f} \hspace{0.1cm} [-2 \hspace{0.1cm}, \hspace{0.1cm} 1] \hspace{0.1cm} + \hspace{0.1cm} \texttt{f} \hspace{0.1cm} [-2 \hspace{0.1cm}, \hspace{0.1cm} 14] \hspace{0.1cm} - \hspace{0.1cm} \texttt{f} \hspace{0.1cm} [-1 \hspace{0.1cm}, \hspace{0.1cm} -3] \hspace{0.1cm} - \hspace{0.1cm} \texttt{f} \hspace{0.1cm} [-2 \hspace{0.1cm}, \hspace{0.1cm} 14] \hspace{0.1cm} - \hspace{0.1cm} \texttt{f} \hspace{0.1cm} [-1 \hspace{0.1cm}, \hspace{0.1cm} -3] \hspace{0.1cm} - \hspace{0.1cm} \texttt{f} \hspace{0.1cm} [-2 \hspace{0.1cm}, \hspace{0.1cm} 14] \hspace{0.1cm} - \hspace{0.1cm} \texttt{f} \hspace{0.1cm} [-2 \hspace{0.1cm}, \hspace{0.1cm} 14] \hspace{0.1cm} - \hspace{0.1cm} \texttt{f} \hspace{0.1cm} [-2 \hspace{0.1cm}, \hspace{0.1cm} 14] \hspace{0.1cm} - \hspace{0.1cm} \texttt{f} \hspace{0.1cm} [-2 \hspace{0.1cm}, \hspace{0.1cm} 14] \hspace{0.1cm} - \hspace{0.1cm} \texttt{f} \hspace{0.1cm} [-2 \hspace{0.1cm}, \hspace{0.1cm} 14] \hspace{0.1cm} - \hspace{0.1cm} \texttt{f} \hspace{0.1cm} [-2 \hspace{0.1cm}, \hspace{0.1cm} 14] \hspace{0.1cm} - \hspace{0.1cm} \texttt{f} \hspace{0.1cm} [-2 \hspace{0.1cm}, \hspace{0.1cm} 14] \hspace{0.1cm} - \hspace{0.1cm} \texttt{f} \hspace{0.1cm} [-2 \hspace{0.1cm}, \hspace{0.1cm} 14] \hspace{0.1cm} - \hspace{0.1cm} \texttt{f} \hspace{0.1cm} [-2 \hspace{0.1cm}, \hspace{0.1cm} 14] \hspace{0.1cm} - \hspace{0.1cm} \texttt{f} \hspace{0.1cm} [-2 \hspace{0.1cm}, \hspace{0.1cm} 14] \hspace{0.1cm} - \hspace{0.1cm} \texttt{f} \hspace{0.1cm} [-2 \hspace{0.1cm}, \hspace{0.1cm} 14] \hspace{0.1cm} - \hspace{0.1c
                                            f[-1, -2] - f[-1, -1] + f[-1, 10] + f[-1, 11] + f[-1, 12] - f[0, -6] - f[0, -5] - f[0, -5]
                                             f \left[ \, 0 \,,\, -4 \, \right] \,-\, f \left[ \, 0 \,,\, -3 \, \right] \,+\, f \left[ \, 0 \,,\, 7 \, \right] \,+\, f \left[ \, 0 \,,\, 8 \, \right] \,+\, f \left[ \, 0 \,,\, 9 \, \right] \,+\, f \left[ \, 0 \,,\, 10 \, \right] \,-\, f \left[ \, 1 \,,\, -9 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] \,-\, f \left[ \, 1 \,,\, -8 \, \right] 
                                            f[1, -7] - f[1, -6] - f[1, -5] + f[1, 4] + f[1, 5] + f[1, 6] + f[1, 7] + f[1, 8] - f[2, -12] -
                                             \texttt{f}[2,-11] - \texttt{f}[2,-10] - \texttt{f}[2,-9] - \texttt{f}[2,-8] - \texttt{f}[2,-7] + \texttt{f}[2,1] + \texttt{f}[2,2] + \texttt{f}[2,3] + \texttt{f}[2,1] + \texttt{f}[2,2] + \texttt{f}[2,3] + \texttt{f}[2,3
