



Depicting Cubic Per₄(0) in Dark Heart

To develop a parameter plane set for Per₄(0), we examine

$$f'(z) = az(z-k) \quad f(z) = \frac{a}{3}z^3 - \frac{ak}{2}z^2 + c \text{ with } 0 \rightarrow c \rightarrow 1 \rightarrow d \rightarrow 0, \text{ giving}$$

$$\frac{a}{3}c^3 - \frac{ak}{2}c^2 + c = 1, \quad \frac{a}{3} - \frac{ak}{2} + c = d, \quad \frac{a}{3}d^3 - \frac{ak}{2}d^2 + c = 0.$$

This system cannot be solved by Matlab's MuPad symbolic manipulator, but it was effectively solved by Mathematica, resulting in the 48 page formula set in Appendix 2.

This can be reduced further through modularization to the solution in C language format in Appendix 1.

Due to the multiple complex square and cube roots, the parameter plane is split on multiple arcs, resulting in the four split parameter planes shown above, since the four solutions give permutations on the results one gets by alternatively swapping the signs of the square roots.

These give a diverse spectrum of period four Julia sets which can be accessed by choosing rational with real part 20 and imaginary part 0,1,2, and 3.

Appendix 1: C

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int j;
double _Complex a,c,d,d2,d3;
double _Complex ca[20],v1,v2,v3,v4,v5,ca32,ca33;
double p213;
ca[1]=c;
for (j=2;j<20;j++)
    ca[j]=ca[j-1]*c;
p213=pow(2,1.0/3);
ca32=(-1+c-2*ca[3])*(-1+c-2*ca[3]);
ca33=(-1+c-2*ca[3])*ca32;

v1=cpow((2-6*c+6*ca[2]+25*ca[3]-75*ca[4]-3*ca[5]+231*ca[6]-
288*ca[7]+114*ca[8]+30*ca[9]-36*ca[10]+2*ca[12]+csqrt(108*ca[3]-
648*ca[4]+1188*ca[5]+1161*ca[6]-8910*ca[7]+13419*ca[8]+6264*ca[9]-
47817*ca[10]+52002*ca[11]+30861*ca[12]-134352*ca[13]+138024*ca[14]-
50544*ca[15]-10044*ca[16]+9828*ca[17]-108*ca[18]-432*ca[19])),1.0/3);

v2=csqrt(ca32/(4*ca[4])-2*(1-c+ca[4]))/(3*ca[2])+(p213*(1-
2*c+ca[2]+2*ca[4]+10*ca[5]-
12*ca[6]+ca[8]))/(3*ca[2]*v1)+(1/(3*p213*ca[2]))*(v1));

v3=csqrt(ca32/(2*ca[4])-4*(1-c+ca[4]))/(3*ca[2])-(p213*(1-
2*c+ca[2]+2*ca[4]+10*ca[5]-12*ca[6]+ca[8]))/(3*ca[2]*v1)-
(1/(3*p213*ca[2]))*(v1)-(-(ca33/ca[6])+(4*(-1+c-2*ca[3])*(1-
c+ca[4]))/ca[4])/(4*v2));

v4=csqrt(ca32/(2*ca[4])-4*(1-c+ca[4]))/(3*ca[2])-(p213*(1-
2*c+ca[2]+2*ca[4]+10*ca[5]-12*ca[6]+ca[8]))/(3*ca[2]*v1)-
(1/(3*p213*ca[2]))*(v1)+(-(ca33/ca[6])+(4*(-1+c-2*ca[3])*(1-
c+ca[4]))/ca[4])/(4*v2));

v5=(-1+c-2*ca[3])/(4*ca[2]);

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Having four solutions:

```

a=(1.0/(-ca[2]+ca[3]))*(9*(1-
c)/4+(3*ca[3])/2+3.0/2*ca[2]*v2+3.0/2*ca[2]*v3);

d=-v5-1.0/2*v2-1.0/2*v3;

a=(1.0/(-ca[2]+ca[3]))*(9*(1-c)/4+(3*ca[3])/2+3.0/2*ca[2]*v2-
3.0/2*ca[2]*v3);

d=-v5-1.0/2*v2+1.0/2*v3;

a=(1.0/(-ca[2]+ca[3]))*(9*(1-c)/4+(3*ca[3])/2-
3.0/2*ca[2]*v2+3.0/2*ca[2]*v4);

d=-v5+1.0/2*v2-1.0/2*v4;

a=(1.0/(-ca[2]+ca[3]))*(9*(1-c)/4+(3*ca[3])/2-3.0/2*ca[2]*v2-
3.0/2*ca[2]*v4);

d=-v5+1.0/2*v2+1.0/2*v4;

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With in each case:

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d2=d*d;
d3=d*d2;
k=(-2+6*c-6*ca[2]+2*ca[4]+2*ca[5]-2*ca[6]-2*ca[7]-2*ca[2]*d+6*ca[3]*d-
6*ca[4]*d+2*ca[5]*d+2*ca[5]*d2-2*ca[6]*d2-2*ca[4]*d3+2*ca[5]*d3)/(-3+9*c-
9*ca[2]-3*ca[3]+12*ca[4]-6*ca[5]-3*ca[6]);

```

[1]:= **Solve**[$a * c^3 / 3 - a * k * c^2 / 2 + c == 1 \&$
 $a / 3 - a * k / 2 + c == d \&& a * d^3 / 3 - a * k * d^2 / 2 + c == 0$, {a, d, k}]

$$\left\{ \left\{ a \rightarrow \frac{1}{-c^2 + c^3} \left(\frac{9}{4} - \frac{9c}{4} + \frac{3c^3}{2} + \frac{3}{2} c^2 \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \left(2^{1/3} (1-2c+c^2+2c^4+10c^5-12c^6+c^8) \right) \right) / \left(3c^2 (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}} \right)^{1/3}} \right) + \frac{1}{3 \times 2^{1/3} c^2} (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}})^{1/3} \right) + \frac{1}{3 \times 2^{1/3} c^2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{2c^4} - \frac{4(1-c+c^4)}{3c^2} - \left(2^{1/3} (1-2c+c^2+2c^4+10c^5-12c^6+c^8) \right) \right) / \left(3c^2 (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}} \right)^{1/3}} - \frac{1}{3 \times 2^{1/3} c^2} (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}})^{1/3} - \left(-\frac{(-1+c-2c^3)^3}{c^6} + \frac{4(-1+c-2c^3)(1-c+c^4)}{c^4} \right) / \left(4 \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \left(2^{1/3} (1-2c+c^2+2c^4+10c^5-12c^6+c^8) \right) \right) / \left(3c^2 (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}} \right)^{1/3}} + \frac{1}{3 \times 2^{1/3} c^2} (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}})^{1/3} \right) + \frac{1}{3 \times 2^{1/3} c^2} (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}})^{1/3} \right) \right),$$

$$d \rightarrow -\frac{-1+c-2c^3}{4c^2} - \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right)}$$

$$\begin{aligned}
& \left(2^{1/3} (1 - 2c + c^2 + 2c^4 + 10c^5 - 12c^6 + c^8) \right) / \\
& \left(3c^2 (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + 114c^8 + 30c^9 - 36 \right. \\
& \quad c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + \\
& \quad 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3}) + \\
& \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + 114c^8 + \\
& \quad 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + \\
& \quad 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3}) - \\
& \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{2c^4} - \frac{4(1-c+c^4)}{3c^2} - (2^{1/3} (1 - 2c + c^2 + 2c^4 + 10c^5 - 12c^6 + c^8)) / \right. \\
& \quad \left(3c^2 (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + 114c^8 + 30c^9 - 36 \right. \\
& \quad c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + \\
& \quad 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3}) - \\
& \quad \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + 114c^8 + \\
& \quad 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + \\
& \quad 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3}) - \\
& \quad \left. \left(-\frac{(-1+c-2c^3)^3}{c^6} + \frac{4(-1+c-2c^3)(1-c+c^4)}{c^4} \right) \right) / \\
& \quad \left(4 \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + (2^{1/3} (1 - 2c + c^2 + 2c^4 + 10c^5 - 12c^6 + \right. \right. \\
& \quad c^8)) / \left(3c^2 (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + \\
& \quad 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - \\
& \quad 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3}) + \frac{1}{3 \times 2^{1/3} c^2} \right. \\
& \quad \left. \left. (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + 114c^8 + 30c^9 - 36c^{10} + \right. \right. \\
& \quad 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + \\
& \quad 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3})^{1/3} \right) \right) \right),
\end{aligned}$$

$$k \rightarrow \left(-2 + 6c - 6c^2 + 2c^4 + 2c^5 - 2c^6 - 2c^7 - 2c^2 \left(-\frac{-1+c-2c^3}{4c^2} - \right. \right. \\
\frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \\
\left. \left. (2^{1/3} (1 - 2c + c^2 + 2c^4 + 10c^5 - 12c^6 + c^8)) / \left(3c^2 (2 - 6c + 6c^2 + 25c^3 - \right. \right. \\
75c^4 - 3c^5 + 231c^6 - 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \\
\sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \\
47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \right. \right. \right. \right. \right)$$

$$\begin{aligned}
& \left. \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \right. \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \\
& \quad \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \\
& \quad 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})} \right)^{1/3} \Big) + \\
& \left. \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{2c^4} - \frac{4(1-c+c^4)}{3c^2} - (2^{1/3}(1-2c+c^2+2c^4+10c^5 - \right. \right. \\
& \quad 12c^6+c^8)) / \left(3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6 - \right. \right. \\
& \quad 288c^7+114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+ \right. \right. \\
& \quad 6264c^9-47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}- \\
& \quad 10044c^{16}+9828c^{17}-108c^{18}-432c^{19})} \right)^{1/3} \Big) - \frac{1}{3 \times 2^{1/3} c^2} \\
& \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + 114c^8 + 30c^9 - 36 \right. \\
& \quad c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + \\
& \quad 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - \\
& \quad 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})} \right)^{1/3} - \\
& \left. \left(- \frac{(-1+c-2c^3)^3}{c^6} + \frac{4(-1+c-2c^3)(1-c+c^4)}{c^4} \right) / \left(4 \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \right. \right. \right. \\
& \quad \frac{2(1-c+c^4)}{3c^2} + (2^{1/3}(1-2c+c^2+2c^4+10c^5-12c^6+c^8)) / \\
& \quad \left(3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+ \right. \right. \\
& \quad 30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+ \right. \right. \\
& \quad 30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}- \\
& \quad 10044c^{16}+9828c^{17}-108c^{18}-432c^{19})} \right)^{1/3} \Big) + \\
& \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - \right. \\
& \quad 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})} \right)^{1/3} \Big) \Big) + \\
& 6c^3 \left(- \frac{-1+c-2c^3}{4c^2} - \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \right. \\
& \quad (2^{1/3}(1-2c+c^2+2c^4+10c^5-12c^6+c^8)) / \left(3c^2(2-6c+6c^2+25c^3- \right. \right. \\
& \quad 75c^4-3c^5+231c^6-288c^7+114c^8+30c^9-36c^{10}+2c^{12}+ \\
& \quad \sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})} \right)^{1/3} \Big) + \\
& \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \\
& \quad \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})} \right)^{1/3}
\end{aligned}$$

$$\begin{aligned}
& \left. \left(47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \right. \right. \\
& \quad \left. \left. 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19} \right) \right)^{1/3} - \\
& \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{2c^4} - \frac{4(1-c+c^4)}{3c^2} - \left(2^{1/3} (1-2c+c^2+2c^4+10c^5 - \right. \right. \\
& \quad \left. \left. 12c^6+c^8) \right) / \left(3c^2 (2-6c+6c^2+25c^3-75c^4-3c^5+ \right. \right. \\
& \quad \left. \left. 231c^6-288c^7+114c^8+30c^9-36c^{10}+2c^{12}+ \right. \right. \\
& \quad \left. \left. \sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \\
& \quad \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \\
& \quad \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}) \right)^{1/3} - \right. \right. \\
& \quad \left. \left. \frac{1}{3 \times 2^{1/3} c^2} (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \\
& \quad \left. \left. 114c^8+30c^9-36c^{10}+2c^{12}+ \right. \right. \\
& \quad \left. \left. \sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \\
& \quad \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \\
& \quad \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}) \right)^{1/3} - \right. \right. \\
& \quad \left. \left. \left(-\frac{(-1+c-2c^3)^3}{c^6} + \frac{4(-1+c-2c^3)(1-c+c^4)}{c^4} \right) / \left(4 \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \right. \right. \right. \right. \\
& \quad \left. \left. \left. \left. \frac{2(1-c+c^4)}{3c^2} + \left(2^{1/3} (1-2c+c^2+2c^4+10c^5-12c^6+c^8) \right) / \right. \right. \right. \right. \\
& \quad \left. \left. \left. \left. \left(3c^2 (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+ \right. \right. \right. \right. \\
& \quad \left. \left. \left. \left. 30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+1161c^6- \right. \right. \right. \right. \\
& \quad \left. \left. \left. \left. 8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+ \right. \right. \right. \right. \\
& \quad \left. \left. \left. \left. 30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}- \right. \right. \right. \right. \\
& \quad \left. \left. \left. \left. 10044c^{16}+9828c^{17}-108c^{18}-432c^{19}) \right)^{1/3} + \right. \right. \right. \right. \\
& \quad \left. \left. \left. \left. \frac{1}{3 \times 2^{1/3} c^2} (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6- \right. \right. \right. \right. \\
& \quad \left. \left. \left. \left. 288c^7+114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+ \right. \right. \right. \right. \\
& \quad \left. \left. \left. \left. 1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+ \right. \right. \right. \right. \\
& \quad \left. \left. \left. \left. 52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}- \right. \right. \right. \right. \\
& \quad \left. \left. \left. \left. c^{16}-10044c^{17}+9828c^{18}-108c^{19}) \right)^{1/3} \right) \right) \right) \right) - \\
& 6c^4 \left(-\frac{-1+c-2c^3}{4c^2} - \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \right. \\
& \quad \left. \left. \left. \left(2^{1/3} (1-2c+c^2+2c^4+10c^5-12c^6+c^8) \right) / \left(3c^2 (2-6c+6c^2+25c^3- \right. \right. \right. \\
& \quad \left. \left. \left. 75c^4-3c^5+231c^6-288c^7+114c^8+30c^9-36c^{10}+2c^{12}+ \right. \right. \right. \\
& \quad \left. \left. \left. \sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \right. \\
& \quad \left. \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \right. \\
& \quad \left. \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}) \right)^{1/3} + \right. \right. \right. \\
& \quad \left. \left. \left. \frac{1}{3 \times 2^{1/3} c^2} (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \right. \\
& \quad \left. \left. \left. 114c^8+30c^9-36c^{10}+2c^{12}+ \right. \right. \right. \\
& \quad \left. \left. \left. \sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \right. \\
& \quad \left. \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \right. \\
& \quad \left. \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}) \right)^{1/3} \right) \right) -
\end{aligned}$$

