

Pensieve header: Cheap CF optimization for the NOE1 program (V4).

Initialization

```
SetDirectory["C:\\drorbn\\AcademicPensieve\\2016-12"];
Once[<< KnotTheory`];
Once[<< "../Projects/Profile/Profile.m"]
```

Loading KnotTheory` version of September 6, 2014, 13:37:37.2841.

Read more at <http://katlas.org/wiki/KnotTheory>.

This is Profile.m, Nov 2016 mods of July 1994 version

Rotational Virtual Knots

```
RVK::usage =
"RVK[xs, rots] represents a Rotational Virtual Knot with a list of n Xp/Xm crossings xs and
a length 2n list of rotation numbers rots. Crossing sites are indexed 1 through
2n, and rots[[k]] is the rotation between site k-1 and site k. RVK is also a casting
operator converting to the RVK presentation from other knot presentations.";
RVK[pd_PD] := Module[{n, xs, x, rots, front, k},
n = Length[pd];
xs = List @@ pd /. x_X => If[PositiveQ[x], Xp[x[[4]], x[[1]], Xm[x[[2]], x[[1]]]];
rots = Table[0, {2 n}];
front = {0};
For[k = 0, k < 2 n, ++k,
If[k == 0 || FreeQ[front, -k],
front = Flatten[front /. k -> Catch[xs /. {
Xp[k + 1, L_] | Xm[L_, k + 1] => Throw[{L, k + 1, 1 - L}],
Xp[L_, k + 1] | Xm[k + 1, L_] => (++rots[[L]]; Throw[{1 - L, k + 1, L})}]]],
If[MatchQ[front, {___, k, ___, -k, ___}], --rots[[k + 1]]]
];
RVK[xs, rots]
];
RVK[K_] := RVK[PD[K]];
```

NOE-It

Logos

$$\Delta[k_] := \left((t_k - 1) (2 (\alpha \beta + \delta \mu)^2 - \alpha^2 \beta^2) - 4 v_k c_k w_k \delta^2 \mu^2 - \delta (1 + \mu) (w_k^2 \alpha^2 + v_k^2 \beta^2) - v_k^2 w_k^2 \delta^3 (1 + 3 \mu) - 2 (\alpha \beta + 2 \delta \mu + v_k w_k \delta^2 (1 + 2 \mu) + 2 c_k \delta \mu^2) (w_k \alpha + v_k \beta) - 4 (c_k \mu^2 + v_k w_k \delta (1 + \mu)) (\alpha \beta + \delta \mu) (1 + t_k) \right) / 4;$$

1Gens

$$\begin{aligned} R_{i,j}^+ &:= \mathbb{E} \left[1, \text{Log}[t_i] c_j, v_i w_j, v_i c_i w_j + c_i c_j + v_i^2 w_j^2 / 4 \right]; \\ R_{i,j}^- &:= \mathbb{E} \left[1, -\text{Log}[t_i] c_j, -t_i^{-1} v_i w_j, -c_i c_j + t_i^{-1} v_i c_j w_j - t_i^{-2} v_i^2 w_j^2 / 4 \right]; \\ (ur_{i-} &:= \mathbb{E} [t_i^{-1/2}, 0, 0, c_i t_i^{-2}]; nr_{i-} := \mathbb{E} [t_i^{1/2}, 0, 0, -c_i t_i^2];) \end{aligned}$$

1DP

$$\begin{aligned} DP_{x \rightarrow \alpha, y \rightarrow \beta} [P_] [f_] &:= (* means P[\partial_\alpha, \partial_\beta] [f] *) \\ PP_{DP} @ Total[CoefficientRules[P, {x, y}] /. ({m_, n_} \to c_) => c D[f, {\alpha, m}, {\beta, n}]] \end{aligned}$$

1Util

```

CF[ $\mathbb{E}[\omega\_ , L\_ , Q\_ , P\_ ]]$  :=
  PPCF@ $\mathbb{E}[\text{Expand@Together}@\omega , \text{Expand@Together}@L , \text{Expand@Together}@Q , \text{Expand@PP}_{\text{Together4P}}@\text{Together}@P]$ ;
CF2[ $\mathbb{E}[\omega\_ , L\_ , Q\_ , P\_ ]]$  := PPCF2@ $\mathbb{E}[\text{Expand@Together}@\omega ,$ 
   $\text{Expand@Together}@L , \text{Expand@Together}@Q , \text{PP}_{\text{CF4P}}@\text{Module}[\{\text{vars}\} ,$ 
   $\text{vars} = \text{Union@Cases}[P , (c | v | w)\_ , \infty]$ ;
  Total[
    CoefficientRules[P, vars] /. (p_ -> cc_) -> (Expand@PPTogether4P@Together@cc) (Times@@(varsp))]
  ]];

```

1Util

```

 $\mathbb{E} /:$   $\mathbb{E}[\omega1\_ , L1\_ , Q1\_ , P1\_ ] \mathbb{E}[\omega2\_ , L2\_ , Q2\_ , P2\_ ] := \text{CF}@\mathbb{E}[\omega1 \omega2 , L1 + L2 , \omega2 Q1 + \omega1 Q2 , \omega2^4 P1 + \omega1^4 P2]$ ;

```

```

Simp[ $\mathcal{E}_$ ] := ExpandNumerator@ExpandDenominator@Together[ $\mathcal{E}_$ ];

```

1NOuw

```

Nwi vj -> k[ $\mathbb{E}[\omega\_ , L\_ , Q\_ , P\_ ]]$  := PPNwv@With[{q = ((1 - tk)  $\alpha \beta + \beta v_k + \delta v_k w_k + \alpha w_k$ ) /  $\mu$ }, CF[
  Echo[Simp /@ (
     $\mathbb{E}[\mu \eta , L , \mu \eta q + \mu (Q / . w_i | v_j \rightarrow \theta) , \mu^4 (DP_{w_i \rightarrow D_{\alpha}, v_j \rightarrow D_{\beta}}[P][e^q] / . e \rightarrow 1) + \eta^4 \Delta[k]) / .$ 
     $\mu \rightarrow 1 + (t_k - 1) \delta / . \{\alpha \rightarrow \eta^{-1} (\partial_{w_i} Q / . v_j \rightarrow \theta) , \beta \rightarrow \eta^{-1} (\partial_{v_j} Q / . w_i \rightarrow \theta) , \delta \rightarrow \eta^{-1} \partial_{w_i, v_j} Q\}$ 
  )]
] /.  $\eta \rightarrow \omega$ 
];

```

1NOc

```

Ncj (x:v|w) -> k[ $\mathbb{E}[\omega\_ , L\_ , Q\_ , P\_ ]]$  := PPNcx@With[{q =  $e^{\gamma} \beta x_k + \gamma c_k$ }, CF[
   $\mathbb{E}[\omega , \gamma c_k + (L / . c_j \rightarrow \theta) , \omega e^{\gamma} \beta x_k + (Q / . x_i \rightarrow \theta) , e^{-q} DP_{c_j \rightarrow D_{\gamma}, x_i \rightarrow D_{\beta}}[P][e^q]] / . \{\gamma \rightarrow \partial_{c_j} L , \beta \rightarrow \omega^{-1} \partial_{x_i} Q\}]$ ;

```

1m

```

mi, j -> k[Z_E] := PPm@Module[{x, z},
  CF[(Z // Nwi vj -> x // Nci vx -> x // Nwx cj -> x) / . z-i|j|x -> zk]]

```

Z

```

ul_ = nl_ = rot[_ , 0] =  $\mathbb{E}[1, 0, 0, 0]$ ;
rot[ $i_$  , 1] := uri;
rot[ $i_$  , n_Integer] /; n > 1 := Module[{y}, rot[ $i_$  , n - 1] rot[y, 1] // mi, y -> i];
rot[ $i_$  , -1] := nri;
rot[ $i_$  , n_Integer] /; n < -1 := Module[{y}, rot[ $i_$  , n + 1] rot[y, -1] // mi, y -> i];

```

```

t_ = t;
Z[K_] := Z[RVK@K];
Z[rvk_RVK] := PPz@Module[{todo, n, rots, ζ, done, st, x, ζ1, i, j, k, k1, k2, k3},
  {todo, rots} = List@@rvk;
AppendTo[rots, 0];
n = Length[todo];
ζ = E[1, 0, 0, 0];
done = {0};
st = Range[0, 2 n + 1];
While[todo != {},
  {x} = MaximalBy[todo, Length[done ∩ {#[[1]], #[[2]], #[[1]] - 1, #[[2]] - 1}] &, 1];
Z$todo = todo; Z$x = x;
{i, j} = List@@x;
ζ1 = Switch[Head[x],
  Xp, m_{j,k→j} [R_{i,j}^+ (R_{k3,k}^- nr_{k1} ul_{k2} // m_{k,k1→k} // m_{k,k2→k} // m_{k,k3→k})],
  Xm, m_{j,k→j} [R_{i,j}^- (R_{k,k3}^+ nr_{k1} ul_{k2} // m_{k,k1→k} // m_{k,k2→k} // m_{k,k3→k})]
];
ζ1 = rot[k, rots[[i]] ζ1 // m_{k,i→i}; rots[[i]] = 0;
ζ1 = ζ1 rot[k, rots[[i + 1]] // m_{i,k→i}; rots[[i + 1]] = 0;
ζ1 = rot[k, rots[[j]] ζ1 // m_{k,j→j}; rots[[j]] = 0;
ζ1 = ζ1 rot[k, rots[[j + 1]] // m_{j,k→j}; rots[[j + 1]] = 0;
ζ *= ζ1;
If[MemberQ[done, i], ζ = ζ // m_{i,i+1→i}; st = st /. st[[i + 2]] → st[[i + 1]];];
If[MemberQ[done, i - 1], ζ = ζ // m_{st[[i],i→st[[i]]}; st = st /. st[[i + 1]] → st[[i]];];
If[MemberQ[done, j], ζ = ζ // m_{j,j+1→j}; st = st /. st[[j + 2]] → st[[j + 1]];];
If[MemberQ[done, j - 1], ζ = ζ // m_{st[[j],j→st[[j]]}; st = st /. st[[j + 1]] → st[[j]];];
done = done ∪ {i - 1, i, j - 1, j};
todo = DeleteCases[todo, x];
];
ζ /. {V_0 → V, C_0 → C, W_0 → W}
]

```

The Trefoil

Timing[Z[Knot[3, 1]]]

 KnotTheory: Loading precomputed data in PD4Knots` 

- » $E\left[\eta, \text{Log}[t] C_{k3557}, \sqrt{t} V_{k557} W_{k3557}, \frac{1}{4} (-4 t^2 C_{k1557} + 4 t^2 C_{k3557} C_{k557} + 4 t^2 C_{k557} V_{k557} W_{k3557} + t^2 V_{k557}^2 W_{k3557}^2)\right]$
- » $E\left[\eta, \text{Log}[t] C_{k3557}, \sqrt{t} V_{k557} W_{k3557}, \frac{1}{4} (-4 t^2 C_{k557} + 4 t^2 C_{k3557} C_{k557} + 4 t^2 C_{k557} V_{k557} W_{k3557} + t^2 V_{k557}^2 W_{k3557}^2)\right]$
- » $E\left[\eta, \text{Log}[t] C_{k3557}, \sqrt{t} V_{k557} W_{k3557}, \frac{1}{4} (-4 t^2 C_{k557} + 4 t^2 C_{k3557} C_{k557} + 4 t^2 C_{k557} V_{k557} W_{k3557} + t^2 V_{k557}^2 W_{k3557}^2)\right]$
- » $E\left[\eta, -\text{Log}[t] C_1 + \text{Log}[t] C_{k557}, \frac{-\sqrt{t} V_4 W_{k557} + t^{3/2} V_4 W_{k557} + t \eta V_{x621} W_{k557} - \eta V_4 W_{x621}}{\sqrt{t} \eta}, \frac{1}{4 \sqrt{t} \eta} \left(-4 t^{5/2} \eta C_1 C_4 - 4 t^{5/2} \eta C_{k557} + 4 t^{5/2} \eta C_{k557}^2 + 4 t^2 C_1 V_4 W_{k557} - 4 t^3 C_1 V_4 W_{k557} - 4 t^2 C_{k557} V_4 W_{k557} + 4 t^3 C_{k557} V_4 W_{k557} + 4 \sqrt{t} \eta^3 C_{x621} V_4 W_{k557} + 4 t^{3/2} \eta^3 C_{x621} V_4 W_{k557} + 4 t^{5/2} \eta C_{k557} V_{x621} W_{k557} - \sqrt{t} \eta V_4^2 W_{k557}^2 + t^{5/2} \eta V_4^2 W_{k557}^2 - 2 t^2 V_4 V_{x621} W_{k557}^2 + 2 t^3 V_4 V_{x621} W_{k557}^2 + 2 t \eta^2 V_4 V_{x621} W_{k557}^2 + 2 t^2 \eta^2 V_4 V_{x621} W_{k557}^2 + t^{5/2} \eta V_{x621}^2 W_{k557}^2 + 4 t^{3/2} \eta C_1 V_4 W_{x621} - 2 t V_4^2 W_{k557} W_{x621} + 2 t^2 V_4^2 W_{k557} W_{x621} - 2 \eta^2 V_4^2 W_{k557} W_{x621} - 2 t \eta^2 V_4^2 W_{k557} W_{x621} - \sqrt{t} \eta V_4^2 W_{x621}^2\right)\right]$
- » $E\left[\eta, 0, V_1 W_1 - V_{x636} W_1, \frac{1}{4} (-4 t^4 C_1 + 4 t^4 C_1^2 - 4 t^4 C_1 C_4 - 4 t^4 C_{k557} + 4 t^3 C_1 V_1 W_1 - 4 t^3 C_4 V_1 W_1 + 4 t^3 C_1 V_{x636} W_1 + t^2 V_1^2 W_1^2 + 4 t^2 V_1 V_{x636} W_1^2 - t^2 V_{x636}^2 W_1^2)\right]$

- »
$$\mathbb{E} \left[\eta, \theta, v_1 w_1 - v_4 w_1, \frac{1}{4} \left(-4 t^4 c_1 + 4 t^4 c_1^2 - 4 t^4 c_4 - 4 t^4 c_1 c_4 + 4 t^3 c_1 v_1 w_1 - 4 t^3 c_4 v_1 w_1 + 4 t^3 v_4 w_1 + 4 t^3 c_1 v_4 w_1 + t^2 v_1^2 w_1^2 + 4 t^2 v_1 v_4 w_1^2 - t^2 v_4^2 w_1^2 \right) \right]$$
- »
$$\mathbb{E} \left[\eta, \theta, -v_4 w_1 + v_{x\$669} w_1, \frac{1}{4} \left(-4 t^4 c_1 + 4 t^4 c_1^2 - 4 t^4 c_4 - 4 t^4 c_1 c_4 + 4 t^3 v_4 w_1 + 4 t^3 c_1 v_4 w_1 + 4 t^3 c_1 v_{x\$669} w_1 - 4 t^3 c_4 v_{x\$669} w_1 - t^2 v_4^2 w_1^2 + 4 t^2 v_4 v_{x\$669} w_1^2 + t^2 v_{x\$669}^2 w_1^2 \right) \right]$$
- »
$$\mathbb{E} \left[\eta, \theta, v_1 w_{x\$684} - v_4 w_{x\$684}, \frac{1}{4} \left(-4 t^4 c_1 + 4 t^4 c_1^2 - 4 t^4 c_4 - 4 t^4 c_1 c_4 + 4 t^3 c_1 v_1 w_{x\$684} - 4 t^3 c_4 v_1 w_{x\$684} + 4 t^3 v_4 w_{x\$684} + 4 t^3 c_1 v_4 w_{x\$684} + t^2 v_1^2 w_{x\$684}^2 + 4 t^2 v_1 v_4 w_{x\$684}^2 - t^2 v_4^2 w_{x\$684}^2 \right) \right]$$
- »
$$\mathbb{E} \left[\eta, \theta, -v_4 w_1 + v_{x\$699} w_1, \frac{1}{4} \left(-4 t^4 c_1 + 4 t^4 c_1^2 - 4 t^4 c_4 - 4 t^4 c_1 c_4 + 4 t^3 v_4 w_1 + 4 t^3 c_1 v_4 w_1 + 4 t^3 c_1 v_{x\$699} w_1 - 4 t^3 c_4 v_{x\$699} w_1 - t^2 v_4^2 w_1^2 + 4 t^2 v_4 v_{x\$699} w_1^2 + t^2 v_{x\$699}^2 w_1^2 \right) \right]$$
- »
$$\mathbb{E} \left[\eta, \text{Log}[t] c_{k\$557}, \sqrt{t} v_{k\$557} w_{k\$557}, \frac{1}{4} \left(-4 t^2 c_{k\$557} + 4 t^2 c_{k\$557}^2 - 4 t^2 c_{k\$557} c_{k\$557} + 4 t^2 c_{k\$557} v_{k\$557} w_{k\$557} + t^2 v_{k\$557}^2 w_{k\$557}^2 \right) \right]$$
- »
$$\mathbb{E} \left[\eta, \text{Log}[t] c_{k\$557}, \sqrt{t} v_{k\$557} w_{k\$557}, \frac{1}{4} \left(-4 t^2 c_{k\$557} + 4 t^2 c_{k\$557}^2 - 4 t^2 c_{k\$557} c_{k\$557} + 4 t^2 c_{k\$557} v_{k\$557} w_{k\$557} + t^2 v_{k\$557}^2 w_{k\$557}^2 \right) \right]$$
- »
$$\mathbb{E} \left[\eta, \text{Log}[t] c_{k\$557}, \sqrt{t} v_{k\$557} w_{k\$557}, \frac{1}{4} \left(-4 t^2 c_{k\$557} + 4 t^2 c_{k\$557}^2 - 4 t^2 c_{k\$557} c_{k\$557} + 4 t^2 c_{k\$557} v_{k\$557} w_{k\$557} + t^2 v_{k\$557}^2 w_{k\$557}^2 \right) \right]$$
- »
$$\mathbb{E} \left[\eta, -\text{Log}[t] c_5 + \text{Log}[t] c_{k\$557}, \frac{-\sqrt{t} v_2 w_{k\$557} + t^{3/2} v_2 w_{k\$557} + t \eta v_{x\$760} w_{k\$557} - \eta v_2 w_{x\$760}}{\sqrt{t} \eta}, \frac{1}{4 \sqrt{t} \eta} \left(-4 t^{5/2} \eta c_2 c_5 - 4 t^{5/2} \eta c_{k\$557} c_5 + 4 t^{5/2} \eta c_{k\$557}^2 c_5 + 4 t^2 c_5 v_2 w_{k\$557} - 4 t^3 c_5 v_2 w_{k\$557} - 4 t^2 c_{k\$557} v_2 w_{k\$557} + 4 t^3 c_{k\$557} v_2 w_{k\$557} + 4 \sqrt{t} \eta^3 c_{x\$760} v_2 w_{k\$557} + 4 t^{3/2} \eta^3 c_{x\$760} v_2 w_{k\$557} + 4 t^{5/2} \eta c_{k\$557} v_{x\$760} w_{k\$557} - \sqrt{t} \eta v_2^2 w_{k\$557}^2 + t^{5/2} \eta v_2^2 w_{k\$557}^2 - 2 t^2 v_2 v_{x\$760} w_{k\$557}^2 + 2 t^3 v_2 v_{x\$760} w_{k\$557}^2 + 2 t \eta^2 v_2 v_{x\$760} w_{k\$557}^2 + 2 t^2 \eta^2 v_2 v_{x\$760} w_{k\$557}^2 + t^{5/2} \eta v_{x\$760}^2 w_{k\$557}^2 + 4 t^{3/2} \eta c_5 v_2 w_{x\$760} - 2 t v_2^2 w_{k\$557} w_{x\$760} + 2 t^2 v_2^2 w_{k\$557} w_{x\$760} - 2 \eta^2 v_2^2 w_{k\$557} w_{x\$760} - 2 t \eta^2 v_2^2 w_{k\$557} w_{x\$760} - \sqrt{t} \eta v_2^2 w_{x\$760}^2 \right) \right]$$
- »
$$\mathbb{E} \left[\eta, \theta, \frac{v_5 w_5 - v_{x\$775} w_5}{\sqrt{t}}, \frac{1}{4} \left(-4 t^2 c_5 - 4 t^2 c_2 c_5 + 4 t^2 c_5^2 - 4 t c_2 v_5 w_5 + 4 t c_5 v_5 w_5 + 4 t c_5 v_{x\$775} w_5 + v_5^2 w_5^2 + 4 v_5 v_{x\$775} w_5^2 - v_{x\$775}^2 w_5^2 \right) \right]$$
- »
$$\mathbb{E} \left[\eta, \theta, \frac{-v_2 w_5 + v_5 w_5}{\sqrt{t}}, \frac{1}{4} \left(-4 t^2 c_5 - 4 t^2 c_2 c_5 + 4 t^2 c_5^2 + 4 t c_5 v_2 w_5 - 4 t c_2 v_5 w_5 + 4 t c_5 v_5 w_5 - v_2^2 w_5^2 + 4 v_2 v_5 w_5^2 + v_5^2 w_5^2 \right) \right]$$
- »
$$\mathbb{E} \left[\eta, \theta, \frac{-v_2 w_5 + v_{x\$805} w_5}{\sqrt{t}}, \frac{1}{4} \left(-4 t^2 c_5 - 4 t^2 c_2 c_5 + 4 t^2 c_5^2 + 4 t c_5 v_2 w_5 - 4 t c_2 v_{x\$805} w_5 + 4 t c_5 v_{x\$805} w_5 - v_2^2 w_5^2 + 4 v_2 v_{x\$805} w_5^2 + v_{x\$805}^2 w_5^2 \right) \right]$$
- »
$$\mathbb{E} \left[\eta, \theta, \frac{-v_2 w_{x\$820} + v_5 w_{x\$820}}{\sqrt{t}}, \frac{1}{4} \left(-4 t^2 c_5 - 4 t^2 c_2 c_5 + 4 t^2 c_5^2 + 4 t c_5 v_2 w_{x\$820} - 4 t c_2 v_5 w_{x\$820} + 4 t c_5 v_5 w_{x\$820} - v_2^2 w_{x\$820}^2 + 4 v_2 v_5 w_{x\$820}^2 + v_5^2 w_{x\$820}^2 \right) \right]$$
- »
$$\mathbb{E} \left[\eta, \theta, \frac{1}{\eta} \left(-t v_\theta w_5 + t^2 v_\theta w_5 + t v_4 w_5 - t^2 v_4 w_5 + \sqrt{t} \eta v_5 w_5 - \sqrt{t} \eta v_{x\$835} w_5 + \sqrt{t} \eta v_\theta w_{x\$835} - \sqrt{t} \eta v_4 w_{x\$835} \right), \frac{1}{4 \eta^2} \left(-4 t^6 \eta^2 c_\theta + 4 t^6 \eta^2 c_\theta^2 - 4 t^6 \eta^2 c_4 - 4 t^6 \eta^2 c_\theta c_4 - 4 t^6 \eta^2 c_5 - 4 t^6 \eta^2 c_2 c_5 + 4 t^6 \eta^2 c_5^2 - 4 t^{11/2} \eta c_\theta v_\theta w_5 + 4 t^{13/2} \eta c_\theta v_\theta w_5 + 4 t^{11/2} \eta c_4 v_\theta w_5 - 4 t^{13/2} \eta c_4 v_\theta w_5 + 4 t^{11/2} \eta c_5 v_\theta w_5 - 4 t^{13/2} \eta c_5 v_\theta w_5 + 4 t \eta^4 c_{x\$835} v_\theta w_5 + 4 t^2 \eta^4 c_{x\$835} v_\theta w_5 - 4 t^{11/2} \eta v_4 w_5 + 4 t^{13/2} \eta v_4 w_5 - 4 t^{11/2} \eta c_\theta v_4 w_5 + 4 t^{13/2} \eta c_\theta v_4 w_5 - 4 t^{11/2} \eta c_5 v_4 w_5 + 4 t^{13/2} \eta c_5 v_4 w_5 - 4 t \eta^4 c_{x\$835} v_4 w_5 - 4 t^2 \eta^4 c_{x\$835} v_4 w_5 - 4 t^5 \eta^2 c_2 v_5 w_5 + 4 t^5 \eta^2 c_5 v_5 w_5 + 4 t^5 \eta^2 c_5 v_{x\$835} w_5 - t^2 \eta^2 v_\theta^2 w_5^2 + t^4 \eta^2 v_\theta^2 w_5^2 + 6 t^5 v_\theta v_4 w_5^2 - 12 t^6 v_\theta v_4 w_5^2 + 6 t^7 v_\theta v_4 w_5^2 + 2 t^2 \eta^2 v_\theta v_4 w_5^2 - 2 t^4 \eta^2 v_\theta v_4 w_5^2 - 2 t^5 v_4^2 w_5^2 + 4 t^6 v_4^2 w_5^2 - 2 t^7 v_4^2 w_5^2 - t^2 \eta^2 v_4^2 w_5^2 + t^4 \eta^2 v_4^2 w_5^2 + 4 t^{9/2} \eta v_\theta v_5 w_5^2 - 4 t^{11/2} \eta v_\theta v_5 w_5^2 - 4 t^{9/2} \eta v_4 v_5 w_5^2 + 4 t^{11/2} \eta v_4 v_5 w_5^2 + t^4 \eta^2 v_5^2 w_5^2 - 2 t^{9/2} \eta v_\theta v_{x\$835} w_5^2 + 2 t^{11/2} \eta v_\theta v_{x\$835} w_5^2 - 2 t^{3/2} \eta^3 v_\theta v_{x\$835} w_5^2 - 2 t^{5/2} \eta^3 v_\theta v_{x\$835} w_5^2 + 2 t^{9/2} \eta v_4 v_{x\$835} w_5^2 - 2 t^{11/2} \eta v_4 v_{x\$835} w_5^2 + 2 t^{3/2} \eta^3 v_4 v_{x\$835} w_5^2 + 2 t^{5/2} \eta^3 v_4 v_{x\$835} w_5^2 + 4 t^4 \eta^2 v_5 v_{x\$835} w_5^2 - t^4 \eta^2 v_{x\$835}^2 w_5^2 + 4 t^5 \eta^2 c_\theta v_\theta w_{x\$835} - 4 t^5 \eta^2 c_4 v_\theta w_{x\$835} + 4 t^5 \eta^2 v_4 w_{x\$835} + 4 t^5 \eta^2 c_\theta v_4 w_{x\$835} - 2 t^{9/2} \eta v_\theta^2 w_5 w_{x\$835} + 2 t^{11/2} \eta v_\theta^2 w_5 w_{x\$835} + 2 t^{3/2} \eta^3 v_\theta^2 w_5 w_{x\$835} + 2 t^{5/2} \eta^3 v_\theta^2 w_5 w_{x\$835} - 8 t^{9/2} \eta v_\theta v_4 w_5 w_{x\$835} + 8 t^{11/2} \eta v_\theta v_4 w_5 w_{x\$835} - 4 t^{3/2} \eta^3 v_\theta v_4 w_5 w_{x\$835} - 4 t^{5/2} \eta^3 v_\theta v_4 w_5 w_{x\$835} + 2 t^{9/2} \eta v_4^2 w_5 w_{x\$835} - 2 t^{11/2} \eta v_4^2 w_5 w_{x\$835} + 2 t^{3/2} \eta^3 v_4^2 w_5 w_{x\$835} + 2 t^{5/2} \eta^3 v_4^2 w_5 w_{x\$835} + t^4 \eta^2 v_\theta^2 w_{x\$835}^2 + 4 t^4 \eta^2 v_\theta v_4 w_{x\$835}^2 - t^4 \eta^2 v_4^2 w_{x\$835}^2 \right) \right]$$

- $$\gg E\left[\eta, \theta, \frac{t v_0 w_0 - t v_4 w_0 - v_0 w_5 + v_4 w_5 - t v_4 w_5 + t v_{x\$850} w_5}{\sqrt{t}}, \right.$$

$$\frac{1}{4} \left(-4 t^6 c_0 + 4 t^6 c_0^2 - 4 t^6 c_4 - 4 t^6 c_0 c_4 - 4 t^6 c_5 - 4 t^6 c_0 c_5 + 4 t^6 c_5^2 + 4 t^5 c_0 v_0 w_0 - 4 t^5 c_4 v_0 w_0 - \right.$$

$$4 t^5 c_5 v_0 w_0 + 4 t^5 v_4 w_0 + 4 t^5 c_0 v_4 w_0 + 4 t^5 c_5 v_4 w_0 + t^4 v_0^2 w_0^2 + 4 t^4 v_0 v_4 w_0^2 - t^4 v_4^2 w_0^2 + 4 t^4 c_4 v_0 w_5 +$$

$$4 t^4 c_5 v_0 w_5 - 4 t^4 v_4 w_5 + 4 t^5 v_4 w_5 - 8 t^4 c_0 v_4 w_5 - 4 t^4 c_5 v_4 w_5 + 4 t^5 c_5 v_4 w_5 - 4 t^5 c_0 v_{x\$850} w_5 + 4 t^5 c_5 v_{x\$850} w_5 -$$

$$12 t^3 v_0 v_4 w_0 w_5 + 4 t^3 v_4^2 w_0 w_5 - 4 t^4 v_0 v_{x\$850} w_0 w_5 + 4 t^4 v_4 v_{x\$850} w_0 w_5 - t^2 v_0^2 w_5^2 + 8 t^2 v_0 v_4 w_5^2 - 4 t^3 v_0 v_4 w_5^2 -$$

$$\left. 3 t^2 v_4^2 w_5^2 + 4 t^3 v_4^2 w_5^2 - t^4 v_4^2 w_5^2 + 4 t^3 v_0 v_{x\$850} w_5^2 - 4 t^3 v_4 v_{x\$850} w_5^2 + 4 t^4 v_4 v_{x\$850} w_5^2 + t^4 v_{x\$850}^2 w_5^2 \right)$$
- $$\gg E\left[\eta, \text{Log}[t] c_{k\$557}, \sqrt{t} v_{k\$557} w_{k\$557}, \frac{1}{4} \left(-4 t^2 c_{k\$557} + 4 t^2 c_{k\$557}^2 c_{k\$557} + 4 t^2 c_{k\$557} v_{k\$557} w_{k\$557} + t^2 v_{k\$557}^2 w_{k\$557}^2 \right) \right]$$
- $$\gg E\left[\eta, \text{Log}[t] c_{k\$557}, \sqrt{t} v_{k\$557} w_{k\$557}, \frac{1}{4} \left(-4 t^2 c_{k\$557} + 4 t^2 c_{k\$557}^2 c_{k\$557} + 4 t^2 c_{k\$557} v_{k\$557} w_{k\$557} + t^2 v_{k\$557}^2 w_{k\$557}^2 \right) \right]$$
- $$\gg E\left[\eta, \text{Log}[t] c_{k\$557}, \sqrt{t} v_{k\$557} w_{k\$557}, \frac{1}{4} \left(-4 t^2 c_{k\$557} + 4 t^2 c_{k\$557}^2 c_{k\$557} + 4 t^2 c_{k\$557} v_{k\$557} w_{k\$557} + t^2 v_{k\$557}^2 w_{k\$557}^2 \right) \right]$$
- $$\gg E\left[\eta, -\text{Log}[t] c_3 + \text{Log}[t] c_{k\$557}, \frac{-\sqrt{t} v_6 w_{k\$557} + t^{3/2} v_6 w_{k\$557} + t \eta v_{x\$911} w_{k\$557} - \eta v_6 w_{x\$911}}{\sqrt{t} \eta}, \right.$$

$$\frac{1}{4 \sqrt{t} \eta} \left(-4 t^{5/2} \eta c_3 c_6 - 4 t^{5/2} \eta c_{k\$557} + 4 t^{5/2} \eta c_{k\$557}^2 + 4 t^2 c_3 v_6 w_{k\$557} - 4 t^3 c_3 v_6 w_{k\$557} - 4 t^2 c_{k\$557} v_6 w_{k\$557} + 4 t^3 c_{k\$557} v_6 w_{k\$557} + \right.$$

$$4 \sqrt{t} \eta^3 c_{x\$911} v_6 w_{k\$557} + 4 t^{3/2} \eta^3 c_{x\$911} v_6 w_{k\$557} + 4 t^{5/2} \eta c_{k\$557} v_{x\$911} w_{k\$557} - \sqrt{t} \eta v_6^2 w_{k\$557}^2 + t^{5/2} \eta v_6^2 w_{k\$557}^2 -$$

$$2 t^2 v_6 v_{x\$911} w_{k\$557}^2 + 2 t^3 v_6 v_{x\$911} w_{k\$557}^2 + 2 t \eta^2 v_6 v_{x\$911} w_{k\$557}^2 + 2 t^2 \eta^2 v_6 v_{x\$911} w_{k\$557}^2 + t^{5/2} \eta v_{x\$911} w_{k\$557}^2 +$$

$$\left. 4 t^{3/2} \eta c_3 v_6 w_{x\$911} - 2 t v_6^2 w_{k\$557} w_{x\$911} + 2 t^2 v_6^2 w_{k\$557} w_{x\$911} - 2 \eta^2 v_6^2 w_{k\$557} w_{x\$911} - 2 t \eta^2 v_6^2 w_{k\$557} w_{x\$911} - \sqrt{t} \eta v_6^2 w_{x\$911}^2 \right)$$
- $$\gg E\left[\eta, \theta, \frac{v_3 w_3 - v_{x\$926} w_3}{\sqrt{t}}, \frac{1}{4} \left(-4 t^2 c_3 + 4 t^2 c_3^2 - 4 t^2 c_3 c_6 + 4 t c_3 v_3 w_3 - 4 t c_6 v_3 w_3 + 4 t c_3 v_{x\$926} w_3 + v_3^2 w_3^2 + 4 v_3 v_{x\$926} w_3^2 - v_{x\$926}^2 w_3^2 \right) \right]$$
- $$\gg E\left[\eta, \theta, \frac{v_3 w_3 - v_6 w_3}{\sqrt{t}}, \frac{1}{4} \left(-4 t^2 c_3 + 4 t^2 c_3^2 - 4 t^2 c_3 c_6 + 4 t c_3 v_3 w_3 - 4 t c_6 v_3 w_3 + 4 t c_3 v_6 w_3 + v_3^2 w_3^2 + 4 v_3 v_6 w_3^2 - v_6^2 w_3^2 \right) \right]$$
- $$\gg E\left[\eta, \theta, \frac{-v_6 w_3 + v_{x\$956} w_3}{\sqrt{t}}, \right.$$