                                             \texttt{f[2,4]} + \texttt{f[2,5]} + \texttt{f[2,6]} - \texttt{f[3,-15]} - \texttt{f[3,-14]} - \texttt{f[3,-13]} - \texttt{f[3,-12]} - \texttt{f[3,-11]} - \texttt{f[3,-14]} - \texttt{f[3
```

```
 \texttt{f[3,-10]} - \texttt{f[3,-9]} + \texttt{f[3,-2]} + \texttt{f[3,-1]} + \texttt{f[3,0]} + \texttt{f[3,1]} + \texttt{f[3,2]} + \texttt{f[3,3]} + \texttt{f[3,4]} - \texttt{f[3,-10]} + \texttt{f[3,-10]} 
                                       f[4, -18] - f[4, -17] - f[4, -16] - f[4, -15] - f[4, -14] - f[4, -13] - f[4, -12] - f[4, -18]
                                        f[4, -11] + f[4, -5] + f[4, -4] + f[4, -3] + f[4, -2] + f[4, -1] + f[4, 0] + f[4, 1] + f[4, 2], 
\texttt{f}[-3\,,\,4] \,\rightarrow\, 3\,+\,\texttt{f}[-3\,,\,16]\,-\,\texttt{f}[-2\,,\,1]\,-\,\texttt{f}[-2\,,\,2]\,+\,\texttt{f}[-2\,,\,13]\,+\,\texttt{f}[-2\,,\,14]\,-\,\texttt{f}[-1\,,\,-2]\,-\,\texttt{f}[-2\,,\,2]\,+\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,\,2]\,-\,\texttt{f}[-2\,,
                                       f[-1, -1] - f[-1, 0] + f[-1, 10] + f[-1, 11] + f[-1, 12] - f[0, -5] - f[0, -4] - f[0, -3] - f[0, -4]
                                       f[0,-2]+f[0,7]+f[0,8]+f[0,9]+f[0,10]-f[1,-8]-f[1,-7]-f[1,-6]-f[1,-6]
                                       f[1, -5] - f[1, -4] + f[1, 4] + f[1, 5] + f[1, 6] + f[1, 7] + f[1, 8] - f[2, -11] -
                                       f[2, -10] - f[2, -9] - f[2, -8] - f[2, -7] - f[2, -6] + f[2, 1] + f[2, 2] + f[2, 3] 
                                        f[2,\,4] \,+\, f[2,\,5] \,+\, f[2,\,6] \,-\, f[3,\,-14] \,-\, f[3,\,-13] \,-\, f[3,\,-12] \,-\, f[3,\,-11] \,-\, f[3,\,-10] \,-\, f[3,\,
                                        \texttt{f[3,-9]} - \texttt{f[3,-8]} + \texttt{f[3,-2]} + \texttt{f[3,-1]} + \texttt{f[3,0]} + \texttt{f[3,1]} + \texttt{f[3,2]} + \texttt{f[3,3]} + \texttt{f[3,4]} - \texttt{f[3,4]} + \texttt{f[3,4]} +
                                       \texttt{f[4,-17]} - \texttt{f[4,-16]} - \texttt{f[4,-15]} - \texttt{f[4,-14]} - \texttt{f[4,-13]} - \texttt{f[4,-12]} - \texttt{f[4,-11]} + \texttt{f[4,-15]} - 
                                        f[4, -10] + f[4, -5] + f[4, -4] + f[4, -3] + f[4, -2] + f[4, -1] + f[4, 0] + f[4, 1] + f[4, 2], 
\texttt{f}[-3,\ 5] \ \rightarrow \ 3 + \texttt{f}[-3,\ 16] \ - \ \texttt{f}[-2,\ 2] \ - \ \texttt{f}[-2,\ 3] \ + \ \texttt{f}[-2,\ 13] \ + \ \texttt{f}[-2,\ 14] \ - \ \texttt{f}[-1,\ -1] \ - \ \texttt{f
                                       f[-1, 0] - f[-1, 1] + f[-1, 10] + f[-1, 11] + f[-1, 12] - f[0, -4] - f[0, -3] - f[0, -2] -