$$\begin{aligned}
& \frac{1}{2} \sqrt{\left(\frac{(-1 + c - 2c^3)^2}{2c^4} - \frac{4(1 - c + c^4)}{3c^2} - \left(2^{1/3} (1 - 2c + c^2 + 2c^4 + 10c^5 - \right. \right. \\
& \quad \left. \left. 12c^6 + c^8) \right) / \left(3c^2 (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + \right. \right. \\
& \quad \left. \left. 231c^6 - 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \right. \right. \\
& \quad \left. \left. \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \right. \right. \\
& \quad \left. \left. 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \right. \right. \\
& \quad \left. \left. 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \right)^{1/3} \right) - \\
& \quad \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \\
& \quad \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \right. \right. \\
& \quad \left. \left. 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \right. \right. \\
& \quad \left. \left. 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \right)^{1/3} \right) - \\
& \quad \left(- \frac{(-1 + c - 2c^3)^3}{c^6} + \frac{4(-1 + c - 2c^3)(1 - c + c^4)}{c^4} \right) / \left(4 \sqrt{\left(\frac{(-1 + c - 2c^3)^2}{4c^4} - \right. \right. \\
& \quad \left. \left. \frac{2(1 - c + c^4)}{3c^2} + \left(2^{1/3} (1 - 2c + c^2 + 2c^4 + 10c^5 - 12c^6 + c^8) \right) / \right. \right. \\
& \quad \left. \left. \left(3c^2 (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + 114c^8 + \right. \right. \right. \\
& \quad \left. \left. \left. 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - \right. \right. \right. \\
& \quad \left. \left. \left. 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + \right. \right. \right. \\
& \quad \left. \left. \left. 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - \right. \right. \right. \\
& \quad \left. \left. \left. 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \right)^{1/3} \right) + \\
& \quad \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - \\
& \quad 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + \right. \right. \\
& \quad 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + \\
& \quad 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544 \\
& \quad \left. \left. c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \right)^{1/3} \right) \Bigg) \Bigg) + \\
& 2c^5 \left(- \frac{-1 + c - 2c^3}{4c^2} - \frac{1}{2} \sqrt{\left(\frac{(-1 + c - 2c^3)^2}{4c^4} - \frac{2(1 - c + c^4)}{3c^2} + \right. \right. \\
& \quad \left(2^{1/3} (1 - 2c + c^2 + 2c^4 + 10c^5 - 12c^6 + c^8) \right) / \left(3c^2 (2 - 6c + 6c^2 + 25c^3 - \right. \right. \\
& \quad \left. \left. 75c^4 - 3c^5 + 231c^6 - 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \right. \right. \\
& \quad \left. \left. \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \right. \right. \\
& \quad \left. \left. 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \right. \right. \\
& \quad \left. \left. 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \right)^{1/3} \right) + \right. \\
& \quad \left. \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \right. \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \\
& \quad \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \right. \right. \\
& \quad 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \right)^{1/3} \Bigg) - \\
& \quad \frac{1}{2} \sqrt{\left(\frac{(-1 + c - 2c^3)^2}{2c^4} - \frac{4(1 - c + c^4)}{3c^2} - \left(2^{1/3} (1 - 2c + c^2 + 2c^4 + 10c^5 - \right. \right. \\
& \quad \left. \left. 12c^6 + c^8) \right) / \left(3c^2 (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + \right. \right. \\
& \quad \left. \left. 12c^6 + c^8) \right) \right) / \left(3c^2 (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + \right. \right. \\
& \quad \left. \left. 12c^6 + c^8) \right) \right)
\end{aligned}$$

$$\begin{aligned}
& 231 c^6 - 288 c^7 + 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \\
& \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \\
& 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \\
& 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})^{1/3}} - \\
& \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \\
& 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \\
& \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \\
& 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \\
& 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})^{1/3}} - \\
& \left(-\frac{(-1+c-2c^3)^3}{c^6} + \frac{4(-1+c-2c^3)(1-c+c^4)}{c^4} \right) / \\
& \left(4 \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \right. \\
& \left. \left. \left. \left(2^{1/3} (1-2c+c^2+2c^4+10c^5-12c^6+c^8) \right) / \right. \right. \right. \\
& \left. \left. \left. \left(3c^2 (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+ \right. \right. \right. \\
& 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - \\
& 8910 c^7 + 13419 c^8 + 6264 c^9 - 47817 c^{10} + 52002 c^{11} + \\
& 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - 50544 c^{15} - \\
& 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})^{1/3}} + \right. \right. \right. \\
& \left. \left. \left. \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - \right. \right. \right. \\
& 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108 c^3 - 648 c^4 + \\
& 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - 47817 c^{10} + \\
& 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - 50544 c^{15} - \\
& 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})^{1/3}} \right) \right) \right) + \\
& 2c^5 \left(-\frac{-1+c-2c^3}{4c^2} - \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \left(2^{1/3} \right. \right. \right. \\
& \left. \left. \left. (1-2c+c^2+2c^4+10c^5-12c^6+c^8) \right) / \right. \right. \right. \\
& \left. \left. \left. \left(3c^2 (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+30c^9- \right. \right. \right. \\
& 36c^{10} + 2c^{12} + \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + \\
& 13419 c^8 + 6264 c^9 - 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - \\
& 134352 c^{13} + 138024 c^{14} - 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - \\
& 108 c^{18} - 432 c^{19})^{1/3}} \right) \right) + \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - \\
& 75c^4 - 3c^5 + 231c^6 - 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \\
& \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \\
& 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \\
& 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})^{1/3}} \right) - \\
& \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{2c^4} - \frac{4(1-c+c^4)}{3c^2} - \left(2^{1/3} (1-2c+c^2+2c^4+ \right. \right. \right. \\
& \left. \left. \left. 10c^5-12c^6+c^8) \right) / \left(3c^2 (2-6c+6c^2+25c^3-75c^4-3c^5+ \right. \right. \right. \\
& 231c^6 - 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108 c^3 - 648 c^4 + \\
& 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 -
\end{aligned}$$

$$\begin{aligned}
& \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \\
& \quad \left. 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3}} \right) - \\
& \left(- \frac{(-1+c-2c^3)^3}{c^6} + \frac{4(-1+c-2c^3)(1-c+c^4)}{c^4} \right) / \\
& \left(4 \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \\
& \quad \left. \left. (2^{1/3}(1-2c+c^2+2c^4+10c^5-12c^6+c^8))^{1/3} \right. \right. \\
& \quad \left. \left. (3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3}} \right) + \right. \\
& \quad \left. \left. \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3}} \right)^{1/3} \right)^2 \right) + \\
& 2c^6 \left(- \frac{-1+c-2c^3}{4c^2} - \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + (2^{1/3}(1-2c+c^2+2c^4+10c^5-12c^6+c^8))^{1/3} \right. \right. \\
& \quad \left. \left. (3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3}} \right) + \right. \\
& \quad \left. \left. \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3}} \right)^{1/3} \right)^2 \right) - \\
& \left. \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{2c^4} - \frac{4(1-c+c^4)}{3c^2} - (2^{1/3}(1-2c+c^2+2c^4+10c^5-12c^6+c^8))^{1/3} / (3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3}} \right) \right. \right. \\
& \quad \left. \left. (3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3}} \right) \right) \right]
\end{aligned}$$

$$\begin{aligned}
& \left. \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \right. \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \\
& \quad \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \\
& \quad 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3} - \\
& \quad \left. \left. \left(- \frac{(-1+c-2c^3)^3}{c^6} + \frac{4(-1+c-2c^3)(1-c+c^4)}{c^4} \right) \right) \right/ \\
& \quad \left(4 \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \\
& \quad \left(2^{1/3}(1-2c+c^2+2c^4+10c^5-12c^6+c^8) \right) \left. \right) / \\
& \quad \left(3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+ \right. \\
& \quad 30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3}} + \\
& \quad \left. \left. \left. \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \right. \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + \\
& \quad 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - \\
& \quad 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3} \right)^{1/3} \right)^2 - \\
& \quad 2c^4 \left(- \frac{-1+c-2c^3}{4c^2} - \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + (2^{1/3} \right. \right. \\
& \quad \left(1-2c+c^2+2c^4+10c^5-12c^6+c^8) \right) \left. \right) / \\
& \quad \left(3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \\
& \quad 114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+ \\
& \quad 1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+ \\
& \quad 52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \\
& \quad 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3}} + \\
& \quad \left. \left. \left. \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \right. \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \\
& \quad \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \\
& \quad 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3} \right)^{1/3} \right) - \\
& \quad \left. \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{2c^4} - \frac{4(1-c+c^4)}{3c^2} - (2^{1/3} (1-2c+c^2+2c^4+ \right. \right. \\
& \quad 10c^5-12c^6+c^8) \right) / \left(3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+ \right. \\
& \quad 231c^6-288c^7+114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3- \\
& \quad 648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \\
& \quad 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right.
\end{aligned}$$

$$\begin{aligned}
& \left. \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \right. \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \\
& \quad \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \\
& \quad 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3}} - \\
& \quad \left. \left. \left(- \frac{(-1+c-2c^3)^3}{c^6} + \frac{4(-1+c-2c^3)(1-c+c^4)}{c^4} \right) \right) \right/ \\
& \quad \left(4 \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \right. \\
& \quad \left. \left. \left. (2^{1/3}(1-2c+c^2+2c^4+10c^5-12c^6+c^8)) \right) \right) \right. \\
& \quad \left. \left. \left. (3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+ \right. \right. \right. \\
& \quad 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3}} + \right. \\
& \quad \left. \left. \left. \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \right. \right. \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3}} \right)^3 \right) \right) + \\
& 2c^5 \left(- \frac{-1+c-2c^3}{4c^2} - \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + (2^{1/3}(1-2c+c^2+2c^4+10c^5-12c^6+c^8)) \right) \right. \right. \\
& \quad \left. \left. (3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \right. \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3}} + \right. \\
& \quad \left. \left. \left. \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \right. \right. \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3}} \right)^3 \right) - \\
& \quad \left. \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{2c^4} - \frac{4(1-c+c^4)}{3c^2} - (2^{1/3}(1-2c+c^2+2c^4+10c^5-12c^6+c^8)) \right) \right. \right. \\
& \quad \left. \left. (3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \right. \\
& \quad 231c^8 - 288c^9 + 114c^{10} + 30c^{11} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3}} -
\end{aligned}$$

$$\begin{aligned}
& \left. \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \right. \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \\
& \quad \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \\
& \quad 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3}} - \\
& \quad \left. \left. \left(- \frac{(-1+c-2c^3)^3}{c^6} + \frac{4(-1+c-2c^3)(1-c+c^4)}{c^4} \right) \right) \right/ \\
& \quad \left(4 \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \right. \\
& \quad \left. \left. \left. (2^{1/3}(1-2c+c^2+2c^4+10c^5-12c^6+c^8)) \right) \right) \right. \\
& \quad \left. \left. \left. (3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+ \right. \right. \right. \\
& \quad 30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3}} + \right. \right. \\
& \quad \left. \left. \left. \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \right. \right. \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3}} \right)^{1/3} \right)^3 \right) \right) \right) \\
& \quad \left(-3 + 9c - 9c^2 - 3c^3 + 12c^4 - 6c^5 - 3c^6 \right) \}, \quad \{a \rightarrow \right. \\
& \quad \left. \frac{1}{-c^2 + c^3} \right. \\
& \quad \left(\frac{9}{4} - \right. \\
& \quad \frac{9c}{4} + \\
& \quad \frac{3c^3}{2} + \\
& \quad \frac{3}{2} \\
& \quad c^2 \\
& \quad \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \right. \right. \\
& \quad \left. \left. \frac{2(1-c+c^4)}{3c^2} + \right. \right. \\
& \quad \left. \left. (2^{1/3}(1-2c+c^2+2c^4+10c^5-12c^6+c^8)) \right) \right) \right. \\
& \quad \left. \left. (3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6- \right. \right. \\
& \quad 288c^7+114c^8+30c^9-36c^{10}+2c^{12}+ \\
& \quad \sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3}} + \right. \right)
\end{aligned}$$

