Pensieve header: Andrea Overbay's P1/P2 program. Modified from "p1 and p2.nb" by DBN.

In[ ]:=
```
(*SetDirectory["~/AcademicPensieve/People/Overbay"];*)
SetDirectory["C:\\drorbn\\AcademicPensieve\\People\\Overbay"]
```

Out[ ]= C:\drorbn\AcademicPensieve\People\Overbay

In[ ]:=
```
OverbayP2Data = Get["OverbayP2Data.m"];
OP2[K_Knot] := K /. OverbayP2Data /. T → t
```

In[ ]:=
```
OP12[Knot[n_, k_]] := OP12[{n, k}];
OP12[knot_List] := OP12[knot] = Module[
    {initialcrossing, initialmatrix, braidword, Quad, A, F,
     HigherOrder, kerbeforesub, keraftersub, exp2, poly, poly2, tr, n, p1, p2,
     f, HO, INV, Matrix, Imatrix, alex, amp, d, z, trace, Sz, Sder, ISz, ISder,
     Higher, h, Der, w, x, g, a, test3, test4, list, firstcrossing, firstmatrix,
     rep2, rep3, rep4, rep5, rep6, qh, p, Inv, NO3, subd, subz, qhend3,
     test1, test2, q, HigherOrder3, kerbeforesub3, sub, sub3, sub4, sub5, series},
    f[{i_, n_}] :=
     If[n > 0, ConstantArray[{i, i + 1}, {n}], ConstantArray[{i + 1, i}, {-n}]];
    list = Flatten[f /@ Echo[KnotData[knot, "BraidWord"]]];
    initialcrossing = firstcrossing[Take[list, {1, 2}]];
    initialmatrix = firstmatrix[Take[list, {1, 2}]];
    braidword = Sequence[Partition[Take[list, 2 - Length[list]], 2]];
    n = KnotData[knot, "BraidIndex"];
    firstcrossing[{x_, y_}] := If[x < y, HO_{x,y}, INV_{y,x}] ;
    firstmatrix[{x_, y_}] := If[x < y, Matrix_{x,y}, Imatrix_{y,x}];
    alex = KnotData[knot, "AlexanderPolynomial"][t^2];
    amp = KnotData[knot, "Amphichiral"];
    rep2[i_, j_] := Which[i == j == 0, 1, True,
      ((i! j! Coefficient[exp2, d_2^i z_2^j]) /. {z_2 → 0, d_2 → 0})];
    rep3[i_, j_, k_, l_] := Which[i == j == k == l == 0, 1, True,
      ((i! j! k! l! Coefficient[exp2, d_2^i z_2^j d_3^k z_3^l]) /.
        {z_2 → 0, d_2 → 0, z_3 → 0, d_3 → 0})];
    rep4[i_, j_, k_, l_, m_, n_] := Which[i == j == k == l == m == n == 0, 1, True,
      ((i! j! k! l! m! n! Coefficient[exp2, d_2^i z_2^j d_3^k z_3^l d_4^m z_4^n]) /.
        {z_2 → 0, d_2 → 0, z_3 → 0, d_3 → 0, z_4 → 0, d_4 → 0})];
    rep5[i_, j_, k_, l_, m_, n_, o_, p_] := Which[i == j == k == l == m == n == o == p == 0, 1,
      True, ((i! j! k! l! m! n! o! p! Coefficient[exp2, d_2^i z_2^j d_3^k z_3^l d_4^m z_4^n d_5^o
         z_5^p]) /. {z_2 → 0, d_2 → 0, z_3 → 0, d_3 → 0, z_4 → 0, d_4 → 0, z_5 → 0, d_5 → 0})];
    rep6[i_, j_, k_, l_, m_, n_, o_, p_, q_, r_] := Which[i == j == k == l == m ==
      n == o == p == q == r == 0, 1, True, ((i! j! k! l! m! n! o! p! q! r!
         Coefficient[exp2, d_2^i z_2^j d_3^k z_3^l d_4^m z_4^n d_5^o z_5^p d_6^q z_6^r]) /.
        {z_2 → 0, d_2 → 0, z_3 → 0, d_3 → 0, z_4 → 0, d_4 → 0, z_5 → 0, d_5 → 0, z_6 → 0, d_6 → 0})];
    trace_2[s_] := Expand[Plus @@ (s /. Rule[{a_, b_}, c_] ⧴ rep2[a, b] c)];
    trace_3[s_] := Expand[Plus @@ (s /. Rule[{a_, b_, e_, f_}, c_] ⧴ rep3[a, b, e, f] c)];
    trace_4[s_] :=
     Expand[Plus @@ (s /. Rule[{a_, b_, e_, f_, g_, h_}, c_] ⧴ rep4[a, b, e, f, g, h] c)];
```

```
trace₅[s_] := Expand[Plus @@ (s /. Rule[{a_, b_, e_, f_, g_, h_, i_, j_}, c_] :>
      rep5[a, b, e, f, g, h, i, j] c)];
trace₆[s_] := Expand[Plus @@ (s /. Rule[{a_, b_, e_, f_, g_, h_, i_, j_, k_, l_}, c_] :>
      rep6[a, b, e, f, g, h, i, j, k, l] c)];
qh[n_] := (1 + h Coefficient[Product[1 + 2 h zᵢ dᵢ, {i, 2, n}], h, 1] +
    h^2 Coefficient[Product[1 + 2 h zᵢ dᵢ + 2 h^2 (zᵢ dᵢ + zᵢ^2 dᵢ^2), {i, 2, n}], h, 2] +
    h^3 Coefficient[Product[1 + 2 h zᵢ dᵢ + 2 h^2 (zᵢ dᵢ + zᵢ^2 dᵢ^2) + (4/3) h^3
        (zᵢ dᵢ + 3 zᵢ² dᵢ² + zᵢ³ dᵢ^3), {i, 2, n}], h, 3] + h^4 Coefficient[Product[
      1 + 2 h zᵢ dᵢ + 2 h^2 (zᵢ dᵢ + zᵢ^2 dᵢ^2) + (4/3) h^3 (zᵢ dᵢ + 3 zᵢ² dᵢ² + zᵢ³ dᵢ^3) +
        (2/3) h^4 (zᵢ dᵢ + 7 zᵢ² dᵢ² + 6 zᵢ³ dᵢ³ + zᵢ⁴ dᵢ⁴), {i, 2, n}], h, 4]);
p_{L_,k_}[i_, j_] := Which[i == k && j == l, t, i == l && j == k, t, i == j == l,
  0, i == j == k, 1 - t^2, i == j, 1, True, 0];
Matrix_{L_,k_} := Array[p_{L,k}, {n, n}];
Imatrix_{L_,k_} := Inverse[Matrix_{L,k}];
Sz_{L_,k_}[z_j_] := Expand[Sum[zᵢ Imatrix_{L,k}[[i, j]], {i, 1, n}]];

Sder_{L_,k_}[d_j_] := Expand[Sum[Matrix_{L,k}[[i, j]] dᵢ, {i, 1, n}]];
ISz_{L_,k_}[z_j_] := Expand[Sum[zᵢ Matrix_{L,k}[[i, j]], {i, 1, n}]];
ISder_{L_,k_}[d_j_] := Expand[Sum[Imatrix_{L,k}[[i, j]] dᵢ, {i, 1, n}]];
Higher[a_, b_, w_, x_] :=
```

$$1 + h \left(2\,a\,b\,w\,x - \frac{2\,a^2\,w\,x}{t} + 2\,a^2\,t\,w\,x + 3\,a^2\,x^2 - \frac{a^2\,x^2}{t^2} + \frac{a\,b\,x^2}{t} - 3\,a\,b\,t\,x^2 - 2\,a^2\,t^2\,x^2\right) +$$

$$h^2 \left(2\,a\,b\,w\,x - \frac{2\,a^2\,w\,x}{t} + 2\,a^2\,t\,w\,x + 2\,a^2\,b\,w^2\,x - \frac{2\,a^3\,w^2\,x}{t} + 2\,a^3\,t\,w^2\,x + 5\,a^2\,x^2 - \frac{a^2\,x^2}{t^2} + \right.$$

$$\frac{a\,b\,x^2}{t} - 5\,a\,b\,t\,x^2 - 4\,a^2\,t^2\,x^2 + 4\,a^3\,w\,x^2 + 2\,a\,b^2\,w\,x^2 - \frac{2\,a^2\,b\,w\,x^2}{t} - 2\,a^2\,b\,t\,w\,x^2 -$$

$$4\,a^3\,t^2\,w\,x^2 - 4\,a^4\,w^2\,x^2 + 2\,a^2\,b^2\,w^2\,x^2 + \frac{2\,a^4\,w^2\,x^2}{t^2} - \frac{4\,a^3\,b\,w^2\,x^2}{t} + 4\,a^3\,b\,t\,w^2\,x^2 +$$

$$2\,a^4\,t^2\,w^2\,x^2 + \frac{10}{3}\,a^2\,b\,x^3 - \frac{2\,a^2\,b\,x^3}{3\,t^2} + \frac{4\,a^3\,x^3}{3\,t} + \frac{2\,a\,b^2\,x^3}{3\,t} - \frac{16}{3}\,a^3\,t\,x^3 - \frac{14}{3}\,a\,b^2\,t\,x^3 +$$

$$\frac{4}{3}\,a^2\,b\,t^2\,x^3 + 4\,a^3\,t^3\,x^3 + 14\,a^3\,b\,w\,x^3 + \frac{2\,a^4\,w\,x^3}{t^3} - \frac{4\,a^3\,b\,w\,x^3}{t^2} - \frac{8\,a^4\,w\,x^3}{t} + \frac{2\,a^2\,b^2\,w\,x^3}{t} +$$

$$10\,a^4\,t\,w\,x^3 - 6\,a^2\,b^2\,t\,w\,x^3 - 10\,a^3\,b\,t^2\,w\,x^3 - 4\,a^4\,t^3\,w\,x^3 + \frac{13\,a^4\,x^4}{2} - 3\,a^2\,b^2\,x^4 + \frac{a^4\,x^4}{2\,t^4} -$$

$$\frac{a^3\,b\,x^4}{t^3} - \frac{3\,a^4\,x^4}{t^2} + \frac{a^2\,b^2\,x^4}{2\,t^2} + \frac{6\,a^3\,b\,x^4}{t} - 11\,a^3\,b\,t\,x^4 - 6\,a^4\,t^2\,x^4 + \frac{9}{2}\,a^2\,b^2\,t^2\,x^4 + 6\,a^3 \times$$

$$b\,t^3\,x^4 + 2\,a^4\,t^4\,x^4\Big);$$

```
Inv[a_, b_, w_, x_] := 1 + h (b² w² + (a b w²)/t + a b t w² - b² t² w² - 2 a b w x) +
```

$$h^2 \left(b^2\,w^2 - \frac{a\,b\,w^2}{t} + a\,b\,t\,w^2 - b^2\,t^2\,w^2 + \frac{10}{3}\,a\,b^2\,w^3 + \frac{4\,a\,b^2\,w^3}{3\,t^2} - \frac{2\,a^2\,b\,w^3}{3\,t} + \frac{8\,b^3\,w^3}{3\,t} + \frac{2}{3}\,a^2\,b\,t\,w^3 - \right.$$

$$\frac{8}{3}\,b^3\,t\,w^3 - \frac{2}{3}\,a\,b^2\,t^2\,w^3 + a^2\,b^2\,w^4 + \frac{b^4\,w^4}{2} + \frac{a^2\,b^2\,w^4}{2\,t^2} + \frac{a\,b^3\,w^4}{t} + \frac{1}{2}\,a^2\,b^2\,t^2\,w^4 - b^4\,t^2\,w^4 -$$

$$a\, b^3\, t^3\, w^4 + \frac{1}{2}\, b^4\, t^4\, w^4 + 2\, a\, b\, w\, x + 2\, a^2\, b\, w^2\, x - 4\, b^3\, w^2\, x - \frac{4\, a\, b^2\, w^2\, x}{t} - 4\, a\, b^2\, t\, w^2\, x + 4\, b^3\, t^2$$