$$\frac{1}{4} \left(-4 t^2 c_3 + 4 t^2 c_3^2 - 4 t^2 c_3 c_6 + 4 t c_3 v_6 w_3 + 4 t c_3 v_{x\$956} w_3 - 4 t c_6 v_{x\$956} w_3 - v_6^2 w_3^2 + 4 v_6 v_{x\$956} w_3^2 + v_{x\$956}^2 w_3^2 \right)$$
- $$\gg E\left[\eta, \theta, \frac{v_3 w_{x\$971} - v_6 w_{x\$971}}{\sqrt{t}}, \right.$$

$$\frac{1}{4} \left(-4 t^2 c_3 + 4 t^2 c_3^2 - 4 t^2 c_3 c_6 + 4 t c_3 v_3 w_{x\$971} - 4 t c_6 v_3 w_{x\$971} + 4 t c_3 v_6 w_{x\$971} + v_3^2 w_{x\$971}^2 + 4 v_3 v_6 w_{x\$971}^2 - v_6^2 w_{x\$971}^2 \right)$$
- $$\gg E\left[\eta, \theta, \frac{1}{\eta} \left(t \eta v_0 w_0 - t \eta v_4 w_0 + t v_0 w_3 - t^2 v_0 w_3 + t \eta v_3 w_3 - t v_4 w_3 + t^2 v_4 w_3 - t \eta v_{x\$986} w_3 - \eta v_0 w_{x\$986} + \eta v_4 w_{x\$986} \right), \right.$$

$$\frac{1}{4 \eta^2} \left(-4 t^8 \eta^2 c_0 + 4 t^8 \eta^2 c_0^2 - 4 t^8 \eta^2 c_3 + 4 t^8 \eta^2 c_3^2 - 8 t^8 \eta^2 c_4 - 8 t^8 \eta^2 c_0 c_4 + 4 t^8 \eta^2 c_4^2 - 4 t^8 \eta^2 c_3 c_6 + 4 t^7 \eta^2 c_0 v_0 w_0 - \right.$$

$$8 t^7 \eta^2 c_4 v_0 w_0 + 4 t^7 \eta^2 v_4 w_0 + 4 t^7 \eta^2 c_0 v_4 w_0 + 4 t^7 \eta^2 c_4 v_4 w_0 + t^6 \eta^2 v_0^2 w_0^2 + 4 t^6 \eta^2 v_0 v_4 w_0^2 - t^6 \eta^2 v_4^2 w_0^2 -$$

$$4 t^7 \eta c_3 v_0 w_3 + 4 t^8 \eta c_3 v_0 w_3 - 8 t^7 \eta c_4 v_0 w_3 + 8 t^8 \eta c_4 v_0 w_3 - 4 t \eta^4 c_{x\$986} v_0 w_3 - 4 t^2 \eta^4 c_{x\$986} v_0 w_3 + 4 t^7 \eta^2 c_3 v_3 w_3 -$$

$$4 t^7 \eta^2 c_6 v_3 w_3 + 4 t^7 \eta v_4 w_3 - 4 t^8 \eta v_4 w_3 + 8 t^7 \eta c_0 v_4 w_3 - 8 t^9 \eta c_0 v_4 w_3 + 4 t^7 \eta c_3 v_4 w_3 - 4 t^8 \eta c_3 v_4 w_3 + 4 t^7 \eta c_4 v_4 w_3 -$$

$$12 t^8 \eta c_4 v_4 w_3 + 8 t^9 \eta c_4 v_4 w_3 + 4 t \eta^4 c_{x\$986} v_4 w_3 + 4 t^2 \eta^4 c_{x\$986} v_4 w_3 + 4 t^7 \eta^2 c_3 v_{x\$986} w_3 + 12 t^6 \eta v_0 v_4 w_0 w_3 -$$

$$4 t^7 \eta v_0 v_4 w_0 w_3 - 8 t^8 \eta v_0 v_4 w_0 w_3 - 4 t^6 \eta v_4^2 w_0 w_3 + 4 t^8 \eta v_4^2 w_0 w_3 - 2 t^6 v_0^2 w_3^2 + 4 t^7 v_0^2 w_3^2 - 2 t^8 v_0^2 w_3^2 - t^2 \eta^2 v_0^2 w_3^2 +$$

$$t^4 \eta^2 v_0^2 w_3^2 - 4 t^6 \eta v_0 v_3 w_3^2 + 4 t^7 \eta v_0 v_3 w_3^2 + t^6 \eta^2 v_3^2 w_3^2 + 10 t^6 v_0 v_4 w_3^2 - 16 t^7 v_0 v_4 w_3^2 + 2 t^8 v_0 v_4 w_3^2 + 4 t^9 v_0 v_4 w_3^2 +$$

$$2 t^2 \eta^2 v_0 v_4 w_3^2 - 2 t^4 \eta^2 v_0 v_4 w_3^2 + 4 t^6 \eta v_3 v_4 w_3^2 - 4 t^7 \eta v_3 v_4 w_3^2 - 4 t^6 v_4^2 w_3^2 + 8 t^7 v_4^2 w_3^2 - 8 t^9 v_4^2 w_3^2 + 4 t^{10} v_4^2 w_3^2 -$$

$$t^2 \eta^2 v_4^2 w_3^2 + t^4 \eta^2 v_4^2 w_3^2 + 2 t^6 \eta v_0 v_{x\$986} w_3^2 - 2 t^7 \eta v_0 v_{x\$986} w_3^2 + 2 t^2 \eta^3 v_0 v_{x\$986} w_3^2 + 2 t^3 \eta^3 v_0 v_{x\$986} w_3^2 + 4 t^6 \eta^2 v_3 v_{x\$986} w_3^2 -$$

$$2 t^6 \eta v_4 v_{x\$986} w_3^2 + 2 t^7 \eta v_4 v_{x\$986} w_3^2 - 2 t^2 \eta^3 v_4 v_{x\$986} w_3^2 - 2 t^3 \eta^3 v_4 v_{x\$986} w_3^2 - t^6 \eta^2 v_{x\$986}^2 w_3^2 + 8 t^6 \eta^2 c_4 v_0 w_{x\$986} -$$

$$4 t^6 \eta^2 v_4 w_{x\$986} - 8 t^6 \eta^2 c_0 v_4 w_{x\$986} - 8 t^7 \eta^2 c_0 v_4 w_{x\$986} - 4 t^6 \eta^2 c_4 v_4 w_{x\$986} + 8 t^7 \eta^2 c_4 v_4 w_{x\$986} - 12 t^5 \eta^2 v_0 v_4 w_0 w_{x\$986} -$$

$$8 t^6 \eta^2 v_0 v_4 w_0 w_{x\$986} + 4 t^5 \eta^2 v_4^2 w_0 w_{x\$986} + 4 t^6 \eta^2 v_4^2 w_0 w_{x\$986} + 2 t^5 \eta v_0^2 w_3 w_{x\$986} - 2 t^6 \eta v_0^2 w_3 w_{x\$986} + 2 t \eta^3 v_0^2 w_3 w_{x\$986} +$$

$$2 t^2 \eta^3 v_0^2 w_3 w_{x\$986} - 16 t^5 \eta v_0 v_4 w_3 w_{x\$986} + 8 t^6 \eta v_0 v_4 w_3 w_{x\$986} + 8 t^7 \eta v_0 v_4 w_3 w_{x\$986} - 4 t \eta^3 v_0 v_4 w_3 w_{x\$986} -$$

$$4 t^2 \eta^3 v_0 v_4 w_3 w_{x\$986} + 6 t^5 \eta v_4^2 w_3 w_{x\$986} - 6 t^6 \eta v_4^2 w_3 w_{x\$986} - 8 t^7 \eta v_4^2 w_3 w_{x\$986} + 8 t^8 \eta v_4^2 w_3 w_{x\$986} + 2 t \eta^3 v_4^2 w_3 w_{x\$986} +$$

$$\left. 2 t^2 \eta^3 v_4^2 w_3 w_{x\$986} - t^4 \eta^2 v_0^2 w_{x\$986}^2 + 8 t^4 \eta^2 v_0 v_4 w_{x\$986}^2 + 4 t^5 \eta^2 v_0 v_4 w_{x\$986}^2 - 3 t^4 \eta^2 v_4^2 w_{x\$986}^2 + 4 t^6 \eta^2 v_4^2 w_{x\$986}^2 \right)$$
- $$\gg E\left[\frac{1 - 2 t + 2 t^2 - t^3 + t \eta}{t}, \theta, \right.$$

$$\frac{1}{t \eta} \left(t^3 v_0 w_0 - t^4 v_0 w_0 + t^2 \eta v_0 w_0 - t^3 v_3 w_0 + t^4 v_3 w_0 - t^2 \eta v_{x\$1001} w_0 - t^2 v_0 w_4 + t^3 v_0 w_4 - t \eta v_0 w_4 + t^2 v_3 w_4 - t^3 v_3 w_4 + \right.$$

$$\left. t \eta v_{x\$1001} w_4 + \eta v_0 w_{x\$1001} - t \eta v_0 w_{x\$1001} + t^2 \eta v_3 w_{x\$1001} - \eta v_{x\$1001} w_{x\$1001} + t \eta v_{x\$1001} w_{x\$1001} - t^2 \eta v_{x\$1001} w_{x\$1001} \right),$$

$$\frac{1}{4 t^4 \eta^4} \left(4 t^6 \eta - 32 t^7 \eta + 128 t^8 \eta - 336 t^9 \eta + 640 t^{10} \eta - 928 t^{11} \eta + 1048 t^{12} \eta - 928 t^{13} \eta + 640 t^{14} \eta - 336 t^{15} \eta + \right.$$

$$\begin{aligned}
& 128 t^{16} \eta - 32 t^{17} \eta + 4 t^{18} \eta - 10 t^4 \eta^2 + 76 t^5 \eta^2 - 280 t^6 \eta^2 + 676 t^7 \eta^2 - 1200 t^8 \eta^2 + 1660 t^9 \eta^2 - 1848 t^{10} \eta^2 + 1676 t^{11} \eta^2 - \\
& 1232 t^{12} \eta^2 + 716 t^{13} \eta^2 - 312 t^{14} \eta^2 + 92 t^{15} \eta^2 - 14 t^{16} \eta^2 - 20 t^5 \eta^3 + 112 t^6 \eta^3 - 296 t^7 \eta^3 + 504 t^8 \eta^3 - 616 t^9 \eta^3 + 568 t^{10} \eta^3 - \\
& 404 t^{11} \eta^3 + 216 t^{12} \eta^3 - 80 t^{13} \eta^3 + 16 t^{14} \eta^3 - 2 \eta^4 + 12 t \eta^4 - 36 t^2 \eta^4 + 68 t^3 \eta^4 - 84 t^4 \eta^4 + 60 t^5 \eta^4 - 10 t^6 \eta^4 - 24 t^7 \eta^4 + \\
& 28 t^8 \eta^4 - 12 t^9 \eta^4 - 4 t^{10} \eta^4 + 8 t^{11} \eta^4 - 4 t^{12} \eta^4 - 4 t \eta^5 + 16 t^2 \eta^5 - 32 t^3 \eta^5 + 36 t^4 \eta^5 - 16 t^5 \eta^5 - 16 t^6 \eta^5 + 36 t^7 \eta^5 - \\
& 32 t^8 \eta^5 + 16 t^9 \eta^5 - 4 t^{10} \eta^5 - 2 t^2 \eta^6 + 4 t^3 \eta^6 - 4 t^4 \eta^6 + 4 t^6 \eta^6 - 4 t^7 \eta^6 + 2 t^8 \eta^6 - 4 t^8 c_0 + 32 t^9 c_0 - 128 t^{10} c_0 + 336 t^{11} c_0 - \\
& 640 t^{12} c_0 + 928 t^{13} c_0 - 1048 t^{14} c_0 + 928 t^{15} c_0 - 640 t^{16} c_0 + 336 t^{17} c_0 - 128 t^{18} c_0 + 32 t^{19} c_0 - 4 t^{20} c_0 + 8 t^6 \eta c_0 - \\
& 56 t^7 \eta c_0 + 192 t^8 \eta c_0 - 440 t^9 \eta c_0 + 760 t^{10} \eta c_0 - 1056 t^{11} \eta c_0 + 1224 t^{12} \eta c_0 - 1192 t^{13} \eta c_0 + 960 t^{14} \eta c_0 - 616 t^{15} \eta c_0 + \\
& 296 t^{16} \eta c_0 - 96 t^{17} \eta c_0 + 16 t^{18} \eta c_0 + 24 t^7 \eta^2 c_0 - 120 t^8 \eta^2 c_0 + 288 t^9 \eta^2 c_0 - 456 t^{10} \eta^2 c_0 + 528 t^{11} \eta^2 c_0 - 480 t^{12} \eta^2 c_0 + \\
& 360 t^{13} \eta^2 c_0 - 216 t^{14} \eta^2 c_0 + 96 t^{15} \eta^2 c_0 - 24 t^{16} \eta^2 c_0 + 24 t^8 \eta^3 c_0 - 72 t^9 \eta^3 c_0 + 96 t^{10} \eta^3 c_0 - 88 t^{11} \eta^3 c_0 + 56 t^{12} \eta^3 c_0 - \\
& 32 t^{13} \eta^3 c_0 + 16 t^{14} \eta^3 c_0 + 8 t^9 \eta^4 c_0 - 8 t^{10} \eta^4 c_0 - 4 t^{12} \eta^4 c_0 + 4 t^8 c_0^2 - 32 t^9 c_0^2 + 128 t^{10} c_0^2 - 336 t^{11} c_0^2 + 640 t^{12} c_0^2 - \\
& 928 t^{13} c_0^2 + 1048 t^{14} c_0^2 - 928 t^{15} c_0^2 + 640 t^{16} c_0^2 - 336 t^{17} c_0^2 + 128 t^{18} c_0^2 - 32 t^{19} c_0^2 + 4 t^{20} c_0^2 + 16 t^9 \eta c_0^2 - 96 t^{10} \eta c_0^2 + \\
& 288 t^{11} \eta c_0^2 - 560 t^{12} \eta c_0^2 + 768 t^{13} \eta c_0^2 - 768 t^{14} \eta c_0^2 + 560 t^{15} \eta c_0^2 - 288 t^{16} \eta c_0^2 + 96 t^{17} \eta c_0^2 - 16 t^{18} \eta c_0^2 + 24 t^{10} \eta^2 c_0^2 - \\
& 96 t^{11} \eta^2 c_0^2 + 192 t^{12} \eta^2 c_0^2 - 240 t^{13} \eta^2 c_0^2 + 192 t^{14} \eta^2 c_0^2 - 96 t^{15} \eta^2 c_0^2 + 24 t^{16} \eta^2 c_0^2 + 16 t^{11} \eta^3 c_0^2 - 32 t^{12} \eta^3 c_0^2 + 32 t^{13} \eta^3 c_0^2 - \\
& 16 t^{14} \eta^3 c_0^2 + 4 t^{12} \eta^4 c_0^2 - 4 t^8 c_3 + 32 t^9 c_3 - 128 t^{10} c_3 + 336 t^{11} c_3 - 640 t^{12} c_3 + 928 t^{13} c_3 - 1048 t^{14} c_3 + 928 t^{15} c_3 - \\
& 640 t^{16} c_3 + 336 t^{17} c_3 - 128 t^{18} c_3 + 32 t^{19} c_3 - 4 t^{20} c_3 + 4 t^6 \eta c_3 - 32 t^7 \eta c_3 + 128 t^8 \eta c_3 - 352 t^9 \eta c_3 + 736 t^{10} \eta c_3 - \\
& 1216 t^{11} \eta c_3 + 1608 t^{12} \eta c_3 - 1696 t^{13} \eta c_3 + 1408 t^{14} \eta c_3 - 896 t^{15} \eta c_3 + 416 t^{16} \eta c_3 - 128 t^{17} \eta c_3 + 20 t^{18} \eta c_3 + 12 t^7 \eta^2 c_3 - \\
& 72 t^8 \eta^2 c_3 + 216 t^9 \eta^2 c_3 - 444 t^{10} \eta^2 c_3 + 672 t^{11} \eta^2 c_3 - 768 t^{12} \eta^2 c_3 + 660 t^{13} \eta^2 c_3 - 408 t^{14} \eta^2 c_3 + 168 t^{15} \eta^2 c_3 - \\
& 36 t^{16} \eta^2 c_3 + 12 t^8 \eta^3 c_3 - 48 t^9 \eta^3 c_3 + 96 t^{10} \eta^3 c_3 - 136 t^{11} \eta^3 c_3 + 128 t^{12} \eta^3 c_3 - 80 t^{13} \eta^3 c_3 + 28 t^{14} \eta^3 c_3 + 4 t^9 \eta^4 c_3 - \\
& 8 t^{10} \eta^4 c_3 + 8 t^{11} \eta^4 c_3 - 8 t^{12} \eta^4 c_3 + 4 t^8 c_3^2 - 32 t^9 c_3^2 + 128 t^{10} c_3^2 - 336 t^{11} c_3^2 + 640 t^{12} c_3^2 - 928 t^{13} c_3^2 + 1048 t^{14} c_3^2 - \\
& 928 t^{15} c_3^2 + 640 t^{16} c_3^2 - 336 t^{17} c_3^2 + 128 t^{18} c_3^2 - 32 t^{19} c_3^2 + 4 t^{20} c_3^2 + 16 t^9 \eta c_3^2 - 96 t^{10} \eta c_3^2 + 288 t^{11} \eta c_3^2 - 560 t^{12} \eta c_3^2 + \\
& 768 t^{13} \eta c_3^2 - 768 t^{14} \eta c_3^2 + 560 t^{15} \eta c_3^2 - 288 t^{16} \eta c_3^2 + 96 t^{17} \eta c_3^2 - 16 t^{18} \eta c_3^2 + 24 t^{10} \eta^2 c_3^2 - 96 t^{11} \eta^2 c_3^2 + 192 t^{12} \eta^2 c_3^2 - \\
& 240 t^{13} \eta^2 c_3^2 + 192 t^{14} \eta^2 c_3^2 - 96 t^{15} \eta^2 c_3^2 + 24 t^{16} \eta^2 c_3^2 + 16 t^{11} \eta^3 c_3^2 - 32 t^{12} \eta^3 c_3^2 + 32 t^{13} \eta^3 c_3^2 - 16 t^{14} \eta^3 c_3^2 + 4 t^{12} \eta^4 c_3^2 - \\
& 8 t^8 c_4 + 64 t^9 c_4 - 256 t^{10} c_4 + 672 t^{11} c_4 - 1280 t^{12} c_4 + 1856 t^{13} c_4 - 2096 t^{14} c_4 + 1856 t^{15} c_4 - 1280 t^{16} c_4 + 672 t^{17} c_4 - \\
& 256 t^{18} c_4 + 64 t^{19} c_4 - 8 t^{20} c_4 + 8 t^6 \eta c_4 - 64 t^7 \eta c_4 + 248 t^8 \eta c_4 - 648 t^9 \eta c_4 + 1280 t^{10} \eta c_4 - 2008 t^{11} \eta c_4 + 2552 t^{12} \eta c_4 - \\
& 2624 t^{13} \eta c_4 + 2152 t^{14} \eta c_4 - 1368 t^{15} \eta c_4 + 640 t^{16} \eta c_4 - 200 t^{17} \eta c_4 + 32 t^{18} \eta c_4 + 24 t^7 \eta^2 c_4 - 144 t^8 \eta^2 c_4 + 408 t^9 \eta^2 c_4 - \\
& 768 t^{10} \eta^2 c_4 + 1056 t^{11} \eta^2 c_4 - 1104 t^{12} \eta^2 c_4 + 888 t^{13} \eta^2 c_4 - 528 t^{14} \eta^2 c_4 + 216 t^{15} \eta^2 c_4 - 48 t^{16} \eta^2 c_4 + 24 t^8 \eta^3 c_4 - \\
& 96 t^9 \eta^3 c_4 + 168 t^{10} \eta^3 c_4 - 200 t^{11} \eta^3 c_4 + 160 t^{12} \eta^3 c_4 - 88 t^{13} \eta^3 c_4 + 32 t^{14} \eta^3 c_4 + 8 t^9 \eta^4 c_4 - 16 t^{10} \eta^4 c_4 + 8 t^{11} \eta^4 c_4 - \\
& 8 t^{12} \eta^4 c_4 - 8 t^8 c_0 c_4 + 64 t^9 c_0 c_4 - 256 t^{10} c_0 c_4 + 672 t^{11} c_0 c_4 - 1280 t^{12} c_0 c_4 + 1856 t^{13} c_0 c_4 - 2096 t^{14} c_0 c_4 + 1856 t^{15} c_0 c_4 - \\
& 1280 t^{16} c_0 c_4 + 672 t^{17} c_0 c_4 - 256 t^{18} c_0 c_4 + 64 t^{19} c_0 c_4 - 8 t^{20} c_0 c_4 - 32 t^9 \eta c_0 c_4 + 192 t^{10} \eta c_0 c_4 - 576 t^{11} \eta c_0 c_4 + \\
& 1120 t^{12} \eta c_0 c_4 - 1536 t^{13} \eta c_0 c_4 + 1536 t^{14} \eta c_0 c_4 - 1120 t^{15} \eta c_0 c_4 + 576 t^{16} \eta c_0 c_4 - 192 t^{17} \eta c_0 c_4 + 32 t^{18} \eta c_0 c_4 - \\
& 48 t^{10} \eta^2 c_0 c_4 + 192 t^{11} \eta^2 c_0 c_4 - 384 t^{12} \eta^2 c_0 c_4 + 480 t^{13} \eta^2 c_0 c_4 - 384 t^{14} \eta^2 c_0 c_4 + 192 t^{15} \eta^2 c_0 c_4 - 48 t^{16} \eta^2 c_0 c_4 - \\
& 32 t^{11} \eta^3 c_0 c_4 + 64 t^{12} \eta^3 c_0 c_4 - 64 t^{13} \eta^3 c_0 c_4 + 32 t^{14} \eta^3 c_0 c_4 - 8 t^{12} \eta^4 c_0 c_4 - 4 t^8 c_3 c_4 + 32 t^9 c_3 c_4 - 128 t^{10} c_3 c_4 + \\
& 336 t^{11} c_3 c_4 - 640 t^{12} c_3 c_4 + 928 t^{13} c_3 c_4 - 1048 t^{14} c_3 c_4 + 928 t^{15} c_3 c_4 - 640 t^{16} c_3 c_4 + 336 t^{17} c_3 c_4 - 128 t^{18} c_3 c_4 + \\
& 32 t^{19} c_3 c_4 - 4 t^{20} c_3 c_4 - 16 t^9 \eta c_3 c_4 + 96 t^{10} \eta c_3 c_4 - 288 t^{11} \eta c_3 c_4 + 560 t^{12} \eta c_3 c_4 - 768 t^{13} \eta c_3 c_4 + 768 t^{14} \eta c_3 c_4 - \\
& 560 t^{15} \eta c_3 c_4 + 288 t^{16} \eta c_3 c_4 - 96 t^{17} \eta c_3 c_4 + 16 t^{18} \eta c_3 c_4 - 24 t^{10} \eta^2 c_3 c_4 + 96 t^{11} \eta^2 c_3 c_4 - 192 t^{12} \eta^2 c_3 c_4 + 240 t^{13} \eta^2 c_3 c_4 - \\
& 192 t^{14} \eta^2 c_3 c_4 + 96 t^{15} \eta^2 c_3 c_4 - 24 t^{16} \eta^2 c_3 c_4 - 16 t^{11} \eta^3 c_3 c_4 + 32 t^{12} \eta^3 c_3 c_4 - 32 t^{13} \eta^3 c_3 c_4 + 16 t^{14} \eta^3 c_3 c_4 - \\
& 4 t^{12} \eta^4 c_3 c_4 + 4 t^8 c_4^2 - 32 t^9 c_4^2 + 128 t^{10} c_4^2 - 336 t^{11} c_4^2 + 640 t^{12} c_4^2 - 928 t^{13} c_4^2 + 1048 t^{14} c_4^2 - 928 t^{15} c_4^2 + 640 t^{16} c_4^2 - \\
& 336 t^{17} c_4^2 + 128 t^{18} c_4^2 - 32 t^{19} c_4^2 + 4 t^{20} c_4^2 + 16 t^9 \eta c_4^2 - 96 t^{10} \eta c_4^2 + 288 t^{11} \eta c_4^2 - 560 t^{12} \eta c_4^2 + 768 t^{13} \eta c_4^2 - 768 t^{14} \eta c_4^2 + \\
& 560 t^{15} \eta c_4^2 - 288 t^{16} \eta c_4^2 + 96 t^{17} \eta c_4^2 - 16 t^{18} \eta c_4^2 + 24 t^{10} \eta^2 c_4^2 - 96 t^{11} \eta^2 c_4^2 + 192 t^{12} \eta^2 c_4^2 - 240 t^{13} \eta^2 c_4^2 + 192 t^{14} \eta^2 c_4^2 - \\
& 96 t^{15} \eta^2 c_4^2 + 24 t^{16} \eta^2 c_4^2 + 16 t^{11} \eta^3 c_4^2 - 32 t^{12} \eta^3 c_4^2 + 32 t^{13} \eta^3 c_4^2 - 16 t^{14} \eta^3 c_4^2 + 4 t^{12} \eta^4 c_4^2 + 4 \eta^4 C_{x\$1001} - 24 t \eta^4 C_{x\$1001} + \\
& 72 t^2 \eta^4 C_{x\$1001} - 136 t^3 \eta^4 C_{x\$1001} + 168 t^4 \eta^4 C_{x\$1001} - 120 t^5 \eta^4 C_{x\$1001} + 120 t^7 \eta^4 C_{x\$1001} - 168 t^8 \eta^4 C_{x\$1001} + 136 t^9 \eta^4 C_{x\$1001} - \\
& 72 t^{10} \eta^4 C_{x\$1001} + 24 t^{11} \eta^4 C_{x\$1001} - 4 t^{12} \eta^4 C_{x\$1001} + 12 t \eta^5 C_{x\$1001} - 48 t^2 \eta^5 C_{x\$1001} + 96 t^3 \eta^5 C_{x\$1001} - 108 t^4 \eta^5 C_{x\$1001} + \\
& 48 t^5 \eta^5 C_{x\$1001} + 48 t^6 \eta^5 C_{x\$1001} - 108 t^7 \eta^5 C_{x\$1001} + 96 t^8 \eta^5 C_{x\$1001} - 48 t^9 \eta^5 C_{x\$1001} + 12 t^{10} \eta^5 C_{x\$1001} + 12 t^2 \eta^6 C_{x\$1001} - \\
& 24 t^3 \eta^6 C_{x\$1001} + 24 t^4 \eta^6 C_{x\$1001} - 24 t^6 \eta^6 C_{x\$1001} + 24 t^7 \eta^6 C_{x\$1001} - 12 t^8 \eta^6 C_{x\$1001} + 4 t^3 \eta^7 C_{x\$1001} + 4 t^6 \eta^7 C_{x\$1001} - \\
& 8 t^6 \eta v_0 w_0 + 48 t^7 \eta v_0 w_0 - 132 t^8 \eta v_0 w_0 + 224 t^9 \eta v_0 w_0 - 260 t^{10} \eta v_0 w_0 + 208 t^{11} \eta v_0 w_0 - 104 t^{12} \eta v_0 w_0 + 16 t^{13} \eta v_0 w_0 + \\
& 20 t^{14} \eta v_0 w_0 - 16 t^{15} \eta v_0 w_0 + 4 t^{16} \eta v_0 w_0 - 8 t^6 \eta^2 v_0 w_0 + 32 t^7 \eta^2 v_0 w_0 - 48 t^8 \eta^2 v_0 w_0 + 32 t^9 \eta^2 v_0 w_0 - 16 t^{11} \eta^2 v_0 w_0 + \\
& 16 t^{13} \eta^2 v_0 w_0 - 8 t^{14} \eta^2 v_0 w_0 + 4 t^7 \eta^3 v_0 w_0 - 16 t^8 \eta^3 v_0 w_0 + 44 t^9 \eta^3 v_0 w_0 - 56 t^{10} \eta^3 v_0 w_0 + 24 t^{11} \eta^3 v_0 w_0 - 4 t^2 \eta^4 v_0 w_0 + \\
& 16 t^3 \eta^4 v_0 w_0 - 28 t^4 \eta^4 v_0 w_0 + 24 t^5 \eta^4 v_0 w_0 - 24 t^7 \eta^4 v_0 w_0 + 40 t^8 \eta^4 v_0 w_0 - 32 t^9 \eta^4 v_0 w_0 + 8 t^{10} \eta^4 v_0 w_0 - 4 t^3 \eta^5 v_0 w_0 + \\
& 8 t^4 \eta^5 v_0 w_0 - 4 t^5 \eta^5 v_0 w_0 - 4 t^6 \eta^5 v_0 w_0 + 8 t^7 \eta^5 v_0 w_0 - 4 t^8 \eta^5 v_0 w_0 - 8 t^8 c_0 v_0 w_0 + 68 t^9 c_0 v_0 w_0 - 268 t^{10} c_0 v_0 w_0 + \\
& 656 t^{11} c_0 v_0 w_0 - 1116 t^{12} c_0 v_0 w_0 + 1388 t^{13} c_0 v_0 w_0 - 1288 t^{14} c_0 v_0 w_0 + 892 t^{15} c_0 v_0 w_0 - 452 t^{16} c_0 v_0 w_0 + 160 t^{17} c_0 v_0 w_0 - \\
& 36 t^{18} c_0 v_0 w_0 + 4 t^{19} c_0 v_0 w_0 + 12 t^8 \eta c_0 v_0 w_0 - 88 t^9 \eta c_0 v_0 w_0 + 316 t^{10} \eta c_0 v_0 w_0 - 696 t^{11} \eta c_0 v_0 w_0 + 1024 t^{12} \eta c_0 v_0 w_0 - \\
& 1048 t^{13} \eta c_0 v_0 w_0 + 748 t^{14} \eta c_0 v_0 w_0 - 360 t^{15} \eta c_0 v_0 w_0 + 108 t^{16} \eta c_0 v_0 w_0 - 16 t^{17} \eta c_0 v_0 w_0 + 28 t^9 \eta^2 c_0 v_0 w_0 - \\
& 120 t^{10} \eta^2 c_0 v_0 w_0 + 252 t^{11} \eta^2 c_0 v_0 w_0 - 316 t^{12} \eta^2 c_0 v_0 w_0 + 240 t^{13} \eta^2 c_0 v_0 w_0 - 108 t^{14} \eta^2 c_0 v_0 w_0 + 24 t^{15} \eta^2 c_0 v_0 w_0 + \\
& 20 t^{10} \eta^3 c_0 v_0 w_0 - 40 t^{11} \eta^3 c_0 v_0 w_0 + 36 t^{12} \eta^3 c_0 v_0 w_0 - 16 t^{13} \eta^3 c_0 v_0 w_0 + 4 t^{11} \eta^4 c_0 v_0 w_0 + 4 t^8 \eta c_3 v_0 w_0 - 24 t^9 \eta c_3 v_0 w_0 + \\
& 68 t^{10} \eta c_3 v_0 w_0 - 120 t^{11} \eta c_3 v_0 w_0 + 144 t^{12} \eta c_3 v_0 w_0 - 120 t^{13} \eta c_3 v_0 w_0 + 68 t^{14} \eta c_3 v_0 w_0 - 24 t^{15} \eta c_3 v_0 w_0 + 4 t^{16} \eta c_3 v_0 w_0 + \\
& 8 t^9 \eta^2 c_3 v_0 w_0 - 32 t^{10} \eta^2 c_3 v_0 w_0 + 56 t^{11} \eta^2 c_3 v_0 w_0 - 56 t^{12} \eta^2 c_3 v_0 w_0 + 32 t^{13} \eta^2 c_3 v_0 w_0 - 8 t^{14} \eta^2 c_3 v_0 w_0 + 4 t^{10} \eta^3 c_3 v_0 w_0 - \\
& 8 t^{11} \eta^3 c_3 v_0 w_0 + 4 t^{12} \eta^3 c_3 v_0 w_0 + 8 t^8 c_4 v_0 w_0 - 56 t^9 c_4 v_0 w_0 + 192 t^{10} c_4 v_0 w_0 - 432 t^{11} c_4 v_0 w_0 + 712 t^{12} c_4 v_0 w_0 - \\
& 904 t^{13} c_4 v_0 w_0 + 904 t^{14} c_4 v_0 w_0 - 712 t^{15} c_4 v_0 w_0 + 432 t^{16} c_4 v_0 w_0 - 192 t^{17} c_4 v_0 w_0 + 56 t^{18} c_4 v_0 w_0 - 8 t^{19} c_4 v_0 w_0 + \\
& 24 t^9 \eta c_4 v_0 w_0 - 136 t^{10} \eta c_4 v_0 w_0 + 368 t^{11} \eta c_4 v_0 w_0 - 640 t^{12} \eta c_4 v_0 w_0 + 784 t^{13} \eta c_4 v_0 w_0 - 688 t^{14} \eta c_4 v_0 w_0 +
\end{aligned}$$