$$\begin{aligned}
& \left. \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \right. \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \\
& \quad \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \\
& \quad 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})} \right)^{1/3} - \\
& \frac{3}{2} c^2 \sqrt{\left(\frac{(-1+c-2c^3)^2}{2c^4} - \frac{4(1-c+c^4)}{3c^2} - \left(2^{1/3} (1-2c+c^2+2c^4+ \right. \right. \\
& \quad 10c^5 - 12c^6 + c^8)) / \\
& \quad \left(3c^2 (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+30c^9- \right. \\
& \quad 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + \\
& \quad 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})} \right)^{1/3} - \\
& \quad \left. \frac{1}{3 \times 2^{1/3} c^2} (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \\
& \quad 114c^8+30c^9-36c^{10}+2c^{12}+ \\
& \quad \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \\
& \quad 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})} \right)^{1/3} - \\
& \quad \left. \left(- \frac{(-1+c-2c^3)^3}{c^6} + \frac{4(-1+c-2c^3)(1-c+c^4)}{c^4} \right) / \right. \\
& \quad \left(4 \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \\
& \quad (2^{1/3} (1-2c+c^2+2c^4+10c^5-12c^6+c^8)) / \\
& \quad \left(3c^2 (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+ \right. \\
& \quad 30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - \\
& \quad 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + \\
& \quad 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - \\
& \quad 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})} \right)^{1/3} \right) + \\
& \quad \left. \left. \left. \frac{1}{3 \times 2^{1/3} c^2} (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \\
& \quad 114c^8+30c^9-36c^{10}+2c^{12}+ \\
& \quad \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \\
& \quad 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})} \right)^{1/3} \right) \right) \Bigg), \\
d \rightarrow & - \frac{-1+c-2c^3}{4c^2} - \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \\
& \quad (2^{1/3} (1-2c+c^2+2c^4+10c^5-12c^6+c^8)) / \\
& \quad \left(3c^2 (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+30 \right. \\
& \quad c^9-36c^{10}+2c^{12}+\sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + \\
& \quad 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + \\
& \quad 138024c^{14} - 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})} \right)^{1/3} \Bigg) +
\end{aligned}$$

$$\begin{aligned}
& \left. \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \right. \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \\
& \quad \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264} \\
& \quad c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024 \\
& \quad c^{14} - 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \left. \right)^{1/3} + \\
& \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{2c^4} - \frac{4(1-c+c^4)}{3c^2} - (2^{1/3}(1-2c+c^2+2c^4+10c^5 - \right. \\
& \quad 12c^6+c^8)) \right) / \\
& \left(3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+30 \right. \\
& \quad c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + \\
& \quad 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + \\
& \quad 138024c^{14} - 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \left. \right)^{1/3}} - \\
& \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \\
& \quad \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264} \\
& \quad c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024 \\
& \quad c^{14} - 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \left. \right)^{1/3} - \\
& \left. \left(- \frac{(-1+c-2c^3)^3}{c^6} + \frac{4(-1+c-2c^3)(1-c+c^4)}{c^4} \right) \right) / \\
& \left(4 \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \\
& \quad \left(2^{1/3}(1-2c+c^2+2c^4+10c^5-12c^6+c^8) \right) / \\
& \quad \left(3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+ \right. \\
& \quad 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - \\
& \quad 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + \\
& \quad 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - \\
& \quad 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \left. \right)^{1/3}} + \\
& \quad \left. \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \\
& \quad \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \\
& \quad 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \left. \right)^{1/3} \right) \right) \right),
\end{aligned}$$

$$k \rightarrow \left(-2 + 6c - 6c^2 + 2c^4 + 2c^5 - 2c^6 - 2c^7 - \right. \\
\left. \frac{2}{c^2} \right. \\
\left. \left(- \frac{-1+c-2c^3}{4c^2} - \right. \right)$$

$$\begin{aligned}
& \frac{1}{2} \sqrt{\left(\frac{(-1 + c - 2c^3)^2}{4c^4} - \frac{2(1 - c + c^4)}{3c^2} + \right. \\
& \quad \left(2^{1/3} (1 - 2c + c^2 + 2c^4 + 10c^5 - 12c^6 + c^8) \right) / \\
& \quad \left(3c^2 (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - \right. \\
& \quad \left. 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \right. \\
& \quad \left. \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \right. \\
& \quad \left. 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \right. \\
& \quad \left. 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \right)^{1/3} \right) + \\
& \quad \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \\
& \quad \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \right. \\
& \quad \left. 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \right. \\
& \quad \left. 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \right)^{1/3} \right) + \\
& \frac{1}{2} \sqrt{\left(\frac{(-1 + c - 2c^3)^2}{2c^4} - \frac{4(1 - c + c^4)}{3c^2} - (2^{1/3} (1 - 2c + c^2 + 2c^4 + 10c^5 - \right. \\
& \quad \left. 12c^6 + c^8)) \right) / \left(3c^2 (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + \right. \\
& \quad \left. 231c^6 - 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \right. \\
& \quad \left. \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \right. \\
& \quad \left. 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \right. \\
& \quad \left. 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \right)^{1/3} \right) - \\
& \quad \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \\
& \quad \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \right. \\
& \quad \left. 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \right. \\
& \quad \left. 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \right)^{1/3} \right) - \\
& \quad \left(-\frac{(-1 + c - 2c^3)^3}{c^6} + \frac{4(-1 + c - 2c^3)(1 - c + c^4)}{c^4} \right) / \\
& \quad \left(4 \sqrt{\left(\frac{(-1 + c - 2c^3)^2}{4c^4} - \frac{2(1 - c + c^4)}{3c^2} + \right. \right. \\
& \quad \left(2^{1/3} (1 - 2c + c^2 + 2c^4 + 10c^5 - 12c^6 + c^8) \right) / \\
& \quad \left(3c^2 (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + 114c^8 + \right. \\
& \quad \left. 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - \right. \\
& \quad \left. 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + \right. \\
& \quad \left. 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - \right. \\
& \quad \left. 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \right)^{1/3} \right) + \\
& \quad \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - \\
& \quad 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + \\
& \quad 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + \\
& \quad 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544
\end{aligned}$$

$$\begin{aligned}
& \left(c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19} \right)^{1/3} \Bigg) \Bigg) \Bigg) \Bigg) + \\
& 6 c^3 \left(-\frac{-1+c-2c^3}{4c^2} - \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \right. \\
& \left. \left. \left. \left(2^{1/3} (1-2c+c^2+2c^4+10c^5-12c^6+c^8) \right) / \right. \right. \right. \\
& \left. \left. \left. \left(3c^2 (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6- \right. \right. \right. \\
& \left. \left. \left. 288c^7+114c^8+30c^9-36c^{10}+2c^{12}+ \right. \right. \right. \\
& \left. \left. \left. \sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \right. \\
& \left. \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \right. \\
& \left. \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}) \right)^{1/3} \right) + \right. \\
& \left. \frac{1}{3 \times 2^{1/3} c^2} (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \\
& \left. 114c^8+30c^9-36c^{10}+2c^{12}+ \right. \\
& \left. \sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \right. \\
& \left. \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \right. \\
& \left. \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}) \right)^{1/3} \right) + \right. \\
& \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{2c^4} - \frac{4(1-c+c^4)}{3c^2} - \left(2^{1/3} (1-2c+c^2+2c^4+10c^5- \right. \right. \right. \\
& \left. \left. \left. 12c^6+c^8) \right) / \left(3c^2 (2-6c+6c^2+25c^3-75c^4-3c^5+ \right. \right. \right. \\
& \left. \left. \left. 231c^6-288c^7+114c^8+30c^9-36c^{10}+2c^{12}+ \right. \right. \right. \\
& \left. \left. \left. \sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \right. \\
& \left. \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \right. \\
& \left. \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}) \right)^{1/3} \right) - \right. \\
& \left. \frac{1}{3 \times 2^{1/3} c^2} (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \\
& \left. 114c^8+30c^9-36c^{10}+2c^{12}+ \right. \\
& \left. \sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \right. \\
& \left. \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \right. \\
& \left. \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}) \right)^{1/3} \right) - \right. \\
& \left(-\frac{(-1+c-2c^3)^3}{c^6} + \frac{4(-1+c-2c^3)(1-c+c^4)}{c^4} \right) / \\
& \left(4 \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \right. \\
& \left. \left. \left. \left(2^{1/3} (1-2c+c^2+2c^4+10c^5-12c^6+c^8) \right) / \right. \right. \right. \\
& \left. \left. \left. \left(3c^2 (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+ \right. \right. \right. \\
& \left. \left. \left. 30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+1161c^6- \right. \right. \right. \\
& \left. \left. \left. 8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+ \right. \right. \right. \\
& \left. \left. \left. 30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}- \right. \right. \right. \\
& \left. \left. \left. 10044c^{16}+9828c^{17}-108c^{18}-432c^{19}) \right)^{1/3} \right) + \right. \\
& \left. \frac{1}{3 \times 2^{1/3} c^2} (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6- \right. \\
& \left. 288c^7+114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+ \right. \right. \right. \\
& \left. \left. \left. 1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+ \right. \right. \right. \\
& \left. \left. \left. 52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544 \right. \right. \right.
\end{aligned}$$

$$\begin{aligned}
& \left(c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19} \right)^{1/3} \Big) \Bigg) \Bigg) \Bigg) - \\
& 6 c^4 \left(-\frac{-1+c-2c^3}{4c^2} - \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \right. \\
& \left. \left. \left(2^{1/3} (1-2c+c^2+2c^4+10c^5-12c^6+c^8) \right) / \right. \right. \\
& \left. \left. \left(3c^2 (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6- \right. \right. \right. \\
& 288c^7+114c^8+30c^9-36c^{10}+2c^{12}+ \\
& \sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \\
& 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \\
& 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3}} + \right. \\
& \left. \frac{1}{3 \times 2^{1/3} c^2} (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \\
& 114c^8+30c^9-36c^{10}+2c^{12}+ \\
& \sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \\
& 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \\
& 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3}} + \right. \\
& \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{2c^4} - \frac{4(1-c+c^4)}{3c^2} - \left(2^{1/3} (1-2c+c^2+2c^4+10c^5- \right. \right. \right. \\
& 12c^6+c^8) \Big) / \left(3c^2 (2-6c+6c^2+25c^3-75c^4-3c^5+ \right. \right. \right. \\
& 231c^6-288c^7+114c^8+30c^9-36c^{10}+2c^{12}+ \\
& \sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \\
& 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \\
& 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3}} - \right. \\
& \left. \frac{1}{3 \times 2^{1/3} c^2} (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \\
& 114c^8+30c^9-36c^{10}+2c^{12}+ \\
& \sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \\
& 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \\
& 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3}} - \right. \\
& \left. \left(-\frac{(-1+c-2c^3)^3}{c^6} + \frac{4(-1+c-2c^3)(1-c+c^4)}{c^4} \right) / \right. \\
& \left. \left(4 \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \right. \right. \\
& \left. \left. \left. \left(2^{1/3} (1-2c+c^2+2c^4+10c^5-12c^6+c^8) \right) / \right. \right. \right. \\
& \left. \left. \left(3c^2 (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+ \right. \right. \right. \\
& 30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+1161c^6- \\
& 8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+ \\
& 30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}- \\
& 10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3}} + \right. \\
& \left. \frac{1}{3 \times 2^{1/3} c^2} (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6- \right. \\
& 288c^7+114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+ \\
& 1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+ \\
& 52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544
\end{aligned}$$

$$\begin{aligned}
& \left(c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19} \right)^{1/3} \Big) \Bigg) \Bigg) \Bigg) + \\
& 2 c^5 \left(-\frac{-1+c-2 c^3}{4 c^2} - \frac{1}{2} \sqrt{\left(\frac{(-1+c-2 c^3)^2}{4 c^4} - \frac{2 (1-c+c^4)}{3 c^2} + \right. \right. \right. \\
& \left. \left. \left. \left(2^{1/3} (1-2 c+c^2+2 c^4+10 c^5-12 c^6+c^8) \right) / \right. \right. \right. \\
& \left. \left. \left. \left(3 c^2 (2-6 c+6 c^2+25 c^3-75 c^4-3 c^5+231 c^6- \right. \right. \right. \\
& 288 c^7+114 c^8+30 c^9-36 c^{10}+2 c^{12}+ \\
& \sqrt{(108 c^3-648 c^4+1188 c^5+1161 c^6-8910 c^7+13419 c^8+6264 c^9- \\
& 47817 c^{10}+52002 c^{11}+30861 c^{12}-134352 c^{13}+138024 c^{14}- \\
& 50544 c^{15}-10044 c^{16}+9828 c^{17}-108 c^{18}-432 c^{19})^{1/3}} + \right. \right. \right. \\
& \left. \left. \left. \frac{1}{3 \times 2^{1/3} c^2} (2-6 c+6 c^2+25 c^3-75 c^4-3 c^5+231 c^6-288 c^7+ \right. \right. \right. \\
& 114 c^8+30 c^9-36 c^{10}+2 c^{12}+ \\
& \sqrt{(108 c^3-648 c^4+1188 c^5+1161 c^6-8910 c^7+13419 c^8+6264 c^9- \\
& 47817 c^{10}+52002 c^{11}+30861 c^{12}-134352 c^{13}+138024 c^{14}- \\
& 50544 c^{15}-10044 c^{16}+9828 c^{17}-108 c^{18}-432 c^{19})^{1/3}} + \right. \right. \right. \\
& \frac{1}{2} \sqrt{\left(\frac{(-1+c-2 c^3)^2}{2 c^4} - \frac{4 (1-c+c^4)}{3 c^2} - \left(2^{1/3} (1-2 c+c^2+2 c^4+10 c^5- \right. \right. \right. \\
& 12 c^6+c^8) \right) / \left(3 c^2 (2-6 c+6 c^2+25 c^3-75 c^4-3 c^5+ \right. \right. \right. \\
& 231 c^6-288 c^7+114 c^8+30 c^9-36 c^{10}+2 c^{12}+ \\
& \sqrt{(108 c^3-648 c^4+1188 c^5+1161 c^6-8910 c^7+13419 c^8+6264 c^9- \\
& 47817 c^{10}+52002 c^{11}+30861 c^{12}-134352 c^{13}+138024 c^{14}- \\
& 50544 c^{15}-10044 c^{16}+9828 c^{17}-108 c^{18}-432 c^{19})^{1/3}} - \right. \right. \right. \\
& \frac{1}{3 \times 2^{1/3} c^2} (2-6 c+6 c^2+25 c^3-75 c^4-3 c^5+231 c^6-288 c^7+ \right. \right. \right. \\
& 114 c^8+30 c^9-36 c^{10}+2 c^{12}+ \\
& \sqrt{(108 c^3-648 c^4+1188 c^5+1161 c^6-8910 c^7+13419 c^8+6264 c^9- \\
& 47817 c^{10}+52002 c^{11}+30861 c^{12}-134352 c^{13}+138024 c^{14}- \\
& 50544 c^{15}-10044 c^{16}+9828 c^{17}-108 c^{18}-432 c^{19})^{1/3}} - \right. \right. \right. \\
& \left(-\frac{(-1+c-2 c^3)^3}{c^6} + \frac{4 (-1+c-2 c^3) (1-c+c^4)}{c^4} \right) / \right. \right. \right. \\
& \left(4 \sqrt{\left(\frac{(-1+c-2 c^3)^2}{4 c^4} - \frac{2 (1-c+c^4)}{3 c^2} + \right. \right. \right. \\
& \left. \left. \left. \left(2^{1/3} (1-2 c+c^2+2 c^4+10 c^5-12 c^6+c^8) \right) / \right. \right. \right. \\
& \left. \left. \left. \left(3 c^2 (2-6 c+6 c^2+25 c^3-75 c^4-3 c^5+231 c^6-288 c^7+114 c^8+ \right. \right. \right. \\
& 30 c^9-36 c^{10}+2 c^{12}+\sqrt{(108 c^3-648 c^4+1188 c^5+1161 c^6- \\
& 8910 c^7+13419 c^8+6264 c^9-47817 c^{10}+52002 c^{11}+ \\
& 30861 c^{12}-134352 c^{13}+138024 c^{14}-50544 c^{15}- \\
& 10044 c^{16}+9828 c^{17}-108 c^{18}-432 c^{19})^{1/3}} + \right. \right. \right. \\
& \frac{1}{3 \times 2^{1/3} c^2} (2-6 c+6 c^2+25 c^3-75 c^4-3 c^5+231 c^6- \\
& 288 c^7+114 c^8+30 c^9-36 c^{10}+2 c^{12}+\sqrt{(108 c^3-648 c^4+ \\
& 1188 c^5+1161 c^6-8910 c^7+13419 c^8+6264 c^9-47817 c^{10}+ \\
& 52002 c^{11}+30861 c^{12}-134352 c^{13}+138024 c^{14}-50544
\end{aligned}$$