$$w^2\, x - 2\, a\, b^3\, w^3\, x - \frac{2\, a^2\, b^2\, w^3\, x}{t} - 2\, a^2\, b^2\, t\, w^3\, x + 2\, a\, b^3\, t^2\, w^3\, x + 2\, a\, b^2\, w\, x^2 + 2\, a^2\, b^2\, w^2\, x^2 \Big);$$

```
HO_{i_,j_} := Higher[z_i, z_j, d_i, d_j];
INV_{i_,j_} := Inv[z_i, z_j, d_i, d_j];
Der_{i_}[f_] := f + Sum[(1/k!) D[f, {w_i, k}, {x_i, k}], {k, 1, 8}];
NO3[l_, {i_, j_}] /; i < j :=
  (Der_j[Der_i[Expand[1 + h Coefficient[((l /. Flatten[Table[{z_k → Sz_{i,j}[z_k], d_k → Sder_{i,j}[
                  d_k]}, {k, 1, n}]]) /. {d_i → w_i, d_j → w_j}) * Higher[x_i, x_j, d_i, d_j],
          h, 1] + h^2 Coefficient[((l /. Flatten[Table[{z_k → Sz_{i,j}[z_k],
                  d_k → Sder_{i,j}[d_k]}, {k, 1, n}]]) /. {d_i → w_i, d_j → w_j}) *
              Higher[x_i, x_j, d_i, d_j], h, 2]]]]) /. {w_i → d_i, w_j → d_j, x_i → z_i, x_j → z_j};
NO3[l_, {i_, j_}] /; i > j := (Der_j[Der_i[Expand[1 + h Coefficient[
          ((l /. Flatten[Table[{z_k → ISz_{j,i}[z_k], d_k → ISder_{j,i}[d_k]}, {k, 1, n}]]) /.
              {d_i → w_i, d_j → w_j}) * Inv[x_j, x_i, d_j, d_i], h, 1] +
          h^2 Coefficient[((l /. Flatten[Table[{z_k → ISz_{j,i}[z_k], d_k → ISder_{j,i}[d_k]},
                  {k, 1, n}]]) /. {d_i → w_i, d_j → w_j}) *
              Inv[x_j, x_i, d_j, d_i], h, 2]]]]) /. {w_i → d_i, w_j → d_j, x_i → z_i, x_j → z_j};
subd = Flatten[Table[d_i → w_i, {i, 2, n}]];
subz = Flatten[Table[z_i → x_i, {i, 2, n}]];
g[l_, {x_, y_}] := If[x < y, l.(Matrix_{x,y}), l.(Imatrix_{y,x})];
qhend3[f_] := Expand[(f /. subd) +
    h (Coefficient[qh[n], h, 1] /. subz) + h^2 (Coefficient[qh[n], h, 2] /. subz) +
    h^2 ((Coefficient[f, h, 1] /. subd) * (Coefficient[qh[n], h, 1] /. subz))];
Quad = Expand[Fold[g, initialmatrix, braidword]];
a_{i_,j_} := If[i == j, Quad[[i, j]] - 1, Quad[[i, j]]];
A = Table[a_{i,j}, {i, 2, n}, {j, 2, n}];
F = Inverse[-A];
HigherOrder3 = Fold[NO3, initialcrossing, braidword];

kerbeforesub3 = ((l = qhend3[HigherOrder3];
      Do[l = Der_i[l], {i, 2, n, 1}];
      l) /. Flatten[Table[{x_i → z_i, w_i → d_i}, {i, 2, n}]]);
sub = Flatten[Table[z_k → Expand[Sum[Quad[[i, k]] z_i, {i, 1, n}]], {k, 1, n}]];
keraftersub = 1 + h Expand[Coefficient[kerbeforesub3 /. sub, h, 1]] +
    h^2 Expand[Coefficient[kerbeforesub3 /. sub, h, 2]];
sub3 = Flatten[Table[{z_i → z_i + Expand[
          Sum[F[[k, i - 1]] Quad[[1, k + 1]] z_1, {k, 1, n - 1}]], d_i ->
        d_i + Expand[Sum[F[[i - 1, l]] Quad[[l + 1, 1]] d_1, {l, 1, n - 1}]]}, {i, 2, n}]];
twopoly = 1 + h Expand[Coefficient[keraftersub /. sub3, h, 1]] +
    h^2 Expand[Coefficient[keraftersub /. sub3, h, 2]];
sub4 = Sum[(Expand[Sum[F[[i - 1, j - 1]] d_i z_j, {j, 2, n}, {i, 2, n}]])^i/i!,
    {i, 1, 10}];
exp2 = Expand[1 + sub4];
sub5 = Flatten[Table[{d_i, z_i}, {i, 2, n}]];
poly2 = CoefficientRules[twopoly, sub5];
tr = trace_n[poly2];
```

```
    test1 = Together[Coefficient[tr, h, 1]];
    test2 = Together[Coefficient[tr, h, 2]];
    p = If[amp == True,
      Cancel[Denominator[test1] / alex], Cancel[Denominator[test1] / alex^2]];
    q = If[amp == True, Cancel[Denominator[test2] / alex^3],
      Cancel[Denominator[test2] / alex^4]];
    series = If[amp == True, Normal[Series[

        ((((1 + h test1 + h^2 test2 + h^3 test3 + h^4 test4) (1 / alex)) /. {t → t Exp[h]})

          (alex) /. {h → h/2 - h^2/4}) /. {h → -Sqrt[1 + h] + 1 / Sqrt[1 + h]}, {h, 0, 2}]],

      Normal[Series[((((1 + h test1 + h^2 test2 + h^3 test3 + h^4 test4) (1 / alex)) /.

          {t → t Exp[h]}) alex) /. {h → h/2 - h^2/4}, {h, 0, 2}]]];
    p1 = Expand[Numerator[Coefficient[series, h, 1]] / p];
    p2 = Expand[Numerator[Coefficient[series, h, 2]] / q];

  {p1, p2}
  ];
```

```
In[ ]:= AllKnots = {Knot[3, 1], Knot[4, 1], Knot[5, 1], Knot[5, 2], Knot[6, 1], Knot[6, 2],
        Knot[6, 3], Knot[7, 1], Knot[7, 2], Knot[7, 3], Knot[7, 4], Knot[7, 5], Knot[7, 6],
        Knot[7, 7], Knot[8, 1], Knot[8, 2], Knot[8, 3], Knot[8, 4], Knot[8, 5], Knot[8, 6],
        Knot[8, 7], Knot[8, 8], Knot[8, 9], Knot[8, 10], Knot[8, 11], Knot[8, 12],
        Knot[8, 13], Knot[8, 14], Knot[8, 15], Knot[8, 16], Knot[8, 17], Knot[8, 18],
        Knot[8, 19], Knot[8, 20], Knot[8, 21], Knot[9, 1], Knot[9, 2], Knot[9, 3], Knot[9, 4],
        Knot[9, 5], Knot[9, 6], Knot[9, 7], Knot[9, 8], Knot[9, 9], Knot[9, 10], Knot[9, 11],
        Knot[9, 12], Knot[9, 13], Knot[9, 14], Knot[9, 15], Knot[9, 16], Knot[9, 17],
        Knot[9, 18], Knot[9, 19], Knot[9, 20], Knot[9, 21], Knot[9, 22], Knot[9, 23],
        Knot[9, 24], Knot[9, 25], Knot[9, 26], Knot[9, 27], Knot[9, 28], Knot[9, 29],
        Knot[9, 30], Knot[9, 31], Knot[9, 32], Knot[9, 33], Knot[9, 34], Knot[9, 35],
        Knot[9, 36], Knot[9, 37], Knot[9, 38], Knot[9, 39], Knot[9, 40], Knot[9, 41],
        Knot[9, 42], Knot[9, 43], Knot[9, 44], Knot[9, 45], Knot[9, 46], Knot[9, 47],
        Knot[9, 48], Knot[9, 49], Knot[10, 1], Knot[10, 2], Knot[10, 3], Knot[10, 4],
        Knot[10, 5], Knot[10, 6], Knot[10, 7], Knot[10, 8], Knot[10, 9], Knot[10, 10],
        Knot[10, 11], Knot[10, 12], Knot[10, 13], Knot[10, 14], Knot[10, 15], Knot[10, 16],
        Knot[10, 17], Knot[10, 18], Knot[10, 19], Knot[10, 20], Knot[10, 21], Knot[10, 22],
        Knot[10, 23], Knot[10, 24], Knot[10, 25], Knot[10, 26], Knot[10, 27], Knot[10, 28],
        Knot[10, 29], Knot[10, 30], Knot[10, 31], Knot[10, 32], Knot[10, 33], Knot[10, 34],
        Knot[10, 35], Knot[10, 36], Knot[10, 37], Knot[10, 38], Knot[10, 39], Knot[10, 40],
        Knot[10, 41], Knot[10, 42], Knot[10, 43], Knot[10, 44], Knot[10, 45], Knot[10, 46],
        Knot[10, 47], Knot[10, 48], Knot[10, 49], Knot[10, 50], Knot[10, 51], Knot[10, 52],
        Knot[10, 53], Knot[10, 54], Knot[10, 55], Knot[10, 56], Knot[10, 57], Knot[10, 58],
        Knot[10, 59], Knot[10, 60], Knot[10, 61], Knot[10, 62], Knot[10, 63], Knot[10, 64],
        Knot[10, 65], Knot[10, 66], Knot[10, 67], Knot[10, 68], Knot[10, 69], Knot[10, 70],
        Knot[10, 71], Knot[10, 72], Knot[10, 73], Knot[10, 74], Knot[10, 75], Knot[10, 76],
        Knot[10, 77], Knot[10, 78], Knot[10, 79], Knot[10, 80], Knot[10, 81], Knot[10, 82],
        Knot[10, 83], Knot[10, 84], Knot[10, 85], Knot[10, 86], Knot[10, 87], Knot[10, 88],
        Knot[10, 89], Knot[10, 90], Knot[10, 91], Knot[10, 92], Knot[10, 93], Knot[10, 94],
        Knot[10, 95], Knot[10, 96], Knot[10, 97], Knot[10, 98], Knot[10, 99], Knot[10, 100],
        Knot[10, 101], Knot[10, 102], Knot[10, 103], Knot[10, 104], Knot[10, 105],
        Knot[10, 106], Knot[10, 107], Knot[10, 108], Knot[10, 109], Knot[10, 110],
        Knot[10, 111], Knot[10, 112], Knot[10, 113], Knot[10, 114], Knot[10, 115],
        Knot[10, 116], Knot[10, 117], Knot[10, 118], Knot[10, 119], Knot[10, 120],
        Knot[10, 121], Knot[10, 122], Knot[10, 123], Knot[10, 124], Knot[10, 125],
        Knot[10, 126], Knot[10, 127], Knot[10, 128], Knot[10, 129], Knot[10, 130],
        Knot[10, 131], Knot[10, 132], Knot[10, 133], Knot[10, 134], Knot[10, 135],
        Knot[10, 136], Knot[10, 137], Knot[10, 138], Knot[10, 139], Knot[10, 140],
        Knot[10, 141], Knot[10, 142], Knot[10, 143], Knot[10, 144], Knot[10, 145],
        Knot[10, 146], Knot[10, 147], Knot[10, 148], Knot[10, 149], Knot[10, 150],
        Knot[10, 151], Knot[10, 152], Knot[10, 153], Knot[10, 154], Knot[10, 155],
        Knot[10, 156], Knot[10, 157], Knot[10, 158], Knot[10, 159], Knot[10, 160],
        Knot[10, 161], Knot[10, 162], Knot[10, 163], Knot[10, 164], Knot[10, 165]};
```

```
In[ ]:=  tab310 = Table[
           {n, k} = List @@ K;
           If[Max[First /@ KnotData[{n, k}, "BraidWord"]] ≤ 3,
            fname = "Data/" <> ToString[n] <> "_" <> ToString[k] <> ".m";
            Switch[FileType[fname],
             None, z = (Echo@K) → Echo@Timing[OP12@K]; Put[z, fname],
             File, z = Echo@Get[fname]
            ];
            If[z[[2, 2, 2]] =!= OP2[K], Print["Warning! Mismatch with OP2: ", OP2[K]]];
            z,
            ToString[K] <> " Postponed"
           ],
          {K, AllKnots}
         ]
```

» Knot[3, 1] → $\left\{2.38764, \left\{2 + \dfrac{1}{t^4} - \dfrac{2}{t^2} - 2\,t^2 + t^4, 1 - \dfrac{1}{t^4} + \dfrac{1}{t^2} + t^2 - t^4\right\}\right\}$

» Knot[4, 1] → $\left\{61.3417, \left\{0, 1 - \dfrac{1}{t^2} - t^2\right\}\right\}$