»

$$\begin{aligned}
& 424 t^{15} \eta C_4 V_0 W_0 - 168 t^{16} \eta C_4 V_0 W_0 + 32 t^{17} \eta C_4 V_0 W_0 - 8 t^9 \eta^2 C_4 V_0 W_0 + 56 t^{10} \eta^2 C_4 V_0 W_0 - 168 t^{11} \eta^2 C_4 V_0 W_0 + \\
& 272 t^{12} \eta^2 C_4 V_0 W_0 - 272 t^{13} \eta^2 C_4 V_0 W_0 + 168 t^{14} \eta^2 C_4 V_0 W_0 - 48 t^{15} \eta^2 C_4 V_0 W_0 - 16 t^{10} \eta^3 C_4 V_0 W_0 + 40 t^{11} \eta^3 C_4 V_0 W_0 - \\
& 56 t^{12} \eta^3 C_4 V_0 W_0 + 32 t^{13} \eta^3 C_4 V_0 W_0 - 8 t^{11} \eta^4 C_4 V_0 W_0 + 4 t^2 \eta^4 C_{x\$1001} V_0 W_0 - 16 t^3 \eta^4 C_{x\$1001} V_0 W_0 + 28 t^4 \eta^4 C_{x\$1001} V_0 W_0 - \\
& 24 t^5 \eta^4 C_{x\$1001} V_0 W_0 + 24 t^7 \eta^4 C_{x\$1001} V_0 W_0 - 28 t^8 \eta^4 C_{x\$1001} V_0 W_0 + 16 t^9 \eta^4 C_{x\$1001} V_0 W_0 - 4 t^{10} \eta^4 C_{x\$1001} V_0 W_0 + \\
& 8 t^3 \eta^5 C_{x\$1001} V_0 W_0 - 16 t^4 \eta^5 C_{x\$1001} V_0 W_0 + 8 t^5 \eta^5 C_{x\$1001} V_0 W_0 + 8 t^6 \eta^5 C_{x\$1001} V_0 W_0 - 16 t^7 \eta^5 C_{x\$1001} V_0 W_0 + 8 t^8 \eta^5 C_{x\$1001} V_0 W_0 + \\
& 4 t^4 \eta^6 C_{x\$1001} V_0 W_0 - 4 t^6 \eta^6 C_{x\$1001} V_0 W_0 + 4 t^7 \eta V_3 W_0 - 28 t^8 \eta V_3 W_0 + 80 t^9 \eta V_3 W_0 - 120 t^{10} \eta V_3 W_0 + 88 t^{11} \eta V_3 W_0 + \\
& 16 t^{12} \eta V_3 W_0 - 116 t^{13} \eta V_3 W_0 + 140 t^{14} \eta V_3 W_0 - 96 t^{15} \eta V_3 W_0 + 40 t^{16} \eta V_3 W_0 - 8 t^{17} \eta V_3 W_0 - 12 t^8 \eta^2 V_3 W_0 + 52 t^9 \eta^2 V_3 W_0 - \\
& 120 t^{10} \eta^2 V_3 W_0 + 192 t^{11} \eta^2 V_3 W_0 - 208 t^{12} \eta^2 V_3 W_0 + 152 t^{13} \eta^2 V_3 W_0 - 76 t^{14} \eta^2 V_3 W_0 + 20 t^{15} \eta^2 V_3 W_0 - 16 t^9 \eta^3 V_3 W_0 + \\
& 40 t^{10} \eta^3 V_3 W_0 - 40 t^{11} \eta^3 V_3 W_0 + 28 t^{12} \eta^3 V_3 W_0 - 12 t^{13} \eta^3 V_3 W_0 - 4 t^4 \eta^4 V_3 W_0 + 12 t^5 \eta^4 V_3 W_0 - 16 t^6 \eta^4 V_3 W_0 + 8 t^7 \eta^4 V_3 W_0 + \\
& 8 t^8 \eta^4 V_3 W_0 - 16 t^9 \eta^4 V_3 W_0 + 12 t^{10} \eta^4 V_3 W_0 - 4 t^{11} \eta^4 V_3 W_0 - 4 t^5 \eta^5 V_3 W_0 + 4 t^6 \eta^5 V_3 W_0 - 4 t^8 \eta^5 V_3 W_0 + 4 t^9 \eta^5 V_3 W_0 - \\
& 4 t^9 C_0 V_3 W_0 + 20 t^{10} C_0 V_3 W_0 - 40 t^{11} C_0 V_3 W_0 + 28 t^{12} C_0 V_3 W_0 + 44 t^{13} C_0 V_3 W_0 - 144 t^{14} C_0 V_3 W_0 + 196 t^{15} C_0 V_3 W_0 - \\
& 164 t^{16} C_0 V_3 W_0 + 88 t^{17} C_0 V_3 W_0 - 28 t^{18} C_0 V_3 W_0 + 4 t^{19} C_0 V_3 W_0 - 4 t^{10} \eta C_0 V_3 W_0 + 4 t^{11} \eta C_0 V_3 W_0 + 32 t^{12} \eta C_0 V_3 W_0 - \\
& 104 t^{13} \eta C_0 V_3 W_0 + 152 t^{14} \eta C_0 V_3 W_0 - 128 t^{15} \eta C_0 V_3 W_0 + 60 t^{16} \eta C_0 V_3 W_0 - 12 t^{17} \eta C_0 V_3 W_0 + 4 t^{11} \eta^2 C_0 V_3 W_0 - \\
& 20 t^{12} \eta^2 C_0 V_3 W_0 + 40 t^{13} \eta^2 C_0 V_3 W_0 - 36 t^{14} \eta^2 C_0 V_3 W_0 + 12 t^{15} \eta^2 C_0 V_3 W_0 + 4 t^{12} \eta^3 C_0 V_3 W_0 - 4 t^{13} \eta^3 C_0 V_3 W_0 - 8 t^9 C_3 V_3 W_0 + \\
& 56 t^{10} C_3 V_3 W_0 - 192 t^{11} C_3 V_3 W_0 + 424 t^{12} C_3 V_3 W_0 - 664 t^{13} C_3 V_3 W_0 + 768 t^{14} C_3 V_3 W_0 - 664 t^{15} C_3 V_3 W_0 + 424 t^{16} C_3 V_3 W_0 - \\
& 192 t^{17} C_3 V_3 W_0 + 56 t^{18} C_3 V_3 W_0 - 8 t^{19} C_3 V_3 W_0 - 20 t^{10} \eta C_3 V_3 W_0 + 100 t^{11} \eta C_3 V_3 W_0 - 240 t^{12} \eta C_3 V_3 W_0 + 360 t^{13} \eta C_3 V_3 W_0 - \\
& 360 t^{14} \eta C_3 V_3 W_0 + 240 t^{15} \eta C_3 V_3 W_0 - 100 t^{16} \eta C_3 V_3 W_0 + 20 t^{17} \eta C_3 V_3 W_0 - 16 t^{11} \eta^2 C_3 V_3 W_0 + 48 t^{12} \eta^2 C_3 V_3 W_0 - \\
& 64 t^{13} \eta^2 C_3 V_3 W_0 + 48 t^{14} \eta^2 C_3 V_3 W_0 - 16 t^{15} \eta^2 C_3 V_3 W_0 - 4 t^{12} \eta^3 C_3 V_3 W_0 + 4 t^{13} \eta^3 C_3 V_3 W_0 + 8 t^{11} C_4 V_3 W_0 - 48 t^{12} C_4 V_3 W_0 + \\
& 136 t^{13} C_4 V_3 W_0 - 240 t^{14} C_4 V_3 W_0 + 288 t^{15} C_4 V_3 W_0 - 240 t^{16} C_4 V_3 W_0 + 136 t^{17} C_4 V_3 W_0 - 48 t^{18} C_4 V_3 W_0 + 8 t^{19} C_4 V_3 W_0 + \\
& 8 t^{10} \eta C_4 V_3 W_0 - 40 t^{11} \eta C_4 V_3 W_0 + 112 t^{12} \eta C_4 V_3 W_0 - 208 t^{13} \eta C_4 V_3 W_0 + 256 t^{14} \eta C_4 V_3 W_0 - 208 t^{15} \eta C_4 V_3 W_0 + \\
& 104 t^{16} \eta C_4 V_3 W_0 - 24 t^{17} \eta C_4 V_3 W_0 + 16 t^{11} \eta^2 C_4 V_3 W_0 - 48 t^{12} \eta^2 C_4 V_3 W_0 + 72 t^{13} \eta^2 C_4 V_3 W_0 - 64 t^{14} \eta^2 C_4 V_3 W_0 + \\
& 24 t^{15} \eta^2 C_4 V_3 W_0 + 8 t^{12} \eta^3 C_4 V_3 W_0 - 8 t^{13} \eta^3 C_4 V_3 W_0 + 4 t^4 \eta^4 C_{x\$1001} V_3 W_0 - 12 t^5 \eta^4 C_{x\$1001} V_3 W_0 + 16 t^6 \eta^4 C_{x\$1001} V_3 W_0 - \\
& 8 t^7 \eta^4 C_{x\$1001} V_3 W_0 - 8 t^8 \eta^4 C_{x\$1001} V_3 W_0 + 16 t^9 \eta^4 C_{x\$1001} V_3 W_0 - 12 t^{10} \eta^4 C_{x\$1001} V_3 W_0 + 4 t^{11} \eta^4 C_{x\$1001} V_3 W_0 + \\
& 8 t^5 \eta^5 C_{x\$1001} V_3 W_0 - 8 t^6 \eta^5 C_{x\$1001} V_3 W_0 + 8 t^8 \eta^5 C_{x\$1001} V_3 W_0 - 8 t^9 \eta^5 C_{x\$1001} V_3 W_0 + 4 t^6 \eta^6 C_{x\$1001} V_3 W_0 + 4 t^7 \eta^6 C_{x\$1001} V_3 W_0 + \\
& 12 t^6 \eta^2 V_{x\$1001} W_0 - 72 t^7 \eta^2 V_{x\$1001} W_0 + 200 t^8 \eta^2 V_{x\$1001} W_0 - 344 t^9 \eta^2 V_{x\$1001} W_0 + 408 t^{10} \eta^2 V_{x\$1001} W_0 - 344 t^{11} \eta^2 V_{x\$1001} W_0 + \\
& 204 t^{12} \eta^2 V_{x\$1001} W_0 - 80 t^{13} \eta^2 V_{x\$1001} W_0 + 16 t^{14} \eta^2 V_{x\$1001} W_0 + 4 t^7 \eta^3 V_{x\$1001} W_0 - 24 t^8 \eta^3 V_{x\$1001} W_0 + 48 t^9 \eta^3 V_{x\$1001} W_0 - \\
& 48 t^{10} \eta^3 V_{x\$1001} W_0 + 32 t^{11} \eta^3 V_{x\$1001} W_0 - 8 t^{12} \eta^3 V_{x\$1001} W_0 - 4 t^{13} \eta^3 V_{x\$1001} W_0 - 8 t^8 \eta^4 V_{x\$1001} W_0 + 8 t^9 \eta^4 V_{x\$1001} W_0 + \\
& 4 t^{11} \eta^4 V_{x\$1001} W_0 - 4 t^3 \eta^5 V_{x\$1001} W_0 + 8 t^4 \eta^5 V_{x\$1001} W_0 - 8 t^5 \eta^5 V_{x\$1001} W_0 + 8 t^7 \eta^5 V_{x\$1001} W_0 - 8 t^8 \eta^5 V_{x\$1001} W_0 + \\
& 4 t^9 \eta^5 V_{x\$1001} W_0 - 4 t^4 \eta^6 V_{x\$1001} W_0 - 4 t^7 \eta^6 V_{x\$1001} W_0 - 4 t^8 \eta C_0 V_{x\$1001} W_0 + 16 t^9 \eta C_0 V_{x\$1001} W_0 - 24 t^{10} \eta C_0 V_{x\$1001} W_0 + \\
& 4 t^{11} \eta C_0 V_{x\$1001} W_0 + 48 t^{12} \eta C_0 V_{x\$1001} W_0 - 96 t^{13} \eta C_0 V_{x\$1001} W_0 + 100 t^{14} \eta C_0 V_{x\$1001} W_0 - 64 t^{15} \eta C_0 V_{x\$1001} W_0 + \\
& 24 t^{16} \eta C_0 V_{x\$1001} W_0 - 4 t^{17} \eta C_0 V_{x\$1001} W_0 - 4 t^9 \eta^2 C_0 V_{x\$1001} W_0 + 32 t^{11} \eta^2 C_0 V_{x\$1001} W_0 - 72 t^{12} \eta^2 C_0 V_{x\$1001} W_0 + \\
& 80 t^{13} \eta^2 C_0 V_{x\$1001} W_0 - 48 t^{14} \eta^2 C_0 V_{x\$1001} W_0 + 12 t^{15} \eta^2 C_0 V_{x\$1001} W_0 + 4 t^{10} \eta^3 C_0 V_{x\$1001} W_0 - 16 t^{11} \eta^3 C_0 V_{x\$1001} W_0 + \\
& 24 t^{12} \eta^3 C_0 V_{x\$1001} W_0 - 12 t^{13} \eta^3 C_0 V_{x\$1001} W_0 + 4 t^{11} \eta^4 C_0 V_{x\$1001} W_0 - 4 t^8 \eta C_3 V_{x\$1001} W_0 + 24 t^9 \eta C_3 V_{x\$1001} W_0 - \\
& 72 t^{10} \eta C_3 V_{x\$1001} W_0 + 140 t^{11} \eta C_3 V_{x\$1001} W_0 - 192 t^{12} \eta C_3 V_{x\$1001} W_0 + 192 t^{13} \eta C_3 V_{x\$1001} W_0 - 140 t^{14} \eta C_3 V_{x\$1001} W_0 + \\
& 72 t^{15} \eta C_3 V_{x\$1001} W_0 - 24 t^{16} \eta C_3 V_{x\$1001} W_0 + 4 t^{17} \eta C_3 V_{x\$1001} W_0 - 8 t^9 \eta^2 C_3 V_{x\$1001} W_0 + 32 t^{10} \eta^2 C_3 V_{x\$1001} W_0 - \\
& 64 t^{11} \eta^2 C_3 V_{x\$1001} W_0 + 80 t^{12} \eta^2 C_3 V_{x\$1001} W_0 - 64 t^{13} \eta^2 C_3 V_{x\$1001} W_0 + 32 t^{14} \eta^2 C_3 V_{x\$1001} W_0 - 8 t^{15} \eta^2 C_3 V_{x\$1001} W_0 - \\
& 4 t^{10} \eta^3 C_3 V_{x\$1001} W_0 + 8 t^{11} \eta^3 C_3 V_{x\$1001} W_0 - 8 t^{12} \eta^3 C_3 V_{x\$1001} W_0 + 4 t^{13} \eta^3 C_3 V_{x\$1001} W_0 - 4 t^8 \eta C_4 V_{x\$1001} W_0 + 24 t^9 \eta C_4 V_{x\$1001} W_0 - \\
& 64 t^{10} \eta C_4 V_{x\$1001} W_0 + 100 t^{11} \eta C_4 V_{x\$1001} W_0 - 96 t^{12} \eta C_4 V_{x\$1001} W_0 + 48 t^{13} \eta C_4 V_{x\$1001} W_0 + 4 t^{14} \eta C_4 V_{x\$1001} W_0 - \\
& 24 t^{15} \eta C_4 V_{x\$1001} W_0 + 16 t^{16} \eta C_4 V_{x\$1001} W_0 - 4 t^{17} \eta C_4 V_{x\$1001} W_0 - 4 t^9 \eta^2 C_4 V_{x\$1001} W_0 + 16 t^{10} \eta^2 C_4 V_{x\$1001} W_0 - \\
& 16 t^{11} \eta^2 C_4 V_{x\$1001} W_0 - 8 t^{12} \eta^2 C_4 V_{x\$1001} W_0 + 32 t^{13} \eta^2 C_4 V_{x\$1001} W_0 - 32 t^{14} \eta^2 C_4 V_{x\$1001} W_0 + 12 t^{15} \eta^2 C_4 V_{x\$1001} W_0 + \\
& 4 t^{10} \eta^3 C_4 V_{x\$1001} W_0 - 8 t^{11} \eta^3 C_4 V_{x\$1001} W_0 + 16 t^{12} \eta^3 C_4 V_{x\$1001} W_0 - 12 t^{13} \eta^3 C_4 V_{x\$1001} W_0 + 4 t^{11} \eta^4 C_4 V_{x\$1001} W_0 - \\
& 4 t^2 \eta^4 C_{x\$1001} V_{x\$1001} W_0 + 16 t^3 \eta^4 C_{x\$1001} V_{x\$1001} W_0 - 32 t^4 \eta^4 C_{x\$1001} V_{x\$1001} W_0 + 36 t^5 \eta^4 C_{x\$1001} V_{x\$1001} W_0 - 16 t^6 \eta^4 C_{x\$1001} V_{x\$1001} W_0 - \\
& 16 t^7 \eta^4 C_{x\$1001} V_{x\$1001} W_0 + 36 t^8 \eta^4 C_{x\$1001} V_{x\$1001} W_0 - 32 t^9 \eta^4 C_{x\$1001} V_{x\$1001} W_0 + 16 t^{10} \eta^4 C_{x\$1001} V_{x\$1001} W_0 - \\
& 4 t^{11} \eta^4 C_{x\$1001} V_{x\$1001} W_0 - 8 t^3 \eta^5 C_{x\$1001} V_{x\$1001} W_0 + 16 t^4 \eta^5 C_{x\$1001} V_{x\$1001} W_0 - 16 t^5 \eta^5 C_{x\$1001} V_{x\$1001} W_0 + 16 t^7 \eta^5 C_{x\$1001} V_{x\$1001} W_0 - \\
& 16 t^8 \eta^5 C_{x\$1001} V_{x\$1001} W_0 + 8 t^9 \eta^5 C_{x\$1001} V_{x\$1001} W_0 - 4 t^4 \eta^6 C_{x\$1001} V_{x\$1001} W_0 - 4 t^7 \eta^6 C_{x\$1001} V_{x\$1001} W_0 + 4 t^8 V_0^2 W_0^2 - \\
& 32 t^9 V_0^2 W_0^2 + 117 t^{10} V_0^2 W_0^2 - 260 t^{11} V_0^2 W_0^2 + 393 t^{12} V_0^2 W_0^2 - 424 t^{13} V_0^2 W_0^2 + 328 t^{14} V_0^2 W_0^2 - 176 t^{15} V_0^2 W_0^2 + 61 t^{16} V_0^2 W_0^2 - \\
& 12 t^{17} V_0^2 W_0^2 + t^{18} V_0^2 W_0^2 - 8 t^8 \eta V_0^2 W_0^2 + 52 t^9 \eta V_0^2 W_0^2 - 156 t^{10} \eta V_0^2 W_0^2 + 288 t^{11} \eta V_0^2 W_0^2 - 352 t^{12} \eta V_0^2 W_0^2 + 280 t^{13} \eta V_0^2 W_0^2 - \\
& 136 t^{14} \eta V_0^2 W_0^2 + 36 t^{15} \eta V_0^2 W_0^2 - 4 t^{16} \eta V_0^2 W_0^2 + 2 t^8 \eta^2 V_0^2 W_0^2 - 18 t^9 \eta^2 V_0^2 W_0^2 + 66 t^{10} \eta^2 V_0^2 W_0^2 - 110 t^{11} \eta^2 V_0^2 W_0^2 + 90 t^{12} \eta^2 V_0^2 W_0^2 - \\
& 36 t^{13} \eta^2 V_0^2 W_0^2 + 6 t^{14} \eta^2 V_0^2 W_0^2 + 8 t^9 \eta^3 V_0^2 W_0^2 - 16 t^{10} \eta^3 V_0^2 W_0^2 + 12 t^{11} \eta^3 V_0^2 W_0^2 - 4 t^{12} \eta^3 V_0^2 W_0^2 - t^4 \eta^4 V_0^2 W_0^2 + 2 t^5 \eta^4 V_0^2 W_0^2 - \\
& 2 t^7 \eta^4 V_0^2 W_0^2 + t^8 \eta^4 V_0^2 W_0^2 + t^{10} \eta^4 V_0^2 W_0^2 + 4 t^9 V_0 V_3 W_0^2 - 20 t^{10} V_0 V_3 W_0^2 + 40 t^{11} V_0 V_3 W_0^2 - 36 t^{12} V_0 V_3 W_0^2 - 4 t^{13} V_0 V_3 W_0^2 + \\
& 56 t^{14} V_0 V_3 W_0^2 - 80 t^{15} V_0 V_3 W_0^2 + 60 t^{16} V_0 V_3 W_0^2 - 24 t^{17} V_0 V_3 W_0^2 + 4 t^{18} V_0 V_3 W_0^2 - 12 t^{12} \eta V_0 V_3 W_0^2 + 48 t^{13} \eta V_0 V_3 W_0^2 - \\
& 72 t^{14} \eta V_0 V_3 W_0^2 + 48 t^{15} \eta V_0 V_3 W_0^2 - 12 t^{16} \eta V_0 V_3 W_0^2 - 6 t^{10} \eta^2 V_0 V_3 W_0^2 + 10 t^{11} \eta^2 V_0 V_3 W_0^2 + 10 t^{12} \eta^2 V_0 V_3 W_0^2 - \\
& 26 t^{13} \eta^2 V_0 V_3 W_0^2 + 12 t^{14} \eta^2 V_0 V_3 W_0^2 + 4 t^{11} \eta^3 V_0 V_3 W_0^2 - 4 t^{12} \eta^3 V_0 V_3 W_0^2 - 2 t^6 \eta^4 V_0 V_3 W_0^2 + 2 t^7 \eta^4 V_0 V_3 W_0^2 + 2 t^8 \eta^4 V_0 V_3 W_0^2 - \\
& 2 t^9 \eta^4 V_0 V_3 W_0^2 + 3 t^{10} V_3^2 W_0^2 - 16 t^{11} V_3^2 W_0^2 + 43 t^{12} V_3^2 W_0^2 - 76 t^{13} V_3^2 W_0^2 + 92 t^{14} V_3^2 W_0^2 - 76 t^{15} V_3^2 W_0^2 + 43 t^{16} V_3^2 W_0^2 - 16 t^{17} V_3^2 W_0^2 + \\
& 3 t^{18} V_3^2 W_0^2 + 8 t^{11} \eta V_3^2 W_0^2 - 28 t^{12} \eta V_3^2 W_0^2 + 40 t^{13} \eta V_3^2 W_0^2 - 32 t^{14} \eta V_3^2 W_0^2 + 16 t^{15} \eta V_3^2 W_0^2 - 4 t^{16} \eta V_3^2 W_0^2 - t^8 \eta^4 V_3^2 W_0^2 + \\
& t^{10} \eta^4 V_3^2 W_0^2 + 4 t^8 \eta V_0 V_{x\$1001} W_0^2 - 16 t^9 \eta V_0 V_{x\$1001} W_0^2 + 24 t^{10} \eta V_0 V_{x\$1001} W_0^2 - 12 t^{11} \eta V_0 V_{x\$1001} W_0^2 - 16 t^{12} \eta V_0 V_{x\$1001} W_0^2 + \\
& 40 t^{13} \eta V_0 V_{x\$1001} W_0^2 - 40 t^{14} \eta V_0 V_{x\$1001} W_0^2 + 20 t^{15} \eta V_0 V_{x\$1001} W_0^2 - 4 t^{16} \eta V_0 V_{x\$1001} W_0^2 + 4 t^8 \eta^2 V_0 V_{x\$1001} W_0^2 - \\
& 16 t^9 \eta^2 V_0 V_{x\$1001} W_0^2 + 28 t^{10} \eta^2 V_0 V_{x\$1001} W_0^2 - 40 t^{11} \eta^2 V_0 V_{x\$1001} W_0^2 + 52 t^{12} \eta^2 V_0 V_{x\$1001} W_0^2 - 40 t^{13} \eta^2 V_0 V_{x\$1001} W_0^2 + \\
& 12 t^{14} \eta^2 V_0 V_{x\$1001} W_0^2 - 2 t^9 \eta^3 V_0 V_{x\$1001} W_0^2 - 4 t^{10} \eta^3 V_0 V_{x\$1001} W_0^2 + 18 t^{11} \eta^3 V_0 V_{x\$1001} W_0^2 - 12 t^{12} \eta^3 V_0 V_{x\$1001} W_0^2 +
\end{aligned}$$