$$\begin{aligned}
& \left. \left. \left. \left. \left(c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19} \right)^{1/3} \right) \right) \right) \right) + \\
& 2 c^5 \left(-\frac{-1+c-2c^3}{4c^2} - \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + (2^{1/3} \right. \right. \right. \\
& \left. \left. \left. (1-2c+c^2+2c^4+10c^5-12c^6+c^8)) \right) / \right. \right. \right. \\
& \left. \left. \left. (3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \right. \\
& \left. \left. \left. 114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+ \right. \right. \right. \\
& \left. \left. \left. 1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+ \right. \right. \right. \\
& \left. \left. \left. 52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \right. \\
& \left. \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3} \right) + \right. \right. \right. \\
& \left. \left. \left. \frac{1}{3 \times 2^{1/3} c^2} (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \right. \\
& \left. \left. \left. 114c^8+30c^9-36c^{10}+2c^{12}+ \right. \right. \right. \\
& \left. \left. \left. \sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \right. \\
& \left. \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \right. \\
& \left. \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3} \right) + \right. \right. \right. \\
& \left. \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{2c^4} - \frac{4(1-c+c^4)}{3c^2} - (2^{1/3} (1-2c+c^2+2c^4+ \right. \right. \right. \\
& \left. \left. \left. 10c^5-12c^6+c^8)) \right) / (3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+ \right. \right. \right. \\
& \left. \left. \left. 231c^6-288c^7+114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3- \right. \right. \right. \\
& \left. \left. \left. 648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \right. \\
& \left. \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \right. \\
& \left. \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3} \right) - \right. \right. \right. \\
& \left. \frac{1}{3 \times 2^{1/3} c^2} (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \right. \\
& \left. \left. \left. 114c^8+30c^9-36c^{10}+2c^{12}+ \right. \right. \right. \\
& \left. \left. \left. \sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \right. \\
& \left. \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \right. \\
& \left. \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3} \right) - \right. \right. \right. \\
& \left(-\frac{(-1+c-2c^3)^3}{c^6} + \frac{4(-1+c-2c^3)(1-c+c^4)}{c^4} \right) / \\
& \left(4 \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \right. \\
& \left. \left. \left. (2^{1/3} (1-2c+c^2+2c^4+10c^5-12c^6+c^8)) \right) / \right. \right. \right. \\
& \left. \left. \left. (3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+ \right. \right. \right. \\
& \left. \left. \left. 30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3}} \right) + \right. \right. \right. \\
& \left. \frac{1}{3 \times 2^{1/3} c^2} (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \right. \\
& \left. \left. \left. 114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3}} \right) \right) +
\end{aligned}$$

$$\begin{aligned}
& \left(10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19} \right)^{1/3} \Bigg) \Bigg) \Bigg) \Bigg)^2 - \\
& 2c^6 \left(-\frac{-1+c-2c^3}{4c^2} - \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \left(2^{1/3} \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left(1-2c+c^2+2c^4+10c^5-12c^6+c^8 \right) \right) / \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left(3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \right. \right. \\
& \left. \left. \left. \left. 114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{108c^3-648c^4+1188c^5+ \right. \right. \right. \right. \\
& \left. \left. \left. \left. 1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+ \right. \right. \right. \right. \\
& \left. \left. \left. \left. 52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \right. \right. \\
& \left. \left. \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19} \right) \right)^{1/3} \right) + \\
& \frac{1}{3 \times 2^{1/3} c^2} \left(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \right. \right. \\
& \left. \left. \left. \left. 114c^8+30c^9-36c^{10}+2c^{12}+ \right. \right. \right. \right. \\
& \left. \left. \left. \left. \sqrt{108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \right. \right. \\
& \left. \left. \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \right. \right. \\
& \left. \left. \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19} \right) \right)^{1/3} \right) + \\
& \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{2c^4} - \frac{4(1-c+c^4)}{3c^2} - \left(2^{1/3} (1-2c+c^2+2c^4+ \right. \right. \right. \right. \\
& \left. \left. \left. \left. 10c^5-12c^6+c^8) \right) / \left(3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+ \right. \right. \right. \right. \\
& \left. \left. \left. \left. 231c^6-288c^7+114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{108c^3- \right. \right. \right. \right. \\
& \left. \left. \left. \left. 648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \right. \right. \\
& \left. \left. \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \right. \right. \\
& \left. \left. \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}) \right) \right)^{1/3} } - \\
& \frac{1}{3 \times 2^{1/3} c^2} \left(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \right. \right. \\
& \left. \left. \left. \left. 114c^8+30c^9-36c^{10}+2c^{12}+ \right. \right. \right. \right. \\
& \left. \left. \left. \left. \sqrt{108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \right. \right. \\
& \left. \left. \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \right. \right. \\
& \left. \left. \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}) \right) \right)^{1/3} - \\
& \left(-\frac{(-1+c-2c^3)^3}{c^6} + \frac{4(-1+c-2c^3)(1-c+c^4)}{c^4} \right) / \\
& \left(4 \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left(2^{1/3} (1-2c+c^2+2c^4+10c^5-12c^6+c^8) \right) / \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left(3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+ \right. \right. \right. \right. \\
& \left. \left. \left. \left. 30c^9-36c^{10}+2c^{12}+\sqrt{108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}) \right) \right)^{1/3} } + \right. \right. \right. \\
& \left. \frac{1}{3 \times 2^{1/3} c^2} \left(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \right. \right. \\
& \left. \left. \left. \left. 114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}} \right) \right) \right)
\end{aligned}$$

$$\begin{aligned}
& \left. \left. \left. \left. \left. \left. \left(10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19} \right) \right)^{1/3} \right) \right) \right) \right) \right)^2 - \\
& 2 c^4 \left(- \frac{-1+c-2c^3}{4c^2} - \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \left(2^{1/3} \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left. \left. \left(1-2c+c^2+2c^4+10c^5-12c^6+c^8 \right) \right) / \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left. \left. \left(3c^2 (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left. \left. \left. 114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+ \right. \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left. \left. \left. 1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+ \right. \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left. \left. \left. 52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left. \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}) \right)^{1/3} \right) + \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left. \left. \left. \frac{1}{3 \times 2^{1/3} c^2} (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left. \left. \left. 114c^8+30c^9-36c^{10}+2c^{12}+ \right. \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left. \left. \left. \sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left. \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left. \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}) \right)^{1/3} \right) + \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left. \left. \left. \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{2c^4} - \frac{4(1-c+c^4)}{3c^2} - \left(2^{1/3} (1-2c+c^2+2c^4+ \right. \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left. \left. \left. 10c^5-12c^6+c^8) \right) / \left(3c^2 (2-6c+6c^2+25c^3-75c^4-3c^5+ \right. \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left. \left. \left. 231c^6-288c^7+114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3- \right. \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left. \left. \left. 648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left. \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left. \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}) \right)^{1/3} \right) - \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left. \left. \left. \frac{1}{3 \times 2^{1/3} c^2} (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left. \left. \left. 114c^8+30c^9-36c^{10}+2c^{12}+ \right. \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left. \left. \left. \sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left. \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left. \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}) \right)^{1/3} \right) - \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left. \left. \left(- \frac{(-1+c-2c^3)^3}{c^6} + \frac{4(-1+c-2c^3)(1-c+c^4)}{c^4} \right) / \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left. \left. \left(4 \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left. \left. \left. (2^{1/3} (1-2c+c^2+2c^4+10c^5-12c^6+c^8) \right) / \right. \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left. \left. \left. (3c^2 (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+ \right. \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left. \left. \left. 30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}) \right)^{1/3} \right) + \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left. \left. \left. \frac{1}{3 \times 2^{1/3} c^2} (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left. \left. \left. 114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}} \right) \right. \right. \right. \right. \right. \right.
\end{aligned}$$

$$\begin{aligned}
& \left. \left. \left. \left(10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19} \right) \right)^{1/3} \right) \right) \right)^3 + \\
& 2c^5 \left(-\frac{-1+c-2c^3}{4c^2} - \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + (2^{1/3}) \right. \right. \right. \\
& \left. \left. \left. \left(1-2c+c^2+2c^4+10c^5-12c^6+c^8 \right) \right) / \right. \\
& \left. \left. \left(3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \right. \\
& \left. \left. \left. 114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+ \right. \right. \right. \\
& \left. \left. \left. 1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+ \right. \right. \right. \\
& \left. \left. \left. 52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \right. \\
& \left. \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}) \right)^{1/3} \right) + \right. \\
& \left. \frac{1}{3 \times 2^{1/3} c^2} \left(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \\
& \left. \left. 114c^8+30c^9-36c^{10}+2c^{12}+ \right. \right. \\
& \left. \left. \sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \\
& \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \\
& \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}) \right)^{1/3} \right) + \right. \\
& \left. \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{2c^4} - \frac{4(1-c+c^4)}{3c^2} - (2^{1/3}(1-2c+c^2+2c^4+ \right. \right. \right. \\
& \left. \left. \left. 10c^5-12c^6+c^8)) / \right(3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+ \right. \right. \right. \\
& \left. \left. \left. 231c^6-288c^7+114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3- \right. \right. \right. \\
& \left. \left. \left. 648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \right. \\
& \left. \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \right. \\
& \left. \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}) \right)^{1/3} \right) - \right. \\
& \left. \frac{1}{3 \times 2^{1/3} c^2} \left(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \\
& \left. \left. 114c^8+30c^9-36c^{10}+2c^{12}+ \right. \right. \\
& \left. \left. \sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \\
& \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \\
& \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}) \right)^{1/3} \right) - \right. \\
& \left. \left(-\frac{(-1+c-2c^3)^3}{c^6} + \frac{4(-1+c-2c^3)(1-c+c^4)}{c^4} \right) / \right. \\
& \left. \left(4 \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \right. \right. \\
& \left. \left. \left. \left. (2^{1/3}(1-2c+c^2+2c^4+10c^5-12c^6+c^8)) / \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left(3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+ \right. \right. \right. \right. \\
& \left. \left. \left. \left. 30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}) \right)^{1/3} \right) + \right. \right. \\
& \left. \frac{1}{3 \times 2^{1/3} c^2} \left(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \\
& \left. \left. 114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}} - \right. \right. \right.
\end{aligned}$$