  Warning! Mismatch with OP2: $5 + \dfrac{1}{t^4} - \dfrac{4}{t^2} - 4\,t^2 + t^4$

» Knot[5, 1] → $\left\{8.93164, \left\{6 + \dfrac{2}{t^8} - \dfrac{4}{t^6} + \dfrac{5}{t^4} - \dfrac{6}{t^2} - 6\,t^2 + 5\,t^4 - 4\,t^6 + 2\,t^8,\right.\right.$

   $\left.\left. 61 + \dfrac{1}{t^{16}} - \dfrac{4}{t^{14}} + \dfrac{8}{t^{12}} - \dfrac{12}{t^{10}} + \dfrac{13}{t^8} - \dfrac{18}{t^6} + \dfrac{32}{t^4} - \dfrac{49}{t^2} - 49\,t^2 + 32\,t^4 - 18\,t^6 + 13\,t^8 - 12\,t^{10} + 8\,t^{12} - 4\,t^{14} + t^{16}\right\}\right\}$

» Knot[5, 2] → $\left\{101.588, \left\{18 + \dfrac{5}{t^4} - \dfrac{14}{t^2} - 14\,t^2 + 5\,t^4, 80 + \dfrac{3}{t^8} - \dfrac{14}{t^6} + \dfrac{31}{t^4} - \dfrac{59}{t^2} - 59\,t^2 + 31\,t^4 - 14\,t^6 + 3\,t^8\right\}\right\}$

» Knot[6, 1] → $\left\{5066.72, \left\{10 + \dfrac{1}{t^4} - \dfrac{6}{t^2} - 6\,t^2 + t^4, -70 - \dfrac{1}{t^8} + \dfrac{10}{t^6} - \dfrac{32}{t^4} + \dfrac{57}{t^2} + 57\,t^2 - 32\,t^4 + 10\,t^6 - t^8\right\}\right\}$

» Knot[6, 2] → $\left\{102.222, \left\{16 + \dfrac{1}{t^8} - \dfrac{6}{t^6} + \dfrac{13}{t^4} - \dfrac{16}{t^2} - 16\,t^2 + 13\,t^4 - 6\,t^6 + t^8,\right.\right.$

   $\left.\left. 87 - \dfrac{1}{t^{12}} + \dfrac{14}{t^{10}} - \dfrac{63}{t^8} + \dfrac{135}{t^6} - \dfrac{131}{t^4} + \dfrac{2}{t^2} + 2\,t^2 - 131\,t^4 + 135\,t^6 - 63\,t^8 + 14\,t^{10} - t^{12}\right\}\right\}$

» Knot[6, 3] → $\left\{76.0034, \left\{0, 41 - \dfrac{1}{t^8} + \dfrac{1}{t^6} + \dfrac{10}{t^4} - \dfrac{30}{t^2} - 30\,t^2 + 10\,t^4 + t^6 - t^8\right\}\right\}$

  Warning! Mismatch with OP2: $405 - \dfrac{1}{t^{12}} + \dfrac{4}{t^{10}} + \dfrac{2}{t^8} - \dfrac{52}{t^6} + \dfrac{177}{t^4} - \dfrac{332}{t^2} - 332\,t^2 + 177\,t^4 - 52\,t^6 + 2\,t^8 + 4\,t^{10} - t^{12}$

» Knot[7, 1] → $\left\{20.8368, \left\{12 + \dfrac{3}{t^{12}} - \dfrac{6}{t^{10}} + \dfrac{8}{t^8} - \dfrac{10}{t^6} + \dfrac{11}{t^4} - \dfrac{12}{t^2} - 12\,t^2 + 11\,t^4 - 10\,t^6 + 8\,t^8 - 6\,t^{10} + 3\,t^{12},\right.\right.$

   $438 + \dfrac{3}{t^{24}} - \dfrac{12}{t^{22}} + \dfrac{27}{t^{20}} - \dfrac{48}{t^{18}} + \dfrac{72}{t^{16}} - \dfrac{96}{t^{14}} + \dfrac{114}{t^{12}} - \dfrac{141}{t^{10}} + \dfrac{189}{t^8} - \dfrac{255}{t^6} + \dfrac{333}{t^4} - \dfrac{402}{t^2} - 402\,t^2 +$

   $\left.\left. 333\,t^4 - 255\,t^6 + 189\,t^8 - 141\,t^{10} + 114\,t^{12} - 96\,t^{14} + 72\,t^{16} - 48\,t^{18} + 27\,t^{20} - 12\,t^{22} + 3\,t^{24}\right\}\right\}$

» Knot[7, 2] →
   $\left\{7965.46, \left\{60 + \dfrac{14}{t^4} - \dfrac{44}{t^2} - 44\,t^2 + 14\,t^4, 1593 + \dfrac{42}{t^8} - \dfrac{248}{t^6} + \dfrac{705}{t^4} - \dfrac{1294}{t^2} - 1294\,t^2 + 705\,t^4 - 248\,t^6 + 42\,t^8\right\}\right\}$

» Knot[7, 3] →

$\Big\{237.888, \Big\{56 + \dfrac{9}{t^8} - \dfrac{26}{t^6} + \dfrac{41}{t^4} - \dfrac{52}{t^2} - 52\,t^2 + 41\,t^4 - 26\,t^6 + 9\,t^8,\ 3849 + \dfrac{23}{t^{16}} - \dfrac{130}{t^{14}} + \dfrac{372}{t^{12}} - \dfrac{740}{t^{10}} + \dfrac{1193}{t^8} - $

$\dfrac{1793}{t^6} + \dfrac{2615}{t^4} - \dfrac{3462}{t^2} - 3462\,t^2 + 2615\,t^4 - 1793\,t^6 + 1193\,t^8 - 740\,t^{10} + 372\,t^{12} - 130\,t^{14} + 23\,t^{16}\Big\}\Big\}$

» Knot[7, 4] → $\Big\{10\,735.,$

$\Big\{112 + \dfrac{24}{t^4} - \dfrac{80}{t^2} - 80\,t^2 + 24\,t^4,\ 4994 + \dfrac{112}{t^8} - \dfrac{720}{t^6} + \dfrac{2177}{t^4} - \dfrac{4064}{t^2} - 4064\,t^2 + 2177\,t^4 - 720\,t^6 + 112\,t^8\Big\}\Big\}$

» Knot[7, 5] →

$\Big\{220.805, \Big\{114 + \dfrac{9}{t^8} - \dfrac{34}{t^6} + \dfrac{70}{t^4} - \dfrac{102}{t^2} - 102\,t^2 + 70\,t^4 - 34\,t^6 + 9\,t^8,\ 12\,090 + \dfrac{23}{t^{16}} - \dfrac{168}{t^{14}} + \dfrac{632}{t^{12}} - \dfrac{1652}{t^{10}} + \dfrac{3389}{t^8} - $

$\dfrac{5847}{t^6} + \dfrac{8697}{t^4} - \dfrac{11\,117}{t^2} - 11\,117\,t^2 + 8697\,t^4 - 5847\,t^6 + 3389\,t^8 - 1652\,t^{10} + 632\,t^{12} - 168\,t^{14} + 23\,t^{16}\Big\}\Big\}$

» Knot[7, 6] → $\Big\{11\,945., \Big\{78 + \dfrac{1}{t^8} - \dfrac{10}{t^6} + \dfrac{36}{t^4} - \dfrac{66}{t^2} - 66\,t^2 + 36\,t^4 - 10\,t^6 + t^8,$

$499 + \dfrac{8}{t^{10}} - \dfrac{60}{t^8} + \dfrac{155}{t^6} - \dfrac{99}{t^4} - \dfrac{253}{t^2} - 253\,t^2 - 99\,t^4 + 155\,t^6 - 60\,t^8 + 8\,t^{10}\Big\}\Big\}$

» Knot[7, 7] → $\Big\{18\,541.8, \Big\{22 + \dfrac{3}{t^4} - \dfrac{14}{t^2} - 14\,t^2 + 3\,t^4,$

$929 - \dfrac{1}{t^{12}} + \dfrac{12}{t^{10}} - \dfrac{46}{t^8} + \dfrac{36}{t^6} + \dfrac{207}{t^4} - \dfrac{673}{t^2} - 673\,t^2 + 207\,t^4 + 36\,t^6 - 46\,t^8 + 12\,t^{10} - t^{12}\Big\}\Big\}$

» Knot[8, 2] → $\Big\{198.579, \Big\{50 + \dfrac{2}{t^{12}} - \dfrac{12}{t^{10}} + \dfrac{28}{t^8} - \dfrac{40}{t^6} + \dfrac{47}{t^4} - \dfrac{50}{t^2} - 50\,t^2 + 47\,t^4 - 40\,t^6 + 28\,t^8 - 12\,t^{10} + 2\,t^{12},$

$5698 + \dfrac{1}{t^{24}} - \dfrac{12}{t^{22}} + \dfrac{63}{t^{20}} - \dfrac{194}{t^{18}} + \dfrac{407}{t^{16}} - \dfrac{628}{t^{14}} + \dfrac{738}{t^{12}} - \dfrac{742}{t^{10}} + \dfrac{962}{t^8} - \dfrac{1826}{t^6} + \dfrac{3361}{t^4} - \dfrac{4979}{t^2} - 4979\,t^2 + $

$3361\,t^4 - 1826\,t^6 + 962\,t^8 - 742\,t^{10} + 738\,t^{12} - 628\,t^{14} + 407\,t^{16} - 194\,t^{18} + 63\,t^{20} - 12\,t^{22} + t^{24}\Big\}\Big\}$

» Knot[8, 4] →

$\Big\{13\,909.4, \Big\{20 + \dfrac{3}{t^8} - \dfrac{14}{t^6} + \dfrac{25}{t^4} - \dfrac{24}{t^2} - 24\,t^2 + 25\,t^4 - 14\,t^6 + 3\,t^8,\ 1773 - \dfrac{1}{t^{16}} + \dfrac{10}{t^{14}} - \dfrac{60}{t^{12}} + \dfrac{268}{t^{10}} - \dfrac{761}{t^8} + $

$\dfrac{1205}{t^6} - \dfrac{697}{t^4} - \dfrac{852}{t^2} - 852\,t^2 - 697\,t^4 + 1205\,t^6 - 761\,t^8 + 268\,t^{10} - 60\,t^{12} + 10\,t^{14} - t^{16}\Big\}\Big\}$

» Knot[8, 5] → $\Big\{450.284, \Big\{92 + \dfrac{2}{t^{12}} - \dfrac{12}{t^{10}} + \dfrac{31}{t^8} - \dfrac{54}{t^6} + \dfrac{75}{t^4} - \dfrac{88}{t^2} - 88\,t^2 + 75\,t^4 - 54\,t^6 + 31\,t^8 - 12\,t^{10} + 2\,t^{12},$

$10\,965 + \dfrac{1}{t^{24}} - \dfrac{12}{t^{22}} + \dfrac{65}{t^{20}} - \dfrac{214}{t^{18}} + \dfrac{501}{t^{16}} - \dfrac{927}{t^{14}} + \dfrac{1492}{t^{12}} - \dfrac{2298}{t^{10}} + \dfrac{3596}{t^8} - \dfrac{5579}{t^6} + \dfrac{8009}{t^4} - \dfrac{10\,117}{t^2} - 10\,117\,t^2 + $

$8009\,t^4 - 5579\,t^6 + 3596\,t^8 - 2298\,t^{10} + 1492\,t^{12} - 927\,t^{14} + 501\,t^{16} - 214\,t^{18} + 65\,t^{20} - 12\,t^{22} + t^{24}\Big\}\Big\}$

» Knot[8, 6] →

$\Big\{13\,243., \Big\{120 + \dfrac{5}{t^8} - \dfrac{30}{t^6} + \dfrac{73}{t^4} - \dfrac{108}{t^2} - 108\,t^2 + 73\,t^4 - 30\,t^6 + 5\,t^8,\ 6782 + \dfrac{3}{t^{16}} - \dfrac{36}{t^{14}} + \dfrac{182}{t^{12}} - \dfrac{498}{t^{10}} + \dfrac{915}{t^8} - $

$\dfrac{1593}{t^6} + \dfrac{3179}{t^4} - \dfrac{5544}{t^2} - 5544\,t^2 + 3179\,t^4 - 1593\,t^6 + 915\,t^8 - 498\,t^{10} + 182\,t^{12} - 36\,t^{14} + 3\,t^{16}\Big\}\Big\}$