$$\begin{aligned}
& 4 t^{10} \eta^4 v_0 v_{x\$1001} w_0^2 - 2 t^5 \eta^5 v_0 v_{x\$1001} w_0^2 + 2 t^7 \eta^5 v_0 v_{x\$1001} w_0^2 + 4 t^{10} \eta v_3 v_{x\$1001} w_0^2 - 12 t^{11} \eta v_3 v_{x\$1001} w_0^2 + 16 t^{12} \eta v_3 v_{x\$1001} w_0^2 - \\
& 16 t^{13} \eta v_3 v_{x\$1001} w_0^2 + 12 t^{14} \eta v_3 v_{x\$1001} w_0^2 - 4 t^{15} \eta v_3 v_{x\$1001} w_0^2 + 8 t^{10} \eta^2 v_3 v_{x\$1001} w_0^2 - 16 t^{11} \eta^2 v_3 v_{x\$1001} w_0^2 + \\
& 8 t^{12} \eta^2 v_3 v_{x\$1001} w_0^2 - 2 t^{11} \eta^3 v_3 v_{x\$1001} w_0^2 + 2 t^{12} \eta^3 v_3 v_{x\$1001} w_0^2 - 2 t^7 \eta^5 v_3 v_{x\$1001} w_0^2 - 2 t^8 \eta^5 v_3 v_{x\$1001} w_0^2 - 2 t^8 \eta^2 v_{x\$1001}^2 w_0^2 + \\
& 10 t^9 \eta^2 v_{x\$1001}^2 w_0^2 - 20 t^{10} \eta^2 v_{x\$1001}^2 w_0^2 + 24 t^{11} \eta^2 v_{x\$1001}^2 w_0^2 - 20 t^{12} \eta^2 v_{x\$1001}^2 w_0^2 + 10 t^{13} \eta^2 v_{x\$1001}^2 w_0^2 - 2 t^{14} \eta^2 v_{x\$1001}^2 w_0^2 + \\
& 2 t^9 \eta^3 v_{x\$1001}^2 w_0^2 - 4 t^{11} \eta^3 v_{x\$1001}^2 w_0^2 + 2 t^{12} \eta^3 v_{x\$1001}^2 w_0^2 + t^4 \eta^4 v_{x\$1001}^2 w_0^2 - 2 t^5 \eta^4 v_{x\$1001}^2 w_0^2 + 2 t^6 \eta^4 v_{x\$1001}^2 w_0^2 - \\
& 2 t^8 \eta^4 v_{x\$1001}^2 w_0^2 + 2 t^9 \eta^4 v_{x\$1001}^2 w_0^2 - 2 t^{10} \eta^4 v_{x\$1001}^2 w_0^2 + 2 t^5 \eta^5 v_{x\$1001}^2 w_0^2 + 2 t^8 \eta^5 v_{x\$1001}^2 w_0^2 - 8 t^6 \eta v_0 w_4 + 52 t^7 \eta v_0 w_4 - \\
& 168 t^8 \eta v_0 w_4 + 348 t^9 \eta v_0 w_4 - 496 t^{10} \eta v_0 w_4 + 496 t^{11} \eta v_0 w_4 - 344 t^{12} \eta v_0 w_4 + 156 t^{13} \eta v_0 w_4 - 40 t^{14} \eta v_0 w_4 + \\
& 4 t^{15} \eta v_0 w_4 - 8 t^6 \eta^2 v_0 w_4 + 80 t^8 \eta^2 v_0 w_4 - 208 t^9 \eta^2 v_0 w_4 + 272 t^{10} \eta^2 v_0 w_4 - 200 t^{11} \eta^2 v_0 w_4 + 72 t^{12} \eta^2 v_0 w_4 - \\
& 8 t^{13} \eta^2 v_0 w_4 - 20 t^6 \eta^3 v_0 w_4 + 56 t^7 \eta^3 v_0 w_4 - 100 t^8 \eta^3 v_0 w_4 + 120 t^9 \eta^3 v_0 w_4 - 64 t^{10} \eta^3 v_0 w_4 + 8 t^{11} \eta^3 v_0 w_4 + 4 t \eta^4 v_0 w_4 - \\
& 16 t^2 \eta^4 v_0 w_4 + 28 t^3 \eta^4 v_0 w_4 - 24 t^4 \eta^4 v_0 w_4 + 24 t^6 \eta^4 v_0 w_4 - 48 t^7 \eta^4 v_0 w_4 + 40 t^8 \eta^4 v_0 w_4 - 8 t^9 \eta^4 v_0 w_4 + 4 t^2 \eta^5 v_0 w_4 - \\
& 8 t^3 \eta^5 v_0 w_4 + 4 t^4 \eta^5 v_0 w_4 + 4 t^5 \eta^5 v_0 w_4 - 8 t^6 \eta^5 v_0 w_4 + 4 t^7 \eta^5 v_0 w_4 - 8 t^9 c_0 v_0 w_4 + 56 t^{10} c_0 v_0 w_4 - 184 t^{11} c_0 v_0 w_4 + \\
& 376 t^{12} c_0 v_0 w_4 - 528 t^{13} c_0 v_0 w_4 + 528 t^{14} c_0 v_0 w_4 - 376 t^{15} c_0 v_0 w_4 + 184 t^{16} c_0 v_0 w_4 - 56 t^{17} c_0 v_0 w_4 + 8 t^{18} c_0 v_0 w_4 - \\
& 8 t^7 \eta c_0 v_0 w_4 + 40 t^8 \eta c_0 v_0 w_4 - 88 t^9 \eta c_0 v_0 w_4 + 88 t^{10} \eta c_0 v_0 w_4 + 32 t^{11} \eta c_0 v_0 w_4 - 224 t^{12} \eta c_0 v_0 w_4 + 328 t^{13} \eta c_0 v_0 w_4 - \\
& 264 t^{14} \eta c_0 v_0 w_4 + 120 t^{15} \eta c_0 v_0 w_4 - 24 t^{16} \eta c_0 v_0 w_4 - 16 t^8 \eta^2 c_0 v_0 w_4 + 48 t^9 \eta^2 c_0 v_0 w_4 - 48 t^{10} \eta^2 c_0 v_0 w_4 - \\
& 8 t^{11} \eta^2 c_0 v_0 w_4 + 72 t^{12} \eta^2 c_0 v_0 w_4 - 72 t^{13} \eta^2 c_0 v_0 w_4 + 24 t^{14} \eta^2 c_0 v_0 w_4 - 8 t^9 \eta^3 c_0 v_0 w_4 + 8 t^{10} \eta^3 c_0 v_0 w_4 + \\
& 8 t^{11} \eta^3 c_0 v_0 w_4 - 8 t^{12} \eta^3 c_0 v_0 w_4 + 4 t^8 c_3 v_0 w_4 - 28 t^9 c_3 v_0 w_4 + 96 t^{10} c_3 v_0 w_4 - 212 t^{11} c_3 v_0 w_4 + 332 t^{12} c_3 v_0 w_4 - \\
& 384 t^{13} c_3 v_0 w_4 + 332 t^{14} c_3 v_0 w_4 - 212 t^{15} c_3 v_0 w_4 + 96 t^{16} c_3 v_0 w_4 - 28 t^{17} c_3 v_0 w_4 + 4 t^{18} c_3 v_0 w_4 + 16 t^9 \eta c_3 v_0 w_4 - \\
& 80 t^{10} \eta c_3 v_0 w_4 + 192 t^{11} \eta c_3 v_0 w_4 - 288 t^{12} \eta c_3 v_0 w_4 + 288 t^{13} \eta c_3 v_0 w_4 - 192 t^{14} \eta c_3 v_0 w_4 + 80 t^{15} \eta c_3 v_0 w_4 - \\
& 16 t^{16} \eta c_3 v_0 w_4 + 4 t^8 \eta^2 c_3 v_0 w_4 - 16 t^9 \eta^2 c_3 v_0 w_4 + 52 t^{10} \eta^2 c_3 v_0 w_4 - 100 t^{11} \eta^2 c_3 v_0 w_4 + 112 t^{12} \eta^2 c_3 v_0 w_4 - \\
& 76 t^{13} \eta^2 c_3 v_0 w_4 + 24 t^{14} \eta^2 c_3 v_0 w_4 + 8 t^9 \eta^3 c_3 v_0 w_4 - 16 t^{10} \eta^3 c_3 v_0 w_4 + 24 t^{11} \eta^3 c_3 v_0 w_4 - 16 t^{12} \eta^3 c_3 v_0 w_4 + \\
& 4 t^{10} \eta^4 c_3 v_0 w_4 - 8 t^8 c_4 v_0 w_4 + 56 t^9 c_4 v_0 w_4 - 184 t^{10} c_4 v_0 w_4 + 376 t^{11} c_4 v_0 w_4 - 528 t^{12} c_4 v_0 w_4 + 528 t^{13} c_4 v_0 w_4 - \\
& 376 t^{14} c_4 v_0 w_4 + 184 t^{15} c_4 v_0 w_4 - 56 t^{16} c_4 v_0 w_4 + 8 t^{17} c_4 v_0 w_4 - 8 t^9 \eta c_4 v_0 w_4 + 40 t^{10} \eta c_4 v_0 w_4 - 80 t^{11} \eta c_4 v_0 w_4 + \\
& 80 t^{12} \eta c_4 v_0 w_4 - 32 t^{13} \eta c_4 v_0 w_4 - 16 t^{14} \eta c_4 v_0 w_4 + 24 t^{15} \eta c_4 v_0 w_4 - 8 t^{16} \eta c_4 v_0 w_4 + 8 t^8 \eta^2 c_4 v_0 w_4 - 32 t^9 \eta^2 c_4 v_0 w_4 + \\
& 72 t^{10} \eta^2 c_4 v_0 w_4 - 104 t^{11} \eta^2 c_4 v_0 w_4 + 104 t^{12} \eta^2 c_4 v_0 w_4 - 72 t^{13} \eta^2 c_4 v_0 w_4 + 24 t^{14} \eta^2 c_4 v_0 w_4 + 16 t^9 \eta^3 c_4 v_0 w_4 - \\
& 32 t^{10} \eta^3 c_4 v_0 w_4 + 40 t^{11} \eta^3 c_4 v_0 w_4 - 24 t^{12} \eta^3 c_4 v_0 w_4 + 8 t^{10} \eta^4 c_4 v_0 w_4 - 4 t \eta^4 c_{x\$1001} v_0 w_4 + 16 t^2 \eta^4 c_{x\$1001} v_0 w_4 - \\
& 28 t^3 \eta^4 c_{x\$1001} v_0 w_4 + 24 t^4 \eta^4 c_{x\$1001} v_0 w_4 - 24 t^6 \eta^4 c_{x\$1001} v_0 w_4 + 28 t^7 \eta^4 c_{x\$1001} v_0 w_4 - 16 t^8 \eta^4 c_{x\$1001} v_0 w_4 + \\
& 4 t^9 \eta^4 c_{x\$1001} v_0 w_4 - 8 t^2 \eta^5 c_{x\$1001} v_0 w_4 + 16 t^3 \eta^5 c_{x\$1001} v_0 w_4 - 8 t^4 \eta^5 c_{x\$1001} v_0 w_4 - 8 t^5 \eta^5 c_{x\$1001} v_0 w_4 + \\
& 16 t^6 \eta^5 c_{x\$1001} v_0 w_4 - 8 t^7 \eta^5 c_{x\$1001} v_0 w_4 - 4 t^3 \eta^6 c_{x\$1001} v_0 w_4 + 4 t^5 \eta^6 c_{x\$1001} v_0 w_4 + 4 t^9 \eta v_3 w_4 - 28 t^{10} \eta v_3 w_4 + \\
& 80 t^{11} \eta v_3 w_4 - 128 t^{12} \eta v_3 w_4 + 128 t^{13} \eta v_3 w_4 - 80 t^{14} \eta v_3 w_4 + 28 t^{15} \eta v_3 w_4 - 4 t^{16} \eta v_3 w_4 + 16 t^7 \eta^2 v_3 w_4 - 72 t^8 \eta^2 v_3 w_4 + \\
& 136 t^9 \eta^2 v_3 w_4 - 136 t^{10} \eta^2 v_3 w_4 + 56 t^{11} \eta^2 v_3 w_4 + 24 t^{12} \eta^2 v_3 w_4 - 32 t^{13} \eta^2 v_3 w_4 + 8 t^{14} \eta^2 v_3 w_4 + 12 t^8 \eta^3 v_3 w_4 - \\
& 28 t^9 \eta^3 v_3 w_4 + 8 t^{10} \eta^3 v_3 w_4 + 16 t^{11} \eta^3 v_3 w_4 - 8 t^{12} \eta^3 v_3 w_4 + 4 t^3 \eta^4 v_3 w_4 - 12 t^4 \eta^4 v_3 w_4 + 16 t^5 \eta^4 v_3 w_4 - 8 t^6 \eta^4 v_3 w_4 - \\
& 8 t^7 \eta^4 v_3 w_4 + 16 t^8 \eta^4 v_3 w_4 - 16 t^9 \eta^4 v_3 w_4 + 8 t^{10} \eta^4 v_3 w_4 + 4 t^4 \eta^5 v_3 w_4 - 4 t^5 \eta^5 v_3 w_4 + 4 t^7 \eta^5 v_3 w_4 - 4 t^8 \eta^5 v_3 w_4 - \\
& 8 t^{11} c_0 v_3 w_4 + 48 t^{12} c_0 v_3 w_4 - 136 t^{13} c_0 v_3 w_4 + 240 t^{14} c_0 v_3 w_4 - 288 t^{15} c_0 v_3 w_4 + 240 t^{16} c_0 v_3 w_4 - 136 t^{17} c_0 v_3 w_4 + \\
& 48 t^{18} c_0 v_3 w_4 - 8 t^{19} c_0 v_3 w_4 - 8 t^9 \eta c_0 v_3 w_4 + 32 t^{10} \eta c_0 v_3 w_4 - 56 t^{11} \eta c_0 v_3 w_4 + 32 t^{12} \eta c_0 v_3 w_4 + 64 t^{13} \eta c_0 v_3 w_4 - \\
& 160 t^{14} \eta c_0 v_3 w_4 + 168 t^{15} \eta c_0 v_3 w_4 - 96 t^{16} \eta c_0 v_3 w_4 + 24 t^{17} \eta c_0 v_3 w_4 - 16 t^{10} \eta^2 c_0 v_3 w_4 + 32 t^{11} \eta^2 c_0 v_3 w_4 - \\
& 16 t^{12} \eta^2 c_0 v_3 w_4 - 24 t^{13} \eta^2 c_0 v_3 w_4 + 48 t^{14} \eta^2 c_0 v_3 w_4 - 24 t^{15} \eta^2 c_0 v_3 w_4 - 8 t^{11} \eta^3 c_0 v_3 w_4 + 8 t^{13} \eta^3 c_0 v_3 w_4 + 4 t^8 c_3 v_3 w_4 - \\
& 28 t^9 c_3 v_3 w_4 + 96 t^{10} c_3 v_3 w_4 - 212 t^{11} c_3 v_3 w_4 + 332 t^{12} c_3 v_3 w_4 - 384 t^{13} c_3 v_3 w_4 + 332 t^{14} c_3 v_3 w_4 - 212 t^{15} c_3 v_3 w_4 + \\
& 96 t^{16} c_3 v_3 w_4 - 28 t^{17} c_3 v_3 w_4 + 4 t^{18} c_3 v_3 w_4 + 8 t^9 \eta c_3 v_3 w_4 - 40 t^{10} \eta c_3 v_3 w_4 + 96 t^{11} \eta c_3 v_3 w_4 - 144 t^{12} \eta c_3 v_3 w_4 + \\
& 144 t^{13} \eta c_3 v_3 w_4 - 96 t^{14} \eta c_3 v_3 w_4 + 40 t^{15} \eta c_3 v_3 w_4 - 8 t^{16} \eta c_3 v_3 w_4 + 4 t^{10} \eta^2 c_3 v_3 w_4 - 12 t^{11} \eta^2 c_3 v_3 w_4 + 16 t^{12} \eta^2 c_3 v_3 w_4 - \\
& 12 t^{13} \eta^2 c_3 v_3 w_4 + 4 t^{14} \eta^2 c_3 v_3 w_4 + 8 t^9 c_4 v_3 w_4 - 64 t^{10} c_4 v_3 w_4 + 240 t^{11} c_4 v_3 w_4 - 560 t^{12} c_4 v_3 w_4 + 904 t^{13} c_4 v_3 w_4 - \\
& 1056 t^{14} c_4 v_3 w_4 + 904 t^{15} c_4 v_3 w_4 - 560 t^{16} c_4 v_3 w_4 + 240 t^{17} c_4 v_3 w_4 - 64 t^{18} c_4 v_3 w_4 + 8 t^{19} c_4 v_3 w_4 - 8 t^9 \eta c_4 v_3 w_4 + \\
& 64 t^{10} \eta c_4 v_3 w_4 - 232 t^{11} \eta c_4 v_3 w_4 + 496 t^{12} \eta c_4 v_3 w_4 - 688 t^{13} \eta c_4 v_3 w_4 + 640 t^{14} \eta c_4 v_3 w_4 - 392 t^{15} \eta c_4 v_3 w_4 + \\
& 144 t^{16} \eta c_4 v_3 w_4 - 24 t^{17} \eta c_4 v_3 w_4 - 16 t^{10} \eta^2 c_4 v_3 w_4 + 72 t^{11} \eta^2 c_4 v_3 w_4 - 144 t^{12} \eta^2 c_4 v_3 w_4 + 160 t^{13} \eta^2 c_4 v_3 w_4 - \\
& 96 t^{14} \eta^2 c_4 v_3 w_4 + 24 t^{15} \eta^2 c_4 v_3 w_4 - 8 t^{11} \eta^3 c_4 v_3 w_4 + 16 t^{12} \eta^3 c_4 v_3 w_4 - 8 t^{13} \eta^3 c_4 v_3 w_4 - 4 t^3 \eta^4 c_{x\$1001} v_3 w_4 + \\
& 12 t^4 \eta^4 c_{x\$1001} v_3 w_4 - 16 t^5 \eta^4 c_{x\$1001} v_3 w_4 + 8 t^6 \eta^4 c_{x\$1001} v_3 w_4 + 8 t^7 \eta^4 c_{x\$1001} v_3 w_4 - 16 t^8 \eta^4 c_{x\$1001} v_3 w_4 + \\
& 12 t^9 \eta^4 c_{x\$1001} v_3 w_4 - 4 t^{10} \eta^4 c_{x\$1001} v_3 w_4 - 8 t^4 \eta^5 c_{x\$1001} v_3 w_4 + 8 t^5 \eta^5 c_{x\$1001} v_3 w_4 - 8 t^7 \eta^5 c_{x\$1001} v_3 w_4 + 8 t^8 \eta^5 c_{x\$1001} v_3 w_4 - \\
& 4 t^5 \eta^6 c_{x\$1001} v_3 w_4 - 4 t^6 \eta^6 c_{x\$1001} v_3 w_4 - 4 t^5 \eta^2 v_{x\$1001} w_4 + 24 t^6 \eta^2 v_{x\$1001} w_4 - 72 t^7 \eta^2 v_{x\$1001} w_4 + 144 t^8 \eta^2 v_{x\$1001} w_4 - \\
& 216 t^9 \eta^2 v_{x\$1001} w_4 + 248 t^{10} \eta^2 v_{x\$1001} w_4 - 212 t^{11} \eta^2 v_{x\$1001} w_4 + 128 t^{12} \eta^2 v_{x\$1001} w_4 - 48 t^{13} \eta^2 v_{x\$1001} w_4 + 8 t^{14} \eta^2 v_{x\$1001} w_4 + \\
& 12 t^6 \eta^3 v_{x\$1001} w_4 - 40 t^7 \eta^3 v_{x\$1001} w_4 + 48 t^8 \eta^3 v_{x\$1001} w_4 - 16 t^9 \eta^3 v_{x\$1001} w_4 - 32 t^{10} \eta^3 v_{x\$1001} w_4 + 40 t^{11} \eta^3 v_{x\$1001} w_4 - \\
& 12 t^{12} \eta^3 v_{x\$1001} w_4 + 16 t^7 \eta^4 v_{x\$1001} w_4 - 24 t^8 \eta^4 v_{x\$1001} w_4 + 4 t^{10} \eta^4 v_{x\$1001} w_4 + 4 t^2 \eta^5 v_{x\$1001} w_4 - 8 t^3 \eta^5 v_{x\$1001} w_4 + \\
& 8 t^4 \eta^5 v_{x\$1001} w_4 - 8 t^6 \eta^5 v_{x\$1001} w_4 + 8 t^7 \eta^5 v_{x\$1001} w_4 - 4 t^8 \eta^5 v_{x\$1001} w_4 + 4 t^3 \eta^6 v_{x\$1001} w_4 + 4 t^6 \eta^6 v_{x\$1001} w_4 - \\
& 8 t^{10} \eta c_0 v_{x\$1001} w_4 + 40 t^{11} \eta c_0 v_{x\$1001} w_4 - 96 t^{12} \eta c_0 v_{x\$1001} w_4 + 144 t^{13} \eta c_0 v_{x\$1001} w_4 - 144 t^{14} \eta c_0 v_{x\$1001} w_4 + \\
& 96 t^{15} \eta c_0 v_{x\$1001} w_4 - 40 t^{16} \eta c_0 v_{x\$1001} w_4 + 8 t^{17} \eta c_0 v_{x\$1001} w_4 - 8 t^8 \eta^2 c_0 v_{x\$1001} w_4 + 24 t^9 \eta^2 c_0 v_{x\$1001} w_4 - \\
& 32 t^{10} \eta^2 c_0 v_{x\$1001} w_4 + 64 t^{12} \eta^2 c_0 v_{x\$1001} w_4 - 96 t^{13} \eta^2 c_0 v_{x\$1001} w_4 + 72 t^{14} \eta^2 c_0 v_{x\$1001} w_4 - 24 t^{15} \eta^2 c_0 v_{x\$1001} w_4 - \\
& 16 t^9 \eta^3 c_0 v_{x\$1001} w_4 + 16 t^{10} \eta^3 c_0 v_{x\$1001} w_4 - 24 t^{12} \eta^3 c_0 v_{x\$1001} w_4 + 24 t^{13} \eta^3 c_0 v_{x\$1001} w_4 - 8 t^{10} \eta^4 c_0 v_{x\$1001} w_4 - \\
& 8 t^{11} \eta^4 c_0 v_{x\$1001} w_4 - 4 t^8 \eta^2 c_3 v_{x\$1001} w_4 + 16 t^9 \eta^2 c_3 v_{x\$1001} w_4 - 32 t^{10} \eta^2 c_3 v_{x\$1001} w_4 + 40 t^{11} \eta^2 c_3 v_{x\$1001} w_4 - \\
& 32 t^{12} \eta^2 c_3 v_{x\$1001} w_4 + 16 t^{13} \eta^2 c_3 v_{x\$1001} w_4 - 4 t^{14} \eta^2 c_3 v_{x\$1001} w_4 - 8 t^9 \eta^3 c_3 v_{x\$1001} w_4 + 16 t^{10} \eta^3 c_3 v_{x\$1001} w_4 - \\
& 16 t^{11} \eta^3 c_3 v_{x\$1001} w_4 + 8 t^{12} \eta^3 c_3 v_{x\$1001} w_4 - 4 t^{10} \eta^4 c_3 v_{x\$1001} w_4 + 4 t^7 \eta c_4 v_{x\$1001} w_4 - 16 t^8 \eta c_4 v_{x\$1001} w_4 + \\
& 16 t^9 \eta c_4 v_{x\$1001} w_4 + 44 t^{10} \eta c_4 v_{x\$1001} w_4 - 184 t^{11} \eta c_4 v_{x\$1001} w_4 + 336 t^{12} \eta c_4 v_{x\$1001} w_4 - 388 t^{13} \eta c_4 v_{x\$1001} w_4 +
\end{aligned}$$

$$\begin{aligned}
& 304 t^{14} \eta C_4 V_{x\$1001} W_4 - 160 t^{15} \eta C_4 V_{x\$1001} W_4 + 52 t^{16} \eta C_4 V_{x\$1001} W_4 - 8 t^{17} \eta C_4 V_{x\$1001} W_4 + 4 t^8 \eta^2 C_4 V_{x\$1001} W_4 + \\
& 8 t^9 \eta^2 C_4 V_{x\$1001} W_4 - 80 t^{10} \eta^2 C_4 V_{x\$1001} W_4 + 200 t^{11} \eta^2 C_4 V_{x\$1001} W_4 - 272 t^{12} \eta^2 C_4 V_{x\$1001} W_4 + 224 t^{13} \eta^2 C_4 V_{x\$1001} W_4 - \\
& 108 t^{14} \eta^2 C_4 V_{x\$1001} W_4 + 24 t^{15} \eta^2 C_4 V_{x\$1001} W_4 - 4 t^9 \eta^3 C_4 V_{x\$1001} W_4 + 32 t^{10} \eta^3 C_4 V_{x\$1001} W_4 - 64 t^{11} \eta^3 C_4 V_{x\$1001} W_4 + \\
& 60 t^{12} \eta^3 C_4 V_{x\$1001} W_4 - 24 t^{13} \eta^3 C_4 V_{x\$1001} W_4 - 4 t^{10} \eta^4 C_4 V_{x\$1001} W_4 + 8 t^{11} \eta^4 C_4 V_{x\$1001} W_4 + 4 t \eta^4 C_{x\$1001} V_{x\$1001} W_4 - \\
& 16 t^2 \eta^4 C_{x\$1001} V_{x\$1001} W_4 + 32 t^3 \eta^4 C_{x\$1001} V_{x\$1001} W_4 - 36 t^4 \eta^4 C_{x\$1001} V_{x\$1001} W_4 + 16 t^5 \eta^4 C_{x\$1001} V_{x\$1001} W_4 + \\
& 16 t^6 \eta^4 C_{x\$1001} V_{x\$1001} W_4 - 36 t^7 \eta^4 C_{x\$1001} V_{x\$1001} W_4 + 32 t^8 \eta^4 C_{x\$1001} V_{x\$1001} W_4 - 16 t^9 \eta^4 C_{x\$1001} V_{x\$1001} W_4 + \\
& 4 t^{10} \eta^4 C_{x\$1001} V_{x\$1001} W_4 + 8 t^2 \eta^5 C_{x\$1001} V_{x\$1001} W_4 - 16 t^3 \eta^5 C_{x\$1001} V_{x\$1001} W_4 + 16 t^4 \eta^5 C_{x\$1001} V_{x\$1001} W_4 - 16 t^6 \eta^5 C_{x\$1001} V_{x\$1001} W_4 + \\
& 16 t^7 \eta^5 C_{x\$1001} V_{x\$1001} W_4 - 8 t^8 \eta^5 C_{x\$1001} V_{x\$1001} W_4 + 4 t^3 \eta^6 C_{x\$1001} V_{x\$1001} W_4 + 4 t^6 \eta^6 C_{x\$1001} V_{x\$1001} W_4 - 4 t^8 v_0^2 W_0 W_4 + \\
& 24 t^9 v_0^2 W_0 W_4 - 72 t^{10} v_0^2 W_0 W_4 + 144 t^{11} v_0^2 W_0 W_4 - 212 t^{12} v_0^2 W_0 W_4 + 240 t^{13} v_0^2 W_0 W_4 - 208 t^{14} v_0^2 W_0 W_4 + 128 t^{15} v_0^2 W_0 W_4 - \\
& 48 t^{16} v_0^2 W_0 W_4 + 8 t^{17} v_0^2 W_0 W_4 + 4 t^7 \eta v_0^2 W_0 W_4 - 28 t^8 \eta v_0^2 W_0 W_4 + 64 t^9 \eta v_0^2 W_0 W_4 - 64 t^{10} \eta v_0^2 W_0 W_4 + 104 t^{12} \eta v_0^2 W_0 W_4 - \\
& 156 t^{13} \eta v_0^2 W_0 W_4 + 100 t^{14} \eta v_0^2 W_0 W_4 - 24 t^{15} \eta v_0^2 W_0 W_4 - 6 t^7 \eta^2 v_0^2 W_0 W_4 + 20 t^8 \eta^2 v_0^2 W_0 W_4 - 52 t^9 \eta^2 v_0^2 W_0 W_4 + \\
& 60 t^{10} \eta^2 v_0^2 W_0 W_4 + 10 t^{11} \eta^2 v_0^2 W_0 W_4 - 56 t^{12} \eta^2 v_0^2 W_0 W_4 + 24 t^{13} \eta^2 v_0^2 W_0 W_4 - 16 t^8 \eta^3 v_0^2 W_0 W_4 + 20 t^9 \eta^3 v_0^2 W_0 W_4 + \\
& 4 t^{10} \eta^3 v_0^2 W_0 W_4 - 8 t^{11} \eta^3 v_0^2 W_0 W_4 + 2 t^3 \eta^4 v_0^2 W_0 W_4 - 4 t^4 \eta^4 v_0^2 W_0 W_4 + 4 t^6 \eta^4 v_0^2 W_0 W_4 - 2 t^7 \eta^4 v_0^2 W_0 W_4 - 8 t^{14} v_0 v_3 W_0 W_4 + \\
& 32 t^{15} v_0 v_3 W_0 W_4 - 48 t^{16} v_0 v_3 W_0 W_4 + 32 t^{17} v_0 v_3 W_0 W_4 - 8 t^{18} v_0 v_3 W_0 W_4 + 8 t^9 \eta v_0 v_3 W_0 W_4 - 32 t^{10} \eta v_0 v_3 W_0 W_4 + \\
& 56 t^{11} \eta v_0 v_3 W_0 W_4 - 72 t^{12} \eta v_0 v_3 W_0 W_4 + 56 t^{13} \eta v_0 v_3 W_0 W_4 + 16 t^{14} \eta v_0 v_3 W_0 W_4 - 56 t^{15} \eta v_0 v_3 W_0 W_4 + 24 t^{16} \eta v_0 v_3 W_0 W_4 + \\
& 4 t^9 \eta^2 v_0 v_3 W_0 W_4 - 4 t^{10} \eta^2 v_0 v_3 W_0 W_4 - 36 t^{11} \eta^2 v_0 v_3 W_0 W_4 + 44 t^{12} \eta^2 v_0 v_3 W_0 W_4 + 16 t^{13} \eta^2 v_0 v_3 W_0 W_4 - 24 t^{14} \eta^2 v_0 v_3 W_0 W_4 - \\
& 16 t^{10} \eta^3 v_0 v_3 W_0 W_4 + 8 t^{11} \eta^3 v_0 v_3 W_0 W_4 + 8 t^{12} \eta^3 v_0 v_3 W_0 W_4 + 4 t^5 \eta^4 v_0 v_3 W_0 W_4 - 4 t^6 \eta^4 v_0 v_3 W_0 W_4 - 4 t^7 \eta^4 v_0 v_3 W_0 W_4 + \\
& 4 t^8 \eta^4 v_0 v_3 W_0 W_4 - 4 t^9 v_3^2 W_0 W_4 + 24 t^{10} v_3^2 W_0 W_4 - 68 t^{11} v_3^2 W_0 W_4 + 120 t^{12} v_3^2 W_0 W_4 - 144 t^{13} v_3^2 W_0 W_4 + 124 t^{14} v_3^2 W_0 W_4 - \\
& 84 t^{15} v_3^2 W_0 W_4 + 48 t^{16} v_3^2 W_0 W_4 - 20 t^{17} v_3^2 W_0 W_4 + 4 t^{18} v_3^2 W_0 W_4 - 8 t^{10} \eta v_3^2 W_0 W_4 + 32 t^{11} \eta v_3^2 W_0 W_4 - 48 t^{12} \eta v_3^2 W_0 W_4 + \\
& 40 t^{13} \eta v_3^2 W_0 W_4 - 32 t^{14} \eta v_3^2 W_0 W_4 + 24 t^{15} \eta v_3^2 W_0 W_4 - 8 t^{16} \eta v_3^2 W_0 W_4 + 6 t^{11} \eta^2 v_3^2 W_0 W_4 - 8 t^{12} \eta^2 v_3^2 W_0 W_4 - \\
& 2 t^{13} \eta^2 v_3^2 W_0 W_4 + 4 t^{14} \eta^2 v_3^2 W_0 W_4 + 2 t^7 \eta^4 v_3^2 W_0 W_4 - 2 t^9 \eta^4 v_3^2 W_0 W_4 + 4 t^8 \eta v_0 v_{x\$1001} W_0 W_4 - 20 t^9 \eta v_0 v_{x\$1001} W_0 W_4 + \\
& 48 t^{10} \eta v_0 v_{x\$1001} W_0 W_4 - 72 t^{11} \eta v_0 v_{x\$1001} W_0 W_4 + 72 t^{12} \eta v_0 v_{x\$1001} W_0 W_4 - 56 t^{13} \eta v_0 v_{x\$1001} W_0 W_4 + 44 t^{14} \eta v_0 v_{x\$1001} W_0 W_4 - \\
& 28 t^{15} \eta v_0 v_{x\$1001} W_0 W_4 + 8 t^{16} \eta v_0 v_{x\$1001} W_0 W_4 - 4 t^7 \eta^2 v_0 v_{x\$1001} W_0 W_4 + 24 t^8 \eta^2 v_0 v_{x\$1001} W_0 W_4 - 40 t^9 \eta^2 v_0 v_{x\$1001} W_0 W_4 + \\
& 24 t^{10} \eta^2 v_0 v_{x\$1001} W_0 W_4 - 8 t^{11} \eta^2 v_0 v_{x\$1001} W_0 W_4 - 16 t^{12} \eta^2 v_0 v_{x\$1001} W_0 W_4 + 44 t^{13} \eta^2 v_0 v_{x\$1001} W_0 W_4 - 24 t^{14} \eta^2 v_0 v_{x\$1001} W_0 W_4 + \\
& 4 t^8 \eta^3 v_0 v_{x\$1001} W_0 W_4 - 24 t^{10} \eta^3 v_0 v_{x\$1001} W_0 W_4 - 4 t^{11} \eta^3 v_0 v_{x\$1001} W_0 W_4 + 24 t^{12} \eta^3 v_0 v_{x\$1001} W_0 W_4 - 12 t^9 \eta^4 v_0 v_{x\$1001} W_0 W_4 - \\
& 8 t^{10} \eta^4 v_0 v_{x\$1001} W_0 W_4 + 4 t^4 \eta^5 v_0 v_{x\$1001} W_0 W_4 - 4 t^6 \eta^5 v_0 v_{x\$1001} W_0 W_4 + 8 t^{13} \eta v_3 v_{x\$1001} W_0 W_4 - 24 t^{14} \eta v_3 v_{x\$1001} W_0 W_4 + \\
& 24 t^{15} \eta v_3 v_{x\$1001} W_0 W_4 - 8 t^{16} \eta v_3 v_{x\$1001} W_0 W_4 - 8 t^9 \eta^2 v_3 v_{x\$1001} W_0 W_4 + 24 t^{10} \eta^2 v_3 v_{x\$1001} W_0 W_4 - 16 t^{11} \eta^2 v_3 v_{x\$1001} W_0 W_4 + \\
& 8 t^{12} \eta^2 v_3 v_{x\$1001} W_0 W_4 - 24 t^{13} \eta^2 v_3 v_{x\$1001} W_0 W_4 + 16 t^{14} \eta^2 v_3 v_{x\$1001} W_0 W_4 + 12 t^{10} \eta^3 v_3 v_{x\$1001} W_0 W_4 - 4 t^{11} \eta^3 v_3 v_{x\$1001} W_0 W_4 - \\
& 8 t^{12} \eta^3 v_3 v_{x\$1001} W_0 W_4 + 4 t^6 \eta^5 v_3 v_{x\$1001} W_0 W_4 + 4 t^7 \eta^5 v_3 v_{x\$1001} W_0 W_4 + 2 t^7 \eta^2 v_{x\$1001}^2 W_0 W_4 - 8 t^8 \eta^2 v_{x\$1001}^2 W_0 W_4 + \\
& 16 t^9 \eta^2 v_{x\$1001}^2 W_0 W_4 - 20 t^{10} \eta^2 v_{x\$1001}^2 W_0 W_4 + 16 t^{11} \eta^2 v_{x\$1001}^2 W_0 W_4 - 4 t^{12} \eta^2 v_{x\$1001}^2 W_0 W_4 - 6 t^{13} \eta^2 v_{x\$1001}^2 W_0 W_4 + \\
& 4 t^{14} \eta^2 v_{x\$1001}^2 W_0 W_4 - 4 t^8 \eta^3 v_{x\$1001}^2 W_0 W_4 + 8 t^9 \eta^3 v_{x\$1001}^2 W_0 W_4 + 4 t^{11} \eta^3 v_{x\$1001}^2 W_0 W_4 - 8 t^{12} \eta^3 v_{x\$1001}^2 W_0 W_4 - \\
& 2 t^3 \eta^4 v_{x\$1001}^2 W_0 W_4 + 4 t^4 \eta^4 v_{x\$1001}^2 W_0 W_4 - 4 t^5 \eta^4 v_{x\$1001}^2 W_0 W_4 + 4 t^7 \eta^4 v_{x\$1001}^2 W_0 W_4 - 4 t^8 \eta^4 v_{x\$1001}^2 W_0 W_4 + 6 t^9 \eta^4 v_{x\$1001}^2 W_0 W_4 + \\
& 4 t^{10} \eta^4 v_{x\$1001}^2 W_0 W_4 - 4 t^4 \eta^5 v_{x\$1001}^2 W_0 W_4 - 4 t^7 \eta^5 v_{x\$1001}^2 W_0 W_4 + 7 t^8 v_0^2 W_4^2 - 40 t^9 v_0^2 W_4^2 + 103 t^{10} v_0^2 W_4^2 - 156 t^{11} v_0^2 W_4^2 + \\
& 148 t^{12} v_0^2 W_4^2 - 84 t^{13} v_0^2 W_4^2 + 23 t^{14} v_0^2 W_4^2 - t^{16} v_0^2 W_4^2 + 8 t^7 \eta v_0^2 W_4^2 - 32 t^8 \eta v_0^2 W_4^2 + 64 t^9 \eta v_0^2 W_4^2 - 80 t^{10} \eta v_0^2 W_4^2 + 48 t^{11} \eta v_0^2 W_4^2 + \\
& 8 t^{12} \eta v_0^2 W_4^2 - 24 t^{13} \eta v_0^2 W_4^2 + 8 t^{14} \eta v_0^2 W_4^2 + 4 t^6 \eta^2 v_0^2 W_4^2 - 10 t^7 \eta^2 v_0^2 W_4^2 + 22 t^8 \eta^2 v_0^2 W_4^2 - 26 t^9 \eta^2 v_0^2 W_4^2 - 8 t^{10} \eta^2 v_0^2 W_4^2 + \\
& 32 t^{11} \eta^2 v_0^2 W_4^2 - 14 t^{12} \eta^2 v_0^2 W_4^2 + 8 t^7 \eta^3 v_0^2 W_4^2 - 8 t^8 \eta^3 v_0^2 W_4^2 - 8 t^9 \eta^3 v_0^2 W_4^2 + 8 t^{10} \eta^3 v_0^2 W_4^2 - t^2 \eta^4 v_0^2 W_4^2 + 2 t^3 \eta^4 v_0^2 W_4^2 - \\
& 2 t^5 \eta^4 v_0^2 W_4^2 + t^6 \eta^4 v_0^2 W_4^2 - t^8 \eta^4 v_0^2 W_4^2 - 8 t^9 v_0 v_3 W_4^2 + 56 t^{10} v_0 v_3 W_4^2 - 176 t^{11} v_0 v_3 W_4^2 + 328 t^{12} v_0 v_3 W_4^2 - 396 t^{13} v_0 v_3 W_4^2 + \\
& 312 t^{14} v_0 v_3 W_4^2 - 152 t^{15} v_0 v_3 W_4^2 + 40 t^{16} v_0 v_3 W_4^2 - 4 t^{17} v_0 v_3 W_4^2 - 4 t^8 \eta v_0 v_3 W_4^2 + 28 t^9 \eta v_0 v_3 W_4^2 - 92 t^{10} \eta v_0 v_3 W_4^2 + \\
& 192 t^{11} \eta v_0 v_3 W_4^2 - 248 t^{12} \eta v_0 v_3 W_4^2 + 176 t^{13} \eta v_0 v_3 W_4^2 - 56 t^{14} \eta v_0 v_3 W_4^2 + 4 t^{15} \eta v_0 v_3 W_4^2 + 2 t^8 \eta^2 v_0 v_3 W_4^2 - \\
& 10 t^9 \eta^2 v_0 v_3 W_4^2 + 46 t^{10} \eta^2 v_0 v_3 W_4^2 - 66 t^{11} \eta^2 v_0 v_3 W_4^2 + 24 t^{12} \eta^2 v_0 v_3 W_4^2 + 4 t^{13} \eta^2 v_0 v_3 W_4^2 + 12 t^9 \eta^3 v_0 v_3 W_4^2 - \\
& 8 t^{10} \eta^3 v_0 v_3 W_4^2 - 4 t^{11} \eta^3 v_0 v_3 W_4^2 - 2 t^4 \eta^4 v_0 v_3 W_4^2 + 2 t^5 \eta^4 v_0 v_3 W_4^2 + 2 t^6 \eta^4 v_0 v_3 W_4^2 - 2 t^7 \eta^4 v_0 v_3 W_4^2 + t^8 v_3^2 W_4^2 - \\
& 4 t^9 v_3^2 W_4^2 + 5 t^{10} v_3^2 W_4^2 - 24 t^{13} v_3^2 W_4^2 + 65 t^{14} v_3^2 W_4^2 - 84 t^{15} v_3^2 W_4^2 + 61 t^{16} v_3^2 W_4^2 - 24 t^{17} v_3^2 W_4^2 + 4 t^{18} v_3^2 W_4^2 + 4 t^{10} \eta v_3^2 W_4^2 - \\
& 16 t^{11} \eta v_3^2 W_4^2 + 16 t^{12} \eta v_3^2 W_4^2 + 16 t^{13} \eta v_3^2 W_4^2 - 44 t^{14} \eta v_3^2 W_4^2 + 32 t^{15} \eta v_3^2 W_4^2 - 8 t^{16} \eta v_3^2 W_4^2 - 6 t^{10} \eta^2 v_3^2 W_4^2 + 12 t^{11} \eta^2 v_3^2 W_4^2 - \\
& 2 t^{12} \eta^2 v_3^2 W_4^2 - 8 t^{13} \eta^2 v_3^2 W_4^2 + 4 t^{14} \eta^2 v_3^2 W_4^2 - t^6 \eta^4 v_3^2 W_4^2 + t^8 \eta^4 v_3^2 W_4^2 - 4 t^7 \eta v_0 v_{x\$1001} W_4^2 + 12 t^8 \eta v_0 v_{x\$1001} W_4^2 - \\
& 56 t^{10} \eta v_0 v_{x\$1001} W_4^2 + 128 t^{11} \eta v_0 v_{x\$1001} W_4^2 - 148 t^{12} \eta v_0 v_{x\$1001} W_4^2 + 96 t^{13} \eta v_0 v_{x\$1001} W_4^2 - 32 t^{14} \eta v_0 v_{x\$1001} W_4^2 + \\
& 4 t^{15} \eta v_0 v_{x\$1001} W_4^2 - 4 t^7 \eta^2 v_0 v_{x\$1001} W_4^2 + 12 t^8 \eta^2 v_0 v_{x\$1001} W_4^2 - 32 t^9 \eta^2 v_0 v_{x\$1001} W_4^2 + 76 t^{10} \eta^2 v_0 v_{x\$1001} W_4^2 - \\
& 88 t^{11} \eta^2 v_0 v_{x\$1001} W_4^2 + 40 t^{12} \eta^2 v_0 v_{x\$1001} W_4^2 - 4 t^{13} \eta^2 v_0 v_{x\$1001} W_4^2 - 2 t^7 \eta^3 v_0 v_{x\$1001} W_4^2 + 22 t^9 \eta^3 v_0 v_{x\$1001} W_4^2 - \\
& 16 t^{10} \eta^3 v_0 v_{x\$1001} W_4^2 - 4 t^{11} \eta^3 v_0 v_{x\$1001} W_4^2 + 8 t^8 \eta^4 v_0 v_{x\$1001} W_4^2 + 4 t^9 \eta^4 v_0 v_{x\$1001} W_4^2 - 2 t^3 \eta^5 v_0 v_{x\$1001} W_4^2 + \\
& 2 t^5 \eta^5 v_0 v_{x\$1001} W_4^2 + 4 t^8 \eta v_3 v_{x\$1001} W_4^2 - 20 t^9 \eta v_3 v_{x\$1001} W_4^2 + 40 t^{10} \eta v_3 v_{x\$1001} W_4^2 - 32 t^{11} \eta v_3 v_{x\$1001} W_4^2 - \\
& 20 t^{12} \eta v_3 v_{x\$1001} W_4^2 + 76 t^{13} \eta v_3 v_{x\$1001} W_4^2 - 80 t^{14} \eta v_3 v_{x\$1001} W_4^2 + 40 t^{15} \eta v_3 v_{x\$1001} W_4^2 - 8 t^{16} \eta v_3 v_{x\$1001} W_4^2 + \\
& 8 t^9 \eta^2 v_3 v_{x\$1001} W_4^2 - 24 t^{10} \eta^2 v_3 v_{x\$1001} W_4^2 + 8 t^{11} \eta^2 v_3 v_{x\$1001} W_4^2 + 40 t^{12} \eta^2 v_3 v_{x\$1001} W_4^2 - 48 t^{13} \eta^2 v_3 v_{x\$1001} W_4^2 + \\
& 16 t^{14} \eta^2 v_3 v_{x\$1001} W_4^2 - 10 t^9 \eta^3 v_3 v_{x\$1001} W_4^2 + 10 t^{10} \eta^3 v_3 v_{x\$1001} W_4^2 + 8 t^{11} \eta^3 v_3 v_{x\$1001} W_4^2 - 8 t^{12} \eta^3 v_3 v_{x\$1001} W_4^2 - \\
& 2 t^5 \eta^5 v_3 v_{x\$1001} W_4^2 - 2 t^6 \eta^5 v_3 v_{x\$1001} W_4^2 + 2 t^7 \eta^2 v_{x\$1001}^2 W_4^2 - 8 t^8 \eta^2 v_{x\$1001}^2 W_4^2 + 12 t^9 \eta^2 v_{x\$1001}^2 W_4^2 - 4 t^{10} \eta^2 v_{x\$1001}^2 W_4^2 - \\
& 14 t^{11} \eta^2 v_{x\$1001}^2 W_4^2 + 24 t^{12} \eta^2 v_{x\$1001}^2 W_4^2 - 16 t^{13} \eta^2 v_{x\$1001}^2 W_4^2 + 4 t^{14} \eta^2 v_{x\$1001}^2 W_4^2 + 2 t^7 \eta^3 v_{x\$1001}^2 W_4^2 - 4 t^9 \eta^3 v_{x\$1001}^2 W_4^2 - \\
& 6 t^{10} \eta^3 v_{x\$1001}^2 W_4^2 + 16 t^{11} \eta^3 v_{x\$1001}^2 W_4^2 - 8 t^{12} \eta^3 v_{x\$1001}^2 W_4^2 + t^2 \eta^4 v_{x\$1001}^2 W_4^2 - 2 t^3 \eta^4 v_{x\$1001}^2 W_4^2 + 2 t^4 \eta^4 v_{x\$1001}^2 W_4^2 - \\
& 2 t^6 \eta^4 v_{x\$1001}^2 W_4^2 + 2 t^7 \eta^4 v_{x\$1001}^2 W_4^2 - 4 t^8 \eta^4 v_{x\$1001}^2 W_4^2 + 4 t^{10} \eta^4 v_{x\$1001}^2 W_4^2 + 2 t^3 \eta^5 v_{x\$1001}^2 W_4^2 + 2 t^6 \eta^5 v_{x\$1001}^2 W_4^2 + \\
& 4 t^6 \eta v_0 W_{x\$1001} - 28 t^7 \eta v_0 W_{x\$1001} + 96 t^8 \eta v_0 W_{x\$1001} - 212 t^9 \eta v_0 W_{x\$1001} + 332 t^{10} \eta v_0 W_{x\$1001} - 384 t^{11} \eta v_0 W_{x\$1001} + \\
& 332 t^{12} \eta v_0 W_{x\$1001} - 212 t^{13} \eta v_0 W_{x\$1001} + 96 t^{14} \eta v_0 W_{x\$1001} - 28 t^{15} \eta v_0 W_{x\$1001} + 4 t^{16} \eta v_0 W_{x\$1001} + 4 t^4 \eta^2 v_0 W_{x\$1001} -
\end{aligned}$$