$$\begin{aligned}
& \left. \frac{\left(-3 + 9c - 9c^2 - 3c^3 + 12c^4 - 6c^5 - 3c^6 \right) \}}{-c^2 + c^3} \right\}, \quad \{a \rightarrow \\
& \left. \frac{1}{-c^2 + c^3} \right\} \\
& \left(\frac{9}{4} - \frac{3c^3}{2} - \frac{3}{2}c^2 \right. \\
& \left. + \frac{9c}{4} + \frac{2(1-c+c^4)}{3c^2} \right. \\
& \left. \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} \right. \right. \\
& \left. \left. + (2^{1/3} \right. \right. \\
& \left. \left. (1-2c+c^2+2c^4+10c^5-12c^6+c^8) \right) \right) / \\
& \left. \left. \left(3c^2 (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \right. \\
& \left. \left. \left. 114c^8+30c^9-36c^{10}+2c^{12}+ \right. \right. \right. \\
& \left. \left. \left. \sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \right. \\
& \left. \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \right. \\
& \left. \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}) \right)^{1/3} \right) + \right. \\
& \left. \frac{1}{3 \times 2^{1/3} c^2} \left(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \\
& \left. \left. 114c^8+30c^9-36c^{10}+2c^{12}+ \right. \right. \\
& \left. \left. \sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \right. \\
& \left. \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \right. \\
& \left. \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}) \right)^{1/3} \right) + \right. \\
& \left. \frac{3}{2}c^2 \sqrt{\left(\frac{(-1+c-2c^3)^2}{2c^4} - \frac{4(1-c+c^4)}{3c^2} - (2^{1/3} (1-2c+c^2+2c^4+ \right. \right. \\
& \left. \left. 10c^5-12c^6+c^8)) \right) / \right. \\
& \left. \left. \left(3c^2 (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \right. \\
& \left. \left. \left. 114c^8+30c^9-36c^{10}+2c^{12}+ \right. \right. \right. \\
& \left. \left. \left. \sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \right. \\
& \left. \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \right. \\
& \left. \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}) \right)^{1/3} \right) - \right. \\
& \left. \frac{1}{3 \times 2^{1/3} c^2} \left(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \\
& \left. \left. 114c^8+30c^9-36c^{10}+2c^{12}+ \right. \right. \\
& \left. \left. \sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \right. \\
& \left. \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \right. \\
& \left. \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19}) \right)^{1/3} \right) + \right.
\end{aligned}$$

$$\begin{aligned}
& \left(-\frac{(-1 + c - 2c^3)^3}{c^6} + \frac{4(-1 + c - 2c^3)(1 - c + c^4)}{c^4} \right) / \\
& \left(4 \sqrt{\left(\frac{(-1 + c - 2c^3)^2}{4c^4} - \frac{2(1 - c + c^4)}{3c^2} + \right. \right. \right. \\
& \left. \left. \left. \left(2^{1/3} (1 - 2c + c^2 + 2c^4 + 10c^5 - 12c^6 + c^8) \right) / \right. \right. \right. \\
& \left. \left. \left. \left(3c^2 (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + 114c^8 + \right. \right. \right. \\
& \left. \left. \left. \left. 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})} \right)^{1/3} \right) + \right. \\
& \left. \left. \left. \left. \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})} \right)^{1/3} \right) \right) \right) \\
d \rightarrow & -\frac{-1 + c - 2c^3}{4c^2} + \frac{1}{2} \sqrt{\left(\frac{(-1 + c - 2c^3)^2}{4c^4} - \frac{2(1 - c + c^4)}{3c^2} + \right. \right. \\
& \left(2^{1/3} (1 - 2c + c^2 + 2c^4 + 10c^5 - 12c^6 + c^8) \right) / \\
& \left(3c^2 (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})} \right)^{1/3} \right) + \\
& \left. \left. \left. \left. \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})} \right)^{1/3} \right) - \right. \\
& \left. \frac{1}{2} \sqrt{\left(\frac{(-1 + c - 2c^3)^2}{2c^4} - \frac{4(1 - c + c^4)}{3c^2} - (2^{1/3} (1 - 2c + c^2 + 2c^4 + 10c^5 - 12c^6 + c^8) / \right. \right. \right. \\
& \left. \left. \left. (3c^2 (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})} \right)^{1/3} \right) - \right. \\
& \left. \left. \left. \left. \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})} \right)^{1/3} \right) + \right. \\
& \left. \left. \left. \left. \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})} \right)^{1/3} \right) + \right.
\end{aligned}$$

$$\begin{aligned}
& \left(-\frac{(-1 + c - 2c^3)^3}{c^6} + \frac{4(-1 + c - 2c^3)(1 - c + c^4)}{c^4} \right) / \\
& \left(4 \sqrt{\left(\frac{(-1 + c - 2c^3)^2}{4c^4} - \frac{2(1 - c + c^4)}{3c^2} + \right. \right. \right. \\
& \left. \left. \left. \left(2^{1/3} (1 - 2c + c^2 + 2c^4 + 10c^5 - 12c^6 + c^8) \right) / \right. \right. \\
& \left. \left. \left. \left(3c^2 (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + 114c^8 + \right. \right. \right. \\
& \left. \left. \left. \left. 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - \right. \right. \right. \\
& \left. \left. \left. \left. 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + \right. \right. \right. \\
& \left. \left. \left. \left. 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - \right. \right. \right. \\
& \left. \left. \left. \left. 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \right)^{1/3} \right) + \right. \\
& \left. \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \\
& \left. 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \right. \\
& \left. \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \right. \\
& \left. 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \right. \\
& \left. 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \right)^{1/3} \right) \Bigg) \Bigg) \Bigg),
\end{aligned}$$

$$k \rightarrow \left(-2 + 6c - 6c^2 + 2c^4 + 2c^5 - 2c^6 - 2c^7 - \right. \\
\left. \frac{2}{c^2} \right. \\
\left. \left(-\frac{-1 + c - 2c^3}{4c^2} + \right. \right. \\
\left. \left. \frac{1}{2} \right. \right. \\
\left. \left. \sqrt{\left(\frac{(-1 + c - 2c^3)^2}{4c^4} - \frac{2(1 - c + c^4)}{3c^2} + \right. \right. \right. \\
\left. \left. \left. \left(2^{1/3} (1 - 2c + c^2 + 2c^4 + 10c^5 - 12c^6 + c^8) \right) / \right. \right. \right. \\
\left. \left. \left. \left(3c^2 (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - \right. \right. \right. \\
\left. \left. \left. 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \right. \right. \right. \\
\left. \left. \left. \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \right. \right. \right. \\
\left. \left. \left. 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \right. \right. \right. \\
\left. \left. \left. 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \right)^{1/3} \right) + \right. \\
\left. \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \\
\left. 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \right. \\
\left. \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \right. \\
\left. 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \right. \\
\left. 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \right)^{1/3} \right) \Bigg) - \\
\frac{1}{2} \sqrt{\left(\frac{(-1 + c - 2c^3)^2}{2c^4} - \frac{4(1 - c + c^4)}{3c^2} - \left(2^{1/3} (1 - 2c + c^2 + 2c^4 + 10c^5 - \right. \right. \right. \\
\left. \left. \left. 12c^6 + c^8) \right) / \right. \right. \right. \\
\left. \left. \left. \left(3c^2 (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - \right. \right. \right. \\
\left. \left. \left. 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \right. \right. \right. \\
\left. \left. \left. \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \right. \right. \right. \\
\left. \left. \left. 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \right. \right. \right. \\
\left. \left. \left. 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \right)^{1/3} \right) - \right)
\end{math>$$

$$\begin{aligned}
& \frac{12 c^6 + c^8)}{(3 c^2 (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + \\
& 231 c^6 - 288 c^7 + 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \\
& \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \\
& 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \\
& 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})})^{1/3}} - \\
& \frac{1}{3 \times 2^{1/3} c^2} (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + \\
& 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \\
& \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \\
& 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \\
& 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})})^{1/3} + \\
& \left(-\frac{(-1 + c - 2 c^3)^3}{c^6} + \frac{4 (-1 + c - 2 c^3) (1 - c + c^4)}{c^4} \right) / \\
& \left(4 \sqrt{\left(\frac{(-1 + c - 2 c^3)^2}{4 c^4} - \frac{2 (1 - c + c^4)}{3 c^2} + \right. \right. \right. \\
& \left. \left. \left. (2^{1/3} (1 - 2 c + c^2 + 2 c^4 + 10 c^5 - 12 c^6 + c^8)) / \right. \right. \right. \\
& \left. \left. \left. (3 c^2 (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + 114 c^8 + \right. \right. \right. \\
& 30 c^9 - 36 c^{10} + 2 c^{12} + \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - \\
& 8910 c^7 + 13419 c^8 + 6264 c^9 - 47817 c^{10} + 52002 c^{11} + \\
& 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - 50544 c^{15} - \\
& 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})})^{1/3} \right) + \\
& \frac{1}{3 \times 2^{1/3} c^2} (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - \\
& 288 c^7 + 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \sqrt{(108 c^3 - 648 c^4 + \\
& 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - 47817 c^{10} + \\
& 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - 50544 \\
& c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})})^{1/3} \right) \Bigg) + \\
& 6 c^3 \left(-\frac{-1 + c - 2 c^3}{4 c^2} + \frac{1}{2} \sqrt{\left(\frac{(-1 + c - 2 c^3)^2}{4 c^4} - \frac{2 (1 - c + c^4)}{3 c^2} + \right. \right. \right. \\
& \left. \left. \left. (2^{1/3} (1 - 2 c + c^2 + 2 c^4 + 10 c^5 - 12 c^6 + c^8)) / \right. \right. \right. \\
& \left. \left. \left. (3 c^2 (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - \right. \right. \right. \\
& 288 c^7 + 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \\
& \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \\
& 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \\
& 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})})^{1/3} \right) + \\
& \frac{1}{3 \times 2^{1/3} c^2} (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + \\
& 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \\
& \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \\
& 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \\
& 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})})^{1/3} \Bigg) - \\
& \frac{1}{2} \sqrt{\left(\frac{(-1 + c - 2 c^3)^2}{2 c^4} - \frac{4 (1 - c + c^4)}{3 c^2} - (2^{1/3} (1 - 2 c + c^2 + 2 c^4 + 10 c^5 - \right. \right. \right. \\
& \left. \left. \left. 12 c^6 + c^8)) / \right. \right. \right. \\
& \left. \left. \left. (3 c^2 (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + \right. \right. \right. \\
& 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \\
& \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \\
& 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \\
& 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})})^{1/3} \right) -
\end{aligned}$$

$$\begin{aligned}
& \left(12 c^6 + c^8 \right) / \left(3 c^2 (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + \right. \\
& \quad \left. 231c^6 - 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \right. \\
& \quad \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \\
& \quad 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})})^{1/3} \right) - \\
& \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \\
& \quad 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})})^{1/3} + \\
& \left(-\frac{(-1+c-2c^3)^3}{c^6} + \frac{4(-1+c-2c^3)(1-c+c^4)}{c^4} \right) / \\
& \left(4 \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \right. \\
& \quad \left. \left. \left. \left(2^{1/3} (1 - 2c + c^2 + 2c^4 + 10c^5 - 12c^6 + c^8) \right) / \right. \right. \right. \\
& \quad \left. \left. \left. \left(3c^2 (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + 114c^8 + \right. \right. \right. \\
& \quad \left. \left. \left. 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - \right. \right. \right. \\
& \quad \left. \left. \left. 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + \right. \right. \right. \\
& \quad \left. \left. \left. 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - \right. \right. \right. \\
& \quad \left. \left. \left. 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \right)^{1/3} \right) + \right. \\
& \quad \left. \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - \right. \\
& \quad 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + \\
& \quad 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + \\
& \quad 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - \\
& \quad 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})})^{1/3} \right) \Bigg) \Bigg) - \\
& 6c^4 \left(-\frac{-1+c-2c^3}{4c^2} + \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \right. \\
& \quad \left. \left. \left. \left(2^{1/3} (1 - 2c + c^2 + 2c^4 + 10c^5 - 12c^6 + c^8) \right) / \right. \right. \right. \\
& \quad \left. \left. \left. \left(3c^2 (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - \right. \right. \right. \\
& \quad 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \\
& \quad 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})})^{1/3} \right) + \right. \\
& \quad \left. \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \\
& \quad 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})})^{1/3} \right) \Bigg) - \\
& \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{2c^4} - \frac{4(1-c+c^4)}{3c^2} - \left(2^{1/3} (1 - 2c + c^2 + 2c^4 + 10c^5 - \right. \right. \right. \\
& \quad \left. \left. \left. 12c^6 + c^8) \right) / \right. \left(3c^2 (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \right. \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \\
& \quad 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})})^{1/3} \right) - }
\end{aligned}$$

$$\begin{aligned}
& \frac{12 c^6 + c^8)}{(3 c^2 (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + \\
& 231 c^6 - 288 c^7 + 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \\
& \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \\
& 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \\
& 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})})^{1/3}} - \\
& \frac{1}{3 \times 2^{1/3} c^2} (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + \\
& 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \\
& \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \\
& 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \\
& 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})})^{1/3} + \\
& \left(-\frac{(-1 + c - 2 c^3)^3}{c^6} + \frac{4 (-1 + c - 2 c^3) (1 - c + c^4)}{c^4} \right) / \\
& \left(4 \sqrt{\left(\frac{(-1 + c - 2 c^3)^2}{4 c^4} - \frac{2 (1 - c + c^4)}{3 c^2} + \right. \right. \right. \\
& \left. \left. \left. (2^{1/3} (1 - 2 c + c^2 + 2 c^4 + 10 c^5 - 12 c^6 + c^8)) \right) / \right. \\
& \left. \left. \left(3 c^2 (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + 114 c^8 + \right. \right. \right. \\
& \left. \left. \left. 30 c^9 - 36 c^{10} + 2 c^{12} + \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - \right. \right. \right. \\
& \left. \left. \left. 8910 c^7 + 13419 c^8 + 6264 c^9 - 47817 c^{10} + 52002 c^{11} + \right. \right. \right. \\
& \left. \left. \left. 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - 50544 c^{15} - \right. \right. \right. \\
& \left. \left. \left. 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})})^{1/3} \right) + \\
& \left. \left. \left. \frac{1}{3 \times 2^{1/3} c^2} (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - \right. \right. \right. \\
& \left. \left. \left. 288 c^7 + 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \sqrt{(108 c^3 - 648 c^4 + \right. \right. \right. \\
& \left. \left. \left. 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - 47817 c^{10} + \right. \right. \right. \\
& \left. \left. \left. 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - 50544 \right. \right. \right. \\
& \left. \left. \left. c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})})^{1/3} \right) \right) \right) + \\
& 2 c^5 \left(-\frac{-1 + c - 2 c^3}{4 c^2} + \frac{1}{2} \sqrt{\left(\frac{(-1 + c - 2 c^3)^2}{4 c^4} - \frac{2 (1 - c + c^4)}{3 c^2} + \right. \right. \right. \\
& \left. \left. \left. (2^{1/3} (1 - 2 c + c^2 + 2 c^4 + 10 c^5 - 12 c^6 + c^8)) \right) / \right. \\
& \left. \left. \left(3 c^2 (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - \right. \right. \right. \\
& \left. \left. \left. 288 c^7 + 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \right. \right. \right. \\
& \left. \left. \left. \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \right. \right. \right. \\
& \left. \left. \left. 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \right. \right. \right. \\
& \left. \left. \left. 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})})^{1/3} \right) + \right. \\
& \left. \left. \left. \frac{1}{3 \times 2^{1/3} c^2} (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + \right. \right. \right. \\
& \left. \left. \left. 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \right. \right. \right. \\
& \left. \left. \left. \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \right. \right. \right. \\
& \left. \left. \left. 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \right. \right. \right. \\
& \left. \left. \left. 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})})^{1/3} \right) \right) - \\
& \frac{1}{2} \sqrt{\left(\frac{(-1 + c - 2 c^3)^2}{2 c^4} - \frac{4 (1 - c + c^4)}{3 c^2} - (2^{1/3} (1 - 2 c + c^2 + 2 c^4 + 10 c^5 - \right. \right. \right. \\
& \left. \left. \left. 12 c^6 + c^8)) \right) / \left(3 c^2 (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + \right. \right. \right. \\
& \left. \left. \left. 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \right. \right. \right. \\
& \left. \left. \left. \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \right. \right. \right. \\
& \left. \left. \left. 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \right. \right. \right. \\
& \left. \left. \left. 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})})^{1/3} \right) - }
\end{aligned}$$