                                       f[0,-1]+f[0,7]+f[0,8]+f[0,9]+f[0,10]-f[1,-7]-f[1,-6]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]-f[1,-5]
                                       f[1, -4] - f[1, -3] + f[1, 4] + f[1, 5] + f[1, 6] + f[1, 7] + f[1, 8] - f[2, -10] -
                                       f[2, -9] - f[2, -8] - f[2, -7] - f[2, -6] - f[2, -5] + f[2, 1] + f[2, 2] + f[2, 3] +
                                        f[2,\,4] + f[2,\,5] + f[2,\,6] - f[3,\,-13] - f[3,\,-12] - f[3,\,-11] - f[3,\,-10] - f[3,\,-9] - f[3,\,-9
                                        \texttt{f[3,-8]} - \texttt{f[3,-7]} + \texttt{f[3,-2]} + \texttt{f[3,-1]} + \texttt{f[3,0]} + \texttt{f[3,1]} + \texttt{f[3,2]} + \texttt{f[3,3]} + \texttt{f[3,4]} - \texttt{f[3,-1]} + \texttt{f[3,-
                                       f[4, -16] - f[4, -15] - f[4, -14] - f[4, -13] - f[4, -12] - f[4, -11] - f[4, -10] - f[4,
                                        f[4, -9] + f[4, -5] + f[4, -4] + f[4, -3] + f[4, -2] + f[4, -1] + f[4, 0] + f[4, 1] + f[4, 2], 
\texttt{f}[-3,\,6] \rightarrow \texttt{3} + \texttt{f}[-3,\,16] - \texttt{f}[-2,\,3] - \texttt{f}[-2,\,4] + \texttt{f}[-2,\,13] + \texttt{f}[-2,\,14] - \texttt{f}[-1,\,0] - \texttt{f}
                                        f[-1, 1] - f[-1, 2] + f[-1, 10] + f[-1, 11] + f[-1, 12] - f[0, -3] - f[0, -2] - f[0, -1] - f[0, 
                                       f[0, 0] + f[0, 7] + f[0, 8] + f[0, 9] + f[0, 10] - f[1, -6] - f[1, -5] - f[1, -4] -
                                       f[1, -3] - f[1, -2] + f[1, 4] + f[1, 5] + f[1, 6] + f[1, 7] + f[1, 8] - f[2, -9] - f[2, -8] -
                                        f[2, -7] - f[2, -6] - f[2, -5] - f[2, -4] + f[2, 1] + f[2, 2] + f[2, 3] + f[2, 4] + f[2, 5] +
                                        f[2,\,6] - f[3,\,-12] - f[3,\,-11] - f[3,\,-10] - f[3,\,-9] - f[3,\,-8] - f[3,\,-7] - f[3,\,-6] + f[3,\,-8] - f[3,\,-
                                       f[3, -2] + f[3, -1] + f[3, 0] + f[3, 1] + f[3, 2] + f[3, 3] + f[3, 4] - f[4, -15]
                                        \texttt{f[4,-14]} - \texttt{f[4,-13]} - \texttt{f[4,-12]} - \texttt{f[4,-11]} - \texttt{f[4,-10]} - \texttt{f[4,-9]} - \texttt{f[4,-8]} + \\
                                       f[4, -5] + f[4, -4] + f[4, -3] + f[4, -2] + f[4, -1] + f[4, 0] + f[4, 1] + f[4, 2],
\texttt{f}[-3\,,\,7] \,\rightarrow\, \texttt{f}[-3\,,\,16] \,-\, \texttt{f}[-2\,,\,4] \,-\, \texttt{f}[-2\,,\,5] \,+\, \texttt{f}[-2\,,\,13] \,+\, \texttt{f}[-2\,,\,14] \,-\, \texttt{f}[-1\,,\,1] \,-\, \texttt{f}[-1\,,\,2] \,-\, \texttt