»

$$\begin{aligned}
& 20 t^5 \eta^2 V_0 W_{x\$1001} + 64 t^6 \eta^2 V_0 W_{x\$1001} - 148 t^7 \eta^2 V_0 W_{x\$1001} + 236 t^8 \eta^2 V_0 W_{x\$1001} - 256 t^9 \eta^2 V_0 W_{x\$1001} + 180 t^{10} \eta^2 V_0 W_{x\$1001} - \\
& 68 t^{11} \eta^2 V_0 W_{x\$1001} + 12 t^{13} \eta^2 V_0 W_{x\$1001} - 4 t^{14} \eta^2 V_0 W_{x\$1001} + 28 t^5 \eta^3 V_0 W_{x\$1001} - 116 t^6 \eta^3 V_0 W_{x\$1001} + 248 t^7 \eta^3 V_0 W_{x\$1001} - \\
& 340 t^8 \eta^3 V_0 W_{x\$1001} + 300 t^9 \eta^3 V_0 W_{x\$1001} - 168 t^{10} \eta^3 V_0 W_{x\$1001} + 56 t^{11} \eta^3 V_0 W_{x\$1001} - 8 t^{12} \eta^3 V_0 W_{x\$1001} + 24 t^6 \eta^4 V_0 W_{x\$1001} - \\
& 56 t^7 \eta^4 V_0 W_{x\$1001} + 56 t^8 \eta^4 V_0 W_{x\$1001} - 32 t^9 \eta^4 V_0 W_{x\$1001} + 8 t^{10} \eta^4 V_0 W_{x\$1001} + 4 t^5 \eta^5 V_0 W_{x\$1001} - 12 t^7 \eta^5 V_0 W_{x\$1001} + \\
& 16 t^3 \eta^5 V_0 W_{x\$1001} - 8 t^4 \eta^5 V_0 W_{x\$1001} - 8 t^5 \eta^5 V_0 W_{x\$1001} + 16 t^6 \eta^5 V_0 W_{x\$1001} - 12 t^7 \eta^5 V_0 W_{x\$1001} + 4 t^8 \eta^5 V_0 W_{x\$1001} + \\
& 4 t^2 \eta^6 V_0 W_{x\$1001} - 4 t^3 \eta^6 V_0 W_{x\$1001} + 4 t^5 \eta^6 V_0 W_{x\$1001} - 4 t^6 \eta^6 V_0 W_{x\$1001} + 8 t^6 \eta C_0 V_0 W_{x\$1001} - 48 t^7 \eta C_0 V_0 W_{x\$1001} + \\
& 136 t^8 \eta C_0 V_0 W_{x\$1001} - 240 t^9 \eta C_0 V_0 W_{x\$1001} + 288 t^{10} \eta C_0 V_0 W_{x\$1001} - 240 t^{11} \eta C_0 V_0 W_{x\$1001} + 136 t^{12} \eta C_0 V_0 W_{x\$1001} - \\
& 48 t^{13} \eta C_0 V_0 W_{x\$1001} + 8 t^{14} \eta C_0 V_0 W_{x\$1001} + 16 t^7 \eta^2 C_0 V_0 W_{x\$1001} - 64 t^8 \eta^2 C_0 V_0 W_{x\$1001} + 112 t^9 \eta^2 C_0 V_0 W_{x\$1001} - \\
& 112 t^{10} \eta^2 C_0 V_0 W_{x\$1001} + 64 t^{11} \eta^2 C_0 V_0 W_{x\$1001} - 16 t^{12} \eta^2 C_0 V_0 W_{x\$1001} + 8 t^8 \eta^3 C_0 V_0 W_{x\$1001} - 16 t^9 \eta^3 C_0 V_0 W_{x\$1001} + \\
& 8 t^{10} \eta^3 C_0 V_0 W_{x\$1001} - 4 t^7 \eta^2 C_3 V_0 W_{x\$1001} + 20 t^8 \eta^2 C_3 V_0 W_{x\$1001} - 48 t^9 \eta^2 C_3 V_0 W_{x\$1001} + 72 t^{10} \eta^2 C_3 V_0 W_{x\$1001} - \\
& 72 t^{11} \eta^2 C_3 V_0 W_{x\$1001} + 48 t^{12} \eta^2 C_3 V_0 W_{x\$1001} - 20 t^{13} \eta^2 C_3 V_0 W_{x\$1001} + 4 t^{14} \eta^2 C_3 V_0 W_{x\$1001} - 8 t^8 \eta^3 C_3 V_0 W_{x\$1001} + \\
& 24 t^9 \eta^3 C_3 V_0 W_{x\$1001} - 32 t^{10} \eta^3 C_3 V_0 W_{x\$1001} + 24 t^{11} \eta^3 C_3 V_0 W_{x\$1001} - 8 t^{12} \eta^3 C_3 V_0 W_{x\$1001} - 4 t^9 \eta^4 C_3 V_0 W_{x\$1001} + \\
& 4 t^{10} \eta^4 C_3 V_0 W_{x\$1001} - 4 t^6 \eta C_4 V_0 W_{x\$1001} + 20 t^7 \eta C_4 V_0 W_{x\$1001} - 56 t^8 \eta C_4 V_0 W_{x\$1001} + 116 t^9 \eta C_4 V_0 W_{x\$1001} - \\
& 188 t^{10} \eta C_4 V_0 W_{x\$1001} + 240 t^{11} \eta C_4 V_0 W_{x\$1001} - 236 t^{12} \eta C_4 V_0 W_{x\$1001} + 172 t^{13} \eta C_4 V_0 W_{x\$1001} - 88 t^{14} \eta C_4 V_0 W_{x\$1001} + \\
& 28 t^{15} \eta C_4 V_0 W_{x\$1001} - 4 t^{16} \eta C_4 V_0 W_{x\$1001} - 20 t^7 \eta^2 C_4 V_0 W_{x\$1001} + 76 t^8 \eta^2 C_4 V_0 W_{x\$1001} - 160 t^9 \eta^2 C_4 V_0 W_{x\$1001} + \\
& 232 t^{10} \eta^2 C_4 V_0 W_{x\$1001} - 232 t^{11} \eta^2 C_4 V_0 W_{x\$1001} + 160 t^{12} \eta^2 C_4 V_0 W_{x\$1001} - 68 t^{13} \eta^2 C_4 V_0 W_{x\$1001} + 12 t^{14} \eta^2 C_4 V_0 W_{x\$1001} - \\
& 28 t^8 \eta^3 C_4 V_0 W_{x\$1001} + 60 t^9 \eta^3 C_4 V_0 W_{x\$1001} - 72 t^{10} \eta^3 C_4 V_0 W_{x\$1001} + 52 t^{11} \eta^3 C_4 V_0 W_{x\$1001} - 12 t^{12} \eta^3 C_4 V_0 W_{x\$1001} - \\
& 12 t^9 \eta^4 C_4 V_0 W_{x\$1001} + 4 t^{10} \eta^4 C_4 V_0 W_{x\$1001} + 4 \eta^4 C_{x\$1001} V_0 W_{x\$1001} - 20 t \eta^4 C_{x\$1001} V_0 W_{x\$1001} + 48 t^2 \eta^4 C_{x\$1001} V_0 W_{x\$1001} - \\
& 68 t^3 \eta^4 C_{x\$1001} V_0 W_{x\$1001} + 52 t^4 \eta^4 C_{x\$1001} V_0 W_{x\$1001} - 52 t^6 \eta^4 C_{x\$1001} V_0 W_{x\$1001} + 68 t^7 \eta^4 C_{x\$1001} V_0 W_{x\$1001} - \\
& 48 t^8 \eta^4 C_{x\$1001} V_0 W_{x\$1001} + 20 t^9 \eta^4 C_{x\$1001} V_0 W_{x\$1001} - 4 t^{10} \eta^4 C_{x\$1001} V_0 W_{x\$1001} + 8 t^5 \eta^5 C_{x\$1001} V_0 W_{x\$1001} - \\
& 24 t^2 \eta^5 C_{x\$1001} V_0 W_{x\$1001} + 32 t^3 \eta^5 C_{x\$1001} V_0 W_{x\$1001} - 16 t^4 \eta^5 C_{x\$1001} V_0 W_{x\$1001} - 16 t^5 \eta^5 C_{x\$1001} V_0 W_{x\$1001} + \\
& 32 t^6 \eta^5 C_{x\$1001} V_0 W_{x\$1001} - 24 t^7 \eta^5 C_{x\$1001} V_0 W_{x\$1001} + 8 t^8 \eta^5 C_{x\$1001} V_0 W_{x\$1001} + 4 t^2 \eta^6 C_{x\$1001} V_0 W_{x\$1001} - 4 t^3 \eta^6 C_{x\$1001} V_0 W_{x\$1001} + \\
& 4 t^5 \eta^6 C_{x\$1001} V_0 W_{x\$1001} - 4 t^6 \eta^6 C_{x\$1001} V_0 W_{x\$1001} + 4 t^8 \eta V_3 W_{x\$1001} - 24 t^9 \eta V_3 W_{x\$1001} + 72 t^{10} \eta V_3 W_{x\$1001} - \\
& 140 t^{11} \eta V_3 W_{x\$1001} + 192 t^{12} \eta V_3 W_{x\$1001} - 192 t^{13} \eta V_3 W_{x\$1001} + 140 t^{14} \eta V_3 W_{x\$1001} - 72 t^{15} \eta V_3 W_{x\$1001} + 24 t^{16} \eta V_3 W_{x\$1001} - \\
& 4 t^{17} \eta V_3 W_{x\$1001} - 12 t^6 \eta^2 V_3 W_{x\$1001} + 64 t^7 \eta^2 V_3 W_{x\$1001} - 152 t^8 \eta^2 V_3 W_{x\$1001} + 220 t^9 \eta^2 V_3 W_{x\$1001} - 216 t^{10} \eta^2 V_3 W_{x\$1001} + \\
& 152 t^{11} \eta^2 V_3 W_{x\$1001} - 84 t^{12} \eta^2 V_3 W_{x\$1001} + 40 t^{13} \eta^2 V_3 W_{x\$1001} - 16 t^{14} \eta^2 V_3 W_{x\$1001} + 4 t^{15} \eta^2 V_3 W_{x\$1001} - 4 t^7 \eta^3 V_3 W_{x\$1001} + \\
& 8 t^8 \eta^3 V_3 W_{x\$1001} + 16 t^9 \eta^3 V_3 W_{x\$1001} - 52 t^{10} \eta^3 V_3 W_{x\$1001} + 56 t^{11} \eta^3 V_3 W_{x\$1001} - 32 t^{12} \eta^3 V_3 W_{x\$1001} + 8 t^{13} \eta^3 V_3 W_{x\$1001} + \\
& 8 t^8 \eta^4 V_3 W_{x\$1001} - 16 t^9 \eta^4 V_3 W_{x\$1001} + 16 t^{10} \eta^4 V_3 W_{x\$1001} - 8 t^{11} \eta^4 V_3 W_{x\$1001} + 4 t^3 \eta^5 V_3 W_{x\$1001} - 8 t^4 \eta^5 V_3 W_{x\$1001} + \\
& 8 t^5 \eta^5 V_3 W_{x\$1001} - 8 t^7 \eta^5 V_3 W_{x\$1001} + 8 t^8 \eta^5 V_3 W_{x\$1001} - 4 t^9 \eta^5 V_3 W_{x\$1001} + 4 t^4 \eta^6 V_3 W_{x\$1001} + 4 t^7 \eta^6 V_3 W_{x\$1001} + \\
& 8 t^8 \eta C_0 V_3 W_{x\$1001} - 40 t^9 \eta C_0 V_3 W_{x\$1001} + 96 t^{10} \eta C_0 V_3 W_{x\$1001} - 144 t^{11} \eta C_0 V_3 W_{x\$1001} + 144 t^{12} \eta C_0 V_3 W_{x\$1001} - \\
& 96 t^{13} \eta C_0 V_3 W_{x\$1001} + 40 t^{14} \eta C_0 V_3 W_{x\$1001} - 8 t^{15} \eta C_0 V_3 W_{x\$1001} + 16 t^9 \eta^2 C_0 V_3 W_{x\$1001} - 48 t^{10} \eta^2 C_0 V_3 W_{x\$1001} + \\
& 64 t^{11} \eta^2 C_0 V_3 W_{x\$1001} - 48 t^{12} \eta^2 C_0 V_3 W_{x\$1001} + 16 t^{13} \eta^2 C_0 V_3 W_{x\$1001} + 8 t^{10} \eta^3 C_0 V_3 W_{x\$1001} - 8 t^{11} \eta^3 C_0 V_3 W_{x\$1001} + \\
& 8 t^8 \eta C_3 V_3 W_{x\$1001} - 48 t^9 \eta C_3 V_3 W_{x\$1001} + 144 t^{10} \eta C_3 V_3 W_{x\$1001} - 280 t^{11} \eta C_3 V_3 W_{x\$1001} + 384 t^{12} \eta C_3 V_3 W_{x\$1001} - \\
& 384 t^{13} \eta C_3 V_3 W_{x\$1001} + 280 t^{14} \eta C_3 V_3 W_{x\$1001} - 144 t^{15} \eta C_3 V_3 W_{x\$1001} + 48 t^{16} \eta C_3 V_3 W_{x\$1001} - 8 t^{17} \eta C_3 V_3 W_{x\$1001} + \\
& 20 t^9 \eta^2 C_3 V_3 W_{x\$1001} - 80 t^{10} \eta^2 C_3 V_3 W_{x\$1001} + 160 t^{11} \eta^2 C_3 V_3 W_{x\$1001} - 200 t^{12} \eta^2 C_3 V_3 W_{x\$1001} + 160 t^{13} \eta^2 C_3 V_3 W_{x\$1001} - \\
& 80 t^{14} \eta^2 C_3 V_3 W_{x\$1001} + 20 t^{15} \eta^2 C_3 V_3 W_{x\$1001} + 16 t^{10} \eta^3 C_3 V_3 W_{x\$1001} - 32 t^{11} \eta^3 C_3 V_3 W_{x\$1001} + 32 t^{12} \eta^3 C_3 V_3 W_{x\$1001} - \\
& 16 t^{13} \eta^3 C_3 V_3 W_{x\$1001} + 4 t^{11} \eta^4 C_3 V_3 W_{x\$1001} + 4 t^8 \eta C_4 V_3 W_{x\$1001} - 24 t^9 \eta C_4 V_3 W_{x\$1001} + 64 t^{10} \eta C_4 V_3 W_{x\$1001} - \\
& 100 t^{11} \eta C_4 V_3 W_{x\$1001} + 96 t^{12} \eta C_4 V_3 W_{x\$1001} - 48 t^{13} \eta C_4 V_3 W_{x\$1001} - 4 t^{14} \eta C_4 V_3 W_{x\$1001} + 24 t^{15} \eta C_4 V_3 W_{x\$1001} - \\
& 16 t^{16} \eta C_4 V_3 W_{x\$1001} + 4 t^{17} \eta C_4 V_3 W_{x\$1001} + 4 t^9 \eta^2 C_4 V_3 W_{x\$1001} - 16 t^{10} \eta^2 C_4 V_3 W_{x\$1001} + 16 t^{11} \eta^2 C_4 V_3 W_{x\$1001} + \\
& 8 t^{12} \eta^2 C_4 V_3 W_{x\$1001} - 32 t^{13} \eta^2 C_4 V_3 W_{x\$1001} + 32 t^{14} \eta^2 C_4 V_3 W_{x\$1001} - 12 t^{15} \eta^2 C_4 V_3 W_{x\$1001} - 4 t^{10} \eta^3 C_4 V_3 W_{x\$1001} + \\
& 8 t^{11} \eta^3 C_4 V_3 W_{x\$1001} - 16 t^{12} \eta^3 C_4 V_3 W_{x\$1001} + 12 t^{13} \eta^3 C_4 V_3 W_{x\$1001} - 4 t^{11} \eta^4 C_4 V_3 W_{x\$1001} + 4 t^2 \eta^4 C_{x\$1001} V_3 W_{x\$1001} - \\
& 16 t^3 \eta^4 C_{x\$1001} V_3 W_{x\$1001} + 32 t^4 \eta^4 C_{x\$1001} V_3 W_{x\$1001} - 36 t^5 \eta^4 C_{x\$1001} V_3 W_{x\$1001} + 16 t^6 \eta^4 C_{x\$1001} V_3 W_{x\$1001} + \\
& 16 t^7 \eta^4 C_{x\$1001} V_3 W_{x\$1001} - 36 t^8 \eta^4 C_{x\$1001} V_3 W_{x\$1001} + 32 t^9 \eta^4 C_{x\$1001} V_3 W_{x\$1001} - 16 t^{10} \eta^4 C_{x\$1001} V_3 W_{x\$1001} + \\
& 4 t^{11} \eta^4 C_{x\$1001} V_3 W_{x\$1001} + 8 t^3 \eta^5 C_{x\$1001} V_3 W_{x\$1001} - 16 t^4 \eta^5 C_{x\$1001} V_3 W_{x\$1001} + 16 t^5 \eta^5 C_{x\$1001} V_3 W_{x\$1001} - \\
& 16 t^7 \eta^5 C_{x\$1001} V_3 W_{x\$1001} + 16 t^8 \eta^5 C_{x\$1001} V_3 W_{x\$1001} - 8 t^9 \eta^5 C_{x\$1001} V_3 W_{x\$1001} + 4 t^4 \eta^6 C_{x\$1001} V_3 W_{x\$1001} + 4 t^7 \eta^6 C_{x\$1001} V_3 W_{x\$1001} + \\
& 4 t^7 \eta^2 V_{x\$1001} W_{x\$1001} - 20 t^8 \eta^2 V_{x\$1001} W_{x\$1001} + 52 t^9 \eta^2 V_{x\$1001} W_{x\$1001} - 88 t^{10} \eta^2 V_{x\$1001} W_{x\$1001} + 104 t^{11} \eta^2 V_{x\$1001} W_{x\$1001} - \\
& 88 t^{12} \eta^2 V_{x\$1001} W_{x\$1001} + 52 t^{13} \eta^2 V_{x\$1001} W_{x\$1001} - 20 t^{14} \eta^2 V_{x\$1001} W_{x\$1001} + 4 t^{15} \eta^2 V_{x\$1001} W_{x\$1001} - 20 t^5 \eta^3 V_{x\$1001} W_{x\$1001} + \\
& 92 t^6 \eta^3 V_{x\$1001} W_{x\$1001} - 204 t^7 \eta^3 V_{x\$1001} W_{x\$1001} + 296 t^8 \eta^3 V_{x\$1001} W_{x\$1001} - 304 t^9 \eta^3 V_{x\$1001} W_{x\$1001} + 232 t^{10} \eta^3 V_{x\$1001} W_{x\$1001} - \\
& 132 t^{11} \eta^3 V_{x\$1001} W_{x\$1001} + 52 t^{12} \eta^3 V_{x\$1001} W_{x\$1001} - 12 t^{13} \eta^3 V_{x\$1001} W_{x\$1001} - 4 \eta^4 V_{x\$1001} W_{x\$1001} + 20 t \eta^4 V_{x\$1001} W_{x\$1001} - \\
& 52 t^2 \eta^4 V_{x\$1001} W_{x\$1001} + 84 t^3 \eta^4 V_{x\$1001} W_{x\$1001} - 84 t^4 \eta^4 V_{x\$1001} W_{x\$1001} + 36 t^5 \eta^4 V_{x\$1001} W_{x\$1001} + 16 t^6 \eta^4 V_{x\$1001} W_{x\$1001} - \\
& 32 t^7 \eta^4 V_{x\$1001} W_{x\$1001} + 24 t^8 \eta^4 V_{x\$1001} W_{x\$1001} - 4 t^9 \eta^4 V_{x\$1001} W_{x\$1001} - 4 t^{10} \eta^4 V_{x\$1001} W_{x\$1001} + 4 t^{11} \eta^4 V_{x\$1001} W_{x\$1001} - \\
& 12 t \eta^5 V_{x\$1001} W_{x\$1001} + 36 t^2 \eta^5 V_{x\$1001} W_{x\$1001} - 60 t^3 \eta^5 V_{x\$1001} W_{x\$1001} + 48 t^4 \eta^5 V_{x\$1001} W_{x\$1001} - 48 t^6 \eta^5 V_{x\$1001} W_{x\$1001} + \\
& 60 t^7 \eta^5 V_{x\$1001} W_{x\$1001} - 36 t^8 \eta^5 V_{x\$1001} W_{x\$1001} + 12 t^9 \eta^5 V_{x\$1001} W_{x\$1001} - 8 t^2 \eta^6 V_{x\$1001} W_{x\$1001} + 8 t^3 \eta^6 V_{x\$1001} W_{x\$1001} - \\
& 8 t^4 \eta^6 V_{x\$1001} W_{x\$1001} - 8 t^5 \eta^6 V_{x\$1001} W_{x\$1001} + 8 t^6 \eta^6 V_{x\$1001} W_{x\$1001} - 8 t^7 \eta^6 V_{x\$1001} W_{x\$1001} + 8 t^7 \eta^2 C_0 V_{x\$1001} W_{x\$1001} - \\
& 32 t^8 \eta^2 C_0 V_{x\$1001} W_{x\$1001} + 64 t^9 \eta^2 C_0 V_{x\$1001} W_{x\$1001} - 80 t^{10} \eta^2 C_0 V_{x\$1001} W_{x\$1001} + 64 t^{11} \eta^2 C_0 V_{x\$1001} W_{x\$1001} - \\
& 32 t^{12} \eta^2 C_0 V_{x\$1001} W_{x\$1001} + 8 t^{13} \eta^2 C_0 V_{x\$1001} W_{x\$1001} + 16 t^8 \eta^3 C_0 V_{x\$1001} W_{x\$1001} - 32 t^9 \eta^3 C_0 V_{x\$1001} W_{x\$1001} + \\
& 32 t^{10} \eta^3 C_0 V_{x\$1001} W_{x\$1001} - 16 t^{11} \eta^3 C_0 V_{x\$1001} W_{x\$1001} + 8 t^9 \eta^4 C_0 V_{x\$1001} W_{x\$1001} + 4 t^7 \eta^2 C_3 V_{x\$1001} W_{x\$1001} - \\
& 20 t^8 \eta^2 C_3 V_{x\$1001} W_{x\$1001} + 52 t^9 \eta^2 C_3 V_{x\$1001} W_{x\$1001} - 88 t^{10} \eta^2 C_3 V_{x\$1001} W_{x\$1001} + 104 t^{11} \eta^2 C_3 V_{x\$1001} W_{x\$1001} - \\
& 88 t^{12} \eta^2 C_3 V_{x\$1001} W_{x\$1001} + 52 t^{13} \eta^2 C_3 V_{x\$1001} W_{x\$1001} - 20 t^{14} \eta^2 C_3 V_{x\$1001} W_{x\$1001} + 4 t^{15} \eta^2 C_3 V_{x\$1001} W_{x\$1001} +
\end{aligned}$$