» Knot[8, 7] → $\Big\{413.295, \Big\{50 + \dfrac{1}{t^{12}} - \dfrac{6}{t^{10}} + \dfrac{19}{t^8} - \dfrac{36}{t^6} + \dfrac{47}{t^4} - \dfrac{50}{t^2} - 50\,t^2 + 47\,t^4 - 36\,t^6 + 19\,t^8 - 6\,t^{10} + t^{12},$

$3280 - \dfrac{1}{t^{20}} + \dfrac{10}{t^{18}} - \dfrac{58}{t^{16}} + \dfrac{238}{t^{14}} - \dfrac{692}{t^{12}} + \dfrac{1401}{t^{10}} - \dfrac{1908}{t^8} + \dfrac{1464}{t^6} + \dfrac{226}{t^4} - \dfrac{2319}{t^2} - 2319\,t^2 + $

$226\,t^4 + 1464\,t^6 - 1908\,t^8 + 1401\,t^{10} - 692\,t^{12} + 238\,t^{14} - 58\,t^{16} + 10\,t^{18} - t^{20}\Big\}\Big\}$

» Knot[8, 8] →

$$\left\{16\,196.4,\ \left\{56 + \frac{1}{t^8} - \frac{6}{t^6} + \frac{21}{t^4} - \frac{44}{t^2} - 44\,t^2 + 21\,t^4 - 6\,t^6 + t^8,\ 114 - \frac{1}{t^{16}} + \frac{12}{t^{14}} - \frac{82}{t^{12}} + \frac{326}{t^{10}} - \frac{790}{t^8} + \frac{1179}{t^6} - \right.\right.$$
$$\left.\left. \frac{996}{t^4} + \frac{296}{t^2} + 296\,t^2 - 996\,t^4 + 1179\,t^6 - 790\,t^8 + 326\,t^{10} - 82\,t^{12} + 12\,t^{14} - t^{16}\right\}\right\}$$

» Knot[8, 9] → $\left\{317.51,\right.$

$$\left. \left\{0,\ 404 + \frac{1}{t^{14}} - \frac{9}{t^{12}} + \frac{26}{t^{10}} - \frac{26}{t^8} - \frac{40}{t^6} + \frac{180}{t^4} - \frac{335}{t^2} - 335\,t^2 + 180\,t^4 - 40\,t^6 - 26\,t^8 + 26\,t^{10} - 9\,t^{12} + t^{14}\right\}\right\}$$

Warning! Mismatch with OP2: $7338 - \frac{1}{t^{20}} + \frac{12}{t^{18}} - \frac{58}{t^{16}} + \frac{156}{t^{14}} - \frac{236}{t^{12}} + \frac{60}{t^{10}} + \frac{735}{t^8} - \frac{2372}{t^6} + \frac{4578}{t^4} - $
$$\frac{6544}{t^2} - 6544\,t^2 + 4578\,t^4 - 2372\,t^6 + 735\,t^8 + 60\,t^{10} - 236\,t^{12} + 156\,t^{14} - 58\,t^{16} + 12\,t^{18} - t^{20}$$

» Knot[8, 10] → $\left\{263.41,\ \left\{82 + \frac{1}{t^{12}} - \frac{6}{t^{10}} + \frac{20}{t^8} - \frac{42}{t^6} + \frac{64}{t^4} - \frac{78}{t^2} - 78\,t^2 + 64\,t^4 - 42\,t^6 + 20\,t^8 - 6\,t^{10} + t^{12},\right.\right.$

$$3287 - \frac{2}{t^{20}} + \frac{19}{t^{18}} - \frac{99}{t^{16}} + \frac{351}{t^{14}} - \frac{892}{t^{12}} + \frac{1634}{t^{10}} - \frac{2074}{t^8} + \frac{1502}{t^6} + \frac{270}{t^4} - \frac{2351}{t^2} - 2351\,t^2 + $$
$$\left.\left.270\,t^4 + 1502\,t^6 - 2074\,t^8 + 1634\,t^{10} - 892\,t^{12} + 351\,t^{14} - 99\,t^{16} + 19\,t^{18} - 2\,t^{20}\right\}\right\}$$

» Knot[8, 11] →

$$\left\{7979.61,\ \left\{166 + \frac{5}{t^8} - \frac{34}{t^6} + \frac{92}{t^4} - \frac{146}{t^2} - 146\,t^2 + 92\,t^4 - 34\,t^6 + 5\,t^8,\ 9879 + \frac{3}{t^{16}} - \frac{38}{t^{14}} + \frac{199}{t^{12}} - \frac{552}{t^{10}} + \frac{1029}{t^8} - \right.\right.$$
$$\left.\left. \frac{1949}{t^6} + \frac{4339}{t^4} - \frac{7971}{t^2} - 7971\,t^2 + 4339\,t^4 - 1949\,t^6 + 1029\,t^8 - 552\,t^{10} + 199\,t^{12} - 38\,t^{14} + 3\,t^{16}\right\}\right\}$$

» Knot[8, 13] →

$$\left\{12\,545.5,\ \left\{68 + \frac{1}{t^8} - \frac{6}{t^6} + \frac{23}{t^4} - \frac{52}{t^2} - 52\,t^2 + 23\,t^4 - 6\,t^6 + t^8,\ 433 - \frac{1}{t^{16}} + \frac{14}{t^{14}} - \frac{98}{t^{12}} + \frac{410}{t^{10}} - \frac{1057}{t^8} + \right.\right.$$
$$\left.\left. \frac{1647}{t^6} - \frac{1373}{t^4} + \frac{242}{t^2} + 242\,t^2 - 1373\,t^4 + 1647\,t^6 - 1057\,t^8 + 410\,t^{10} - 98\,t^{12} + 14\,t^{14} - t^{16}\right\}\right\}$$

» Knot[8, 14] →

$$\left\{12\,567.7,\ \left\{250 + \frac{5}{t^8} - \frac{38}{t^6} + \frac{118}{t^4} - \frac{210}{t^2} - 210\,t^2 + 118\,t^4 - 38\,t^6 + 5\,t^8,\ 18\,714 + \frac{3}{t^{16}} - \frac{40}{t^{14}} + \frac{248}{t^{12}} - \frac{948}{t^{10}} + \frac{2618}{t^8} - \right.\right.$$
$$\left.\left. \frac{5829}{t^6} + \frac{10\,838}{t^4} - \frac{16\,247}{t^2} - 16\,247\,t^2 + 10\,838\,t^4 - 5829\,t^6 + 2618\,t^8 - 948\,t^{10} + 248\,t^{12} - 40\,t^{14} + 3\,t^{16}\right\}\right\}$$

» Knot[8, 15] → $\left\{9666.42,\ \left\{520 + \frac{21}{t^8} - \frac{106}{t^6} + \frac{269}{t^4} - \frac{444}{t^2} - 444\,t^2 + 269\,t^4 - 106\,t^6 + 21\,t^8,\right.\right.$

$$230\,228 + \frac{129}{t^{16}} - \frac{1271}{t^{14}} + \frac{6263}{t^{12}} - \frac{20\,644}{t^{10}} + \frac{50\,993}{t^8} - \frac{99\,815}{t^6} + \frac{159\,284}{t^4} - \frac{210\,051}{t^2} - $$
$$\left.\left.210\,051\,t^2 + 159\,284\,t^4 - 99\,815\,t^6 + 50\,993\,t^8 - 20\,644\,t^{10} + 6263\,t^{12} - 1271\,t^{14} + 129\,t^{16}\right\}\right\}$$

» Knot[8, 16] → $\left\{370.531,\ \left\{142 + \frac{1}{t^{12}} - \frac{8}{t^{10}} + \frac{30}{t^8} - \frac{68}{t^6} + \frac{108}{t^4} - \frac{134}{t^2} - 134\,t^2 + 108\,t^4 - 68\,t^6 + 30\,t^8 - 8\,t^{10} + t^{12},\right.\right.$

$$8109 - \frac{2}{t^{20}} + \frac{25}{t^{18}} - \frac{156}{t^{16}} + \frac{621}{t^{14}} - \frac{1709}{t^{12}} + \frac{3325}{t^{10}} - \frac{4416}{t^8} + \frac{3259}{t^6} + \frac{820}{t^4} - \frac{5821}{t^2} - 5821\,t^2 + $$
$$\left.\left.820\,t^4 + 3259\,t^6 - 4416\,t^8 + 3325\,t^{10} - 1709\,t^{12} + 621\,t^{14} - 156\,t^{16} + 25\,t^{18} - 2\,t^{20}\right\}\right\}$$

» Knot[8, 17] → $\left\{221.281,\right.$

$$\left. \left\{0,\ 1211 + \frac{1}{t^{14}} - \frac{8}{t^{12}} + \frac{16}{t^{10}} + \frac{31}{t^8} - \frac{235}{t^6} + \frac{620}{t^4} - \frac{1031}{t^2} - 1031\,t^2 + 620\,t^4 - 235\,t^6 + 31\,t^8 + 16\,t^{10} - 8\,t^{12} + t^{14}\right\}\right\}$$

Warning! Mismatch with OP2: $35\,247 - \dfrac{1}{t^{20}} + \dfrac{12}{t^{18}} - \dfrac{56}{t^{16}} + \dfrac{108}{t^{14}} + \dfrac{135}{t^{12}} - \dfrac{1564}{t^{10}} + \dfrac{5571}{t^{8}} - \dfrac{13\,056}{t^{6}} + \dfrac{22\,931}{t^{4}} -$
$\dfrac{31\,704}{t^{2}} - 31\,704\,t^2 + 22\,931\,t^4 - 13\,056\,t^6 + 5571\,t^8 - 1564\,t^{10} + 135\,t^{12} + 108\,t^{14} - 56\,t^{16} + 12\,t^{18} - t^{20}$

» Knot$[8, 18] \to$
$$\left\{427.266,\; \left\{0,\; 2185 - \dfrac{13}{t^{10}} + \dfrac{115}{t^{8}} - \dfrac{463}{t^{6}} + \dfrac{1126}{t^{4}} - \dfrac{1857}{t^{2}} - 1857\,t^2 + 1126\,t^4 - 463\,t^6 + 115\,t^8 - 13\,t^{10}\right\}\right\}$$

Warning! Mismatch with OP2: $77\,731 + \dfrac{13}{t^{16}} - \dfrac{180}{t^{14}} + \dfrac{1168}{t^{12}} - \dfrac{4760}{t^{10}} + \dfrac{13\,742}{t^{8}} - \dfrac{29\,964}{t^{6}} + \dfrac{51\,208}{t^{4}} -$
$\dfrac{70\,092}{t^{2}} - 70\,092\,t^2 + 51\,208\,t^4 - 29\,964\,t^6 + 13\,742\,t^8 - 4760\,t^{10} + 1168\,t^{12} - 180\,t^{14} + 13\,t^{16}$

» Knot$[8, 19] \to \Big\{106.313,\; \Big\{6 + \dfrac{3}{t^{12}} - \dfrac{6}{t^{10}} + \dfrac{3}{t^{8}} + \dfrac{4}{t^{6}} - \dfrac{5}{t^{4}} - \dfrac{2}{t^{2}} - 2\,t^2 - 5\,t^4 + 4\,t^6 + 3\,t^8 - 6\,t^{10} + 3\,t^{12},$
$215 + \dfrac{3}{t^{24}} - \dfrac{12}{t^{22}} + \dfrac{18}{t^{20}} - \dfrac{7}{t^{18}} - \dfrac{17}{t^{16}} + \dfrac{30}{t^{14}} - \dfrac{25}{t^{12}} + \dfrac{20}{t^{10}} - \dfrac{40}{t^{8}} + \dfrac{65}{t^{6}} - \dfrac{10}{t^{4}} - \dfrac{130}{t^{2}} - 130\,t^2 -$
$10\,t^4 + 65\,t^6 - 40\,t^8 + 20\,t^{10} - 25\,t^{12} + 30\,t^{14} - 17\,t^{16} - 7\,t^{18} + 18\,t^{20} - 12\,t^{22} + 3\,t^{24}\Big\}\Big\}$