                                        f[-1, 3] + f[-1, 10] + f[-1, 11] + f[-1, 12] - f[0, -2] - f[0, -1] - f[0, 0] - f[0, 1] + f[0, 0] - f[0,
                                        \texttt{f[0,7]} + \texttt{f[0,8]} + \texttt{f[0,9]} + \texttt{f[0,10]} - \texttt{f[1,-5]} - \texttt{f[1,-4]} - \texttt{f[1,-3]} - \texttt{f[1,-2]} - \texttt{f[1,-4]} - \texttt{f[1,-3]} - \texttt{f[1,-2]} - \texttt{f[1,-4]} - \texttt{f[1
                                        f[1,-1] + f[1,4] + f[1,5] + f[1,6] + f[1,7] + f[1,8] - f[2,-8] - f[2,-7] - f[2,-6] - f[2,-7] + f[2,-7] 
                                       f[2, -5] - f[2, -4] - f[2, -3] + f[2, 1] + f[2, 2] + f[2, 3] + f[2, 4] + f[2, 5] +
                                       f[2, 6] - f[3, -11] - f[3, -10] - f[3, -9] - f[3, -8] - f[3, -7] - f[3, -6] - f[3, -5] + f[3, -6] - f[3, -6]
                                       f[3, -2] + f[3, -1] + f[3, 0] + f[3, 1] + f[3, 2] + f[3, 3] + f[3, 4] - f[4, -14] -
                                       f[4, -13] - f[4, -12] - f[4, -11] - f[4, -10] - f[4, -9] - f[4, -8] - f[4, -7] +
                                       f[4, -5] + f[4, -4] + f[4, -3] + f[4, -2] + f[4, -1] + f[4, 0] + f[4, 1] + f[4, 2],
\texttt{f}[-3,\,8] \rightarrow \texttt{f}[-3,\,16] - \texttt{f}[-2,\,5] - \texttt{f}[-2,\,6] + \texttt{f}[-2,\,13] + \texttt{f}[-2,\,14] - \texttt{f}[-1,\,2] - \texttt{f}[-1,\,3] - \texttt{f}[-1,\,3]
                                        f[-1,\,4] \,+\, f[-1,\,10] \,+\, f[-1,\,11] \,+\, f[-1,\,12] \,-\, f[0,\,-1] \,-\, f[0,\,0] \,-\, f[0,\,1] \,-\, f[0,\,2] \,+\, f[0,\,2]
                                       f[0, 7] + f[0, 8] + f[0, 9] + f[0, 10] - f[1, -4] - f[1, -3] - f[1, -2] - f[1, -1]
                                       f[1, 0] + f[1, 4] + f[1, 5] + f[1, 6] + f[1, 7] + f[1, 8] - f[2, -7] - f[2, -6] - f[2, -5] -
                                       f[2, -4] - f[2, -3] - f[2, -2] + f[2, 1] + f[2, 2] + f[2, 3] + f[2, 4] + f[2, 5] +
                                        \texttt{f[2,6]} - \texttt{f[3,-10]} - \texttt{f[3,-9]} - \texttt{f[3,-8]} - \texttt{f[3,-7]} - \texttt{f[3,-6]} - \texttt{f[3,-5]} - \texttt{f[3,-4]} + \texttt{f[3,-6]} - \texttt{
                                       f[3, -2] + f[3, -1] + f[3, 0] + f[3, 1] + f[3, 2] + f[3, 3] + f[3, 4] - f[4, -13] -
                                       f[4, -12] - f[4, -11] - f[4, -10] - f[4, -9] - f[4, -8] - f[4, -7] - f[4, -6] +
                                       f[4, -5] + f[4, -4] + f[4, -3] + f[4, -2] + f[4, -1] + f[4, 0] + f[4, 1] + f[4, 2]