»

$$\begin{aligned}
 & 8 t^8 \eta^3 C_3 V_{x\$1001} W_{x\$1001} - 24 t^9 \eta^3 C_3 V_{x\$1001} W_{x\$1001} + 40 t^{10} \eta^3 C_3 V_{x\$1001} W_{x\$1001} - 40 t^{11} \eta^3 C_3 V_{x\$1001} W_{x\$1001} + \\
 & 24 t^{12} \eta^3 C_3 V_{x\$1001} W_{x\$1001} - 8 t^{13} \eta^3 C_3 V_{x\$1001} W_{x\$1001} + 4 t^9 \eta^4 C_3 V_{x\$1001} W_{x\$1001} - 4 t^{10} \eta^4 C_3 V_{x\$1001} W_{x\$1001} + \\
 & 4 t^{11} \eta^4 C_3 V_{x\$1001} W_{x\$1001} + 8 t^7 \eta^2 C_4 V_{x\$1001} W_{x\$1001} - 40 t^8 \eta^2 C_4 V_{x\$1001} W_{x\$1001} + 96 t^9 \eta^2 C_4 V_{x\$1001} W_{x\$1001} - \\
 & 144 t^{10} \eta^2 C_4 V_{x\$1001} W_{x\$1001} + 144 t^{11} \eta^2 C_4 V_{x\$1001} W_{x\$1001} - 96 t^{12} \eta^2 C_4 V_{x\$1001} W_{x\$1001} + 40 t^{13} \eta^2 C_4 V_{x\$1001} W_{x\$1001} - \\
 & 8 t^{14} \eta^2 C_4 V_{x\$1001} W_{x\$1001} + 16 t^8 \eta^3 C_4 V_{x\$1001} W_{x\$1001} - 48 t^9 \eta^3 C_4 V_{x\$1001} W_{x\$1001} + 64 t^{10} \eta^3 C_4 V_{x\$1001} W_{x\$1001} - \\
 & 48 t^{11} \eta^3 C_4 V_{x\$1001} W_{x\$1001} + 16 t^{12} \eta^3 C_4 V_{x\$1001} W_{x\$1001} + 8 t^9 \eta^4 C_4 V_{x\$1001} W_{x\$1001} - 8 t^{10} \eta^4 C_4 V_{x\$1001} W_{x\$1001} - \\
 & 4 \eta^4 C_{x\$1001} V_{x\$1001} W_{x\$1001} + 20 t \eta^4 C_{x\$1001} V_{x\$1001} W_{x\$1001} - 52 t^2 \eta^4 C_{x\$1001} V_{x\$1001} W_{x\$1001} + 84 t^3 \eta^4 C_{x\$1001} V_{x\$1001} W_{x\$1001} - \\
 & 84 t^4 \eta^4 C_{x\$1001} V_{x\$1001} W_{x\$1001} + 36 t^5 \eta^4 C_{x\$1001} V_{x\$1001} W_{x\$1001} + 36 t^6 \eta^4 C_{x\$1001} V_{x\$1001} W_{x\$1001} - 84 t^7 \eta^4 C_{x\$1001} V_{x\$1001} W_{x\$1001} + \\
 & 84 t^8 \eta^4 C_{x\$1001} V_{x\$1001} W_{x\$1001} - 52 t^9 \eta^4 C_{x\$1001} V_{x\$1001} W_{x\$1001} + 20 t^{10} \eta^4 C_{x\$1001} V_{x\$1001} W_{x\$1001} - 4 t^{11} \eta^4 C_{x\$1001} V_{x\$1001} W_{x\$1001} - \\
 & 8 t \eta^5 C_{x\$1001} V_{x\$1001} W_{x\$1001} + 24 t^2 \eta^5 C_{x\$1001} V_{x\$1001} W_{x\$1001} - 40 t^3 \eta^5 C_{x\$1001} V_{x\$1001} W_{x\$1001} + 32 t^4 \eta^5 C_{x\$1001} V_{x\$1001} W_{x\$1001} - \\
 & 32 t^5 \eta^5 C_{x\$1001} V_{x\$1001} W_{x\$1001} + 40 t^6 \eta^5 C_{x\$1001} V_{x\$1001} W_{x\$1001} - 24 t^7 \eta^5 C_{x\$1001} V_{x\$1001} W_{x\$1001} + 8 t^9 \eta^5 C_{x\$1001} V_{x\$1001} W_{x\$1001} - \\
 & 4 t^2 \eta^6 C_{x\$1001} V_{x\$1001} W_{x\$1001} + 4 t^3 \eta^6 C_{x\$1001} V_{x\$1001} W_{x\$1001} - 4 t^4 \eta^6 C_{x\$1001} V_{x\$1001} W_{x\$1001} - 4 t^5 \eta^6 C_{x\$1001} V_{x\$1001} W_{x\$1001} + \\
 & 4 t^6 \eta^6 C_{x\$1001} V_{x\$1001} W_{x\$1001} - 4 t^7 \eta^6 C_{x\$1001} V_{x\$1001} W_{x\$1001} - 4 t^6 \eta^2 v_0^2 W_0 W_{x\$1001} + 24 t^7 \eta^2 v_0^2 W_0 W_{x\$1001} - 64 t^8 \eta^2 v_0^2 W_0 W_{x\$1001} + \\
 & 104 t^9 \eta^2 v_0^2 W_0 W_{x\$1001} - 116 t^{10} \eta^2 v_0^2 W_0 W_{x\$1001} + 88 t^{11} \eta^2 v_0^2 W_0 W_{x\$1001} - 40 t^{12} \eta^2 v_0^2 W_0 W_{x\$1001} + 8 t^{13} \eta^2 v_0^2 W_0 W_{x\$1001} + \\
 & 8 t^6 \eta^2 v_0^2 W_0 W_{x\$1001} - 36 t^7 \eta^2 v_0^2 W_0 W_{x\$1001} + 84 t^8 \eta^2 v_0^2 W_0 W_{x\$1001} - 120 t^9 \eta^2 v_0^2 W_0 W_{x\$1001} + 96 t^{10} \eta^2 v_0^2 W_0 W_{x\$1001} - \\
 & 36 t^{11} \eta^2 v_0^2 W_0 W_{x\$1001} + 4 t^{12} \eta^2 v_0^2 W_0 W_{x\$1001} + 18 t^7 \eta^3 v_0^2 W_0 W_{x\$1001} - 42 t^8 \eta^3 v_0^2 W_0 W_{x\$1001} + 30 t^9 \eta^3 v_0^2 W_0 W_{x\$1001} - \\
 & 6 t^{10} \eta^3 v_0^2 W_0 W_{x\$1001} + 2 t^3 \eta^5 v_0^2 W_0 W_{x\$1001} - 2 t^4 \eta^5 v_0^2 W_0 W_{x\$1001} - 2 t^5 \eta^5 v_0^2 W_0 W_{x\$1001} + 2 t^6 \eta^5 v_0^2 W_0 W_{x\$1001} - \\
 & 8 t^8 \eta^2 v_0 v_3 W_0 W_{x\$1001} + 32 t^9 \eta^2 v_0 v_3 W_0 W_{x\$1001} - 56 t^{10} \eta^2 v_0 v_3 W_0 W_{x\$1001} + 64 t^{11} \eta^2 v_0 v_3 W_0 W_{x\$1001} - 56 t^{12} \eta^2 v_0 v_3 W_0 W_{x\$1001} + \\
 & 32 t^{13} \eta^2 v_0 v_3 W_0 W_{x\$1001} - 8 t^{14} \eta^2 v_0 v_3 W_0 W_{x\$1001} - 8 t^9 \eta^2 v_0 v_3 W_0 W_{x\$1001} + 40 t^{10} \eta^2 v_0 v_3 W_0 W_{x\$1001} - 64 t^{11} \eta^2 v_0 v_3 W_0 W_{x\$1001} + \\
 & 40 t^{12} \eta^2 v_0 v_3 W_0 W_{x\$1001} - 8 t^{13} \eta^2 v_0 v_3 W_0 W_{x\$1001} + 20 t^9 \eta^3 v_0 v_3 W_0 W_{x\$1001} - 32 t^{10} \eta^3 v_0 v_3 W_0 W_{x\$1001} + 12 t^{11} \eta^3 v_0 v_3 W_0 W_{x\$1001} + \\
 & 4 t^5 \eta^5 v_0 v_3 W_0 W_{x\$1001} - 4 t^7 \eta^5 v_0 v_3 W_0 W_{x\$1001} - 4 t^9 \eta^5 v_0 v_3 W_0 W_{x\$1001} + 20 t^{10} \eta^5 v_0 v_3 W_0 W_{x\$1001} - 56 t^{11} \eta^5 v_0 v_3 W_0 W_{x\$1001} + \\
 & 100 t^{12} \eta^5 v_0 v_3 W_0 W_{x\$1001} - 112 t^{13} \eta^5 v_0 v_3 W_0 W_{x\$1001} + 80 t^{14} \eta^5 v_0 v_3 W_0 W_{x\$1001} - 36 t^{15} \eta^5 v_0 v_3 W_0 W_{x\$1001} + 8 t^{16} \eta^5 v_0 v_3 W_0 W_{x\$1001} - \\
 & 16 t^{10} \eta^2 v_3^2 W_0 W_{x\$1001} + 44 t^{11} \eta^2 v_3^2 W_0 W_{x\$1001} - 52 t^{12} \eta^2 v_3^2 W_0 W_{x\$1001} + 36 t^{13} \eta^2 v_3^2 W_0 W_{x\$1001} - 12 t^{14} \eta^2 v_3^2 W_0 W_{x\$1001} - \\
 & 2 t^{11} \eta^3 v_3^2 W_0 W_{x\$1001} + 2 t^{12} \eta^3 v_3^2 W_0 W_{x\$1001} + 2 t^7 \eta^5 v_3^2 W_0 W_{x\$1001} + 2 t^8 \eta^5 v_3^2 W_0 W_{x\$1001} - 8 t^7 \eta^2 v_0 V_{x\$1001} W_0 W_{x\$1001} + \\
 & 24 t^8 \eta^2 v_0 V_{x\$1001} W_0 W_{x\$1001} - 32 t^9 \eta^2 v_0 V_{x\$1001} W_0 W_{x\$1001} + 32 t^{10} \eta^2 v_0 V_{x\$1001} W_0 W_{x\$1001} - 24 t^{11} \eta^2 v_0 V_{x\$1001} W_0 W_{x\$1001} + \\
 & 8 t^{12} \eta^2 v_0 V_{x\$1001} W_0 W_{x\$1001} - 8 t^7 \eta^3 v_0 V_{x\$1001} W_0 W_{x\$1001} + 16 t^8 \eta^3 v_0 V_{x\$1001} W_0 W_{x\$1001} - 8 t^{10} \eta^3 v_0 V_{x\$1001} W_0 W_{x\$1001} - \\
 & 4 t^2 \eta^4 v_0 V_{x\$1001} W_0 W_{x\$1001} + 12 t^3 \eta^4 v_0 V_{x\$1001} W_0 W_{x\$1001} - 16 t^4 \eta^4 v_0 V_{x\$1001} W_0 W_{x\$1001} + 8 t^5 \eta^4 v_0 V_{x\$1001} W_0 W_{x\$1001} + \\
 & 8 t^6 \eta^4 v_0 V_{x\$1001} W_0 W_{x\$1001} - 16 t^7 \eta^4 v_0 V_{x\$1001} W_0 W_{x\$1001} + 24 t^8 \eta^4 v_0 V_{x\$1001} W_0 W_{x\$1001} - 8 t^9 \eta^4 v_0 V_{x\$1001} W_0 W_{x\$1001} - \\
 & 8 t^3 \eta^5 v_0 V_{x\$1001} W_0 W_{x\$1001} + 8 t^4 \eta^5 v_0 V_{x\$1001} W_0 W_{x\$1001} - 8 t^6 \eta^5 v_0 V_{x\$1001} W_0 W_{x\$1001} + 8 t^7 \eta^5 v_0 V_{x\$1001} W_0 W_{x\$1001} + \\
 & 4 t^8 \eta^2 v_3 V_{x\$1001} W_0 W_{x\$1001} - 16 t^9 \eta^2 v_3 V_{x\$1001} W_0 W_{x\$1001} + 16 t^{10} \eta^2 v_3 V_{x\$1001} W_0 W_{x\$1001} - 8 t^{12} \eta^2 v_3 V_{x\$1001} W_0 W_{x\$1001} + \\
 & 8 t^{13} \eta^2 v_3 V_{x\$1001} W_0 W_{x\$1001} - 4 t^{14} \eta^2 v_3 V_{x\$1001} W_0 W_{x\$1001} - 16 t^9 \eta^3 v_3 V_{x\$1001} W_0 W_{x\$1001} + 24 t^{10} \eta^3 v_3 V_{x\$1001} W_0 W_{x\$1001} - \\
 & 16 t^{11} \eta^3 v_3 V_{x\$1001} W_0 W_{x\$1001} + 8 t^{12} \eta^3 v_3 V_{x\$1001} W_0 W_{x\$1001} - 4 t^4 \eta^4 v_3 V_{x\$1001} W_0 W_{x\$1001} + 8 t^5 \eta^4 v_3 V_{x\$1001} W_0 W_{x\$1001} - \\
 & 8 t^6 \eta^4 v_3 V_{x\$1001} W_0 W_{x\$1001} + 8 t^8 \eta^4 v_3 V_{x\$1001} W_0 W_{x\$1001} - 8 t^9 \eta^4 v_3 V_{x\$1001} W_0 W_{x\$1001} + 4 t^{10} \eta^4 v_3 V_{x\$1001} W_0 W_{x\$1001} - \\
 & 8 t^5 \eta^5 v_3 V_{x\$1001} W_0 W_{x\$1001} - 8 t^8 \eta^5 v_3 V_{x\$1001} W_0 W_{x\$1001} + 6 t^7 \eta^3 v_{x\$1001}^2 W_0 W_{x\$1001} - 18 t^8 \eta^3 v_{x\$1001}^2 W_0 W_{x\$1001} + \\
 & 22 t^9 \eta^3 v_{x\$1001}^2 W_0 W_{x\$1001} - 18 t^{10} \eta^3 v_{x\$1001}^2 W_0 W_{x\$1001} + 10 t^{11} \eta^3 v_{x\$1001}^2 W_0 W_{x\$1001} - 2 t^{12} \eta^3 v_{x\$1001}^2 W_0 W_{x\$1001} + \\
 & 4 t^2 \eta^4 v_{x\$1001}^2 W_0 W_{x\$1001} - 12 t^3 \eta^4 v_{x\$1001}^2 W_0 W_{x\$1001} + 20 t^4 \eta^4 v_{x\$1001}^2 W_0 W_{x\$1001} - 16 t^5 \eta^4 v_{x\$1001}^2 W_0 W_{x\$1001} + \\
 & 16 t^7 \eta^4 v_{x\$1001}^2 W_0 W_{x\$1001} - 24 t^8 \eta^4 v_{x\$1001}^2 W_0 W_{x\$1001} + 12 t^9 \eta^4 v_{x\$1001}^2 W_0 W_{x\$1001} - 4 t^{10} \eta^4 v_{x\$1001}^2 W_0 W_{x\$1001} + \\
 & 6 t^3 \eta^5 v_{x\$1001}^2 W_0 W_{x\$1001} - 6 t^4 \eta^5 v_{x\$1001}^2 W_0 W_{x\$1001} + 6 t^5 \eta^5 v_{x\$1001}^2 W_0 W_{x\$1001} + 6 t^6 \eta^5 v_{x\$1001}^2 W_0 W_{x\$1001} - 6 t^7 \eta^5 v_{x\$1001}^2 W_0 W_{x\$1001} + \\
 & 6 t^8 \eta^5 v_{x\$1001}^2 W_0 W_{x\$1001} - 4 t^6 \eta^2 v_0^2 W_4 W_{x\$1001} + 24 t^7 \eta^2 v_0^2 W_4 W_{x\$1001} - 64 t^8 \eta^2 v_0^2 W_4 W_{x\$1001} + 100 t^9 \eta^2 v_0^2 W_4 W_{x\$1001} - \\
 & 96 t^{10} \eta^2 v_0^2 W_4 W_{x\$1001} + 52 t^{11} \eta^2 v_0^2 W_4 W_{x\$1001} - 12 t^{12} \eta^2 v_0^2 W_4 W_{x\$1001} - 8 t^5 \eta^2 v_0^2 W_4 W_{x\$1001} + 32 t^6 \eta^2 v_0^2 W_4 W_{x\$1001} - \\
 & 64 t^7 \eta^2 v_0^2 W_4 W_{x\$1001} + 88 t^8 \eta^2 v_0^2 W_4 W_{x\$1001} - 68 t^9 \eta^2 v_0^2 W_4 W_{x\$1001} + 16 t^{10} \eta^2 v_0^2 W_4 W_{x\$1001} + 4 t^{11} \eta^2 v_0^2 W_4 W_{x\$1001} - \\
 & 14 t^6 \eta^3 v_0^2 W_4 W_{x\$1001} + 34 t^7 \eta^3 v_0^2 W_4 W_{x\$1001} - 14 t^8 \eta^3 v_0^2 W_4 W_{x\$1001} - 6 t^9 \eta^3 v_0^2 W_4 W_{x\$1001} + 4 t^7 \eta^4 v_0^2 W_4 W_{x\$1001} - \\
 & 2 t^2 \eta^5 v_0^2 W_4 W_{x\$1001} + 2 t^3 \eta^5 v_0^2 W_4 W_{x\$1001} + 2 t^4 \eta^5 v_0^2 W_4 W_{x\$1001} - 2 t^5 \eta^5 v_0^2 W_4 W_{x\$1001} - 4 t^8 \eta^2 v_0 v_3 W_4 W_{x\$1001} + \\
 & 20 t^9 \eta^2 v_0 v_3 W_4 W_{x\$1001} - 48 t^{10} \eta^2 v_0 v_3 W_4 W_{x\$1001} + 64 t^{11} \eta^2 v_0 v_3 W_4 W_{x\$1001} - 40 t^{12} \eta^2 v_0 v_3 W_4 W_{x\$1001} + 12 t^{14} \eta^2 v_0 v_3 W_4 W_{x\$1001} - \\
 & 4 t^{15} \eta^2 v_0 v_3 W_4 W_{x\$1001} - 4 t^7 \eta^2 v_0 v_3 W_4 W_{x\$1001} + 8 t^8 \eta^2 v_0 v_3 W_4 W_{x\$1001} - 24 t^9 \eta^2 v_0 v_3 W_4 W_{x\$1001} + 40 t^{10} \eta^2 v_0 v_3 W_4 W_{x\$1001} - \\
 & 8 t^{11} \eta^2 v_0 v_3 W_4 W_{x\$1001} - 24 t^{12} \eta^2 v_0 v_3 W_4 W_{x\$1001} + 12 t^{13} \eta^2 v_0 v_3 W_4 W_{x\$1001} - 20 t^8 \eta^3 v_0 v_3 W_4 W_{x\$1001} + 24 t^9 \eta^3 v_0 v_3 W_4 W_{x\$1001} + \\
 & 8 t^{10} \eta^3 v_0 v_3 W_4 W_{x\$1001} - 12 t^{11} \eta^3 v_0 v_3 W_4 W_{x\$1001} + 4 t^9 \eta^4 v_0 v_3 W_4 W_{x\$1001} - 4 t^4 \eta^5 v_0 v_3 W_4 W_{x\$1001} + 4 t^6 \eta^5 v_0 v_3 W_4 W_{x\$1001} + \\
 & 4 t^8 \eta^2 v_3^2 W_4 W_{x\$1001} - 20 t^9 \eta^2 v_3^2 W_4 W_{x\$1001} + 48 t^{10} \eta^2 v_3^2 W_4 W_{x\$1001} - 68 t^{11} \eta^2 v_3^2 W_4 W_{x\$1001} + 56 t^{12} \eta^2 v_3^2 W_4 W_{x\$1001} - \\
 & 24 t^{13} \eta^2 v_3^2 W_4 W_{x\$1001} + 4 t^{14} \eta^2 v_3^2 W_4 W_{x\$1001} + 12 t^9 \eta^2 v_3^2 W_4 W_{x\$1001} - 32 t^{10} \eta^2 v_3^2 W_4 W_{x\$1001} + 28 t^{11} \eta^2 v_3^2 W_4 W_{x\$1001} - \\
 & 8 t^{12} \eta^2 v_3^2 W_4 W_{x\$1001} - 2 t^{10} \eta^3 v_3^2 W_4 W_{x\$1001} + 2 t^{11} \eta^3 v_3^2 W_4 W_{x\$1001} - 2 t^6 \eta^5 v_3^2 W_4 W_{x\$1001} - 2 t^7 \eta^5 v_3^2 W_4 W_{x\$1001} - \\
 & 8 t^7 \eta^2 v_0 V_{x\$1001} W_4 W_{x\$1001} + 32 t^8 \eta^2 v_0 V_{x\$1001} W_4 W_{x\$1001} - 64 t^9 \eta^2 v_0 V_{x\$1001} W_4 W_{x\$1001} + 72 t^{10} \eta^2 v_0 V_{x\$1001} W_4 W_{x\$1001} - \\
 & 40 t^{11} \eta^2 v_0 V_{x\$1001} W_4 W_{x\$1001} + 8 t^{12} \eta^2 v_0 V_{x\$1001} W_4 W_{x\$1001} - 8 t^7 \eta^3 v_0 V_{x\$1001} W_4 W_{x\$1001} - 16 t^8 \eta^3 v_0 V_{x\$1001} W_4 W_{x\$1001} + \\
 & 32 t^9 \eta^3 v_0 V_{x\$1001} W_4 W_{x\$1001} - 8 t^{10} \eta^3 v_0 V_{x\$1001} W_4 W_{x\$1001} + 4 t \eta^4 v_0 V_{x\$1001} W_4 W_{x\$1001} - 12 t^2 \eta^4 v_0 V_{x\$1001} W_4 W_{x\$1001} + \\
 & 16 t^3 \eta^4 v_0 V_{x\$1001} W_4 W_{x\$1001} - 8 t^4 \eta^4 v_0 V_{x\$1001} W_4 W_{x\$1001} - 8 t^5 \eta^4 v_0 V_{x\$1001} W_4 W_{x\$1001} + 16 t^6 \eta^4 v_0 V_{x\$1001} W_4 W_{x\$1001} - \\
 & 32 t^7 \eta^4 v_0 V_{x\$1001} W_4 W_{x\$1001} + 8 t^8 \eta^4 v_0 V_{x\$1001} W_4 W_{x\$1001} + 8 t^2 \eta^5 v_0 V_{x\$1001} W_4 W_{x\$1001} - 8 t^3 \eta^5 v_0 V_{x\$1001} W_4 W_{x\$1001} + \\
 & 8 t^5 \eta^5 v_0 V_{x\$1001} W_4 W_{x\$1001} - 8 t^6 \eta^5 v_0 V_{x\$1001} W_4 W_{x\$1001} + 8 t^{10} \eta^2 v_3 V_{x\$1001} W_4 W_{x\$1001} - 24 t^{11} \eta^2 v_3 V_{x\$1001} W_4 W_{x\$1001} + \\
 & 24 t^{12} \eta^2 v_3 V_{x\$1001} W_4 W_{x\$1001} - 8 t^{13} \eta^2 v_3 V_{x\$1001} W_4 W_{x\$1001} + 16 t^8 \eta^3 v_3 V_{x\$1001} W_4 W_{x\$1001} - 24 t^9 \eta^3 v_3 V_{x\$1001} W_4 W_{x\$1001} + \\
 & 8 t^{11} \eta^3 v_3 V_{x\$1001} W_4 W_{x\$1001} + 4 t^3 \eta^4 v_3 V_{x\$1001} W_4 W_{x\$1001} - 8 t^4 \eta^4 v_3 V_{x\$1001} W_4 W_{x\$1001} + 8 t^5 \eta^4 v_3 V_{x\$1001} W_4 W_{x\$1001} -
 \end{aligned}$$

$$\begin{aligned}
 & 8 t^7 \eta^4 v_3 v_{x\$1001} w_4 w_{x\$1001} + 8 t^8 \eta^4 v_3 v_{x\$1001} w_4 w_{x\$1001} - 8 t^9 \eta^4 v_3 v_{x\$1001} w_4 w_{x\$1001} + 8 t^4 \eta^5 v_3 v_{x\$1001} w_4 w_{x\$1001} + \\
 & 8 t^7 \eta^5 v_3 v_{x\$1001} w_4 w_{x\$1001} - 2 t^6 \eta^3 v_{x\$1001}^2 w_4 w_{x\$1001} + 6 t^7 \eta^3 v_{x\$1001}^2 w_4 w_{x\$1001} - 10 t^8 \eta^3 v_{x\$1001}^2 w_4 w_{x\$1001} + \\
 & 14 t^9 \eta^3 v_{x\$1001}^2 w_4 w_{x\$1001} - 14 t^{10} \eta^3 v_{x\$1001}^2 w_4 w_{x\$1001} + 6 t^{11} \eta^3 v_{x\$1001}^2 w_4 w_{x\$1001} - 4 t \eta^4 v_{x\$1001}^2 w_4 w_{x\$1001} + \\
 & 12 t^2 \eta^4 v_{x\$1001}^2 w_4 w_{x\$1001} - 20 t^3 \eta^4 v_{x\$1001}^2 w_4 w_{x\$1001} + 16 t^4 \eta^4 v_{x\$1001}^2 w_4 w_{x\$1001} - 16 t^6 \eta^4 v_{x\$1001}^2 w_4 w_{x\$1001} + \\
 & 28 t^7 \eta^4 v_{x\$1001}^2 w_4 w_{x\$1001} - 16 t^8 \eta^4 v_{x\$1001}^2 w_4 w_{x\$1001} - 6 t^2 \eta^5 v_{x\$1001}^2 w_4 w_{x\$1001} + 6 t^3 \eta^5 v_{x\$1001}^2 w_4 w_{x\$1001} - \\
 & 6 t^4 \eta^5 v_{x\$1001}^2 w_4 w_{x\$1001} - 6 t^5 \eta^5 v_{x\$1001}^2 w_4 w_{x\$1001} + 6 t^6 \eta^5 v_{x\$1001}^2 w_4 w_{x\$1001} - 6 t^7 \eta^5 v_{x\$1001}^2 w_4 w_{x\$1001} + 4 t^4 \eta^2 v_0^2 w_{x\$1001}^2 - \\
 & 20 t^5 \eta^2 v_0^2 w_{x\$1001}^2 + 50 t^6 \eta^2 v_0^2 w_{x\$1001}^2 - 82 t^7 \eta^2 v_0^2 w_{x\$1001}^2 + 92 t^8 \eta^2 v_0^2 w_{x\$1001}^2 - 70 t^9 \eta^2 v_0^2 w_{x\$1001}^2 + 36 t^{10} \eta^2 v_0^2 w_{x\$1001}^2 - \\
 & 12 t^{11} \eta^2 v_0^2 w_{x\$1001}^2 + 2 t^{12} \eta^2 v_0^2 w_{x\$1001}^2 + 6 t^5 \eta^3 v_0^2 w_{x\$1001}^2 - 20 t^6 \eta^3 v_0^2 w_{x\$1001}^2 + 26 t^7 \eta^3 v_0^2 w_{x\$1001}^2 - 18 t^8 \eta^3 v_0^2 w_{x\$1001}^2 + \\
 & 8 t^9 \eta^3 v_0^2 w_{x\$1001}^2 - 2 t^{10} \eta^3 v_0^2 w_{x\$1001}^2 + \eta^4 v_0^2 w_{x\$1001}^2 - 4 t \eta^4 v_0^2 w_{x\$1001}^2 + 7 t^2 \eta^4 v_0^2 w_{x\$1001}^2 - 6 t^3 \eta^4 v_0^2 w_{x\$1001}^2 + \\
 & 6 t^5 \eta^4 v_0^2 w_{x\$1001}^2 - 10 t^6 \eta^4 v_0^2 w_{x\$1001}^2 + 8 t^7 \eta^4 v_0^2 w_{x\$1001}^2 - 2 t^8 \eta^4 v_0^2 w_{x\$1001}^2 + 2 t \eta^5 v_0^2 w_{x\$1001}^2 - 4 t^2 \eta^5 v_0^2 w_{x\$1001}^2 + \\
 & 2 t^3 \eta^5 v_0^2 w_{x\$1001}^2 + 2 t^4 \eta^5 v_0^2 w_{x\$1001}^2 - 4 t^5 \eta^5 v_0^2 w_{x\$1001}^2 + 2 t^6 \eta^5 v_0^2 w_{x\$1001}^2 + 2 t^6 \eta^2 v_0 v_3 w_{x\$1001}^2 - 6 t^7 \eta^2 v_0 v_3 w_{x\$1001}^2 + \\
 & 16 t^8 \eta^2 v_0 v_3 w_{x\$1001}^2 - 32 t^9 \eta^2 v_0 v_3 w_{x\$1001}^2 + 36 t^{10} \eta^2 v_0 v_3 w_{x\$1001}^2 - 24 t^{11} \eta^2 v_0 v_3 w_{x\$1001}^2 + 10 t^{12} \eta^2 v_0 v_3 w_{x\$1001}^2 - \\
 & 2 t^{13} \eta^2 v_0 v_3 w_{x\$1001}^2 + 8 t^7 \eta^3 v_0 v_3 w_{x\$1001}^2 - 16 t^8 \eta^3 v_0 v_3 w_{x\$1001}^2 + 12 t^9 \eta^3 v_0 v_3 w_{x\$1001}^2 - 4 t^{10} \eta^3 v_0 v_3 w_{x\$1001}^2 + \\
 & 2 t^2 \eta^4 v_0 v_3 w_{x\$1001}^2 - 6 t^3 \eta^4 v_0 v_3 w_{x\$1001}^2 + 8 t^4 \eta^4 v_0 v_3 w_{x\$1001}^2 - 4 t^5 \eta^4 v_0 v_3 w_{x\$1001}^2 - 4 t^6 \eta^4 v_0 v_3 w_{x\$1001}^2 + \\
 & 8 t^7 \eta^4 v_0 v_3 w_{x\$1001}^2 - 10 t^8 \eta^4 v_0 v_3 w_{x\$1001}^2 + 6 t^9 \eta^4 v_0 v_3 w_{x\$1001}^2 + 4 t^3 \eta^5 v_0 v_3 w_{x\$1001}^2 - 4 t^4 \eta^5 v_0 v_3 w_{x\$1001}^2 + \\
 & 4 t^6 \eta^5 v_0 v_3 w_{x\$1001}^2 - 4 t^7 \eta^5 v_0 v_3 w_{x\$1001}^2 - 2 t^9 \eta^2 v_3^2 w_{x\$1001}^2 + 12 t^{10} \eta^2 v_3^2 w_{x\$1001}^2 - 24 t^{11} \eta^2 v_3^2 w_{x\$1001}^2 + 24 t^{12} \eta^2 v_3^2 w_{x\$1001}^2 - \\
 & 14 t^{13} \eta^2 v_3^2 w_{x\$1001}^2 + 4 t^{14} \eta^2 v_3^2 w_{x\$1001}^2 + 6 t^9 \eta^3 v_3^2 w_{x\$1001}^2 - 12 t^{10} \eta^3 v_3^2 w_{x\$1001}^2 + 12 t^{11} \eta^3 v_3^2 w_{x\$1001}^2 - 6 t^{12} \eta^3 v_3^2 w_{x\$1001}^2 + \\
 & t^4 \eta^4 v_3^2 w_{x\$1001}^2 - 2 t^5 \eta^4 v_3^2 w_{x\$1001}^2 + 2 t^6 \eta^4 v_3^2 w_{x\$1001}^2 - 2 t^8 \eta^4 v_3^2 w_{x\$1001}^2 + 2 t^9 \eta^4 v_3^2 w_{x\$1001}^2 + 2 t^5 \eta^5 v_3^2 w_{x\$1001}^2 + \\
 & 2 t^8 \eta^5 v_3^2 w_{x\$1001}^2 + 2 t^5 \eta^3 v_0 v_{x\$1001} w_{x\$1001}^2 - 4 t^6 \eta^3 v_0 v_{x\$1001} w_{x\$1001}^2 + 12 t^7 \eta^3 v_0 v_{x\$1001} w_{x\$1001}^2 - 20 t^8 \eta^3 v_0 v_{x\$1001} w_{x\$1001}^2 + \\
 & 16 t^9 \eta^3 v_0 v_{x\$1001} w_{x\$1001}^2 - 8 t^{10} \eta^3 v_0 v_{x\$1001} w_{x\$1001}^2 + 2 t^{11} \eta^3 v_0 v_{x\$1001} w_{x\$1001}^2 - 4 \eta^4 v_0 v_{x\$1001} w_{x\$1001}^2 + 16 t \eta^4 v_0 v_{x\$1001} w_{x\$1001}^2 - \\
 & 32 t^2 \eta^4 v_0 v_{x\$1001} w_{x\$1001}^2 + 36 t^3 \eta^4 v_0 v_{x\$1001} w_{x\$1001}^2 - 16 t^4 \eta^4 v_0 v_{x\$1001} w_{x\$1001}^2 - 16 t^5 \eta^4 v_0 v_{x\$1001} w_{x\$1001}^2 + \\
 & 48 t^6 \eta^4 v_0 v_{x\$1001} w_{x\$1001}^2 - 48 t^7 \eta^4 v_0 v_{x\$1001} w_{x\$1001}^2 + 28 t^8 \eta^4 v_0 v_{x\$1001} w_{x\$1001}^2 - 8 t^9 \eta^4 v_0 v_{x\$1001} w_{x\$1001}^2 - \\
 & 6 t \eta^5 v_0 v_{x\$1001} w_{x\$1001}^2 + 12 t^2 \eta^5 v_0 v_{x\$1001} w_{x\$1001}^2 - 12 t^3 \eta^5 v_0 v_{x\$1001} w_{x\$1001}^2 + 12 t^5 \eta^5 v_0 v_{x\$1001} w_{x\$1001}^2 - \\
 & 12 t^6 \eta^5 v_0 v_{x\$1001} w_{x\$1001}^2 + 6 t^7 \eta^5 v_0 v_{x\$1001} w_{x\$1001}^2 - 6 t^7 \eta^3 v_3 v_{x\$1001} w_{x\$1001}^2 + 14 t^8 \eta^3 v_3 v_{x\$1001} w_{x\$1001}^2 - \\
 & 10 t^9 \eta^3 v_3 v_{x\$1001} w_{x\$1001}^2 + 2 t^{10} \eta^3 v_3 v_{x\$1001} w_{x\$1001}^2 + 2 t^{11} \eta^3 v_3 v_{x\$1001} w_{x\$1001}^2 - 2 t^{12} \eta^3 v_3 v_{x\$1001} w_{x\$1001}^2 - \\
 & 4 t^2 \eta^4 v_3 v_{x\$1001} w_{x\$1001}^2 + 12 t^3 \eta^4 v_3 v_{x\$1001} w_{x\$1001}^2 - 20 t^4 \eta^4 v_3 v_{x\$1001} w_{x\$1001}^2 + 16 t^5 \eta^4 v_3 v_{x\$1001} w_{x\$1001}^2 - \\
 & 16 t^7 \eta^4 v_3 v_{x\$1001} w_{x\$1001}^2 + 24 t^8 \eta^4 v_3 v_{x\$1001} w_{x\$1001}^2 - 16 t^9 \eta^4 v_3 v_{x\$1001} w_{x\$1001}^2 + 8 t^{10} \eta^4 v_3 v_{x\$1001} w_{x\$1001}^2 - \\
 & 6 t^3 \eta^5 v_3 v_{x\$1001} w_{x\$1001}^2 + 6 t^4 \eta^5 v_3 v_{x\$1001} w_{x\$1001}^2 - 6 t^5 \eta^5 v_3 v_{x\$1001} w_{x\$1001}^2 - 6 t^6 \eta^5 v_3 v_{x\$1001} w_{x\$1001}^2 + \\
 & 6 t^7 \eta^5 v_3 v_{x\$1001} w_{x\$1001}^2 - 6 t^8 \eta^5 v_3 v_{x\$1001} w_{x\$1001}^2 + 3 \eta^4 v_{x\$1001}^2 w_{x\$1001}^2 - 12 t \eta^4 v_{x\$1001}^2 w_{x\$1001}^2 + 27 t^2 \eta^4 v_{x\$1001}^2 w_{x\$1001}^2 - \\
 & 36 t^3 \eta^4 v_{x\$1001}^2 w_{x\$1001}^2 + 27 t^4 \eta^4 v_{x\$1001}^2 w_{x\$1001}^2 - 32 t^6 \eta^4 v_{x\$1001}^2 w_{x\$1001}^2 + 44 t^7 \eta^4 v_{x\$1001}^2 w_{x\$1001}^2 - 34 t^8 \eta^4 v_{x\$1001}^2 w_{x\$1001}^2 + \\
 & 16 t^9 \eta^4 v_{x\$1001}^2 w_{x\$1001}^2 - 4 t^{10} \eta^4 v_{x\$1001}^2 w_{x\$1001}^2 + 4 t \eta^5 v_{x\$1001}^2 w_{x\$1001}^2 - 8 t^2 \eta^5 v_{x\$1001}^2 w_{x\$1001}^2 + 12 t^3 \eta^5 v_{x\$1001}^2 w_{x\$1001}^2 - \\
 & 4 t^4 \eta^5 v_{x\$1001}^2 w_{x\$1001}^2 - 4 t^5 \eta^5 v_{x\$1001}^2 w_{x\$1001}^2 + 12 t^6 \eta^5 v_{x\$1001}^2 w_{x\$1001}^2 - 8 t^7 \eta^5 v_{x\$1001}^2 w_{x\$1001}^2 + 4 t^8 \eta^5 v_{x\$1001}^2 w_{x\$1001}^2]
 \end{aligned}$$