» Knot$[8, 20] \to \Big\{154.313,\; \Big\{16 + \dfrac{4}{t^{4}} - \dfrac{12}{t^{2}} - 12\,t^2 + 4\,t^4,$
$416 - \dfrac{7}{t^{12}} + \dfrac{46}{t^{10}} - \dfrac{120}{t^{8}} + \dfrac{138}{t^{6}} + \dfrac{14}{t^{4}} - \dfrac{278}{t^{2}} - 278\,t^2 + 14\,t^4 + 138\,t^6 - 120\,t^8 + 46\,t^{10} - 7\,t^{12}\Big\}\Big\}$

» Knot$[8, 21] \to \Big\{204.781,\; \Big\{72 + \dfrac{1}{t^{8}} - \dfrac{10}{t^{6}} + \dfrac{33}{t^{4}} - \dfrac{60}{t^{2}} - 60\,t^2 + 33\,t^4 - 10\,t^6 + t^8,$
$2670 + \dfrac{1}{t^{14}} + \dfrac{4}{t^{12}} - \dfrac{60}{t^{10}} + \dfrac{276}{t^{8}} - \dfrac{775}{t^{6}} + \dfrac{1550}{t^{4}} - \dfrac{2331}{t^{2}} - 2331\,t^2 + 1550\,t^4 - 775\,t^6 + 276\,t^8 - 60\,t^{10} + 4\,t^{12} + t^{14}\Big\}\Big\}$

» Knot$[9, 1] \to \Big\{33.6563,$
$\Big\{20 + \dfrac{4}{t^{16}} - \dfrac{8}{t^{14}} + \dfrac{11}{t^{12}} - \dfrac{14}{t^{10}} + \dfrac{16}{t^{8}} - \dfrac{18}{t^{6}} + \dfrac{19}{t^{4}} - \dfrac{20}{t^{2}} - 20\,t^2 + 19\,t^4 - 18\,t^6 + 16\,t^8 - 14\,t^{10} + 11\,t^{12} - 8\,t^{14} + 4\,t^{16},$
$1750 + \dfrac{6}{t^{32}} - \dfrac{24}{t^{30}} + \dfrac{56}{t^{28}} - \dfrac{104}{t^{26}} + \dfrac{166}{t^{24}} - \dfrac{240}{t^{22}} + \dfrac{320}{t^{20}} - \dfrac{400}{t^{18}} + \dfrac{470}{t^{16}} - \dfrac{556}{t^{14}} + \dfrac{680}{t^{12}} - \dfrac{845}{t^{10}} +$
$\dfrac{1050}{t^{8}} - \dfrac{1275}{t^{6}} + \dfrac{1496}{t^{4}} - \dfrac{1670}{t^{2}} - 1670\,t^2 + 1496\,t^4 - 1275\,t^6 + 1050\,t^8 - 845\,t^{10} + 680\,t^{12} -$
$556\,t^{14} + 470\,t^{16} - 400\,t^{18} + 320\,t^{20} - 240\,t^{22} + 166\,t^{24} - 104\,t^{26} + 56\,t^{28} - 24\,t^{30} + 6\,t^{32}\Big\}\Big\}$

Warning! Mismatch with OP2: Knot$[9, 1]$

» Knot$[9, 3] \to \Big\{549.063,$
$\Big\{112 + \dfrac{13}{t^{12}} - \dfrac{38}{t^{10}} + \dfrac{62}{t^{8}} - \dfrac{82}{t^{6}} + \dfrac{97}{t^{4}} - \dfrac{108}{t^{2}} - 108\,t^2 + 97\,t^4 - 82\,t^6 + 62\,t^8 - 38\,t^{10} + 13\,t^{12},\; 29\,633 + \dfrac{59}{t^{24}} - \dfrac{342}{t^{22}} +$
$\dfrac{1037}{t^{20}} - \dfrac{2256}{t^{18}} + \dfrac{3989}{t^{16}} - \dfrac{6102}{t^{14}} + \dfrac{8457}{t^{12}} - \dfrac{11\,235}{t^{10}} + \dfrac{14\,817}{t^{8}} - \dfrac{19\,267}{t^{6}} + \dfrac{24\,063}{t^{4}} - \dfrac{28\,032}{t^{2}} - 28\,032\,t^2 + 24\,063\,t^4 -$
$19\,267\,t^6 + 14\,817\,t^8 - 11\,235\,t^{10} + 8457\,t^{12} - 6102\,t^{14} + 3989\,t^{16} - 2256\,t^{18} + 1037\,t^{20} - 342\,t^{22} + 59\,t^{24}\Big\}\Big\}$

Warning! Mismatch with OP2: Knot$[9, 3]$

» Knot$[9, 4] \to \Big\{10\,036.7,\; \Big\{180 + \dfrac{23}{t^{8}} - \dfrac{74}{t^{6}} + \dfrac{125}{t^{4}} - \dfrac{164}{t^{2}} - 164\,t^2 + 125\,t^4 - 74\,t^6 + 23\,t^8,$
$41\,007 + \dfrac{168}{t^{16}} - \dfrac{1064}{t^{14}} + \dfrac{3397}{t^{12}} - \dfrac{7494}{t^{10}} + \dfrac{13\,245}{t^{8}} - \dfrac{20\,655}{t^{6}} + \dfrac{29\,463}{t^{4}} - \dfrac{37\,560}{t^{2}} -$
$37\,560\,t^2 + 29\,463\,t^4 - 20\,655\,t^6 + 13\,245\,t^8 - 7494\,t^{10} + 3397\,t^{12} - 1064\,t^{14} + 168\,t^{16}\Big\}\Big\}$

Warning! Mismatch with OP2: Knot[9, 4]

» Knot[9, 6] →

$$\left\{508.281, \left\{264 + \frac{13}{t^{12}} - \frac{50}{t^{10}} + \frac{106}{t^8} - \frac{166}{t^6} + \frac{217}{t^4} - \frac{252}{t^2} - 252\,t^2 + 217\,t^4 - 166\,t^6 + 106\,t^8 - 50\,t^{10} + 13\,t^{12}, \right.\right.$$

$$129\,619 + \frac{59}{t^{24}} - \frac{448}{t^{22}} + \frac{1780}{t^{20}} - \frac{4946}{t^{18}} + \frac{10\,794}{t^{16}} - \frac{19\,788}{t^{14}} + \frac{31\,980}{t^{12}} - \frac{47\,371}{t^{10}} + \frac{65\,965}{t^8} -$$

$$\frac{86\,985}{t^6} + \frac{107\,770}{t^4} - \frac{123\,616}{t^2} - 123\,616\,t^2 + 107\,770\,t^4 - 86\,985\,t^6 + 65\,965\,t^8 -$$

$$\left.\left.47\,371\,t^{10} + 31\,980\,t^{12} - 19\,788\,t^{14} + 10\,794\,t^{16} - 4946\,t^{18} + 1780\,t^{20} - 448\,t^{22} + 59\,t^{24}\right\}\right\}$$

Warning! Mismatch with OP2: Knot[9, 6]

» Knot[9, 7] → $\left\{13\,407.4, \left\{414 + \frac{23}{t^8} - \frac{102}{t^6} + \frac{234}{t^4} - \frac{362}{t^2} - 362\,t^2 + 234\,t^4 - 102\,t^6 + 23\,t^8, \right.\right.$

$$169\,719 + \frac{168}{t^{16}} - \frac{1456}{t^{14}} + \frac{6392}{t^{12}} - \frac{18\,984}{t^{10}} + \frac{42\,948}{t^8} - \frac{78\,779}{t^6} + \frac{120\,667}{t^4} - \frac{155\,813}{t^2} -$$

$$\left.\left.155\,813\,t^2 + 120\,667\,t^4 - 78\,779\,t^6 + 42\,948\,t^8 - 18\,984\,t^{10} + 6392\,t^{12} - 1456\,t^{14} + 168\,t^{16}\right\}\right\}$$

Warning! Mismatch with OP2: Knot[9, 7]

» Knot[9, 9] →

$$\left\{447.641, \left\{388 + \frac{13}{t^{12}} - \frac{50}{t^{10}} + \frac{116}{t^8} - \frac{206}{t^6} + \frac{297}{t^4} - \frac{364}{t^2} - 364\,t^2 + 297\,t^4 - 206\,t^6 + 116\,t^8 - 50\,t^{10} + 13\,t^{12}, \right.\right.$$

$$234\,716 + \frac{59}{t^{24}} - \frac{448}{t^{22}} + \frac{1856}{t^{20}} - \frac{5554}{t^{18}} + \frac{13\,358}{t^{16}} - \frac{27\,310}{t^{14}} + \frac{49\,099}{t^{12}} - \frac{79\,427}{t^{10}} + \frac{117\,166}{t^8} -$$

$$\frac{158\,525}{t^6} + \frac{196\,982}{t^4} - \frac{224\,610}{t^2} - 224\,610\,t^2 + 196\,982\,t^4 - 158\,525\,t^6 + 117\,166\,t^8 -$$

$$\left.\left.79\,427\,t^{10} + 49\,099\,t^{12} - 27\,310\,t^{14} + 13\,358\,t^{16} - 5554\,t^{18} + 1856\,t^{20} - 448\,t^{22} + 59\,t^{24}\right\}\right\}$$

Warning! Mismatch with OP2: Knot[9, 9]

» Knot[9, 10] → $\left\{11\,578.7, \left\{468 + \frac{40}{t^8} - \frac{152}{t^6} + \frac{298}{t^4} - \frac{420}{t^2} - 420\,t^2 + 298\,t^4 - 152\,t^6 + 40\,t^8, \right.\right.$

$$237\,464 + \frac{496}{t^{16}} - \frac{3680}{t^{14}} + \frac{13\,704}{t^{12}} - \frac{34\,792}{t^{10}} + \frac{69\,151}{t^8} - \frac{116\,396}{t^6} + \frac{171\,083}{t^4} - \frac{218\,294}{t^2} -$$

$$\left.\left.218\,294\,t^2 + 171\,083\,t^4 - 116\,396\,t^6 + 69\,151\,t^8 - 34\,792\,t^{10} + 13\,704\,t^{12} - 3680\,t^{14} + 496\,t^{16}\right\}\right\}$$

Warning! Mismatch with OP2: Knot[9, 10]

» Knot[9, 11] →

$$\left\{10\,042., \left\{260 + \frac{2}{t^{12}} - \frac{20}{t^{10}} + \frac{75}{t^8} - \frac{150}{t^6} + \frac{211}{t^4} - \frac{248}{t^2} - 248\,t^2 + 211\,t^4 - 150\,t^6 + 75\,t^8 - 20\,t^{10} + 2\,t^{12}, \right.\right.$$

$$92\,844 + \frac{1}{t^{24}} - \frac{20}{t^{22}} + \frac{175}{t^{20}} - \frac{886}{t^{18}} + \frac{2949}{t^{16}} - \frac{7028}{t^{14}} + \frac{12\,910}{t^{12}} - \frac{19\,946}{t^{10}} + \frac{29\,077}{t^8} -$$

$$\frac{43\,383}{t^6} + \frac{63\,831}{t^4} - \frac{84\,100}{t^2} - 84\,100\,t^2 + 63\,831\,t^4 - 43\,383\,t^6 + 29\,077\,t^8 -$$

$$\left.\left.19\,946\,t^{10} + 12\,910\,t^{12} - 7028\,t^{14} + 2949\,t^{16} - 886\,t^{18} + 175\,t^{20} - 20\,t^{22} + t^{24}\right\}\right\}$$

Warning! Mismatch with OP2: Knot[9, 11]

» Knot[9, 13] $\rightarrow \Big\{ 12\,863.7, \Big\{ 644 + \dfrac{40}{t^8} - \dfrac{172}{t^6} + \dfrac{378}{t^4} - \dfrac{568}{t^2} - 568\,t^2 + 378\,t^4 - 172\,t^6 + 40\,t^8,$

$418\,539 + \dfrac{496}{t^{16}} - \dfrac{4192}{t^{14}} + \dfrac{17\,765}{t^{12}} - \dfrac{50\,726}{t^{10}} + \dfrac{110\,764}{t^8} - \dfrac{198\,080}{t^6} + \dfrac{299\,319}{t^4} - \dfrac{384\,612}{t^2} -$

$384\,612\,t^2 + 299\,319\,t^4 - 198\,080\,t^6 + 110\,764\,t^8 - 50\,726\,t^{10} + 17\,765\,t^{12} - 4192\,t^{14} + 496\,t^{16} \Big\}\Big\}$

Warning! Mismatch with OP2: Knot[9, 13]