\texttt{f}[-3,\,9] \rightarrow -3 + \texttt{f}[-3,\,16] - \texttt{f}[-2,\,6] - \texttt{f}[-2,\,7] + \texttt{f}[-2,\,13] + \texttt{f}[-2,\,14] - \texttt{f}[-1,\,3] - \texttt{f}[-1,\,4] - \texttt{f}[-
                                        f[-1, 5] + f[-1, 10] + f[-1, 11] + f[-1, 12] - f[0, 0] - f[0, 1] - f[0, 2] - f[0, 3] + f[0, 7] + f[0, 7
                                        f[0, 8] + f[0, 9] + f[0, 10] - f[1, -3] - f[1, -2] - f[1, -1] - f[1, 0] - f[1, 1] + f[1, 4] +
                                       f[1, 5] + f[1, 6] + f[1, 7] + f[1, 8] - f[2, -6] - f[2, -5] - f[2, -4] - f[2, -3] - f[2, -2] -
                                       f[2,-1]+f[2,1]+f[2,2]+f[2,3]+f[2,4]+f[2,5]+f[2,6]-f[3,-9]-f[3,-8]-
                                        \texttt{f}[3,-7] - \texttt{f}[3,-6] - \texttt{f}[3,-5] - \texttt{f}[3,-4] - \texttt{f}[3,-3] + \texttt{f}[3,-2] + \texttt{f}[3,-1] + \texttt{f}[3,0] + \texttt{f}[3,1] + \texttt{f}[3,-2] + \texttt{f}
                                        \texttt{f[3,2]} + \texttt{f[3,3]} + \texttt{f[3,4]} - \texttt{f[4,-12]} - \texttt{f[4,-11]} - \texttt{f[4,-10]} - \texttt{f[4,-9]} - \texttt{f[4,-8]} - \texttt{
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 f[4, -7] - f[4, -6] + f[4, -4] + f[4, -3] + f[4, -2] + f[4, -1] + f[4, 0] + f[4, 1] + f[4, 2], 
f[-3, 10] \rightarrow -3 + f[-3, 16] - f[-2, 7] - f[-2, 8] + f[-2, 13] + f[-2, 14] - f[-1, 4] - f[-1, 4]
                  f[-1, 5] - f[-1, 6] + f[-1, 10] + f[-1, 11] + f[-1, 12] - f[0, 1] - f[0, 2] - f[0, 3] - f[0, 3]
                   \texttt{f[0,4]} + \texttt{f[0,7]} + \texttt{f[0,8]} + \texttt{f[0,9]} + \texttt{f[0,10]} - \texttt{f[1,-2]} - \texttt{f[1,-1]} - \texttt{f[1,0]} - \texttt{f[1,1]} - \texttt{f[1,0]} - \texttt{f[1,1]} - \texttt{f[1,0]} - 
                  f[1, 2] + f[1, 4] + f[1, 5] + f[1, 6] + f[1, 7] + f[1, 8] - f[2, -5] - f[2, -4] - f[2, -3] -
                  f[2, -2] - f[2, -1] - f[2, 0] + f[2, 1] + f[2, 2] + f[2, 3] + f[2, 4] + f[2, 5] + f[2, 6] -
                  f[3, -8] - f[3, -7] - f[3, -6] - f[3, -5] - f[3, -4] - f[3, -3] + f[3, -1] + f[3, 0] + f[3, -1]
                   \texttt{f[3,1]} + \texttt{f[3,2]} + \texttt{f[3,3]} + \texttt{f[3,4]} - \texttt{f[4,-11]} - \texttt{f[4,-10]} - \texttt{f[4,-9]} - \texttt{f[4,-8]} - 
                   \texttt{f}[4,-7] - \texttt{f}[4,-6] + \texttt{f}[4,-3] + \texttt{f}[4,-2] + \texttt{f}[4,-1] + \texttt{f}[4,0] + \texttt{f}[4,1] + \texttt{f}[4,2] \,, \\
 f[-3, 11] \rightarrow -2 + f[-3, 16] - f[-2, 8] - f[-2, 9] + f[-2, 13] + f[-2, 14] - f[-1, 5] - f[-1, 5] + f[-2, 14] - f[-1, 5] - f[-1, 5] + f[-2, 14] - f[-1, 5] + f[-2, 14] - f[-1, 5] + f[-2, 14] - f[-2, 