» $E \left[1 - t + \eta, 0, -v_0 w_3 + v_{x\$1016} w_3 + v_0 w_{x\$1016} - v_{x\$1016} w_{x\$1016}, \right.$

$$\begin{aligned}
 & \frac{1}{4 t^4 \eta^4} \left(-8 + 88 t - 460 t^2 + 1504 t^3 - 3412 t^4 + 5640 t^5 - 6948 t^6 + 6416 t^7 - 4404 t^8 + 2192 t^9 - 752 t^{10} + 160 t^{11} - 16 t^{12} - 32 \eta + \right. \\
 & 324 t \eta - 1560 t^2 \eta + 4672 t^3 \eta - 9616 t^4 \eta + 14236 t^5 \eta - 15448 t^6 \eta + 12296 t^7 \eta - 7056 t^8 \eta + 2792 t^9 \eta - 688 t^{10} \eta + 80 t^{11} \eta - \\
 & 48 \eta^2 + 444 t \eta^2 - 1950 t^2 \eta^2 + 5276 t^3 \eta^2 - 9676 t^4 \eta^2 + 12544 t^5 \eta^2 - 11670 t^6 \eta^2 + 7752 t^7 \eta^2 - 3556 t^8 \eta^2 + 1024 t^9 \eta^2 - \\
 & 140 t^{10} \eta^2 - 32 \eta^3 + 268 t \eta^3 - 1060 t^2 \eta^3 + 2544 t^3 \eta^3 - 4060 t^4 \eta^3 + 4476 t^5 \eta^3 - 3456 t^6 \eta^3 + 1848 t^7 \eta^3 - 632 t^8 \eta^3 + \\
 & 104 t^9 \eta^3 - 8 \eta^4 + 60 t \eta^4 - 210 t^2 \eta^4 + 436 t^3 \eta^4 - 588 t^4 \eta^4 + 532 t^5 \eta^4 - 328 t^6 \eta^4 + 132 t^7 \eta^4 - 26 t^8 \eta^4 - 4 t^4 \eta^5 + 4 t^5 \eta^5 + \\
 & 4 t^6 \eta^5 - 4 t^7 \eta^5 - 2 t^4 \eta^6 + 2 t^6 \eta^6 + 4 c_0 - 40 t c_0 + 184 t^2 c_0 - 496 t^3 c_0 + 804 t^4 c_0 - 600 t^5 c_0 - 512 t^6 c_0 + 2096 t^7 c_0 - \\
 & 3008 t^8 c_0 + 2592 t^9 c_0 - 1408 t^{10} c_0 + 448 t^{11} c_0 - 64 t^{12} c_0 + 16 \eta c_0 - 148 t \eta c_0 + 624 t^2 \eta c_0 - 1504 t^3 \eta c_0 + 2032 t^4 \eta c_0 - \\
 & 740 t^5 \eta c_0 - 2768 t^6 \eta c_0 + 6312 t^7 \eta c_0 - 6976 t^8 \eta c_0 + 4592 t^9 \eta c_0 - 1728 t^{10} \eta c_0 + 288 t^{11} \eta c_0 + 24 \eta^2 c_0 - 204 t \eta^2 c_0 + \\
 & 780 t^2 \eta^2 c_0 - 1644 t^3 \eta^2 c_0 + 1716 t^4 \eta^2 c_0 + 360 t^5 \eta^2 c_0 - 4008 t^6 \eta^2 c_0 + 6288 t^7 \eta^2 c_0 - 5232 t^8 \eta^2 c_0 + 2400 t^9 \eta^2 c_0 - \\
 & 480 t^{10} \eta^2 c_0 + 16 \eta^3 c_0 - 124 t \eta^3 c_0 + 424 t^2 \eta^3 c_0 - 756 t^3 \eta^3 c_0 + 512 t^4 \eta^3 c_0 + 712 t^5 \eta^3 c_0 - 2144 t^6 \eta^3 c_0 + 2416 t^7 \eta^3 c_0 - \\
 & 1408 t^8 \eta^3 c_0 + 352 t^9 \eta^3 c_0 + 4 \eta^4 c_0 - 28 t \eta^4 c_0 + 84 t^2 \eta^4 c_0 - 120 t^3 \eta^4 c_0 + 24 t^4 \eta^4 c_0 + 208 t^5 \eta^4 c_0 - 368 t^6 \eta^4 c_0 + \\
 & 288 t^7 \eta^4 c_0 - 96 t^8 \eta^4 c_0 + 4 c_0^2 - 48 t c_0^2 + 280 t^2 c_0^2 - 1040 t^3 c_0^2 + 2724 t^4 c_0^2 - 5280 t^5 c_0^2 + 7744 t^6 c_0^2 - 8640 t^7 c_0^2 + \\
 & 7264 t^8 c_0^2 - 4480 t^9 c_0^2 + 1920 t^{10} c_0^2 - 512 t^{11} c_0^2 + 64 t^{12} c_0^2 + 16 \eta c_0^2 - 176 t \eta c_0^2 + 944 t^2 \eta c_0^2 - 3216 t^3 \eta c_0^2 + 7680 t^4 \eta c_0^2 - \\
 & 13440 t^5 \eta c_0^2 + 17536 t^6 \eta c_0^2 - 17024 t^7 \eta c_0^2 + 12032 t^8 \eta c_0^2 - 5888 t^9 \eta c_0^2 + 1792 t^{10} \eta c_0^2 - 256 t^{11} \eta c_0^2 + 24 \eta^2 c_0^2 - 240 t \eta^2 c_0^2 + \\
 & 1176 t^2 \eta^2 c_0^2 - 3648 t^3 \eta^2 c_0^2 + 7872 t^4 \eta^2 c_0^2 - 12288 t^5 \eta^2 c_0^2 + 14016 t^6 \eta^2 c_0^2 - 11520 t^7 \eta^2 c_0^2 + 6528 t^8 \eta^2 c_0^2 - 2304 t^9 \eta^2 c_0^2 + \\
 & 384 t^{10} \eta^2 c_0^2 + 16 \eta^3 c_0^2 - 144 t \eta^3 c_0^2 + 640 t^2 \eta^3 c_0^2 - 1792 t^3 \eta^3 c_0^2 + 3456 t^4 \eta^3 c_0^2 - 4736 t^5 \eta^3 c_0^2 + 4608 t^6 \eta^3 c_0^2 - 3072 t^7 \eta^3 c_0^2 + \\
 & 1280 t^8 \eta^3 c_0^2 - 256 t^9 \eta^3 c_0^2 + 4 \eta^4 c_0^2 - 32 t \eta^4 c_0^2 + 128 t^2 \eta^4 c_0^2 - 320 t^3 \eta^4 c_0^2 + 544 t^4 \eta^4 c_0^2 - 640 t^5 \eta^4 c_0^2 + 512 t^6 \eta^4 c_0^2 - \\
 & 256 t^7 \eta^4 c_0^2 + 64 t^8 \eta^4 c_0^2 + 4 c_3 - 40 t c_3 + 184 t^2 c_3 - 496 t^3 c_3 + 804 t^4 c_3 - 600 t^5 c_3 - 512 t^6 c_3 + 2096 t^7 c_3 - 3008 t^8 c_3 + \\
 & 2592 t^9 c_3 - 1408 t^{10} c_3 + 448 t^{11} c_3 - 64 t^{12} c_3 + 16 \eta c_3 - 152 t \eta c_3 + 664 t^2 \eta c_3 - 1696 t^3 \eta c_3 + 2608 t^4 \eta c_3 - 1928 t^5 \eta c_3 - \\
 & 1016 t^6 \eta c_3 + 4448 t^7 \eta c_3 - 5568 t^8 \eta c_3 + 3872 t^9 \eta c_3 - 1504 t^{10} \eta c_3 + 256 t^{11} \eta c_3 + 24 \eta^2 c_3 - 216 t \eta^2 c_3 + 888 t^2 \eta^2 c_3 - \\
 & 2112 t^3 \eta^2 c_3 + 2976 t^4 \eta^2 c_3 - 1944 t^5 \eta^2 c_3 - 1056 t^6 \eta^2 c_3 + 3648 t^7 \eta^2 c_3 - 3648 t^8 \eta^2 c_3 + 1824 t^9 \eta^2 c_3 - 384 t^{10} \eta^2 c_3 + \\
 & 16 \eta^3 c_3 - 136 t \eta^3 c_3 + 520 t^2 \eta^3 c_3 - 1128 t^3 \eta^3 c_3 + 1400 t^4 \eta^3 c_3 - 704 t^5 \eta^3 c_3 - 608 t^6 \eta^3 c_3 + 1312 t^7 \eta^3 c_3 - 928 t^8 \eta^3 c_3 + \\
 & 256 t^9 \eta^3 c_3 + 4 \eta^4 c_3 - 32 t \eta^4 c_3 + 112 t^2 \eta^4 c_3 - 216 t^3 \eta^4 c_3 + 224 t^4 \eta^4 c_3 - 64 t^5 \eta^4 c_3 - 128 t^6 \eta^4 c_3 + 160 t^7 \eta^4 c_3 -
 \end{aligned}$$

$$\begin{aligned}
& 64 t^8 \eta^4 c_3 - 8 c_0 c_3 + 96 t c_0 c_3 - 560 t^2 c_0 c_3 + 2080 t^3 c_0 c_3 - 5448 t^4 c_0 c_3 + 10560 t^5 c_0 c_3 - 15488 t^6 c_0 c_3 + 17280 t^7 c_0 c_3 - \\
& 14528 t^8 c_0 c_3 + 8960 t^9 c_0 c_3 - 3840 t^{10} c_0 c_3 + 1024 t^{11} c_0 c_3 - 128 t^{12} c_0 c_3 - 32 \eta c_0 c_3 + 352 t \eta c_0 c_3 - 1888 t^2 \eta c_0 c_3 + \\
& 6432 t^3 \eta c_0 c_3 - 15360 t^4 \eta c_0 c_3 + 26880 t^5 \eta c_0 c_3 - 35072 t^6 \eta c_0 c_3 + 34048 t^7 \eta c_0 c_3 - 24064 t^8 \eta c_0 c_3 + 11776 t^9 \eta c_0 c_3 - \\
& 3584 t^{10} \eta c_0 c_3 + 512 t^{11} \eta c_0 c_3 - 48 \eta^2 c_0 c_3 + 480 t \eta^2 c_0 c_3 - 2352 t^2 \eta^2 c_0 c_3 + 7296 t^3 \eta^2 c_0 c_3 - 15744 t^4 \eta^2 c_0 c_3 + \\
& 24576 t^5 \eta^2 c_0 c_3 - 28032 t^6 \eta^2 c_0 c_3 + 23040 t^7 \eta^2 c_0 c_3 - 13056 t^8 \eta^2 c_0 c_3 + 4608 t^9 \eta^2 c_0 c_3 - 768 t^{10} \eta^2 c_0 c_3 - 32 \eta^3 c_0 c_3 + \\
& 288 t \eta^3 c_0 c_3 - 1280 t^2 \eta^3 c_0 c_3 + 3584 t^3 \eta^3 c_0 c_3 - 6912 t^4 \eta^3 c_0 c_3 + 9472 t^5 \eta^3 c_0 c_3 - 9216 t^6 \eta^3 c_0 c_3 + 6144 t^7 \eta^3 c_0 c_3 - \\
& 2560 t^8 \eta^3 c_0 c_3 + 512 t^9 \eta^3 c_0 c_3 - 8 \eta^4 c_0 c_3 + 64 t \eta^4 c_0 c_3 - 256 t^2 \eta^4 c_0 c_3 + 640 t^3 \eta^4 c_0 c_3 - 1088 t^4 \eta^4 c_0 c_3 + 1280 t^5 \eta^4 c_0 c_3 - \\
& 1024 t^6 \eta^4 c_0 c_3 + 512 t^7 \eta^4 c_0 c_3 - 128 t^8 \eta^4 c_0 c_3 + 4 c_3^2 - 48 t c_3^2 + 280 t^2 c_3^2 - 1040 t^3 c_3^2 + 2724 t^4 c_3^2 - 5280 t^5 c_3^2 + 7744 t^6 c_3^2 - \\
& 8640 t^7 c_3^2 + 7264 t^8 c_3^2 - 4480 t^9 c_3^2 + 1920 t^{10} c_3^2 - 512 t^{11} c_3^2 + 64 t^{12} c_3^2 + 16 \eta c_3^2 - 176 t \eta c_3^2 + 944 t^2 \eta c_3^2 - 3216 t^3 \eta c_3^2 + \\
& 7680 t^4 \eta c_3^2 - 13440 t^5 \eta c_3^2 + 17536 t^6 \eta c_3^2 - 17024 t^7 \eta c_3^2 + 12032 t^8 \eta c_3^2 - 5888 t^9 \eta c_3^2 + 1792 t^{10} \eta c_3^2 - 256 t^{11} \eta c_3^2 + \\
& 24 \eta^2 c_3^2 - 240 t \eta^2 c_3^2 + 1176 t^2 \eta^2 c_3^2 - 3648 t^3 \eta^2 c_3^2 + 7872 t^4 \eta^2 c_3^2 - 12288 t^5 \eta^2 c_3^2 + 14016 t^6 \eta^2 c_3^2 - 11520 t^7 \eta^2 c_3^2 + \\
& 6528 t^8 \eta^2 c_3^2 - 2304 t^9 \eta^2 c_3^2 + 384 t^{10} \eta^2 c_3^2 + 16 \eta^3 c_3^2 - 144 t \eta^3 c_3^2 + 640 t^2 \eta^3 c_3^2 - 1792 t^3 \eta^3 c_3^2 + 3456 t^4 \eta^3 c_3^2 - 4736 t^5 \eta^3 c_3^2 + \\
& 4608 t^6 \eta^3 c_3^2 - 3072 t^7 \eta^3 c_3^2 + 1280 t^8 \eta^3 c_3^2 - 256 t^9 \eta^3 c_3^2 + 4 \eta^4 c_3^2 - 32 t \eta^4 c_3^2 + 128 t^2 \eta^4 c_3^2 - 320 t^3 \eta^4 c_3^2 + 544 t^4 \eta^4 c_3^2 - \\
& 640 t^5 \eta^4 c_3^2 + 512 t^6 \eta^4 c_3^2 - 256 t^7 \eta^4 c_3^2 + 64 t^8 \eta^4 c_3^2 + 4 t^4 \eta^4 c_{x\$1016} - 8 t^5 \eta^4 c_{x\$1016} + 8 t^7 \eta^4 c_{x\$1016} - 4 t^8 \eta^4 c_{x\$1016} + \\
& 12 t^4 \eta^5 c_{x\$1016} - 12 t^5 \eta^5 c_{x\$1016} - 12 t^6 \eta^5 c_{x\$1016} + 12 t^7 \eta^5 c_{x\$1016} + 12 t^4 \eta^6 c_{x\$1016} - 12 t^6 \eta^6 c_{x\$1016} + 4 t^4 \eta^7 c_{x\$1016} + \\
& 4 t^5 \eta^7 c_{x\$1016} - 16 v_0 w_3 + 164 t v_0 w_3 - 808 t^2 v_0 w_3 + 2496 t^3 v_0 w_3 - 5328 t^4 v_0 w_3 + 8196 t^5 v_0 w_3 - 9208 t^6 v_0 w_3 + \\
& 7496 t^7 v_0 w_3 - 4288 t^8 v_0 w_3 + 1616 t^9 v_0 w_3 - 352 t^{10} v_0 w_3 + 32 t^{11} v_0 w_3 - 56 \eta v_0 w_3 + 536 t \eta v_0 w_3 - 2460 t^2 \eta v_0 w_3 + \\
& 7016 t^3 \eta v_0 w_3 - 13640 t^4 \eta v_0 w_3 + 18736 t^5 \eta v_0 w_3 - 18260 t^6 \eta v_0 w_3 + 12336 t^7 \eta v_0 w_3 - 5440 t^8 \eta v_0 w_3 + 1376 t^9 \eta v_0 w_3 - \\
& 144 t^{10} \eta v_0 w_3 - 72 \eta^2 v_0 w_3 + 636 t \eta^2 v_0 w_3 - 2708 t^2 \eta^2 v_0 w_3 + 7112 t^3 \eta^2 v_0 w_3 - 12572 t^4 \eta^2 v_0 w_3 + 15388 t^5 \eta^2 v_0 w_3 - \\
& 12944 t^6 \eta^2 v_0 w_3 + 7144 t^7 \eta^2 v_0 w_3 - 2304 t^8 \eta^2 v_0 w_3 + 320 t^9 \eta^2 v_0 w_3 - 40 \eta^3 v_0 w_3 + 320 t \eta^3 v_0 w_3 - 1256 t^2 \eta^3 v_0 w_3 + \\
& 3024 t^3 \eta^3 v_0 w_3 - 4856 t^4 \eta^3 v_0 w_3 + 5296 t^5 \eta^3 v_0 w_3 - 3840 t^6 \eta^3 v_0 w_3 + 1680 t^7 \eta^3 v_0 w_3 - 328 t^8 \eta^3 v_0 w_3 - 8 \eta^4 v_0 w_3 + \\
& 56 t \eta^4 v_0 w_3 - 200 t^2 \eta^4 v_0 w_3 + 440 t^3 \eta^4 v_0 w_3 - 644 t^4 \eta^4 v_0 w_3 + 636 t^5 \eta^4 v_0 w_3 - 412 t^6 \eta^4 v_0 w_3 + 124 t^7 \eta^4 v_0 w_3 + \\
& 4 t^4 \eta^5 v_0 w_3 - 4 t^6 \eta^5 v_0 w_3 - 4 t \eta c_0 v_0 w_3 + 36 t^2 \eta c_0 v_0 w_3 - 156 t^3 \eta c_0 v_0 w_3 + 420 t^4 \eta c_0 v_0 w_3 - 768 t^5 \eta c_0 v_0 w_3 + \\
& 984 t^6 \eta c_0 v_0 w_3 - 880 t^7 \eta c_0 v_0 w_3 + 528 t^8 \eta c_0 v_0 w_3 - 192 t^9 \eta c_0 v_0 w_3 + 32 t^{10} \eta c_0 v_0 w_3 - 16 t \eta^2 c_0 v_0 w_3 + 120 t^2 \eta^2 c_0 v_0 w_3 - \\
& 432 t^3 \eta^2 c_0 v_0 w_3 + 952 t^4 \eta^2 c_0 v_0 w_3 - 1392 t^5 \eta^2 c_0 v_0 w_3 + 1376 t^6 \eta^2 c_0 v_0 w_3 - 896 t^7 \eta^2 c_0 v_0 w_3 + 352 t^8 \eta^2 c_0 v_0 w_3 - \\
& 64 t^9 \eta^2 c_0 v_0 w_3 - 20 t \eta^3 c_0 v_0 w_3 + 124 t^2 \eta^3 c_0 v_0 w_3 - 368 t^3 \eta^3 c_0 v_0 w_3 + 648 t^4 \eta^3 c_0 v_0 w_3 - 720 t^5 \eta^3 c_0 v_0 w_3 + \\
& 496 t^6 \eta^3 c_0 v_0 w_3 - 192 t^7 \eta^3 c_0 v_0 w_3 + 32 t^8 \eta^3 c_0 v_0 w_3 - 8 t \eta^4 c_0 v_0 w_3 + 40 t^2 \eta^4 c_0 v_0 w_3 - 96 t^3 \eta^4 c_0 v_0 w_3 + 128 t^4 \eta^4 c_0 v_0 w_3 - \\
& 96 t^5 \eta^4 c_0 v_0 w_3 + 32 t^6 \eta^4 c_0 v_0 w_3 + 4 t \eta c_3 v_0 w_3 - 36 t^2 \eta c_3 v_0 w_3 + 156 t^3 \eta c_3 v_0 w_3 - 420 t^4 \eta c_3 v_0 w_3 + 768 t^5 \eta c_3 v_0 w_3 - \\
& 984 t^6 \eta c_3 v_0 w_3 + 880 t^7 \eta c_3 v_0 w_3 - 528 t^8 \eta c_3 v_0 w_3 + 192 t^9 \eta c_3 v_0 w_3 - 32 t^{10} \eta c_3 v_0 w_3 + 4 t \eta^2 c_3 v_0 w_3 - 40 t^2 \eta^2 c_3 v_0 w_3 + \\
& 188 t^3 \eta^2 c_3 v_0 w_3 - 528 t^4 \eta^2 c_3 v_0 w_3 + 968 t^5 \eta^2 c_3 v_0 w_3 - 1184 t^6 \eta^2 c_3 v_0 w_3 + 944 t^7 \eta^2 c_3 v_0 w_3 - 448 t^8 \eta^2 c_3 v_0 w_3 + \\
& 96 t^9 \eta^2 c_3 v_0 w_3 - 4 t \eta^3 c_3 v_0 w_3 + 12 t^2 \eta^3 c_3 v_0 w_3 + 16 t^3 \eta^3 c_3 v_0 w_3 - 152 t^4 \eta^3 c_3 v_0 w_3 + 368 t^5 \eta^3 c_3 v_0 w_3 - 464 t^6 \eta^3 c_3 v_0 w_3 + \\
& 320 t^7 \eta^3 c_3 v_0 w_3 - 96 t^8 \eta^3 c_3 v_0 w_3 - 4 t \eta^4 c_3 v_0 w_3 + 16 t^2 \eta^4 c_3 v_0 w_3 - 24 t^3 \eta^4 c_3 v_0 w_3 + 48 t^5 \eta^4 c_3 v_0 w_3 - 64 t^6 \eta^4 c_3 v_0 w_3 + \\
& 32 t^7 \eta^4 c_3 v_0 w_3 - 4 t^4 \eta^4 c_{x\$1016} v_0 w_3 + 4 t^5 \eta^4 c_{x\$1016} v_0 w_3 + 4 t^6 \eta^4 c_{x\$1016} v_0 w_3 - 4 t^7 \eta^4 c_{x\$1016} v_0 w_3 - 8 t^4 \eta^5 c_{x\$1016} v_0 w_3 + \\
& 8 t^6 \eta^5 c_{x\$1016} v_0 w_3 - 4 t^4 \eta^6 c_{x\$1016} v_0 w_3 - 4 t^5 \eta^6 c_{x\$1016} v_0 w_3 - 8 \eta v_{x\$1016} w_3 + 76 t \eta v_{x\$1016} w_3 - 348 t^2 \eta v_{x\$1016} w_3 + \\
& 996 t^3 \eta v_{x\$1016} w_3 - 1956 t^4 \eta v_{x\$1016} w_3 + 2736 t^5 \eta v_{x\$1016} w_3 - 2744 t^6 \eta v_{x\$1016} w_3 + 1936 t^7 \eta v_{x\$1016} w_3 - 912 t^8 \eta v_{x\$1016} w_3 + \\
& 256 t^9 \eta v_{x\$1016} w_3 - 32 t^{10} \eta v_{x\$1016} w_3 - 24 \eta^2 v_{x\$1016} w_3 + 208 t \eta^2 v_{x\$1016} w_3 - 860 t^2 \eta^2 v_{x\$1016} w_3 + 2196 t^3 \eta^2 v_{x\$1016} w_3 - \\
& 3772 t^4 \eta^2 v_{x\$1016} w_3 + 4468 t^5 \eta^2 v_{x\$1016} w_3 - 3600 t^6 \eta^2 v_{x\$1016} w_3 + 1864 t^7 \eta^2 v_{x\$1016} w_3 - 544 t^8 \eta^2 v_{x\$1016} w_3 + 64 t^9 \eta^2 v_{x\$1016} w_3 - \\
& 24 \eta^3 v_{x\$1016} w_3 + 188 t \eta^3 v_{x\$1016} w_3 - 704 t^2 \eta^3 v_{x\$1016} w_3 + 1608 t^3 \eta^3 v_{x\$1016} w_3 - 2404 t^4 \eta^3 v_{x\$1016} w_3 + 2352 t^5 \eta^3 v_{x\$1016} w_3 - \\
& 1408 t^6 \eta^3 v_{x\$1016} w_3 + 432 t^7 \eta^3 v_{x\$1016} w_3 - 40 t^8 \eta^3 v_{x\$1016} w_3 - 8 \eta^4 v_{x\$1016} w_3 + 56 t \eta^4 v_{x\$1016} w_3 - 192 t^2 \eta^4 v_{x\$1016} w_3 + \\
& 392 t^3 \eta^4 v_{x\$1016} w_3 - 504 t^4 \eta^4 v_{x\$1016} w_3 + 384 t^5 \eta^4 v_{x\$1016} w_3 - 136 t^6 \eta^4 v_{x\$1016} w_3 + 8 t^7 \eta^4 v_{x\$1016} w_3 + 4 t^4 \eta^5 v_{x\$1016} w_3 - \\
& 4 t^6 \eta^5 v_{x\$1016} w_3 + 4 t^4 \eta^6 v_{x\$1016} w_3 + 4 t^5 \eta^6 v_{x\$1016} w_3 + 8 \eta c_0 v_{x\$1016} w_3 - 84 t \eta c_0 v_{x\$1016} w_3 + 420 t^2 \eta c_0 v_{x\$1016} w_3 - \\
& 1308 t^3 \eta c_0 v_{x\$1016} w_3 + 2796 t^4 \eta c_0 v_{x\$1016} w_3 - 4272 t^5 \eta c_0 v_{x\$1016} w_3 + 4712 t^6 \eta c_0 v_{x\$1016} w_3 - 3696 t^7 \eta c_0 v_{x\$1016} w_3 + \\
& 1968 t^8 \eta c_0 v_{x\$1016} w_3 - 640 t^9 \eta c_0 v_{x\$1016} w_3 + 96 t^{10} \eta c_0 v_{x\$1016} w_3 + 24 \eta^2 c_0 v_{x\$1016} w_3 - 224 t \eta^2 c_0 v_{x\$1016} w_3 + \\
& 1008 t^2 \eta^2 c_0 v_{x\$1016} w_3 - 2832 t^3 \eta^2 c_0 v_{x\$1016} w_3 + 5432 t^4 \eta^2 c_0 v_{x\$1016} w_3 - 7344 t^5 \eta^2 c_0 v_{x\$1016} w_3 + 6976 t^6 \eta^2 c_0 v_{x\$1016} w_3 - \\
& 4480 t^7 \eta^2 c_0 v_{x\$1016} w_3 + 1760 t^8 \eta^2 c_0 v_{x\$1016} w_3 - 320 t^9 \eta^2 c_0 v_{x\$1016} w_3 + 24 \eta^3 c_0 v_{x\$1016} w_3 - 196 t \eta^3 c_0 v_{x\$1016} w_3 + \\
& 788 t^2 \eta^3 c_0 v_{x\$1016} w_3 - 1984 t^3 \eta^3 c_0 v_{x\$1016} w_3 + 3384 t^4 \eta^3 c_0 v_{x\$1016} w_3 - 3984 t^5 \eta^3 c_0 v_{x\$1016} w_3 + 3152 t^6 \eta^3 c_0 v_{x\$1016} w_3 - \\
& 1536 t^7 \eta^3 c_0 v_{x\$1016} w_3 + 352 t^8 \eta^3 c_0 v_{x\$1016} w_3 + 8 \eta^4 c_0 v_{x\$1016} w_3 - 56 t \eta^4 c_0 v_{x\$1016} w_3 + 200 t^2 \eta^4 c_0 v_{x\$1016} w_3 - \\
& 448 t^3 \eta^4 c_0 v_{x\$1016} w_3 + 672 t^4 \eta^4 c_0 v_{x\$1016} w_3 - 672 t^5 \eta^4 c_0 v_{x\$1016} w_3 + 416 t^6 \eta^4 c_0 v_{x\$1016} w_3 - 128 t^7 \eta^4 c_0 v_{x\$1016} w_3 - \\
& 8 \eta c_3 v_{x\$1016} w_3 + 84 t \eta c_3 v_{x\$1016} w_3 - 420 t^2 \eta c_3 v_{x\$1016} w_3 + 1308 t^3 \eta c_3 v_{x\$1016} w_3 - 2796 t^4 \eta c_3 v_{x\$1016} w_3 + \\
& 4272 t^5 \eta c_3 v_{x\$1016} w_3 - 4712 t^6 \eta c_3 v_{x\$1016} w_3 + 3696 t^7 \eta c_3 v_{x\$1016} w_3 - 1968 t^8 \eta c_3 v_{x\$1016} w_3 + 640 t^9 \eta c_3 v_{x\$1016} w_3 - \\
& 96 t^{10} \eta c_3 v_{x\$1016} w_3 - 24 \eta^2 c_3 v_{x\$1016} w_3 + 236 t \eta^2 c_3 v_{x\$1016} w_3 - 1088 t^2 \eta^2 c_3 v_{x\$1016} w_3 + 3076 t^3 \eta^2 c_3 v_{x\$1016} w_3 - \\
& 5856 t^4 \eta^2 c_3 v_{x\$1016} w_3 + 7768 t^5 \eta^2 c_3 v_{x\$1016} w_3 - 7168 t^6 \eta^2 c_3 v_{x\$1016} w_3 + 4432 t^7 \eta^2 c_3 v_{x\$1016} w_3 - 1664 t^8 \eta^2 c_3 v_{x\$1016} w_3 + \\
& 288 t^9 \eta^2 c_3 v_{x\$1016} w_3 - 24 \eta^3 c_3 v_{x\$1016} w_3 + 220 t \eta^3 c_3 v_{x\$1016} w_3 - 924 t^2 \eta^3 c_3 v_{x\$1016} w_3 + 2336 t^3 \eta^3 c_3 v_{x\$1016} w_3 - \\
& 3880 t^4 \eta^3 c_3 v_{x\$1016} w_3 + 4336 t^5 \eta^3 c_3 v_{x\$1016} w_3 - 3184 t^6 \eta^3 c_3 v_{x\$1016} w_3 + 1408 t^7 \eta^3 c_3 v_{x\$1016} w_3 - 288 t^8 \eta^3 c_3 v_{x\$1016} w_3 - \\
& 8 \eta^4 c_3 v_{x\$1016} w_3 + 68 t \eta^4 c_3 v_{x\$1016} w_3 - 256 t^2 \eta^4 c_3 v_{x\$1016} w_3 + 568 t^3 \eta^4 c_3 v_{x\$1016} w_3 - 800 t^4 \eta^4 c_3 v_{x\$1016} w_3 + \\
& 720 t^5 \eta^4 c_3 v_{x\$1016} w_3 - 384 t^6 \eta^4 c_3 v_{x\$1016} w_3 + 96 t^7 \eta^4 c_3 v_{x\$1016} w_3 + 4 t^4 \eta^4 c_{x\$1016} v_{x\$1016} w_3 - 4 t^5 \eta^4 c_{x\$1016} v_{x\$1016} w_3 - \\
& 4 t^6 \eta^4 c_{x\$1016} v_{x\$1016} w_3 + 4 t^7 \eta^4 c_{x\$1016} v_{x\$1016} w_3 + 8 t^4 \eta^5 c_{x\$1016} v_{x\$1016} w_3 - 8 t^6 \eta^5 c_{x\$1016} v_{x\$1016} w_3 + 4 t^4 \eta^6 c_{x\$1016} v_{x\$1016} w_3 + \\
& 4 t^5 \eta^6 c_{x\$1016} v_{x\$1016} w_3 + 8 t \eta^2 v_0^2 w_3^2 - 40 t^2 \eta^2 v_0^2 w_3^2 + 88 t^3 \eta^2 v_0^2 w_3^2 - 88 t^4 \eta^2 v_0^2 w_3^2 + 96 t^6 \eta^2 v_0^2 w_3^2 - 96 t^7 \eta^2 v_0^2 w_3^2 + \\
& 32 t^8 \eta^2 v_0^2 w_3^2 + 8 t \eta^3 v_0^2 w_3^2 - 32 t^2 \eta^3 v_0^2 w_3^2 + 56 t^3 \eta^3 v_0^2 w_3^2 - 32 t^4 \eta^3 v_0^2 w_3^2 - 32 t^5 \eta^3 v_0^2 w_3^2 + 64 t^6 \eta^3 v_0^2 w_3^2 - 32 t^7 \eta^3 v_0^2 w_3^2 +
\end{aligned}$$