» Knot[9, 16] $\rightarrow$

$\Big\{ 443.531, \Big\{ 658 + \dfrac{13}{t^{12}} - \dfrac{62}{t^{10}} + \dfrac{165}{t^8} - \dfrac{316}{t^6} + \dfrac{481}{t^4} - \dfrac{610}{t^2} - 610\,t^2 + 481\,t^4 - 316\,t^6 + 165\,t^8 - 62\,t^{10} + 13\,t^{12},$

$624\,232 + \dfrac{59}{t^{24}} - \dfrac{554}{t^{22}} + \dfrac{2735}{t^{20}} - \dfrac{9433}{t^{18}} + \dfrac{25\,475}{t^{16}} - \dfrac{57\,266}{t^{14}} + \dfrac{111\,164}{t^{12}} - \dfrac{190\,776}{t^{10}} + \dfrac{293\,705}{t^8} -$

$\dfrac{409\,021}{t^6} + \dfrac{517\,431}{t^4} - \dfrac{595\,632}{t^2} - 595\,632\,t^2 + 517\,431\,t^4 - 409\,021\,t^6 + 293\,705\,t^8 -$

$190\,776\,t^{10} + 111\,164\,t^{12} - 57\,266\,t^{14} + 25\,475\,t^{16} - 9433\,t^{18} + 2735\,t^{20} - 554\,t^{22} + 59\,t^{24} \Big\}\Big\}$

Warning! Mismatch with OP2: Knot[9, 16]

» Knot[9, 17] $\rightarrow \Big\{ 13\,084.9, \Big\{ 104 + \dfrac{1}{t^{12}} - \dfrac{10}{t^{10}} + \dfrac{40}{t^8} - \dfrac{86}{t^6} + \dfrac{115}{t^4} - \dfrac{112}{t^2} - 112\,t^2 + 115\,t^4 - 86\,t^6 + 40\,t^8 - 10\,t^{10} + t^{12},$

$31\,590 - \dfrac{1}{t^{20}} + \dfrac{24}{t^{18}} - \dfrac{234}{t^{16}} + \dfrac{1300}{t^{14}} - \dfrac{4658}{t^{12}} + \dfrac{11\,261}{t^{10}} - \dfrac{18\,129}{t^8} + \dfrac{16\,995}{t^6} - \dfrac{1646}{t^4} - \dfrac{20\,708}{t^2} - 20\,708\,t^2 -$

$1646\,t^4 + 16\,995\,t^6 - 18\,129\,t^8 + 11\,261\,t^{10} - 4658\,t^{12} + 1300\,t^{14} - 234\,t^{16} + 24\,t^{18} - t^{20} \Big\}\Big\}$

Warning! Mismatch with OP2: Knot[9, 17]

» Knot[9, 18] $\rightarrow \Big\{ 12\,941.3, \Big\{ 826 + \dfrac{40}{t^8} - \dfrac{188}{t^6} + \dfrac{449}{t^4} - \dfrac{714}{t^2} - 714\,t^2 + 449\,t^4 - 188\,t^6 + 40\,t^8,$

$634\,512 + \dfrac{496}{t^{16}} - \dfrac{4528}{t^{14}} + \dfrac{20\,876}{t^{12}} - \dfrac{64\,904}{t^{10}} + \dfrac{152\,656}{t^8} - \dfrac{287\,776}{t^6} + \dfrac{447\,556}{t^4} - \dfrac{581\,629}{t^2} -$

$581\,629\,t^2 + 447\,556\,t^4 - 287\,776\,t^6 + 152\,656\,t^8 - 64\,904\,t^{10} + 20\,876\,t^{12} - 4528\,t^{14} + 496\,t^{16} \Big\}\Big\}$

Warning! Mismatch with OP2: Knot[9, 18]

» Knot[9, 20] $\rightarrow$

$\Big\{ 24\,075.6, \Big\{ 482 + \dfrac{2}{t^{12}} - \dfrac{20}{t^{10}} + \dfrac{81}{t^8} - \dfrac{194}{t^6} + \dfrac{332}{t^4} - \dfrac{442}{t^2} - 442\,t^2 + 332\,t^4 - 194\,t^6 + 81\,t^8 - 20\,t^{10} + 2\,t^{12},$

$222\,164 + \dfrac{1}{t^{24}} - \dfrac{20}{t^{22}} + \dfrac{179}{t^{20}} - \dfrac{962}{t^{18}} + \dfrac{3582}{t^{16}} - \dfrac{10\,116}{t^{14}} + \dfrac{23\,136}{t^{12}} - \dfrac{45\,110}{t^{10}} + \dfrac{77\,842}{t^8} -$

$\dfrac{120\,895}{t^6} + \dfrac{168\,287}{t^4} - \dfrac{207\,005}{t^2} - 207\,005\,t^2 + 168\,287\,t^4 - 120\,895\,t^6 + 77\,842\,t^8 -$

$45\,110\,t^{10} + 23\,136\,t^{12} - 10\,116\,t^{14} + 3582\,t^{16} - 962\,t^{18} + 179\,t^{20} - 20\,t^{22} + t^{24} \Big\}\Big\}$

Warning! Mismatch with OP2: Knot[9, 20]

» Knot[9, 22] $\rightarrow \Big\{ 12\,867.6, \Big\{ 152 + \dfrac{1}{t^{12}} - \dfrac{10}{t^{10}} + \dfrac{41}{t^8} - \dfrac{94}{t^6} + \dfrac{140}{t^4} - \dfrac{154}{t^2} - 154\,t^2 + 140\,t^4 - 94\,t^6 + 41\,t^8 - 10\,t^{10} + t^{12},$

$33\,677 - \dfrac{2}{t^{20}} + \dfrac{38}{t^{18}} - \dfrac{315}{t^{16}} + \dfrac{1554}{t^{14}} - \dfrac{5114}{t^{12}} + \dfrac{11\,635}{t^{10}} - \dfrac{17\,839}{t^8} + \dfrac{15\,665}{t^6} + \dfrac{422}{t^4} - \dfrac{22\,883}{t^2} - 22\,883\,t^2 +$

$422\,t^4 + 15\,665\,t^6 - 17\,839\,t^8 + 11\,635\,t^{10} - 5114\,t^{12} + 1554\,t^{14} - 315\,t^{16} + 38\,t^{18} - 2\,t^{20} \Big\}\Big\}$

Warning! Mismatch with OP2: Knot[9, 22]

» $\text{Knot}[9, 23] \to \left\{13\,759.2, \left\{1062 + \dfrac{40}{t^8} - \dfrac{208}{t^6} + \dfrac{539}{t^4} - \dfrac{902}{t^2} - 902\,t^2 + 539\,t^4 - 208\,t^6 + 40\,t^8,\right.\right.$

$1\,006\,731 + \dfrac{496}{t^{16}} - \dfrac{5040}{t^{14}} + \dfrac{25\,633}{t^{12}} - \dfrac{86\,784}{t^{10}} + \dfrac{218\,571}{t^8} - \dfrac{432\,908}{t^6} + \dfrac{694\,782}{t^4} - \dfrac{918\,113}{t^2} -$

$\left.\left.918\,113\,t^2 + 694\,782\,t^4 - 432\,908\,t^6 + 218\,571\,t^8 - 86\,784\,t^{10} + 25\,633\,t^{12} - 5040\,t^{14} + 496\,t^{16}\right\}\right\}$

Warning! Mismatch with OP2: Knot[9, 23]

» $\text{Knot}[9, 24] \to$

$\left\{15\,904., \left\{72 - \dfrac{4}{t^6} + \dfrac{24}{t^4} - \dfrac{56}{t^2} - 56\,t^2 + 24\,t^4 - 4\,t^6, \; 49\,547 + \dfrac{6}{t^{18}} - \dfrac{67}{t^{16}} + \dfrac{334}{t^{14}} - \dfrac{922}{t^{12}} + \dfrac{1164}{t^{10}} + \dfrac{1418}{t^8} - \dfrac{10\,332}{t^6} + \right.\right.$

$\left.\left.\dfrac{26\,064}{t^4} - \dfrac{42\,438}{t^2} - 42\,438\,t^2 + 26\,064\,t^4 - 10\,332\,t^6 + 1418\,t^8 + 1164\,t^{10} - 922\,t^{12} + 334\,t^{14} - 67\,t^{16} + 6\,t^{18}\right\}\right\}$

Warning! Mismatch with OP2: Knot[9, 24]

» $\text{Knot}[9, 26] \to \left\{10\,076., \left\{354 + \dfrac{1}{t^{12}} - \dfrac{10}{t^{10}} + \dfrac{48}{t^8} - \dfrac{134}{t^6} + \dfrac{244}{t^4} - \dfrac{326}{t^2} - 326\,t^2 + 244\,t^4 - 134\,t^6 + 48\,t^8 - 10\,t^{10} + t^{12},\right.\right.$

$54\,938 + \dfrac{2}{t^{18}} - \dfrac{27}{t^{16}} + \dfrac{210}{t^{14}} - \dfrac{964}{t^{12}} + \dfrac{2465}{t^{10}} - \dfrac{2545}{t^8} - \dfrac{4459}{t^6} + \dfrac{22\,456}{t^4} - \dfrac{44\,607}{t^2} -$

$\left.\left.44\,607\,t^2 + 22\,456\,t^4 - 4459\,t^6 - 2545\,t^8 + 2465\,t^{10} - 964\,t^{12} + 210\,t^{14} - 27\,t^{16} + 2\,t^{18}\right\}\right\}$

Warning! Mismatch with OP2: Knot[9, 26]

» $\text{Knot}[9, 27] \to \left\{9267.22, \left\{112 + \dfrac{1}{t^8} - \dfrac{10}{t^6} + \dfrac{41}{t^4} - \dfrac{88}{t^2} - 88\,t^2 + 41\,t^4 - 10\,t^6 + t^8,\right.\right.$

$53\,328 - \dfrac{1}{t^{20}} + \dfrac{20}{t^{18}} - \dfrac{163}{t^{16}} + \dfrac{756}{t^{14}} - \dfrac{2212}{t^{12}} + \dfrac{3982}{t^{10}} - \dfrac{2931}{t^8} - \dfrac{5979}{t^6} + \dfrac{24\,262}{t^4} - \dfrac{44\,398}{t^2} - 44\,398\,t^2 +$

$\left.\left.24\,262\,t^4 - 5979\,t^6 - 2931\,t^8 + 3982\,t^{10} - 2212\,t^{12} + 756\,t^{14} - 163\,t^{16} + 20\,t^{18} - t^{20}\right\}\right\}$

Warning! Mismatch with OP2: Knot[9, 27]

» $\text{Knot}[9, 28] \to \left\{15\,741., \left\{450 + \dfrac{1}{t^{12}} - \dfrac{10}{t^{10}} + \dfrac{47}{t^8} - \dfrac{136}{t^6} + \dfrac{271}{t^4} - \dfrac{398}{t^2} - 398\,t^2 + 271\,t^4 - 136\,t^6 + 47\,t^8 - 10\,t^{10} + t^{12},\right.\right.$

$51\,817 - \dfrac{2}{t^{20}} + \dfrac{27}{t^{18}} - \dfrac{167}{t^{16}} + \dfrac{612}{t^{14}} - \dfrac{1375}{t^{12}} + \dfrac{1464}{t^{10}} + \dfrac{1842}{t^8} - \dfrac{11\,767}{t^6} + \dfrac{28\,198}{t^4} - \dfrac{44\,740}{t^2} - 44\,740\,t^2 +$

$\left.\left.28\,198\,t^4 - 11\,767\,t^6 + 1842\,t^8 + 1464\,t^{10} - 1375\,t^{12} + 612\,t^{14} - 167\,t^{16} + 27\,t^{18} - 2\,t^{20}\right\}\right\}$

Warning! Mismatch with OP2: Knot[9, 28]

» $\text{Knot}[9, 29] \to \left\{11\,247., \left\{230 + \dfrac{1}{t^{12}} - \dfrac{10}{t^{10}} + \dfrac{43}{t^8} - \dfrac{108}{t^6} + \dfrac{181}{t^4} - \dfrac{222}{t^2} - 222\,t^2 + 181\,t^4 - 108\,t^6 + 43\,t^8 - 10\,t^{10} + t^{12},\right.\right.$