                  f[-1, 6] - f[-1, 7] + f[-1, 10] + f[-1, 11] + f[-1, 12] - f[0, 2] - f[0, 3] - f[0, 4] -
                  f[0, 5] + f[0, 7] + f[0, 8] + f[0, 9] + f[0, 10] - f[1, -1] - f[1, 0] - f[1, 1] - f[1, 2] - f[1, 0]
                   \texttt{f[1,3]} + \texttt{f[1,4]} + \texttt{f[1,5]} + \texttt{f[1,6]} + \texttt{f[1,7]} + \texttt{f[1,8]} - \texttt{f[2,-4]} - \texttt{f[2,-3]} - \texttt{f[2,-2]} - \texttt{f[2,-4]} + \texttt{f[1,4]} +
                  f[2,-1]-f[2,0]+f[2,2]+f[2,3]+f[2,4]+f[2,5]+f[2,6]-f[3,-7]-f[3,-6]-f[3,-7]
                   \texttt{f[3,-5]} - \texttt{f[3,-4]} - \texttt{f[3,-3]} + \texttt{f[3,0]} + \texttt{f[3,1]} + \texttt{f[3,2]} + \texttt{f[3,3]} + \texttt{f[3,4]} - \texttt{f[4,-10]} - \texttt{f[4,-10]} + \texttt{f[3,-5]} + \texttt{f[3,-6]} + \texttt{f[3,6]} + \texttt{f[3,
                  f[4, -9] - f[4, -8] - f[4, -7] - f[4, -6] + f[4, -2] + f[4, -1] + f[4, 0] + f[4, 1] + f[4, 2],
 f\,[\,-\,3\,,\,\,12\,] \,\rightarrow\, -\,2\,+\,f\,[\,-\,3\,,\,\,16\,]\,\,-\,f\,[\,-\,2\,,\,\,9\,]\,\,-\,f\,[\,-\,2\,,\,\,10\,]\,\,+\,f\,[\,-\,2\,,\,\,13\,]\,\,+\,f\,[\,-\,2\,,\,\,14\,]\,\,-\,f\,[\,-\,1\,,\,\,6\,]\,\,-\,1\,
                  f[-1, 7] - f[-1, 8] + f[-1, 10] + f[-1, 11] + f[-1, 12] - f[0, 3] - f[0, 4] - f[0, 5] - f[0, 6] +
                  f[0, 7] + f[0, 8] + f[0, 9] + f[0, 10] - f[1, 0] - f[1, 1] - f[1, 2] - f[1, 3] + f[1, 5] + f[1, 5]
                  f[1, 6] + f[1, 7] + f[1, 8] - f[2, -3] - f[2, -2] - f[2, -1] - f[2, 0] + f[2, 3] + f[2, 4] + f
                   f[2,5] + f[2,6] - f[3,-6] - f[3,-5] - f[3,-4] - f[3,-3] + f[3,1] + f[3,2] + f[3,3] + f[3,3
                   \texttt{f[3,4]} - \texttt{f[4,-9]} - \texttt{f[4,-8]} - \texttt{f[4,-7]} - \texttt{f[4,-6]} + \texttt{f[4,-1]} + \texttt{f[4,0]} + \texttt{f[4,1]} + \texttt{f[4,2]}, 
\texttt{f}\,[\,-\,3\,,\,\,13\,]\,\rightarrow\,-\,1\,+\,\texttt{f}\,[\,-\,3\,,\,\,16\,]\,-\,\texttt{f}\,[\,-\,2\,,\,\,10\,]\,-\,\texttt{f}\,[\,-\,2\,,\,\,11\,]\,+\,\texttt{f}\,[\,-\,2\,,\,\,13\,]\,+\,\texttt{f}\,[\,-\,2\,,\,\,14\,]\,-\,\texttt{f}\,[\,-\,1\,,\,\,7\,]\,-\,\frac{1}{2}\,[\,-\,1\,,\,\,2\,]\,
                  f[-1, 8] - f[-1, 9] + f[-1, 10] + f[-1, 11] + f[-1, 12] - f[0, 4] - f[0, 5] - f[0, 6] +
                  f[0, 8] + f[0, 9] + f[0, 10] - f[1, 1] - f[1, 2] - f[1, 3] + f[1, 6] + f[1, 7] + f[1, 8] -
                   f[2,-2] - f[2,-1] - f[2,0] + f[2,4] + f[2,5] + f[2,6] - f[3,-5] - f[3,-4] - f[3,-3] + f[3,-4] + f[3,-3] + f[3,-4] + f[3,-4]