$$\begin{aligned}
& 3 t^2 \eta^4 v_0^2 w_3^2 - 8 t^3 \eta^4 v_0^2 w_3^2 + 13 t^4 \eta^4 v_0^2 w_3^2 - 8 t^5 \eta^4 v_0^2 w_3^2 + 3 t^6 \eta^4 v_0^2 w_3^2 - 8 t \eta^2 v_0 v_{x\$1016} w_3^2 + 44 t^2 \eta^2 v_0 v_{x\$1016} w_3^2 - \\
& 112 t^3 \eta^2 v_0 v_{x\$1016} w_3^2 + 156 t^4 \eta^2 v_0 v_{x\$1016} w_3^2 - 112 t^5 \eta^2 v_0 v_{x\$1016} w_3^2 + 16 t^6 \eta^2 v_0 v_{x\$1016} w_3^2 + 32 t^7 \eta^2 v_0 v_{x\$1016} w_3^2 - \\
& 16 t^8 \eta^2 v_0 v_{x\$1016} w_3^2 - 4 t \eta^3 v_0 v_{x\$1016} w_3^2 + 22 t^2 \eta^3 v_0 v_{x\$1016} w_3^2 - 58 t^3 \eta^3 v_0 v_{x\$1016} w_3^2 + 88 t^4 \eta^3 v_0 v_{x\$1016} w_3^2 - \\
& 80 t^5 \eta^3 v_0 v_{x\$1016} w_3^2 + 40 t^6 \eta^3 v_0 v_{x\$1016} w_3^2 - 8 t^7 \eta^3 v_0 v_{x\$1016} w_3^2 + 4 t \eta^4 v_0 v_{x\$1016} w_3^2 - 16 t^2 \eta^4 v_0 v_{x\$1016} w_3^2 + 24 t^3 \eta^4 v_0 v_{x\$1016} w_3^2 - \\
& 12 t^4 \eta^4 v_0 v_{x\$1016} w_3^2 - 16 t^5 \eta^4 v_0 v_{x\$1016} w_3^2 + 20 t^6 \eta^4 v_0 v_{x\$1016} w_3^2 - 2 t^4 \eta^5 v_0 v_{x\$1016} w_3^2 - 2 t^5 \eta^5 v_0 v_{x\$1016} w_3^2 + 4 \eta^2 v_{x\$1016}^2 w_3^2 - \\
& 36 t \eta^2 v_{x\$1016}^2 w_3^2 + 152 t^2 \eta^2 v_{x\$1016}^2 w_3^2 - 388 t^3 \eta^2 v_{x\$1016}^2 w_3^2 + 652 t^4 \eta^2 v_{x\$1016}^2 w_3^2 - 736 t^5 \eta^2 v_{x\$1016}^2 w_3^2 + 544 t^6 \eta^2 v_{x\$1016}^2 w_3^2 - \\
& 240 t^7 \eta^2 v_{x\$1016}^2 w_3^2 + 48 t^8 \eta^2 v_{x\$1016}^2 w_3^2 + 8 \eta^3 v_{x\$1016}^2 w_3^2 - 68 t \eta^3 v_{x\$1016}^2 w_3^2 + 258 t^2 \eta^3 v_{x\$1016}^2 w_3^2 - 574 t^3 \eta^3 v_{x\$1016}^2 w_3^2 + \\
& 808 t^4 \eta^3 v_{x\$1016}^2 w_3^2 - 720 t^5 \eta^3 v_{x\$1016}^2 w_3^2 + 376 t^6 \eta^3 v_{x\$1016}^2 w_3^2 - 88 t^7 \eta^3 v_{x\$1016}^2 w_3^2 + 4 \eta^4 v_{x\$1016}^2 w_3^2 - 32 t \eta^4 v_{x\$1016}^2 w_3^2 + \\
& 109 t^2 \eta^4 v_{x\$1016}^2 w_3^2 - 208 t^3 \eta^4 v_{x\$1016}^2 w_3^2 + 239 t^4 \eta^4 v_{x\$1016}^2 w_3^2 - 152 t^5 \eta^4 v_{x\$1016}^2 w_3^2 + 41 t^6 \eta^4 v_{x\$1016}^2 w_3^2 + 2 t^4 \eta^5 v_{x\$1016}^2 w_3^2 + \\
& 2 t^5 \eta^5 v_{x\$1016}^2 w_3^2 - 8 \eta v_0 w_{x\$1016} + 76 t \eta v_0 w_{x\$1016} - 348 t^2 \eta v_0 w_{x\$1016} + 996 t^3 \eta v_0 w_{x\$1016} - 1956 t^4 \eta v_0 w_{x\$1016} + \\
& 2736 t^5 \eta v_0 w_{x\$1016} - 2744 t^6 \eta v_0 w_{x\$1016} + 1936 t^7 \eta v_0 w_{x\$1016} - 912 t^8 \eta v_0 w_{x\$1016} + 256 t^9 \eta v_0 w_{x\$1016} - 32 t^{10} \eta v_0 w_{x\$1016} - \\
& 24 \eta^2 v_0 w_{x\$1016} + 208 t \eta^2 v_0 w_{x\$1016} - 852 t^2 \eta^2 v_0 w_{x\$1016} + 2140 t^3 \eta^2 v_0 w_{x\$1016} - 3588 t^4 \eta^2 v_0 w_{x\$1016} + 4108 t^5 \eta^2 v_0 w_{x\$1016} - \\
& 3152 t^6 \eta^2 v_0 w_{x\$1016} + 1512 t^7 \eta^2 v_0 w_{x\$1016} - 384 t^8 \eta^2 v_0 w_{x\$1016} + 32 t^9 \eta^2 v_0 w_{x\$1016} - 24 \eta^3 v_0 w_{x\$1016} + 188 t \eta^3 v_0 w_{x\$1016} - \\
& 688 t^2 \eta^3 v_0 w_{x\$1016} + 1512 t^3 \eta^3 v_0 w_{x\$1016} - 2132 t^4 \eta^3 v_0 w_{x\$1016} + 1904 t^5 \eta^3 v_0 w_{x\$1016} - 960 t^6 \eta^3 v_0 w_{x\$1016} + 176 t^7 \eta^3 v_0 w_{x\$1016} + \\
& 24 t^8 \eta^3 v_0 w_{x\$1016} - 8 \eta^4 v_0 w_{x\$1016} + 56 t \eta^4 v_0 w_{x\$1016} - 184 t^2 \eta^4 v_0 w_{x\$1016} + 352 t^3 \eta^4 v_0 w_{x\$1016} - 408 t^4 \eta^4 v_0 w_{x\$1016} + \\
& 256 t^5 \eta^4 v_0 w_{x\$1016} - 40 t^6 \eta^4 v_0 w_{x\$1016} - 24 t^7 \eta^4 v_0 w_{x\$1016} + 4 t^4 \eta^5 v_0 w_{x\$1016} - 4 t^6 \eta^5 v_0 w_{x\$1016} + 4 t^4 \eta^6 v_0 w_{x\$1016} + \\
& 4 t^5 \eta^6 v_0 w_{x\$1016} - 8 \eta c_0 v_0 w_{x\$1016} + 88 t \eta c_0 v_0 w_{x\$1016} - 456 t^2 \eta c_0 v_0 w_{x\$1016} + 1464 t^3 \eta c_0 v_0 w_{x\$1016} - 3216 t^4 \eta c_0 v_0 w_{x\$1016} + \\
& 5040 t^5 \eta c_0 v_0 w_{x\$1016} - 5696 t^6 \eta c_0 v_0 w_{x\$1016} + 4576 t^7 \eta c_0 v_0 w_{x\$1016} - 2496 t^8 \eta c_0 v_0 w_{x\$1016} + 832 t^9 \eta c_0 v_0 w_{x\$1016} - \\
& 128 t^{10} \eta c_0 v_0 w_{x\$1016} - 24 \eta^2 c_0 v_0 w_{x\$1016} + 244 t \eta^2 c_0 v_0 w_{x\$1016} - 1152 t^2 \eta^2 c_0 v_0 w_{x\$1016} + 3324 t^3 \eta^2 c_0 v_0 w_{x\$1016} - \\
& 6448 t^4 \eta^2 c_0 v_0 w_{x\$1016} + 8712 t^5 \eta^2 c_0 v_0 w_{x\$1016} - 8192 t^6 \eta^2 c_0 v_0 w_{x\$1016} + 5168 t^7 \eta^2 c_0 v_0 w_{x\$1016} - 1984 t^8 \eta^2 c_0 v_0 w_{x\$1016} + \\
& 352 t^9 \eta^2 c_0 v_0 w_{x\$1016} - 24 \eta^3 c_0 v_0 w_{x\$1016} + 224 t \eta^3 c_0 v_0 w_{x\$1016} - 952 t^2 \eta^3 c_0 v_0 w_{x\$1016} + 2432 t^3 \eta^3 c_0 v_0 w_{x\$1016} - \\
& 4080 t^4 \eta^3 c_0 v_0 w_{x\$1016} + 4608 t^5 \eta^3 c_0 v_0 w_{x\$1016} - 3424 t^6 \eta^3 c_0 v_0 w_{x\$1016} + 1536 t^7 \eta^3 c_0 v_0 w_{x\$1016} - 320 t^8 \eta^3 c_0 v_0 w_{x\$1016} - \\
& 8 \eta^4 c_0 v_0 w_{x\$1016} + 68 t \eta^4 c_0 v_0 w_{x\$1016} - 256 t^2 \eta^4 c_0 v_0 w_{x\$1016} + 568 t^3 \eta^4 c_0 v_0 w_{x\$1016} - 800 t^4 \eta^4 c_0 v_0 w_{x\$1016} + \\
& 720 t^5 \eta^4 c_0 v_0 w_{x\$1016} - 384 t^6 \eta^4 c_0 v_0 w_{x\$1016} + 96 t^7 \eta^4 c_0 v_0 w_{x\$1016} + 8 \eta c_3 v_0 w_{x\$1016} - 88 t \eta c_3 v_0 w_{x\$1016} + \\
& 456 t^2 \eta c_3 v_0 w_{x\$1016} - 1464 t^3 \eta c_3 v_0 w_{x\$1016} + 3216 t^4 \eta c_3 v_0 w_{x\$1016} - 5040 t^5 \eta c_3 v_0 w_{x\$1016} + 5696 t^6 \eta c_3 v_0 w_{x\$1016} - \\
& 4576 t^7 \eta c_3 v_0 w_{x\$1016} + 2496 t^8 \eta c_3 v_0 w_{x\$1016} - 832 t^9 \eta c_3 v_0 w_{x\$1016} + 128 t^{10} \eta c_3 v_0 w_{x\$1016} + 24 \eta^2 c_3 v_0 w_{x\$1016} - \\
& 232 t \eta^2 c_3 v_0 w_{x\$1016} + 1072 t^2 \eta^2 c_3 v_0 w_{x\$1016} - 3080 t^3 \eta^2 c_3 v_0 w_{x\$1016} + 6024 t^4 \eta^2 c_3 v_0 w_{x\$1016} - 8288 t^5 \eta^2 c_3 v_0 w_{x\$1016} + \\
& 8000 t^6 \eta^2 c_3 v_0 w_{x\$1016} - 5216 t^7 \eta^2 c_3 v_0 w_{x\$1016} + 2080 t^8 \eta^2 c_3 v_0 w_{x\$1016} - 384 t^9 \eta^2 c_3 v_0 w_{x\$1016} + 24 \eta^3 c_3 v_0 w_{x\$1016} - \\
& 200 t \eta^3 c_3 v_0 w_{x\$1016} + 816 t^2 \eta^3 c_3 v_0 w_{x\$1016} - 2080 t^3 \eta^3 c_3 v_0 w_{x\$1016} + 3584 t^4 \eta^3 c_3 v_0 w_{x\$1016} - 4256 t^5 \eta^3 c_3 v_0 w_{x\$1016} + \\
& 3392 t^6 \eta^3 c_3 v_0 w_{x\$1016} - 1664 t^7 \eta^3 c_3 v_0 w_{x\$1016} + 384 t^8 \eta^3 c_3 v_0 w_{x\$1016} + 8 \eta^4 c_3 v_0 w_{x\$1016} - 56 t \eta^4 c_3 v_0 w_{x\$1016} + \\
& 200 t^2 \eta^4 c_3 v_0 w_{x\$1016} - 448 t^3 \eta^4 c_3 v_0 w_{x\$1016} + 672 t^4 \eta^4 c_3 v_0 w_{x\$1016} - 672 t^5 \eta^4 c_3 v_0 w_{x\$1016} + 416 t^6 \eta^4 c_3 v_0 w_{x\$1016} - \\
& 128 t^7 \eta^4 c_3 v_0 w_{x\$1016} + 4 t^4 \eta^4 c_{x\$1016} v_0 w_{x\$1016} - 4 t^5 \eta^4 c_{x\$1016} v_0 w_{x\$1016} - 4 t^6 \eta^4 c_{x\$1016} v_0 w_{x\$1016} + 4 t^7 \eta^4 c_{x\$1016} v_0 w_{x\$1016} + \\
& 8 t^4 \eta^5 c_{x\$1016} v_0 w_{x\$1016} - 8 t^6 \eta^5 c_{x\$1016} v_0 w_{x\$1016} + 4 t^4 \eta^6 c_{x\$1016} v_0 w_{x\$1016} + 4 t^5 \eta^6 c_{x\$1016} v_0 w_{x\$1016} + 4 t \eta^2 v_{x\$1016} w_{x\$1016} - \\
& 32 t^2 \eta^2 v_{x\$1016} w_{x\$1016} + 108 t^3 \eta^2 v_{x\$1016} w_{x\$1016} - 216 t^4 \eta^2 v_{x\$1016} w_{x\$1016} + 288 t^5 \eta^2 v_{x\$1016} w_{x\$1016} - 272 t^6 \eta^2 v_{x\$1016} w_{x\$1016} + \\
& 184 t^7 \eta^2 v_{x\$1016} w_{x\$1016} - 80 t^8 \eta^2 v_{x\$1016} w_{x\$1016} + 16 t^9 \eta^2 v_{x\$1016} w_{x\$1016} + 8 t \eta^3 v_{x\$1016} w_{x\$1016} - 44 t^2 \eta^3 v_{x\$1016} w_{x\$1016} + \\
& 104 t^3 \eta^3 v_{x\$1016} w_{x\$1016} - 140 t^4 \eta^3 v_{x\$1016} w_{x\$1016} + 128 t^5 \eta^3 v_{x\$1016} w_{x\$1016} - 112 t^6 \eta^3 v_{x\$1016} w_{x\$1016} + 80 t^7 \eta^3 v_{x\$1016} w_{x\$1016} - \\
& 24 t^8 \eta^3 v_{x\$1016} w_{x\$1016} + 4 t \eta^4 v_{x\$1016} w_{x\$1016} - 12 t^2 \eta^4 v_{x\$1016} w_{x\$1016} + 12 t^3 \eta^4 v_{x\$1016} w_{x\$1016} + 4 t^4 \eta^4 v_{x\$1016} w_{x\$1016} - \\
& 12 t^5 \eta^4 v_{x\$1016} w_{x\$1016} - 4 t^6 \eta^4 v_{x\$1016} w_{x\$1016} + 4 t^7 \eta^4 v_{x\$1016} w_{x\$1016} - 12 t^4 \eta^5 v_{x\$1016} w_{x\$1016} + 12 t^6 \eta^5 v_{x\$1016} w_{x\$1016} - \\
& 8 t^4 \eta^6 v_{x\$1016} w_{x\$1016} - 8 t^5 \eta^6 v_{x\$1016} w_{x\$1016} - 4 t \eta^2 c_0 v_{x\$1016} w_{x\$1016} + 24 t^2 \eta^2 c_0 v_{x\$1016} w_{x\$1016} - 60 t^3 \eta^2 c_0 v_{x\$1016} w_{x\$1016} + \\
& 64 t^4 \eta^2 c_0 v_{x\$1016} w_{x\$1016} + 24 t^5 \eta^2 c_0 v_{x\$1016} w_{x\$1016} - 160 t^6 \eta^2 c_0 v_{x\$1016} w_{x\$1016} + 208 t^7 \eta^2 c_0 v_{x\$1016} w_{x\$1016} - \\
& 128 t^8 \eta^2 c_0 v_{x\$1016} w_{x\$1016} + 32 t^9 \eta^2 c_0 v_{x\$1016} w_{x\$1016} - 8 t \eta^3 c_0 v_{x\$1016} w_{x\$1016} + 40 t^2 \eta^3 c_0 v_{x\$1016} w_{x\$1016} - 80 t^3 \eta^3 c_0 v_{x\$1016} w_{x\$1016} + \\
& 48 t^4 \eta^3 c_0 v_{x\$1016} w_{x\$1016} + 96 t^5 \eta^3 c_0 v_{x\$1016} w_{x\$1016} - 224 t^6 \eta^3 c_0 v_{x\$1016} w_{x\$1016} + 192 t^7 \eta^3 c_0 v_{x\$1016} w_{x\$1016} - \\
& 64 t^8 \eta^3 c_0 v_{x\$1016} w_{x\$1016} - 4 t \eta^4 c_0 v_{x\$1016} w_{x\$1016} + 16 t^2 \eta^4 c_0 v_{x\$1016} w_{x\$1016} - 24 t^3 \eta^4 c_0 v_{x\$1016} w_{x\$1016} + 48 t^5 \eta^4 c_0 v_{x\$1016} w_{x\$1016} - \\
& 64 t^6 \eta^4 c_0 v_{x\$1016} w_{x\$1016} + 32 t^7 \eta^4 c_0 v_{x\$1016} w_{x\$1016} - 8 t \eta^2 c_3 v_{x\$1016} w_{x\$1016} + 56 t^2 \eta^2 c_3 v_{x\$1016} w_{x\$1016} - 184 t^3 \eta^2 c_3 v_{x\$1016} w_{x\$1016} + \\
& 360 t^4 \eta^2 c_3 v_{x\$1016} w_{x\$1016} - 448 t^5 \eta^2 c_3 v_{x\$1016} w_{x\$1016} + 352 t^6 \eta^2 c_3 v_{x\$1016} w_{x\$1016} - 160 t^7 \eta^2 c_3 v_{x\$1016} w_{x\$1016} + \\
& 32 t^8 \eta^2 c_3 v_{x\$1016} w_{x\$1016} - 16 t \eta^3 c_3 v_{x\$1016} w_{x\$1016} + 96 t^2 \eta^3 c_3 v_{x\$1016} w_{x\$1016} - 272 t^3 \eta^3 c_3 v_{x\$1016} w_{x\$1016} + \\
& 448 t^4 \eta^3 c_3 v_{x\$1016} w_{x\$1016} - 448 t^5 \eta^3 c_3 v_{x\$1016} w_{x\$1016} + 256 t^6 \eta^3 c_3 v_{x\$1016} w_{x\$1016} - 64 t^7 \eta^3 c_3 v_{x\$1016} w_{x\$1016} - \\
& 8 t \eta^4 c_3 v_{x\$1016} w_{x\$1016} + 40 t^2 \eta^4 c_3 v_{x\$1016} w_{x\$1016} - 96 t^3 \eta^4 c_3 v_{x\$1016} w_{x\$1016} + 128 t^4 \eta^4 c_3 v_{x\$1016} w_{x\$1016} - 96 t^5 \eta^4 c_3 v_{x\$1016} w_{x\$1016} + \\
& 32 t^6 \eta^4 c_3 v_{x\$1016} w_{x\$1016} - 4 t^4 \eta^4 c_{x\$1016} v_{x\$1016} w_{x\$1016} + 4 t^5 \eta^4 c_{x\$1016} v_{x\$1016} w_{x\$1016} + 4 t^6 \eta^4 c_{x\$1016} v_{x\$1016} w_{x\$1016} - \\
& 4 t^7 \eta^4 c_{x\$1016} v_{x\$1016} w_{x\$1016} - 8 t^4 \eta^5 c_{x\$1016} v_{x\$1016} w_{x\$1016} + 8 t^6 \eta^5 c_{x\$1016} v_{x\$1016} w_{x\$1016} - 4 t^4 \eta^6 c_{x\$1016} v_{x\$1016} w_{x\$1016} - \\
& 4 t^5 \eta^6 c_{x\$1016} v_{x\$1016} w_{x\$1016} - 8 t \eta^2 v_0^2 w_3 w_{x\$1016} + 36 t^2 \eta^2 v_0^2 w_3 w_{x\$1016} - 64 t^3 \eta^2 v_0^2 w_3 w_{x\$1016} + 20 t^4 \eta^2 v_0^2 w_3 w_{x\$1016} + \\
& 112 t^5 \eta^2 v_0^2 w_3 w_{x\$1016} - 208 t^6 \eta^2 v_0^2 w_3 w_{x\$1016} + 160 t^7 \eta^2 v_0^2 w_3 w_{x\$1016} - 48 t^8 \eta^2 v_0^2 w_3 w_{x\$1016} - 4 t \eta^3 v_0^2 w_3 w_{x\$1016} + \\
& 10 t^2 \eta^3 v_0^2 w_3 w_{x\$1016} + 2 t^3 \eta^3 v_0^2 w_3 w_{x\$1016} - 56 t^4 \eta^3 v_0^2 w_3 w_{x\$1016} + 112 t^5 \eta^3 v_0^2 w_3 w_{x\$1016} - 104 t^6 \eta^3 v_0^2 w_3 w_{x\$1016} + \\
& 40 t^7 \eta^3 v_0^2 w_3 w_{x\$1016} + 4 t \eta^4 v_0^2 w_3 w_{x\$1016} - 20 t^2 \eta^4 v_0^2 w_3 w_{x\$1016} + 40 t^3 \eta^4 v_0^2 w_3 w_{x\$1016} - 44 t^4 \eta^4 v_0^2 w_3 w_{x\$1016} + 16 t^5 \eta^4 v_0^2 w_3 w_{x\$1016} + \\
& 4 t^6 \eta^4 v_0^2 w_3 w_{x\$1016} - 2 t^4 \eta^5 v_0^2 w_3 w_{x\$1016} - 2 t^5 \eta^5 v_0^2 w_3 w_{x\$1016} - 8 \eta^2 v_0 v_{x\$1016} w_3 w_{x\$1016} + 80 t \eta^2 v_0 v_{x\$1016} w_3 w_{x\$1016} - \\
& 348 t^2 \eta^2 v_0 v_{x\$1016} w_3 w_{x\$1016} + 888 t^3 \eta^2 v_0 v_{x\$1016} w_3 w_{x\$1016} - 1460 t^4 \eta^2 v_0 v_{x\$1016} w_3 w_{x\$1016} + 1584 t^5 \eta^2 v_0 v_{x\$1016} w_3 w_{x\$1016} - \\
& 1104 t^6 \eta^2 v_0 v_{x\$1016} w_3 w_{x\$1016} + 448 t^7 \eta^2 v_0 v_{x\$1016} w_3 w_{x\$1016} - 80 t^8 \eta^2 v_0 v_{x\$1016} w_3 w_{x\$1016} - 16 \eta^3 v_0 v_{x\$1016} w_3 w_{x\$1016} + \\
& 128 t \eta^3 v_0 v_{x\$1016} w_3 w_{x\$1016} - 488 t^2 \eta^3 v_0 v_{x\$1016} w_3 w_{x\$1016} + 1112 t^3 \eta^3 v_0 v_{x\$1016} w_3 w_{x\$1016} - 1632 t^4 \eta^3 v_0 v_{x\$1016} w_3 w_{x\$1016} + \\
& 1536 t^5 \eta^3 v_0 v_{x\$1016} w_3 w_{x\$1016} - 864 t^6 \eta^3 v_0 v_{x\$1016} w_3 w_{x\$1016} + 224 t^7 \eta^3 v_0 v_{x\$1016} w_3 w_{x\$1016} - 8 \eta^4 v_0 v_{x\$1016} w_3 w_{x\$1016} +
\end{aligned}$$

$$\begin{aligned}
& 48 t^4 v_0 v_{x\$1016} w_3 w_{x\$1016} - 152 t^2 \eta^4 v_0 v_{x\$1016} w_3 w_{x\$1016} + 304 t^3 \eta^4 v_0 v_{x\$1016} w_3 w_{x\$1016} - 388 t^4 \eta^4 v_0 v_{x\$1016} w_3 w_{x\$1016} + \\
& 320 t^5 \eta^4 v_0 v_{x\$1016} w_3 w_{x\$1016} - 140 t^6 \eta^4 v_0 v_{x\$1016} w_3 w_{x\$1016} + 8 t^4 \eta^5 v_0 v_{x\$1016} w_3 w_{x\$1016} + 8 t^5 \eta^5 v_0 v_{x\$1016} w_3 w_{x\$1016} + \\
& 4 t \eta^3 v_{x\$1016}^2 w_3 w_{x\$1016} - 18 t^2 \eta^3 v_{x\$1016}^2 w_3 w_{x\$1016} + 38 t^3 \eta^3 v_{x\$1016}^2 w_3 w_{x\$1016} - 40 t^4 \eta^3 v_{x\$1016}^2 w_3 w_{x\$1016} + 16 t^5 \eta^3 v_{x\$1016}^2 w_3 w_{x\$1016} + \\
& 8 t^6 \eta^3 v_{x\$1016}^2 w_3 w_{x\$1016} - 8 t^7 \eta^3 v_{x\$1016}^2 w_3 w_{x\$1016} + 4 t \eta^4 v_{x\$1016}^2 w_3 w_{x\$1016} - 20 t^2 \eta^4 v_{x\$1016}^2 w_3 w_{x\$1016} + 40 t^3 \eta^4 v_{x\$1016}^2 w_3 w_{x\$1016} - \\
& 48 t^4 \eta^4 v_{x\$1016}^2 w_3 w_{x\$1016} + 16 t^5 \eta^4 v_{x\$1016}^2 w_3 w_{x\$1016} + 8 t^6 \eta^4 v_{x\$1016}^2 w_3 w_{x\$1016} - 6 t^4 \eta^5 v_{x\$1016}^2 w_3 w_{x\$1016} - 6 t^5 \eta^5 v_{x\$1016}^2 w_3 w_{x\$1016} + \\
& 4 \eta^2 v_0^2 w_{x\$1016}^2 - 36 t \eta^2 v_0^2 w_{x\$1016}^2 + 156 t^2 \eta^2 v_0^2 w_{x\$1016}^2 - 412 t^3 \eta^2 v_0^2 w_{x\$1016}^2 + 720 t^4 \eta^2 v_0^2 w_{x\$1016}^2 - 848 t^5 \eta^2 v_0^2 w_{x\$1016}^2 + \\
& 656 t^6 \eta^2 v_0^2 w_{x\$1016}^2 - 304 t^7 \eta^2 v_0^2 w_{x\$1016}^2 + 64 t^8 \eta^2 v_0^2 w_{x\$1016}^2 + 8 \eta^3 v_0^2 w_{x\$1016}^2 - 68 t \eta^3 v_0^2 w_{x\$1016}^2 + 262 t^2 \eta^3 v_0^2 w_{x\$1016}^2 - \\
& 594 t^3 \eta^3 v_0^2 w_{x\$1016}^2 + 856 t^4 \eta^3 v_0^2 w_{x\$1016}^2 - 784 t^5 \eta^3 v_0^2 w_{x\$1016}^2 + 424 t^6 \eta^3 v_0^2 w_{x\$1016}^2 - 104 t^7 \eta^3 v_0^2 w_{x\$1016}^2 + 4 \eta^4 v_0^2 w_{x\$1016}^2 - \\
& 32 t \eta^4 v_0^2 w_{x\$1016}^2 + 109 t^2 \eta^4 v_0^2 w_{x\$1016}^2 - 208 t^3 \eta^4 v_0^2 w_{x\$1016}^2 + 239 t^4 \eta^4 v_0^2 w_{x\$1016}^2 - 152 t^5 \eta^4 v_0^2 w_{x\$1016}^2 + 41 t^6 \eta^4 v_0^2 w_{x\$1016}^2 + \\
& 2 t^4 \eta^5 v_0^2 w_{x\$1016}^2 + 2 t^5 \eta^5 v_0^2 w_{x\$1016}^2 + 4 t \eta^3 v_0 v_{x\$1016} w_{x\$1016}^2 - 14 t^2 \eta^3 v_0 v_{x\$1016} w_{x\$1016}^2 + 18 t^3 \eta^3 v_0 v_{x\$1016} w_{x\$1016}^2 + \\
& 8 t^4 \eta^3 v_0 v_{x\$1016} w_{x\$1016}^2 - 48 t^5 \eta^3 v_0 v_{x\$1016} w_{x\$1016}^2 + 56 t^6 \eta^3 v_0 v_{x\$1016} w_{x\$1016}^2 - 24 t^7 \eta^3 v_0 v_{x\$1016} w_{x\$1016}^2 + 4 t \eta^4 v_0 v_{x\$1016} w_{x\$1016}^2 - \\
& 16 t^2 \eta^4 v_0 v_{x\$1016} w_{x\$1016}^2 + 24 t^3 \eta^4 v_0 v_{x\$1016} w_{x\$1016}^2 - 16 t^4 \eta^4 v_0 v_{x\$1016} w_{x\$1016}^2 - 16 t^5 \eta^4 v_0 v_{x\$1016} w_{x\$1016}^2 + \\
& 24 t^6 \eta^4 v_0 v_{x\$1016} w_{x\$1016}^2 - 6 t^4 \eta^5 v_0 v_{x\$1016} w_{x\$1016}^2 - 6 t^5 \eta^5 v_0 v_{x\$1016} w_{x\$1016}^2 + 3 t^2 \eta^4 v_{x\$1016}^2 w_{x\$1016}^2 - 8 t^3 \eta^4 v_{x\$1016}^2 w_{x\$1016}^2 + \\
& 17 t^4 \eta^4 v_{x\$1016}^2 w_{x\$1016}^2 - 8 t^5 \eta^4 v_{x\$1016}^2 w_{x\$1016}^2 - t^6 \eta^4 v_{x\$1016}^2 w_{x\$1016}^2 + 4 t^4 \eta^5 v_{x\$1016}^2 w_{x\$1016}^2 + 4 t^5 \eta^5 v_{x\$1016}^2 w_{x\$1016}^2 \Big)
\end{aligned}$$

$$\left\{ 1.65625, \mathbb{E} \left[-1 + \frac{1}{t} + t, 0, 0, -16 - \frac{2}{t^4} + \frac{2c}{t^4} + \frac{7}{t^3} - \frac{6c}{t^3} - \frac{14}{t^2} + \frac{10c}{t^2} + \frac{18}{t} - \frac{8c}{t} + 10t + 8ct - 4t^2 - 10ct^2 + t^3 + 6ct^3 - 2ct^4 + 2vw - \frac{2vw}{t^4} + \frac{4vw}{t^3} - \frac{6vw}{t^2} + \frac{2vw}{t} - 6tvw + 4t^2vw - 2t^3vw \right] \right\}$$

Beyond The Trefoil

Timing[Z[Knot[10, 100]]]

BeginProfile[];

Timing[Z[Knot[10, 100]]]

EndProfile[];

$$\left\{ 119.047, \mathbb{E} \left[13 + \frac{1}{t^4} - \frac{4}{t^3} + \frac{9}{t^2} - \frac{12}{t} - 12t + 9t^2 - 4t^3 + t^4, 0, 0, -2563146 - \frac{6}{t^{16}} + \frac{8c}{t^{16}} + \frac{92}{t^{15}} - \frac{120c}{t^{15}} - \frac{723}{t^{14}} + \frac{924c}{t^{14}} + \frac{3818}{t^{13}} - \frac{4784c}{t^{13}} - \frac{15133}{t^{12}} + \frac{18588c}{t^{12}} + \frac{47848}{t^{11}} - \frac{57552c}{t^{11}} - \frac{125539}{t^{10}} + \frac{147540c}{t^{10}} + \frac{281054}{t^9} - \frac{321552c}{t^9} - \frac{548129}{t^8} + \frac{606988c}{t^8} + \frac{945756}{t^7} - \frac{1004976c}{t^7} - \frac{1460263}{t^6} + \frac{1469820c}{t^6} + \frac{2034106}{t^5} - \frac{1901560c}{t^5} - \frac{2570432}{t^4} + \frac{2163176c}{t^4} + \frac{2956518}{t^3} - \frac{2123520c}{t^3} - \frac{3099338}{t^2} + \frac{1711728c}{t^2} + \frac{2958726}{t} - \frac{958272c}{t} + 2000454t + 958272ct - 1387610t^2 - 1711728ct^2 + 832998t^3 + 2123520ct^3 - 407256t^4 - 2163176ct^4 + 132546t^5 + 1901560ct^5 + 9557t^6 - 1469820ct^6 - 59220t^7 + 1004976ct^7 + 58859t^8 - 606988ct^8 - 40498t^9 + 321552ct^9 + 22001t^{10} - 147540ct^{10} - 9704t^{11} + 57552ct^{11} + 3455t^{12} - 18588ct^{12} - 966t^{13} + 4784ct^{13} + 201t^{14} - 924ct^{14} - 28t^{15} + 120ct^{15} + 2t^{16} - 8ct^{16} + 253564vw - \frac{8vw}{t^{16}} + \frac{112vw}{t^{15}} - \frac{812vw}{t^{14}} + \frac{3972vw}{t^{13}} - \frac{14616vw}{t^{12}} + \frac{42936vw}{t^{11}} - \frac{104604vw}{t^{10}} + \frac{216948vw}{t^9} - \frac{390040vw}{t^8} + \frac{614936vw}{t^7} - \frac{854884vw}{t^6} + \frac{1046676vw}{t^5} - \frac{1116500vw}{t^4} + \frac{1007020vw}{t^3} - \frac{704708vw}{t^2} + \frac{253564vw}{t} + 704708tvw + 1007020t^2vw - 1116500t^3vw + 1046676t^4vw - 854884t^5vw + 614936t^6vw - 390040t^7vw + 216948t^8vw - 104604t^9vw + 42936t^{10}vw - 14616t^{11}vw + 3972t^{12}vw - 812t^{13}vw + 112t^{14}vw - 8t^{15}vw \right] \right\}$$

PrintProfile[];

Together4P: called 2765 times, time in 71.608/71.608

Parents:

(380) 5.704/ 5.704 under CF

(2385) 65.904/ 65.904 under CF4P

CF4P: called 100 times, time in 44.672/110.576

Parents:

(100) 44.672/ 110.580 under CF2

Children:

(2385) 65.904/ 65.904 above Together4P

DP: called 300 times, time in 1.329/1.329

Parents:

(200) 1.078/ 1.078 under Ncx

(100) 0.251/ 0.251 under Nwv

CF: called 380 times, time in 0.596/6.3

Parents:

(100) 0.111/ 1.048 under m

(200) 0.437/ 4.907 under Ncx

(80) 0.048/ 0.345 under z

Children:

(380) 5.704/ 5.704 above Together4P

Ncx: called 200 times, time in 0.278/6.263

Parents:

(200) 0.278/ 6.263 under m

Children:

(200) 0.437/ 4.907 above CF

(200) 1.078/ 1.078 above DP

Nwv: called 100 times, time in 0.25/111.219

Parents:

(100) 0.250/ 111.220 under m

Children:

(100) 0.142/ 110.720 above CF2

(100) 0.251/ 0.251 above DP

m: called 100 times, time in 0.172/118.702

Parents:

(100) 0.172/ 118.700 under z

Children:

(100) 0.111/ 1.048 above CF

(200) 0.278/ 6.263 above Ncx

(100) 0.250/ 111.220 above Nwv

CF2: called 100 times, time in 0.142/110.718

Parents:

(100) 0.142/ 110.720 under Nwv

Children:

```
( 100) 44.672/ 110.580 above CF4P
```

```
z: called 1 times, time in 0./119.047
```

```
Parents:
```

```
( 1) 0.000/ 119.050 under ProfileRoot
```

```
Children:
```

```
( 80) 0.048/ 0.345 above CF
```

```
( 100) 0.172/ 118.700 above m
```

```
ProfileRoot: called 0 times, time in 0./0.
```

```
Children:
```

```
( 1) 0.000/ 119.050 above z
```

Testing $T_{9,5}$...

```
BeginProfile[];  
Timing[Z[TorusKnot[9, 5]]]  
EndProfile[];  
PrintProfile[];
```