$$\begin{aligned}
& \frac{12 c^6 + c^8)}{\left(3 c^2 (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + \right. \\
& \left. 231 c^6 - 288 c^7 + 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \right. \\
& \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \\
& 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \\
& 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})})^{1/3}} - \\
& \frac{1}{3 \times 2^{1/3} c^2} (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + \\
& 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \\
& 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \\
& 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})})^{1/3} + \\
& \left(-\frac{(-1 + c - 2 c^3)^3}{c^6} + \frac{4 (-1 + c - 2 c^3) (1 - c + c^4)}{c^4} \right) / \\
& \left(4 \sqrt{\left(\frac{(-1 + c - 2 c^3)^2}{4 c^4} - \frac{2 (1 - c + c^4)}{3 c^2} + \right. \right. \\
& \left. \left. (2^{1/3} (1 - 2 c + c^2 + 2 c^4 + 10 c^5 - 12 c^6 + c^8)) \right) / \right. \\
& \left. \left(3 c^2 (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + 114 c^8 + \right. \right. \\
& 30 c^9 - 36 c^{10} + 2 c^{12} + \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - \\
& 8910 c^7 + 13419 c^8 + 6264 c^9 - 47817 c^{10} + 52002 c^{11} + \\
& 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - 50544 c^{15} - \\
& 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})})^{1/3} \right) + \\
& \frac{1}{3 \times 2^{1/3} c^2} (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - \\
& 288 c^7 + 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \sqrt{(108 c^3 - 648 c^4 + \\
& 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - 47817 c^{10} + \\
& 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - 50544 \\
& c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})})^{1/3} \Big) \Big) \Big) + \\
& 2 c^5 \left(-\frac{-1 + c - 2 c^3}{4 c^2} + \frac{1}{2} \sqrt{\left(\frac{(-1 + c - 2 c^3)^2}{4 c^4} - \frac{2 (1 - c + c^4)}{3 c^2} + (2^{1/3} \right. \right. \\
& \left. \left. (1 - 2 c + c^2 + 2 c^4 + 10 c^5 - 12 c^6 + c^8)) \right) / \right. \\
& \left. \left(3 c^2 (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + \right. \right. \\
& 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + \\
& 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - 47817 c^{10} + \\
& 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \\
& 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})})^{1/3} \right) + \\
& \frac{1}{3 \times 2^{1/3} c^2} (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + \\
& 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \\
& 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \\
& 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})})^{1/3} \Big) - \\
& \frac{1}{2} \sqrt{\left(\frac{(-1 + c - 2 c^3)^2}{2 c^4} - \frac{4 (1 - c + c^4)}{3 c^2} - (2^{1/3} (1 - 2 c + c^2 + 2 c^4 + \right. \right. \\
& \left. \left. 10 c^5 - 12 c^6 + c^8)) \right) / \left(3 c^2 (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + \right. \right. \\
& 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \\
& 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \\
& 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})})^{1/3} \right) -
\end{aligned}$$

$$\begin{aligned}
& \left(10 c^5 - 12 c^6 + c^8 \right) \Big/ \left(3 c^2 (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + \right. \\
& \quad \left. 231 c^6 - 288 c^7 + 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \sqrt{(108 c^3 - \right. \\
& \quad \left. 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \right. \\
& \quad \left. 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \right. \\
& \quad \left. 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19}) \right)^{1/3} \Big) - \\
& \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + \right. \\
& \quad \left. 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \right. \\
& \quad \left. \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \right. \\
& \quad \left. 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \right. \\
& \quad \left. 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19}) \right)^{1/3} + \\
& \left(- \frac{(-1 + c - 2 c^3)^3}{c^6} + \frac{4 (-1 + c - 2 c^3) (1 - c + c^4)}{c^4} \right) \Big/ \\
& \left(4 \sqrt{\left(\frac{(-1 + c - 2 c^3)^2}{4 c^4} - \frac{2 (1 - c + c^4)}{3 c^2} + \right. \right. \\
& \quad \left. \left. (2^{1/3} (1 - 2 c + c^2 + 2 c^4 + 10 c^5 - 12 c^6 + c^8)) \right) \Big/ \right. \\
& \quad \left. \left(3 c^2 (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + 114 c^8 + \right. \right. \\
& \quad \left. \left. 30 c^9 - 36 c^{10} + 2 c^{12} + \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 \right. \right. \\
& \quad \left. \left. c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - 47817 c^{10} + 52002 \right. \right. \\
& \quad \left. \left. c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - 50544 \right. \right. \\
& \quad \left. \left. c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19}) \right)^{1/3} \right) + \\
& \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + \right. \\
& \quad \left. 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + \right. \\
& \quad \left. 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - 47817 c^{10} + 52002 \right. \\
& \quad \left. c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - 50544 c^{15} - \right. \\
& \quad \left. 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19}) \right)^{1/3} \Big) \Big) \Big) \Big)^2 - \\
& 2 c^6 \left(- \frac{-1 + c - 2 c^3}{4 c^2} + \frac{1}{2} \sqrt{\left(\frac{(-1 + c - 2 c^3)^2}{4 c^4} - \frac{2 (1 - c + c^4)}{3 c^2} + (2^{1/3} \right. \right. \\
& \quad \left. \left. (1 - 2 c + c^2 + 2 c^4 + 10 c^5 - 12 c^6 + c^8)) \right) \Big/ \right. \right. \\
& \quad \left. \left. (3 c^2 (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + \right. \right. \\
& \quad \left. \left. 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + \right. \right. \\
& \quad \left. \left. 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - 47817 c^{10} + \right. \right. \\
& \quad \left. \left. 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \right. \right. \\
& \quad \left. \left. 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19}) \right)^{1/3} \right) + \\
& \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + \right. \\
& \quad \left. 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \right. \\
& \quad \left. \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \right. \\
& \quad \left. 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \right. \\
& \quad \left. 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19}) \right)^{1/3} \Big) - \\
& \frac{1}{2} \sqrt{\left(\frac{(-1 + c - 2 c^3)^2}{2 c^4} - \frac{4 (1 - c + c^4)}{3 c^2} - (2^{1/3} (1 - 2 c + c^2 + 2 c^4 + \right. \right. \\
& \quad \left. \left.
\end{aligned}$$

$$\begin{aligned}
& \left(10 c^5 - 12 c^6 + c^8 \right) / \left(3 c^2 (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + \right. \\
& \quad \left. 231 c^6 - 288 c^7 + 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \sqrt{(108 c^3 - \right. \\
& \quad \left. 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \right. \\
& \quad \left. 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \right. \\
& \quad \left. 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19}) \right)^{1/3} \right) - \\
& \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + \right. \\
& \quad \left. 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \right. \\
& \quad \left. \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \right. \\
& \quad \left. 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \right. \\
& \quad \left. 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19}) \right)^{1/3} + \\
& \left(- \frac{(-1 + c - 2 c^3)^3}{c^6} + \frac{4 (-1 + c - 2 c^3) (1 - c + c^4)}{c^4} \right) / \\
& \left(4 \sqrt{\left(\frac{(-1 + c - 2 c^3)^2}{4 c^4} - \frac{2 (1 - c + c^4)}{3 c^2} + \right. \right. \\
& \quad \left. \left. (2^{1/3} (1 - 2 c + c^2 + 2 c^4 + 10 c^5 - 12 c^6 + c^8)) / \right. \right. \\
& \quad \left. \left. (3 c^2 (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + 114 c^8 + \right. \right. \\
& \quad \left. \left. 30 c^9 - 36 c^{10} + 2 c^{12} + \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 \right. \right. \\
& \quad \left. \left. c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - 47817 c^{10} + 52002 \right. \right. \\
& \quad \left. \left. c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - 50544 \right. \right. \\
& \quad \left. \left. c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19}) \right)^{1/3} \right) + \\
& \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + \right. \\
& \quad \left. 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + \right. \\
& \quad \left. 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - 47817 c^{10} + 52002 \right. \\
& \quad \left. c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - 50544 c^{15} - \right. \\
& \quad \left. 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19}) \right)^{1/3} \Bigg) \Bigg)^2 - \\
& 2 c^4 \left(- \frac{-1 + c - 2 c^3}{4 c^2} + \frac{1}{2} \sqrt{\left(\frac{(-1 + c - 2 c^3)^2}{4 c^4} - \frac{2 (1 - c + c^4)}{3 c^2} + (2^{1/3} \right. \right. \\
& \quad \left. \left. (1 - 2 c + c^2 + 2 c^4 + 10 c^5 - 12 c^6 + c^8)) / \right. \right. \\
& \quad \left. \left. (3 c^2 (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + \right. \right. \\
& \quad \left. \left. 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + \right. \right. \\
& \quad \left. \left. 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - 47817 c^{10} + \right. \right. \\
& \quad \left. \left. 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \right. \right. \\
& \quad \left. \left. 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19}) \right)^{1/3} \right) + \\
& \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + \right. \\
& \quad \left. 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \right. \\
& \quad \left. \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \right. \\
& \quad \left. 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \right. \\
& \quad \left. 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19}) \right)^{1/3} \Bigg) - \\
& \frac{1}{2} \sqrt{\left(\frac{(-1 + c - 2 c^3)^2}{2 c^4} - \frac{4 (1 - c + c^4)}{3 c^2} - (2^{1/3} (1 - 2 c + c^2 + 2 c^4 + \right. \right. \\
& \quad \left. \left.
\end{aligned}$$

$$\begin{aligned}
& \frac{10 c^5 - 12 c^6 + c^8}{3 c^2} \Big) \Big) \Big/ \left(3 c^2 (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + \right. \\
& \quad \left. 231 c^6 - 288 c^7 + 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \sqrt{(108 c^3 - \right. \\
& \quad \left. 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \right. \\
& \quad \left. 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \right. \\
& \quad \left. 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19}) \right)^{1/3} \Big) - \\
& \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + \right. \\
& \quad \left. 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \right. \\
& \quad \left. \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \right. \\
& \quad \left. 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \right. \\
& \quad \left. 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19}) \right)^{1/3} + \\
& \left. \left(- \frac{(-1 + c - 2 c^3)^3}{c^6} + \frac{4 (-1 + c - 2 c^3) (1 - c + c^4)}{c^4} \right) \right) \Big/ \\
& \left(4 \sqrt{\left(\frac{(-1 + c - 2 c^3)^2}{4 c^4} - \frac{2 (1 - c + c^4)}{3 c^2} + \right. \right. \right. \\
& \quad \left. \left. \left. (2^{1/3} (1 - 2 c + c^2 + 2 c^4 + 10 c^5 - 12 c^6 + c^8)) \right) \right) \Big/ \\
& \quad \left(3 c^2 (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + 114 c^8 + \right. \\
& \quad \left. 30 c^9 - 36 c^{10} + 2 c^{12} + \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 \right. \\
& \quad \left. c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - 47817 c^{10} + 52002 \right. \\
& \quad \left. c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - 50544 \right. \\
& \quad \left. c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19}) \right)^{1/3} \Big) + \\
& \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + \right. \\
& \quad \left. 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + \right. \\
& \quad \left. 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - 47817 c^{10} + 52002 \right. \\
& \quad \left. c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - 50544 c^{15} - \right. \\
& \quad \left. 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19}) \right)^{1/3} \Big) \Big) \Big) \Big)^3 + \\
& 2 c^5 \left(- \frac{-1 + c - 2 c^3}{4 c^2} + \frac{1}{2} \sqrt{\left(\frac{(-1 + c - 2 c^3)^2}{4 c^4} - \frac{2 (1 - c + c^4)}{3 c^2} + (2^{1/3} \right. \right. \right. \\
& \quad \left. \left. \left. (1 - 2 c + c^2 + 2 c^4 + 10 c^5 - 12 c^6 + c^8)) \right) \right) \Big/ \right. \\
& \quad \left(3 c^2 (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + \right. \\
& \quad \left. 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + \right. \\
& \quad \left. 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - 47817 c^{10} + \right. \\
& \quad \left. 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \right. \\
& \quad \left. 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19}) \right)^{1/3} \Big) + \\
& \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + \right. \\
& \quad \left. 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \right. \\
& \quad \left. \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \right. \\
& \quad \left. 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \right. \\
& \quad \left. 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19}) \right)^{1/3} \Big) - \\
& \frac{1}{2} \sqrt{\left(\frac{(-1 + c - 2 c^3)^2}{2 c^4} - \frac{4 (1 - c + c^4)}{3 c^2} - (2^{1/3} (1 - 2 c + c^2 + 2 c^4 + \right. \right. \right. \\
& \quad \left. \left. \left. 108 c^5 - 12 c^6 + c^8)) \right) \Big/ \left(3 c^2 (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + \right. \right. \right. \\
& \quad \left. \left. \left. 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \right. \right. \right. \\
& \quad \left. \left. \left. \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \right. \right. \right. \\
& \quad \left. \left. \left. 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \right. \right. \right. \\
& \quad \left. \left. \left. 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19}) \right)^{1/3} \right) \Big) -
\end{aligned}$$