                   \texttt{f[3,2]} + \texttt{f[3,3]} + \texttt{f[3,4]} - \texttt{f[4,-8]} - \texttt{f[4,-7]} - \texttt{f[4,-6]} + \texttt{f[4,0]} + \texttt{f[4,1]} + \texttt{f[4,2]}, \\
f[-3, 14] \rightarrow -1 + f[-3, 16] - f[-2, 11] - f[-2, 12] + f[-2, 13] + f[-2, 14] - f[-1, 8] - f[-1, 8]
                  f[-1, 9] + f[-1, 11] + f[-1, 12] - f[0, 5] - f[0, 6] + f[0, 9] + f[0, 10] -
                  f[1, 2] - f[1, 3] + f[1, 7] + f[1, 8] - f[2, -1] - f[2, 0] + f[2, 5] + f[2, 6] -
                  f[3, -4] - f[3, -3] + f[3, 3] + f[3, 4] - f[4, -7] - f[4, -6] + f[4, 1] + f[4, 2]
\texttt{f}\,[\,-\,3\,,\,\,15\,]\,\rightarrow\,\texttt{f}\,[\,-\,3\,,\,\,16\,]\,-\,\texttt{f}\,[\,-\,2\,,\,\,12\,]\,+\,\texttt{f}\,[\,-\,2\,,\,\,14\,]\,-\,\texttt{f}\,[\,-\,1\,,\,\,9\,]\,+\,\texttt{f}\,[\,-\,1\,,\,\,12\,]\,-\,\texttt{f}\,[\,0\,,\,\,6\,]\,+\,
                   \texttt{f[0,10]} - \texttt{f[1,3]} + \texttt{f[1,8]} - \texttt{f[2,0]} + \texttt{f[2,6]} - \texttt{f[3,-3]} + \texttt{f[3,4]} - \texttt{f[4,-6]} + \texttt{f[4,2]} \}
```

Note that the solutions depend on which and how many equations of the form "Sum[f[Q, 10 - 2 Q], {Q, -4, 4}] = 0" we add. For example, if there are no equations of the from LHS == 0 to be solved, then the solution produced by *Mathematica* with the maximal number of f's zero is:

```
\begin{array}{ll} |_{\text{In}[8]:=} & \{\text{f}[-4,\,1] \rightarrow -1,\,\text{f}[-4,\,3] \rightarrow -1,\,\text{f}[-4,\,5] \rightarrow 2,\,\text{f}[-4,\,7] \rightarrow 1,\,\text{f}[-4,\,9] \rightarrow -1,\,\text{f}[-4,\,11] \rightarrow -1,\\ & \text{f}[-4,\,13] \rightarrow -1,\,\text{f}[-4,\,15] \rightarrow -1,\,\text{f}[-4,\,17] \rightarrow -1,\,\text{f}[-3,\,2] \rightarrow -3,\,\text{f}[-3,\,6] \rightarrow 3,\,\text{f}[-3,\,8] \rightarrow 3\}; \end{array}
```

However, if we solve all the equations in Solve[...] as written above, the *Mathematica* gives this as the solution with the maximal number of f's zero:

```
\begin{array}{ll} \ln[9] \coloneqq & \{f[-4,\,1] \to f[-4,\,2] \to 1,\, f[-4,\,5] \to -1,\, f[-4,\,6] \to -3,\, f[-4,\,7] \to -2,\\ & f[-4,\,8] \to -3,\, f[-4,\,9] \to -1,\, f[-4,\,11] \to 2,\, f[-4,\,12] \to 3,\, f[-4,\,13] \to 2,\\ & f[-4,\,14] \to 2,\, f[-4,\,15] \to 1,\, f[-4,\,16] \to 1,\, f[-3,\,-1] \to -1,\, f[-3,\,0] \to -1,\\ & f[-3,\,3] \to 3,\, f[-3,\,4] \to 3,\, f[-3,\,5] \to 3,\, f[-3,\,6] \to 3,\, f[-3,\,9] \to -3,\\ & f[-3,\,10] \to -3,\, f[-3,\,11] \to -2,\, f[-3,\,12] \to -2,\, f[-3,\,13] \to -1,\, f[-3,\,14] \to -1\}; \end{array}
```

Strangely, in both cases only f's with Q=-4 or Q=-3 appear, and "large" values like 3 appear.