$60\,315 - \dfrac{4}{t^{20}} + \dfrac{69}{t^{18}} - \dfrac{532}{t^{16}} + \dfrac{2466}{t^{14}} - \dfrac{7662}{t^{12}} + \dfrac{16\,466}{t^{10}} - \dfrac{23\,513}{t^8} + \dfrac{17\,305}{t^6} + \dfrac{9140}{t^4} - \dfrac{43\,892}{t^2} - 43\,892\,t^2 +$

$\left.\left.9140\,t^4 + 17\,305\,t^6 - 23\,513\,t^8 + 16\,466\,t^{10} - 7662\,t^{12} + 2466\,t^{14} - 532\,t^{16} + 69\,t^{18} - 4\,t^{20}\right\}\right\}$

Warning! Mismatch with OP2: Knot[9, 29]

» $\text{Knot}[9, 30] \to \left\{17\,701.2, \left\{114 + \dfrac{2}{t^8} - \dfrac{14}{t^6} + \dfrac{47}{t^4} - \dfrac{92}{t^2} - 92\,t^2 + 47\,t^4 - 14\,t^6 + 2\,t^8,\right.\right.$

$77\,105 - \dfrac{2}{t^{20}} + \dfrac{31}{t^{18}} - \dfrac{210}{t^{16}} + \dfrac{822}{t^{14}} - \dfrac{1944}{t^{12}} + \dfrac{2181}{t^{10}} + \dfrac{2558}{t^8} - \dfrac{17\,256}{t^6} + \dfrac{41\,804}{t^4} - \dfrac{66\,537}{t^2} - 66\,537\,t^2 +$

$\left.\left.41\,804\,t^4 - 17\,256\,t^6 + 2558\,t^8 + 2181\,t^{10} - 1944\,t^{12} + 822\,t^{14} - 210\,t^{16} + 31\,t^{18} - 2\,t^{20}\right\}\right\}$

Warning! Mismatch with OP2: Knot[9, 30]

» Knot[9, 31] →

$$\left\{7779.94, \left\{568 + \frac{1}{t^{12}} - \frac{10}{t^{10}} + \frac{50}{t^8} - \frac{154}{t^6} + \frac{325}{t^4} - \frac{496}{t^2} - 496\, t^2 + 325\, t^4 - 154\, t^6 + 50\, t^8 - 10\, t^{10} + t^{12},\right.\right.$$

$$84\,162 - \frac{2}{t^{20}} + \frac{24}{t^{18}} - \frac{135}{t^{16}} + \frac{436}{t^{14}} - \frac{697}{t^{12}} - \frac{627}{t^{10}} + \frac{7242}{t^8} - \frac{23\,387}{t^6} + \frac{48\,614}{t^4} - \frac{73\,548}{t^2} - 73\,548\, t^2 +$$

$$\left.\left.48\,614\, t^4 - 23\,387\, t^6 + 7242\, t^8 - 627\, t^{10} - 697\, t^{12} + 436\, t^{14} - 135\, t^{16} + 24\, t^{18} - 2\, t^{20}\right\}\right\}$$

Warning! Mismatch with OP2: Knot[9, 31]

» Knot[9, 32] →

$$\left\{12\,969.4, \left\{562 + \frac{1}{t^{12}} - \frac{12}{t^{10}} + \frac{63}{t^8} - \frac{188}{t^6} + \frac{363}{t^4} - \frac{508}{t^2} - 508\, t^2 + 363\, t^4 - 188\, t^6 + 63\, t^8 - 12\, t^{10} + t^{12},\right.\right.$$

$$125\,957 + \frac{3}{t^{18}} - \frac{49}{t^{16}} + \frac{347}{t^{14}} - \frac{1297}{t^{12}} + \frac{2213}{t^{10}} + \frac{1982}{t^8} - \frac{21\,345}{t^6} + \frac{60\,831}{t^4} - \frac{105\,664}{t^2} -$$

$$\left.\left.105\,664\, t^2 + 60\,831\, t^4 - 21\,345\, t^6 + 1982\, t^8 + 2213\, t^{10} - 1297\, t^{12} + 347\, t^{14} - 49\, t^{16} + 3\, t^{18}\right\}\right\}$$

Warning! Mismatch with OP2: Knot[9, 32]

» Knot[9, 33] → $\left\{17\,711.5, \left\{140 + \frac{1}{t^8} - \frac{12}{t^6} + \frac{51}{t^4} - \frac{110}{t^2} - 110\, t^2 + 51\, t^4 - 12\, t^6 + t^8,\right.\right.$

$$169\,495 + \frac{4}{t^{18}} - \frac{48}{t^{16}} + \frac{210}{t^{14}} - \frac{133}{t^{12}} - \frac{2812}{t^{10}} + \frac{15\,721}{t^8} - \frac{47\,484}{t^6} + \frac{97\,856}{t^4} - \frac{148\,061}{t^2} -$$

$$\left.\left.148\,061\, t^2 + 97\,856\, t^4 - 47\,484\, t^6 + 15\,721\, t^8 - 2812\, t^{10} - 133\, t^{12} + 210\, t^{14} - 48\, t^{16} + 4\, t^{18}\right\}\right\}$$

Warning! Mismatch with OP2: Knot[9, 33]

» Knot[9, 34] → $\left\{16\,462.8, \left\{198 + \frac{3}{t^8} - \frac{24}{t^6} + \frac{82}{t^4} - \frac{160}{t^2} - 160\, t^2 + 82\, t^4 - 24\, t^6 + 3\, t^8,\right.\right.$

$$279\,429 - \frac{2}{t^{20}} + \frac{34}{t^{18}} - \frac{243}{t^{16}} + \frac{899}{t^{14}} - \frac{1343}{t^{12}} - \frac{3320}{t^{10}} + \frac{25\,323}{t^8} - \frac{78\,832}{t^6} + \frac{162\,282}{t^4} - \frac{244\,513}{t^2} - 244\,513\, t^2 +$$

$$\left.\left.162\,282\, t^4 - 78\,832\, t^6 + 25\,323\, t^8 - 3320\, t^{10} - 1343\, t^{12} + 899\, t^{14} - 243\, t^{16} + 34\, t^{18} - 2\, t^{20}\right\}\right\}$$

Warning! Mismatch with OP2: Knot[9, 34]

» Knot[9, 36] →

$$\left\{8703.69, \left\{350 + \frac{2}{t^{12}} - \frac{20}{t^{10}} + \frac{78}{t^8} - \frac{170}{t^6} + \frac{263}{t^4} - \frac{328}{t^2} - 328\, t^2 + 263\, t^4 - 170\, t^6 + 78\, t^8 - 20\, t^{10} + 2\, t^{12},\right.\right.$$

$$141\,075 + \frac{1}{t^{24}} - \frac{20}{t^{22}} + \frac{177}{t^{20}} - \frac{919}{t^{18}} + \frac{3197}{t^{16}} - \frac{8176}{t^{14}} + \frac{16\,646}{t^{12}} - \frac{29\,163}{t^{10}} + \frac{47\,115}{t^8} -$$

$$\frac{72\,304}{t^6} + \frac{102\,929}{t^4} - \frac{130\,019}{t^2} - 130\,019\, t^2 + 102\,929\, t^4 - 72\,304\, t^6 + 47\,115\, t^8 -$$

$$\left.\left.29\,163\, t^{10} + 16\,646\, t^{12} - 8176\, t^{14} + 3197\, t^{16} - 919\, t^{18} + 177\, t^{20} - 20\, t^{22} + t^{24}\right\}\right\}$$

Warning! Mismatch with OP2: Knot[9, 36]

» Knot[9, 38] → $\left\{14\,768.4, \left\{1668 + \frac{62}{t^8} - \frac{328}{t^6} + \frac{852}{t^4} - \frac{1420}{t^2} - 1420\, t^2 + 852\, t^4 - 328\, t^6 + 62\, t^8,\right.\right.$

$$2\,509\,142 + \frac{1182}{t^{16}} - \frac{12\,246}{t^{14}} + \frac{62\,904}{t^{12}} - \frac{213\,694}{t^{10}} + \frac{538\,946}{t^8} - \frac{1\,069\,918}{t^6} + \frac{1\,723\,338}{t^4} - \frac{2\,285\,080}{t^2} -$$

$$\left.\left.2\,285\,080\, t^2 + 1\,723\,338\, t^4 - 1\,069\,918\, t^6 + 538\,946\, t^8 - 213\,694\, t^{10} + 62\,904\, t^{12} - 12\,246\, t^{14} + 1182\, t^{16}\right\}\right\}$$

Warning! Mismatch with OP2: Knot[9, 38]

» Knot[9, 40] →

$$\left\{18\,355.3, \left\{986 + \frac{1}{t^{12}} - \frac{14}{t^{10}} + \frac{82}{t^8} - \frac{270}{t^6} + \frac{574}{t^4} - \frac{866}{t^2} - 866\,t^2 + 574\,t^4 - 270\,t^6 + 82\,t^8 - 14\,t^{10} + t^{12}, \right.\right.$$

$$337\,823 - \frac{1}{t^{18}} + \frac{27}{t^{16}} - \frac{329}{t^{14}} + \frac{2398}{t^{12}} - \frac{11\,706}{t^{10}} + \frac{40\,644}{t^8} - \frac{104\,066}{t^6} + \frac{200\,988}{t^4} - \frac{296\,867}{t^2} -$$

$$\left.\left. 296\,867\,t^2 + 200\,988\,t^4 - 104\,066\,t^6 + 40\,644\,t^8 - 11\,706\,t^{10} + 2398\,t^{12} - 329\,t^{14} + 27\,t^{16} - t^{18}\right\}\right\}$$

Warning! Mismatch with OP2: Knot[9, 40]

» Knot[9, 42] → $\left\{7406.47, \left\{-10 + \frac{1}{t^8} - \frac{4}{t^6} + \frac{4}{t^4} + \frac{4}{t^2} + 4\,t^2 + 4\,t^4 - 4\,t^6 + t^8, \right.\right.$

$$\left.\left. 1150 - \frac{5}{t^{12}} + \frac{50}{t^{10}} - \frac{187}{t^8} + \frac{300}{t^6} - \frac{16}{t^4} - \frac{718}{t^2} - 718\,t^2 - 16\,t^4 + 300\,t^6 - 187\,t^8 + 50\,t^{10} - 5\,t^{12}\right\}\right\}$$

Warning! Mismatch with OP2: Knot[9, 42]

» Knot[9, 43] → $\left\{14\,666.7, \left\{18 + \frac{2}{t^{12}} - \frac{12}{t^{10}} + \frac{25}{t^8} - \frac{24}{t^6} + \frac{16}{t^4} - \frac{16}{t^2} - 16\,t^2 + 16\,t^4 - 24\,t^6 + 25\,t^8 - 12\,t^{10} + 2\,t^{12}, \right.\right.$

$$4319 + \frac{1}{t^{24}} - \frac{12}{t^{22}} + \frac{61}{t^{20}} - \frac{169}{t^{18}} + \frac{272}{t^{16}} - \frac{209}{t^{14}} - \frac{148}{t^{12}} + \frac{693}{t^{10}} - \frac{950}{t^8} + \frac{319}{t^6} + \frac{1351}{t^4} - \frac{3368}{t^2} - 3368\,t^2 +$$

$$\left.\left. 1351\,t^4 + 319\,t^6 - 950\,t^8 + 693\,t^{10} - 148\,t^{12} - 209\,t^{14} + 272\,t^{16} - 169\,t^{18} + 61\,t^{20} - 12\,t^{22} + t^{24}\right\}\right\}$$

Warning! Mismatch with OP2: Knot[9, 43]

» Knot[9, 44] →

$$\left\{6999.02, \left\{42 - \frac{2}{t^6} + \frac{13}{t^4} - \frac{32}{t^2} - 32\,t^2 + 13\,t^4 - 2\,t^6, 1506 + \frac{3}{t^{14}} - \frac{31}{t^{12}} + \frac{126}{t^{10}} - \frac{245}{t^8} + \frac{147}{t^6} + \frac{390}{t^4} - \frac{1143}{t^2} - \right.\right.$$

$$\left.\left. 1143\,t^2 + 390\,t^4 + 147\,t^6 - 245\,t^8 + 126\,t^{10} - 31\,t^{12} + 3\,t^{14}\right\}\right\}$$

Warning! Mismatch with OP2: Knot[9, 44]