$$\begin{aligned}
& \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \\
& \quad \left. 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3}} \right) - \\
& \left(- \frac{(-1+c-2c^3)^3}{c^6} + \frac{4(-1+c-2c^3)(1-c+c^4)}{c^4} \right) / \\
& \left(4 \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \\
& \quad \left. \left. (2^{1/3}(1-2c+c^2+2c^4+10c^5-12c^6+c^8)) \right) / \right. \\
& \quad \left. \left. (3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+ \right. \right. \\
& \quad \left. \left. 30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3}} \right) + \right. \\
& \quad \left. \left. \frac{1}{3 \times 2^{1/3} c^2} (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \\
& \quad \left. \left. 114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3}} \right) \right)^3 \right) / \\
& \left(-3 + 9c - 9c^2 - 3c^3 + 12c^4 - 6c^5 - 3c^6 \right) \}, \{a \rightarrow \\
& \frac{1}{-c^2 + c^3} \\
& \left(\frac{9}{4} - \right. \\
& \quad \left. \frac{9c}{4} + \right. \\
& \quad \left. \frac{3c^3}{2} - \right. \\
& \quad \left. \frac{3}{2} \right. \\
& \quad \left. c^2 \right. \\
& \quad \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \right.} \\
& \quad \left. \frac{2(1-c+c^4)}{3c^2} + \right. \\
& \quad \left. (2^{1/3} \right. \\
& \quad \left. (1-2c+c^2+2c^4+10c^5-12c^6+c^8)) \right) /
\end{aligned}$$

$$\begin{aligned}
& \left(3 c^2 (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + \right. \\
& \quad 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \\
& \quad \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \\
& \quad 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \\
& \quad 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})})^{1/3} \Big) + \\
& \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + \right. \\
& \quad 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \\
& \quad \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + \\
& \quad 13419 c^8 + 6264 c^9 - 47817 c^{10} + 52002 c^{11} + \\
& \quad 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - 50544 c^{15} - \\
& \quad 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})})^{1/3} \Big) - \\
& \frac{3}{2} c^2 \sqrt{\left(\frac{(-1 + c - 2 c^3)^2}{2 c^4} - \frac{4 (1 - c + c^4)}{3 c^2} - (2^{1/3} (1 - 2 c + c^2 + 2 c^4 + \right. \\
& \quad 10 c^5 - 12 c^6 + c^8)) \Big/ \\
& \left(3 c^2 (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + \right. \\
& \quad 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \\
& \quad \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \\
& \quad 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \\
& \quad 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})})^{1/3} \Big) - \\
& \frac{1}{3 \times 2^{1/3} c^2} (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + \\
& \quad 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \\
& \quad \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \\
& \quad 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \\
& \quad 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})})^{1/3} + \\
& \left. \left(- \frac{(-1 + c - 2 c^3)^3}{c^6} + \frac{4 (-1 + c - 2 c^3) (1 - c + c^4)}{c^4} \right) \Big/ \right. \\
& \left. \left(4 \sqrt{\left(\frac{(-1 + c - 2 c^3)^2}{4 c^4} - \frac{2 (1 - c + c^4)}{3 c^2} + \right. \right. \right. \\
& \quad \left. \left. \left. (2^{1/3} (1 - 2 c + c^2 + 2 c^4 + 10 c^5 - 12 c^6 + c^8)) \Big/ \right. \right. \right. \\
& \quad \left. \left. \left(3 c^2 (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + 114 c^8 + \right. \right. \\
& \quad 30 c^9 - 36 c^{10} + 2 c^{12} + \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - \\
& \quad 8910 c^7 + 13419 c^8 + 6264 c^9 - 47817 c^{10} + 52002 c^{11} + \\
& \quad 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - 50544 c^{15} - \\
& \quad 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})})^{1/3} \Big) + \right. \\
& \frac{1}{3 \times 2^{1/3} c^2} (2 - 6 c + 6 c^2 + 25 c^3 - 75 c^4 - 3 c^5 + 231 c^6 - 288 c^7 + \\
& \quad 114 c^8 + 30 c^9 - 36 c^{10} + 2 c^{12} + \\
& \quad \sqrt{(108 c^3 - 648 c^4 + 1188 c^5 + 1161 c^6 - 8910 c^7 + 13419 c^8 + 6264 c^9 - \\
& \quad 47817 c^{10} + 52002 c^{11} + 30861 c^{12} - 134352 c^{13} + 138024 c^{14} - \\
& \quad 50544 c^{15} - 10044 c^{16} + 9828 c^{17} - 108 c^{18} - 432 c^{19})})^{1/3} \Big) \Big) \Big) \Big), \\
d \rightarrow & - \frac{-1 + c - 2 c^3}{4 c^2} + \frac{1}{2} \sqrt{\left(\frac{(-1 + c - 2 c^3)^2}{4 c^4} - \frac{2 (1 - c + c^4)}{3 c^2} + \right.}
\end{aligned}$$

$$\begin{aligned}
& \left(2^{1/3} \right. \\
& \quad \left(1 - 2c + c^2 + 2c^4 + 10c^5 - 12c^6 + c^8 \right) \Big) / \\
& \quad \left(3c^2 \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + 114c^8 + 30 \right. \right. \\
& \quad \left. \left. c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + \right. \right. \\
& \quad \left. \left. 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + \right. \right. \\
& \quad \left. \left. 138024c^{14} - 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \right)^{1/3} \right) + \\
& \quad \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \\
& \quad \left. 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \right. \\
& \quad \left. \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264 \right. \\
& \quad \left. c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024 \right. \\
& \quad \left. c^{14} - 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \right)^{1/3} \Big) + \\
& \quad \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{2c^4} - \frac{4(1-c+c^4)}{3c^2} - \left(2^{1/3} (1 - 2c + c^2 + 2c^4 + 10c^5 - \right. \right. \\
& \quad \left. \left. 12c^6 + c^8) \right) \Big) / \\
& \quad \left(3c^2 \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + 114c^8 + 30 \right. \right. \\
& \quad \left. \left. c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + \right. \right. \\
& \quad \left. \left. 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + \right. \right. \\
& \quad \left. \left. 138024c^{14} - 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \right)^{1/3} \right) - \\
& \quad \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \\
& \quad \left. 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \right. \\
& \quad \left. \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264 \right. \\
& \quad \left. c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024 \right. \\
& \quad \left. c^{14} - 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \right)^{1/3} \Big) + \\
& \quad \left(- \frac{(-1+c-2c^3)^3}{c^6} + \frac{4(-1+c-2c^3)(1-c+c^4)}{c^4} \right) / \\
& \quad \left(4 \right. \\
& \quad \left. \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \\
& \quad \left. \left. \left(2^{1/3} (1 - 2c + c^2 + 2c^4 + 10c^5 - 12c^6 + c^8) \right) \Big) / \right. \\
& \quad \left(3c^2 \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + 114c^8 + \right. \right. \\
& \quad \left. \left. 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - \right. \right. \\
& \quad \left. \left. 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + \right. \right. \\
& \quad \left. \left. 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - \right. \right. \\
& \quad \left. \left. 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \right)^{1/3} \right) + \\
& \quad \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \\
& \quad \left. 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \right. \\
& \quad \left. \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \right. \right. \\
& \quad \left. \left. 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \right. \right. \\
& \quad \left. \left. 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \right)^{1/3} \Big) \Big) \Big) \Big),
\end{aligned}$$

$$\begin{aligned}
k \rightarrow & \left(-2 + 6c - 6c^2 + 2c^4 + 2c^5 - 2c^6 - 2c^7 - \right. \\
& \left. \frac{2}{c^2} \left(-\frac{-1 + c - 2c^3}{4c^2} + \right. \right. \\
& \left. \left. \frac{1}{2} \sqrt{\left(\frac{(-1 + c - 2c^3)^2}{4c^4} - \frac{2(1 - c + c^4)}{3c^2} + \right. \right. \right. \\
& \left. \left. \left. \left(2^{1/3} (1 - 2c + c^2 + 2c^4 + 10c^5 - 12c^6 + c^8) \right) / \right. \right. \right. \\
& \left. \left. \left. \left(3c^2 (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - \right. \right. \right. \\
& \left. \left. \left. 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \right. \right. \right. \\
& \left. \left. \left. \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \right. \right. \right. \\
& \left. \left. \left. 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \right. \right. \right. \\
& \left. \left. \left. 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \right)^{1/3} \right) + \right. \\
& \left. \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \\
& \left. 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \right. \\
& \left. \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \right. \right. \right. \\
& \left. \left. \left. 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \right. \right. \right. \\
& \left. \left. \left. 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \right)^{1/3} \right) + \right. \\
& \left. \frac{1}{2} \sqrt{\left(\frac{(-1 + c - 2c^3)^2}{2c^4} - \frac{4(1 - c + c^4)}{3c^2} - \left(2^{1/3} (1 - 2c + c^2 + 2c^4 + 10c^5 - \right. \right. \right. \\
& \left. \left. \left. 12c^6 + c^8) \right) / \left(3c^2 (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + \right. \right. \right. \\
& \left. \left. \left. 231c^6 - 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \right. \right. \right. \\
& \left. \left. \left. \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \right. \right. \right. \\
& \left. \left. \left. 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \right. \right. \right. \\
& \left. \left. \left. 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \right)^{1/3} \right) - \right. \\
& \left. \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \\
& \left. 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \right. \\
& \left. \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \right. \right. \right. \\
& \left. \left. \left. 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \right. \right. \right. \\
& \left. \left. \left. 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19}) \right)^{1/3} \right) + \right. \\
& \left. \left(-\frac{(-1 + c - 2c^3)^3}{c^6} + \frac{4(-1 + c - 2c^3)(1 - c + c^4)}{c^4} \right) / \right. \\
& \left. \left(4 \sqrt{\left(\frac{(-1 + c - 2c^3)^2}{4c^4} - \frac{2(1 - c + c^4)}{3c^2} + \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left(2^{1/3} (1 - 2c + c^2 + 2c^4 + 10c^5 - 12c^6 + c^8) \right) / \right. \right. \right. \right. \\
& \left. \left. \left. \left. \left(3c^2 (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + 114c^8 + \right. \right. \right. \right. \\
& \left. \left. \left. \left. 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - \right. \right. \right. \right. \\
& \left. \left. \left. \left. 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + \right. \right. \right. \right. \\
& \left. \left. \left. \left. 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - \right. \right. \right. \right.
\end{aligned}$$

$$\begin{aligned}
& \left. \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - \right. \right. \\
& \quad 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + \\
& \quad 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + \\
& \quad 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544 \\
& \quad c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3} \left. \right)^{1/3} \left. \right) + \\
& 6c^3 \left(-\frac{-1+c-2c^3}{4c^2} + \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \right. \\
& \quad \left(2^{1/3} (1-2c+c^2+2c^4+10c^5-12c^6+c^8) \right) / \\
& \quad \left(3c^2 (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6- \right. \\
& \quad 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \\
& \quad \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \\
& \quad 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3} \left. \right)^{1/3} \right) + \\
& \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \\
& \quad \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \\
& \quad 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3} \left. \right)^{1/3} \right) + \\
& \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{2c^4} - \frac{4(1-c+c^4)}{3c^2} - \left(2^{1/3} (1-2c+c^2+2c^4+10c^5- \right. \right. \right. \\
& \quad 12c^6+c^8) \right) / \left(3c^2 (2-6c+6c^2+25c^3-75c^4-3c^5+ \right. \\
& \quad 231c^6-288c^7+114c^8+30c^9-36c^{10}+2c^{12}+ \\
& \quad \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \\
& \quad 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3} \left. \right)^{1/3} \right) - \\
& \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \\
& \quad \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \\
& \quad 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3} \left. \right)^{1/3} + \\
& \left. \left(-\frac{(-1+c-2c^3)^3}{c^6} + \frac{4(-1+c-2c^3)(1-c+c^4)}{c^4} \right) / \right. \\
& \left. \left(4 \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \right. \right. \\
& \quad \left(2^{1/3} (1-2c+c^2+2c^4+10c^5-12c^6+c^8) \right) / \\
& \quad \left(3c^2 (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+ \right. \\
& \quad 30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - \\
& \quad 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + \\
& \quad 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} -
\end{aligned}$$