Anyhow, let's now try to proceed as usual, i.e. write down what U should be for arbitrary n=N. For t^r-monomials with r<5 we do this by hand as before, and for r=6 we use the solution in the "paragraph" above, i.e.:

```
\ln[10] = \text{For}[Q = -4, Q \le 4, Q++, \text{For}[s = -23, s \le 23, s++, f[Q, s] = 0]];
                      f[-4, 2] = 1;
                      f[-4, 5] = -1;
                      f[-4, 6] = -3;
                      f[-4, 7] = -2;
                      f[-4, 8] = -3;
                      f[-4, 9] = -1;
                      f[-4, 11] = 2;
                      f[-4, 12] = 3;
                      f[-4, 13] = 2;
                      f[-4, 14] = 2;
                      f[-4, 15] = 1;
                      f[-4, 16] = 1;
                      f[-3, -1] = -1;
                      f[-3, 0] = -1;
                      f[-3, 3] = 3;
                      f[-3, 4] = 3;
                      f[-3, 5] = 3;
                      f[-3, 6] = 3;
                      f[-3, 9] = -3;
                      f[-3, 10] = -3;
                      f[-3, 11] = -2;
                      f[-3, 12] = -2;
                      f[-3, 13] = -1;
                      f[-3, 14] = -1;
\ln[35]:= UU[n_{-}] := Expand[-q^{(0n+5)} + q^{(2n+5)} - q^{(0n+3)} t^{2} + q^{(2n+1)} t^{2} - q^{(2n+1)} t^
                                     q^{(-2n+3)} t^3 + q^{(0n+1)} t^3 - q^{(0n-1)} t^4 + q^{(2n-3)} t^4 - q^{(-2n-1)} t^5 + q^5
                                     q^{(0n-3)}t^5 + t^6Sum[f[Q, s]q^{(nQ+s)}, \{Q, -4, 4\}, \{s, -23, 23\}]]
```

This function indeed reproduces the experimental results above (note however that I could only find the right t\(^6\)-term by including sufficiently many LHS == 0 terms in Solve[...] -- it might still be that there are non-vanishing  $D_{Q,s,r}$  missing):

```
ln[38]:= \{UU[2] - U2/. \{a \rightarrow 2 lk\}, UU[3] - U3/. \{a \rightarrow 2 lk\}\}
Out[38]= \{0, 0\}
```

Now we use [GSV, eq. (5.5)] with a=alpha=6 to define a candidate for the KR invariants for arbitrary n:

```
In(39):= KR[n_] := Expand[FullSimplify[Expand[Simplify[(q^(-2nlk))
                (t^a Simplify[((q^n-q^(-n))/(q-1/q))^2] + UU[n]/(q-1/q)))/. \{a \rightarrow 6\}]]]] \\
```

Check that we have not made a mistake so far:

```
ln[61]:= \{KR[2] - KR2, KR[3] - KR3\}
Out[61]= \{0, 0\}
```

That looks very good. Now I went on to write down the general candidate formula for KR\_n, but then I noticed that we actually have an N=4 result here against which KR[4] must be checked. OK, so our result is:

```
ln[62]:= KR4 =
                                                                  Expand[(t^6q^(10) + 2t^6q^8 + 3t^6q^6 + 3t^6q^4 + 2t^6q^2 + t^6 + t^5q^6 + t^5q^4 + 2t^6q^2 + t^6q^4 + 2t^6q^6 + t^5q^6 + t^6q^6 + t^6q^
                                                                                                         t^5q^2 + t^4q^{(14)} + t^4q^{(12)} + t^4q^{(10)} + t^3q^{(10)} + t^3q^8 + t^3q^6 +
                                                                                                         t^2q^(18) + t^2q^(16) + t^2q^(14) + q^(22) + q^(20) + q^(18) + q^(16)) / (q^(34));
```

Now the moment of truth:

$$In[63] = \mathbf{KR}[\mathbf{4}] - \mathbf{KR4}$$

$$Out[63] = -\frac{t^6}{q^{37}} + \frac{t^6}{q^{36}} + \frac{t^6}{q^{34}} + \frac{3}{q^{33}} - \frac{t^6}{q^{32}} + \frac{3}{q^{31}} - \frac{3}{q^{30}} - \frac{4}{q^{28}} - \frac{3}{q^{27}} - \frac{t^6}{q^{26}} - \frac{2}{q^{25}} + \frac{2}{q^{24}} - \frac{t^6}{q^{23}} + \frac{3}{q^{22}} + \frac{2}{q^{20}} + \frac{t^6}{q^{18}}$$

## **ARRRGGGHH!!!**

So this means that if the GSV trick is applicable here, I would have to add a lot more LHS == 0 equations to solve above. I don't want to do that, there is too much to be done by hand the way I went about it.