» Knot[9, 45] →

$$\left\{10\,045.4, \left\{214 + \frac{1}{t^8} - \frac{16}{t^6} + \frac{76}{t^4} - \frac{168}{t^2} - 168\,t^2 + 76\,t^4 - 16\,t^6 + t^8, 24\,880 + \frac{2}{t^{14}} + \frac{16}{t^{12}} - \frac{316}{t^{10}} + \frac{1841}{t^8} - \right.\right.$$

$$\left.\left. \frac{6088}{t^6} + \frac{13\,476}{t^4} - \frac{21\,370}{t^2} - 21\,370\,t^2 + 13\,476\,t^4 - 6088\,t^6 + 1841\,t^8 - 316\,t^{10} + 16\,t^{12} + 2\,t^{14}\right\}\right\}$$

Warning! Mismatch with OP2: Knot[9, 45]

» Knot[9, 46] →

$$\left\{7129.83, \left\{30 + \frac{3}{t^4} - \frac{18}{t^2} - 18\,t^2 + 3\,t^4, 664 + \frac{3}{t^8} - \frac{34}{t^6} + \frac{191}{t^4} - \frac{493}{t^2} - 493\,t^2 + 191\,t^4 - 34\,t^6 + 3\,t^8\right\}\right\}$$

Warning! Mismatch with OP2: Knot[9, 46]

» Knot[9, 47] → $\left\{9711.73, \left\{44 + \frac{1}{t^{12}} - \frac{8}{t^{10}} + \frac{28}{t^8} - \frac{52}{t^6} + \frac{57}{t^4} - \frac{48}{t^2} - 48\,t^2 + 57\,t^4 - 52\,t^6 + 28\,t^8 - 8\,t^{10} + t^{12}, \right.\right.$

$$16\,021 + \frac{5}{t^{18}} - \frac{72}{t^{16}} + \frac{466}{t^{14}} - \frac{1743}{t^{12}} + \frac{4097}{t^{10}} - \frac{6037}{t^8} + \frac{4413}{t^6} + \frac{2575}{t^4} - \frac{11\,715}{t^2} -$$

$$\left.\left. 11\,715\,t^2 + 2575\,t^4 + 4413\,t^6 - 6037\,t^8 + 4097\,t^{10} - 1743\,t^{12} + 466\,t^{14} - 72\,t^{16} + 5\,t^{18}\right\}\right\}$$

Warning! Mismatch with OP2: Knot[9, 47]

» Knot[9, 48] → $\left\{12\,856.7, \left\{188 + \frac{1}{t^8} - \frac{14}{t^6} + \frac{67}{t^4} - \frac{148}{t^2} - 148\,t^2 + 67\,t^4 - 14\,t^6 + t^8, \right.\right.$

$$\left.\left. 7299 + \frac{3}{t^{12}} - \frac{42}{t^{10}} + \frac{279}{t^8} - \frac{1149}{t^6} + \frac{3177}{t^4} - \frac{5916}{t^2} - 5916\,t^2 + 3177\,t^4 - 1149\,t^6 + 279\,t^8 - 42\,t^{10} + 3\,t^{12}\right\}\right\}$$

Warning! Mismatch with OP2: Knot[9, 48]

» Knot[9, 49] → $\left\{12\,802.3, \left\{242 + \dfrac{21}{t^8} - \dfrac{80}{t^6} + \dfrac{158}{t^4} - \dfrac{220}{t^2} - 220\,t^2 + 158\,t^4 - 80\,t^6 + 21\,t^8,\right.\right.$

$63\,740 + \dfrac{129}{t^{16}} - \dfrac{960}{t^{14}} + \dfrac{3562}{t^{12}} - \dfrac{8910}{t^{10}} + \dfrac{17\,424}{t^8} - \dfrac{29\,382}{t^6} + \dfrac{44\,204}{t^4} - \dfrac{57\,934}{t^2} - $

$\left.\left.57\,934\,t^2 + 44\,204\,t^4 - 29\,382\,t^6 + 17\,424\,t^8 - 8910\,t^{10} + 3562\,t^{12} - 960\,t^{14} + 129\,t^{16}\right\}\right\}$

Warning! Mismatch with OP2: Knot[9, 49]

» Knot[10, 2] →

$\left\{838.141, \left\{102 + \dfrac{3}{t^{16}} - \dfrac{18}{t^{14}} + \dfrac{43}{t^{12}} - \dfrac{64}{t^{10}} + \dfrac{80}{t^8} - \dfrac{92}{t^6} + \dfrac{99}{t^4} - \dfrac{102}{t^2} - 102\,t^2 + 99\,t^4 - 92\,t^6 + 80\,t^8 - 64\,t^{10} + 43\,t^{12} - \right.\right.$

$18\,t^{14} + 3\,t^{16}, 39\,920 + \dfrac{3}{t^{32}} - \dfrac{36}{t^{30}} + \dfrac{193}{t^{28}} - \dfrac{630}{t^{26}} + \dfrac{1468}{t^{24}} - \dfrac{2712}{t^{22}} + \dfrac{4249}{t^{20}} - \dfrac{5850}{t^{18}} + \dfrac{7228}{t^{16}} - \dfrac{8359}{t^{14}} + \dfrac{9887}{t^{12}} - $

$\dfrac{12\,830}{t^{10}} + \dfrac{17\,740}{t^8} - \dfrac{24\,350}{t^6} + \dfrac{31\,583}{t^4} - \dfrac{37\,543}{t^2} - 37\,543\,t^2 + 31\,583\,t^4 - 24\,350\,t^6 + 17\,740\,t^8 - 12\,830\,t^{10} + $

$\left.\left.9887\,t^{12} - 8359\,t^{14} + 7228\,t^{16} - 5850\,t^{18} + 4249\,t^{20} - 2712\,t^{22} + 1468\,t^{24} - 630\,t^{26} + 193\,t^{28} - 36\,t^{30} + 3\,t^{32}\right\}\right\}$

Warning! Mismatch with OP2: Knot[10, 2]

» Knot[10, 5] →

$\left\{457.609, \left\{150 + \dfrac{2}{t^{16}} - \dfrac{12}{t^{14}} + \dfrac{38}{t^{12}} - \dfrac{76}{t^{10}} + \dfrac{112}{t^8} - \dfrac{136}{t^6} + \dfrac{147}{t^4} - \dfrac{150}{t^2} - 150\,t^2 + 147\,t^4 - 136\,t^6 + 112\,t^8 - 76\,t^{10} + \right.\right.$

$38\,t^{12} - 12\,t^{14} + 2\,t^{16}, 73\,038 + \dfrac{1}{t^{32}} - \dfrac{12}{t^{30}} + \dfrac{73}{t^{28}} - \dfrac{294}{t^{26}} + \dfrac{871}{t^{24}} - \dfrac{1994}{t^{22}} + \dfrac{3629}{t^{20}} - \dfrac{5336}{t^{18}} + \dfrac{6394}{t^{16}} - \dfrac{6474}{t^{14}} + $

$\dfrac{6581}{t^{12}} - \dfrac{9310}{t^{10}} + \dfrac{17\,618}{t^8} - \dfrac{32\,478}{t^6} + \dfrac{51\,009}{t^4} - \dfrac{66\,795}{t^2} - 66\,795\,t^2 + 51\,009\,t^4 - 32\,478\,t^6 + 17\,618\,t^8 - 9310\,t^{10} + $

$\left.\left.6581\,t^{12} - 6474\,t^{14} + 6394\,t^{16} - 5336\,t^{18} + 3629\,t^{20} - 1994\,t^{22} + 871\,t^{24} - 294\,t^{26} + 73\,t^{28} - 12\,t^{30} + t^{32}\right\}\right\}$

Warning! Mismatch with OP2: Knot[10, 5]

» Knot[10, 6]

» {{1, 1}, {2, -1}, {3, 1}, {1, -1}, {2, -1}, {1, -1}, {3, 1}, {2, 6}}

» $\left\{15\,969.3, \left\{330 + \dfrac{9}{t^{12}} - \dfrac{54}{t^{10}} + \dfrac{137}{t^8} - \dfrac{220}{t^6} + \dfrac{281}{t^4} - \dfrac{318}{t^2} - 318\,t^2 + 281\,t^4 - 220\,t^6 + 137\,t^8 - 54\,t^{10} + 9\,t^{12},\right.\right.$

$192\,311 + \dfrac{23}{t^{24}} - \dfrac{276}{t^{22}} + \dfrac{1514}{t^{20}} - \dfrac{5128}{t^{18}} + \dfrac{12\,352}{t^{16}} - \dfrac{23\,096}{t^{14}} + \dfrac{35\,994}{t^{12}} - \dfrac{50\,819}{t^{10}} + \dfrac{71\,098}{t^8} - $

$\dfrac{101\,678}{t^6} + \dfrac{141\,199}{t^4} - \dfrac{177\,339}{t^2} - 177\,339\,t^2 + 141\,199\,t^4 - 101\,678\,t^6 + 71\,098\,t^8 - $

$\left.\left.50\,819\,t^{10} + 35\,994\,t^{12} - 23\,096\,t^{14} + 12\,352\,t^{16} - 5128\,t^{18} + 1514\,t^{20} - 276\,t^{22} + 23\,t^{24}\right\}\right\}$

Warning! Mismatch with OP2: Knot[10, 6]

» Knot[10, 8]

» {{1, 5}, {3, 1}, {2, -1}, {1, 1}, {3, -2}, {2, -1}}

» $\left\{13\,762.5, \left\{100 + \dfrac{7}{t^{12}} - \dfrac{34}{t^{10}} + \dfrac{70}{t^8} - \dfrac{94}{t^6} + \dfrac{105}{t^4} - \dfrac{104}{t^2} - 104\,t^2 + 105\,t^4 - 94\,t^6 + 70\,t^8 - 34\,t^{10} + 7\,t^{12},\right.\right.$

$35\,749 + \dfrac{11}{t^{24}} - \dfrac{106}{t^{22}} + \dfrac{455}{t^{20}} - \dfrac{1168}{t^{18}} + \dfrac{2005}{t^{16}} - \dfrac{2226}{t^{14}} + \dfrac{999}{t^{12}} + \dfrac{1039}{t^{10}} - \dfrac{695}{t^8} - \dfrac{5469}{t^6} + \dfrac{17\,405}{t^4} - \dfrac{30\,126}{t^2} - 30\,126\,t^2 + $

$\left.\left.17\,405\,t^4 - 5469\,t^6 - 695\,t^8 + 1039\,t^{10} + 999\,t^{12} - 2226\,t^{14} + 2005\,t^{16} - 1168\,t^{18} + 455\,t^{20} - 106\,t^{22} + 11\,t^{24}\right\}\right\}$

Warning! Mismatch with OP2: Knot[10, 8]

» Knot$[10, 9] \to$

$\Big\{455.594, \Big\{112 + \dfrac{1}{t^{16}} - \dfrac{6}{t^{14}} + \dfrac{19}{t^{12}} - \dfrac{44}{t^{10}} + \dfrac{75}{t^8} - \dfrac{98}{t^6} + \dfrac{109}{t^4} - \dfrac{112}{t^2} - 112\,t^2 + 109\,t^4 - 98\,t^6 + 75\,t^8 - 44\,t^{10} +$

$19\,t^{12} - 6\,t^{14} + t^{16},\ 40\,514 - \dfrac{1}{t^{28}} + \dfrac{12}{t^{26}} - \dfrac{70}{t^{24}} + \dfrac{280}{t^{22}} - \dfrac{870}{t^{20}} + \dfrac{2222}{t^{18}} - \dfrac{4735}{t^{16}} + \dfrac{8287}{t^{14}} - \dfrac{11\,498}{t^{12}} +$

$\dfrac{11\,694}{t^{10}} - \dfrac{6150}{t^8} - \dfrac{5871}{t^6} + \dfrac{21\,572}{t^4} - \dfrac{35\,130}{t^2} - 35\,130\,t^2 + 21\,572\,t^4 - 5871\,t^6 - 6150\,t^8 +$

$11\,694\,t^{10} - 11\,498\,t^{12} + 8287\,t^{14} - 4735\,t^{16} + 2222\,t^{18} - 870\,t^{20} + 280\,t^{22} - 70\,t^{24} + 12\,t^{26} - t^{28}\Big\}\Big\}$

Warning! Mismatch with OP2: Knot$[10, 9]$

» Knot$[10, 12]$

» $\{\{1, -2\}, \{2, 1\}, \{1, -1\}, \{3, 2\}, \{2, 4\}, \{3, -1\}\}$