$$\begin{aligned}
& \left. \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - \right. \right. \\
& \quad \left. \left. 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + \right. \right. \\
& \quad \left. \left. 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + \right. \right. \\
& \quad \left. \left. 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544 \right. \right. \\
& \quad \left. \left. c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3} \right) \right) \Bigg) - \\
& 6c^4 \left(-\frac{-1+c-2c^3}{4c^2} + \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \right. \\
& \quad \left. \left. \left. (2^{1/3}(1-2c+c^2+2c^4+10c^5-12c^6+c^8)) \right) / \right. \right. \\
& \quad \left. \left. (3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6- \right. \right. \\
& \quad \left. \left. 288c^7+114c^8+30c^9-36c^{10}+2c^{12}+ \right. \right. \\
& \quad \left. \left. \sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \\
& \quad \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \\
& \quad \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3} \right) + \right. \\
& \quad \left. \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \\
& \quad \left. 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \right. \right. \\
& \quad \left. \left. \sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \\
& \quad \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \\
& \quad \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3} \right) + \right. \\
& \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{2c^4} - \frac{4(1-c+c^4)}{3c^2} - (2^{1/3}(1-2c+c^2+2c^4+10c^5- \right. \right. \\
& \quad \left. \left. 12c^6+c^8)) \right) / \left(3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+ \right. \right. \\
& \quad \left. \left. 231c^6-288c^7+114c^8+30c^9-36c^{10}+2c^{12}+ \right. \right. \\
& \quad \left. \left. \sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \\
& \quad \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \\
& \quad \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3} \right) - \right. \\
& \quad \left. \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \\
& \quad \left. 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \right. \right. \\
& \quad \left. \left. \sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \\
& \quad \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \\
& \quad \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3} \right) + \right. \\
& \quad \left. \left(-\frac{(-1+c-2c^3)^3}{c^6} + \frac{4(-1+c-2c^3)(1-c+c^4)}{c^4} \right) / \right. \\
& \quad \left. \left(4 \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \right. \right. \\
& \quad \left. \left. \left. \left. (2^{1/3}(1-2c+c^2+2c^4+10c^5-12c^6+c^8)) \right) / \right. \right. \\
& \quad \left. \left. (3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+ \right. \right. \\
& \quad \left. \left. 30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+1161c^6- \right. \right. \\
& \quad \left. \left. 8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+ \right. \right. \\
& \quad \left. \left. 30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}- \right. \right. \right. \right. \right)
\end{aligned}$$

$$\begin{aligned}
& \left. \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - \right. \right. \\
& \quad 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + \\
& \quad 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + \\
& \quad 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544 \\
& \quad c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3} \left. \right)^{1/3} \left. \right) + \\
& 2c^5 \left(-\frac{-1+c-2c^3}{4c^2} + \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \right. \\
& \quad \left. \left. \left. (2^{1/3}(1-2c+c^2+2c^4+10c^5-12c^6+c^8)) \right) / \right. \right. \\
& \quad \left. \left. \left(3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6- \right. \right. \right. \\
& \quad 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \\
& \quad \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \\
& \quad 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3} \right) + \right. \\
& \quad \left. \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \\
& \quad \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \\
& \quad 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3} \right) + \right. \\
& \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{2c^4} - \frac{4(1-c+c^4)}{3c^2} - (2^{1/3}(1-2c+c^2+2c^4+10c^5- \right. \right. \right. \\
& \quad 12c^6+c^8)) / \left(3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+ \right. \right. \right. \\
& \quad 231c^6-288c^7+114c^8+30c^9-36c^{10}+2c^{12}+ \\
& \quad \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \\
& \quad 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3} \right) - \right. \\
& \quad \left. \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \\
& \quad \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \\
& \quad 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3} \right) + \right. \\
& \quad \left(-\frac{(-1+c-2c^3)^3}{c^6} + \frac{4(-1+c-2c^3)(1-c+c^4)}{c^4} \right) / \right. \\
& \quad \left(4 \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \right. \\
& \quad \left. \left. \left. (2^{1/3}(1-2c+c^2+2c^4+10c^5-12c^6+c^8)) \right) / \right. \right. \\
& \quad \left. \left. \left(3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+ \right. \right. \right. \\
& \quad 30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - \\
& \quad 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + \\
& \quad 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} -
\end{aligned}$$

$$\begin{aligned}
& \left. \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - \right. \right. \\
& \quad 288c^7 + 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + \\
& \quad 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + \\
& \quad 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544 \\
& \quad c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})} \left. \right)^{1/3} \Big) \Big) + \\
& 2c^5 \left(-\frac{-1+c-2c^3}{4c^2} + \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + (2^{1/3} \right. \right. \right. \\
& \quad \left. \left. \left. (1-2c+c^2+2c^4+10c^5-12c^6+c^8) \right) \right) / \right. \\
& \quad \left. \left. \left. \left(3c^2 (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \right. \\
& \quad 114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+ \\
& \quad 1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+ \\
& \quad 52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \\
& \quad 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})} \right)^{1/3} \right) + \\
& \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \\
& \quad \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \\
& \quad 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})} \left. \right)^{1/3} \Big) + \\
& \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{2c^4} - \frac{4(1-c+c^4)}{3c^2} - (2^{1/3} (1-2c+c^2+2c^4+ \right. \right. \right. \\
& \quad 10c^5-12c^6+c^8) \Big) / \left(3c^2 (2-6c+6c^2+25c^3-75c^4-3c^5+ \right. \right. \right. \\
& \quad 231c^6-288c^7+114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3- \right. \right. \right. \\
& \quad 648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \\
& \quad 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \\
& \quad 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})} \Big)^{1/3} \Big) - \\
& \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \\
& \quad \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \\
& \quad 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \\
& \quad 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})} \left. \right)^{1/3} + \\
& \left(-\frac{(-1+c-2c^3)^3}{c^6} + \frac{4(-1+c-2c^3)(1-c+c^4)}{c^4} \right) / \\
& \left(4 \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \right. \\
& \quad \left. \left. \left. (2^{1/3} (1-2c+c^2+2c^4+10c^5-12c^6+c^8) \right) \right) / \right. \\
& \quad \left. \left. \left. \left(3c^2 (2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+ \right. \right. \right. \\
& \quad 30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})} \right)^{1/3} \right)
\end{aligned}$$

$$\begin{aligned}
& \left. \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \right. \\
& \quad \left. \left. 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + \right. \right. \\
& \quad \left. \left. 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002 \right. \right. \\
& \quad \left. \left. c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - \right. \right. \\
& \quad \left. \left. 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3} \right)^2 \right) \\
& - \\
& 2c^6 \left(- \frac{-1+c-2c^3}{4c^2} + \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + (2^{1/3} \right. \right. \\
& \quad \left. \left. (1-2c+c^2+2c^4+10c^5-12c^6+c^8)) \right) / \right. \right. \\
& \quad \left. \left. (3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \\
& \quad \left. \left. 114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+ \right. \right. \\
& \quad \left. \left. 1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+ \right. \right. \\
& \quad \left. \left. 52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \\
& \quad \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3} \right) + \right. \\
& \quad \left. \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \\
& \quad \left. 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \right. \\
& \quad \left. \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \right. \\
& \quad \left. 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \right. \\
& \quad \left. 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3} \right) + \right. \\
& \quad \left. \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{2c^4} - \frac{4(1-c+c^4)}{3c^2} - (2^{1/3}(1-2c+c^2+2c^4+ \right. \right. \\
& \quad \left. \left. 10c^5-12c^6+c^8)) \right) / (3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+ \right. \right. \\
& \quad \left. \left. 231c^6-288c^7+114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3- \right. \right. \\
& \quad \left. \left. 648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \\
& \quad \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \\
& \quad \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3} \right) - \right. \\
& \quad \left. \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \\
& \quad \left. 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \right. \\
& \quad \left. \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \right. \\
& \quad \left. 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \right. \\
& \quad \left. 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3} \right) + \right. \\
& \quad \left. \left(- \frac{(-1+c-2c^3)^3}{c^6} + \frac{4(-1+c-2c^3)(1-c+c^4)}{c^4} \right) / \right. \\
& \quad \left. \left(4 \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \right. \right. \\
& \quad \left. \left. \left. \left. (2^{1/3}(1-2c+c^2+2c^4+10c^5-12c^6+c^8)) \right) / \right. \right. \right. \\
& \quad \left. \left. \left. (3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+ \right. \right. \right. \\
& \quad \left. \left. \left. 30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+1161 \right. \right. \right. \\
& \quad \left. \left. \left. c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002 \right. \right. \right. \\
& \quad \left. \left. \left. c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544 \right. \right. \right.
\end{aligned}$$

$$\begin{aligned}
& \left(\frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \right. \\
& \quad \left. \left. 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + \right. \right. \\
& \quad \left. \left. 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \right. \right. \\
& \quad \left. \left. 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3} \right)^2 \right) \\
& \quad \left. \left. - \right. \right. \\
& \quad \left. \left. 2c^4 \left(- \frac{-1+c-2c^3}{4c^2} + \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + (2^{1/3} \right. \right. \right. \right. \\
& \quad \left. \left. \left. \left. (1-2c+c^2+2c^4+10c^5-12c^6+c^8)) \right) / \right. \right. \right. \\
& \quad \left. \left. \left. \left. (3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \right. \right. \\
& \quad \left. \left. \left. \left. 114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+ \right. \right. \right. \right. \\
& \quad \left. \left. \left. \left. 1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+ \right. \right. \right. \right. \\
& \quad \left. \left. \left. \left. 52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \right. \right. \\
& \quad \left. \left. \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3} \right) + \right. \right. \\
& \quad \left. \left. \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \right. \\
& \quad \left. \left. 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \right. \right. \\
& \quad \left. \left. \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \right. \right. \\
& \quad \left. \left. 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \right. \right. \\
& \quad \left. \left. 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3} \right) + \right. \right. \\
& \quad \left. \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{2c^4} - \frac{4(1-c+c^4)}{3c^2} - (2^{1/3}(1-2c+c^2+2c^4+ \right. \right. \right. \\
& \quad \left. \left. \left. 10c^5-12c^6+c^8)) \right) / \left(3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+ \right. \right. \right. \\
& \quad \left. \left. \left. 231c^6-288c^7+114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3- \right. \right. \right. \right. \\
& \quad \left. \left. \left. \left. 648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \right. \right. \\
& \quad \left. \left. \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \right. \right. \\
& \quad \left. \left. \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3} \right) - \right. \right. \\
& \quad \left. \frac{1}{3 \times 2^{1/3} c^2} (2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \right. \\
& \quad \left. \left. 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \right. \right. \\
& \quad \left. \left. \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \right. \right. \\
& \quad \left. \left. 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \right. \right. \\
& \quad \left. \left. 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3} \right) + \right. \right. \\
& \quad \left(- \frac{(-1+c-2c^3)^3}{c^6} + \frac{4(-1+c-2c^3)(1-c+c^4)}{c^4} \right) / \\
& \quad \left(4 \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \right. \\
& \quad \left. \left. \left. (2^{1/3}(1-2c+c^2+2c^4+10c^5-12c^6+c^8)) \right) / \right. \right. \right. \\
& \quad \left. \left. \left. (3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+ \right. \right. \right. \\
& \quad \left. \left. \left. 30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}} \right) \right) \right)
\end{aligned}$$

$$\begin{aligned}
& \left. \left(\frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \right. \right. \\
& \quad \left. \left. \left. 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + \right. \right. \right. \\
& \quad \left. \left. \left. 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002 \right. \right. \right. \\
& \quad \left. \left. \left. c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - \right. \right. \right. \\
& \quad \left. \left. \left. 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3} \right) \right)^3 + \right. \\
& \quad \left. 2c^5 \left(-\frac{-1+c-2c^3}{4c^2} + \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + (2^{1/3} \right. \right. \right. \\
& \quad \left. \left. \left. (1-2c+c^2+2c^4+10c^5-12c^6+c^8)) / \right. \right. \right. \\
& \quad \left. \left. \left. (3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+ \right. \right. \right. \\
& \quad \left. \left. \left. 114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+ \right. \right. \right. \\
& \quad \left. \left. \left. 1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+ \right. \right. \right. \\
& \quad \left. \left. \left. 52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \right. \\
& \quad \left. \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3} \right) + \right. \\
& \quad \left. \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \right. \right. \\
& \quad \left. \left. \left. 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \right. \right. \right. \\
& \quad \left. \left. \left. \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \right. \right. \right. \\
& \quad \left. \left. \left. 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \right. \right. \right. \\
& \quad \left. \left. \left. 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3} \right) + \right. \\
& \quad \left. \frac{1}{2} \sqrt{\left(\frac{(-1+c-2c^3)^2}{2c^4} - \frac{4(1-c+c^4)}{3c^2} - (2^{1/3}(1-2c+c^2+2c^4+ \right. \right. \right. \\
& \quad \left. \left. \left. 10c^5-12c^6+c^8)) / (3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+ \right. \right. \right. \\
& \quad \left. \left. \left. 231c^6-288c^7+114c^8+30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3- \right. \right. \right. \\
& \quad \left. \left. \left. 648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9- \right. \right. \right. \\
& \quad \left. \left. \left. 47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}- \right. \right. \right. \\
& \quad \left. \left. \left. 50544c^{15}-10044c^{16}+9828c^{17}-108c^{18}-432c^{19})^{1/3} \right) - \right. \\
& \quad \left. \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \right. \right. \\
& \quad \left. \left. \left. 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \right. \right. \right. \\
& \quad \left. \left. \left. \sqrt{(108c^3 - 648c^4 + 1188c^5 + 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - \right. \right. \right. \\
& \quad \left. \left. \left. 47817c^{10} + 52002c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - \right. \right. \right. \\
& \quad \left. \left. \left. 50544c^{15} - 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3} \right) + \right. \\
& \quad \left. \left(-\frac{(-1+c-2c^3)^3}{c^6} + \frac{4(-1+c-2c^3)(1-c+c^4)}{c^4} \right) / \right. \\
& \quad \left. \left(4 \sqrt{\left(\frac{(-1+c-2c^3)^2}{4c^4} - \frac{2(1-c+c^4)}{3c^2} + \right. \right. \right. \\
& \quad \left. \left. \left. (2^{1/3}(1-2c+c^2+2c^4+10c^5-12c^6+c^8)) / \right. \right. \right. \\
& \quad \left. \left. \left. (3c^2(2-6c+6c^2+25c^3-75c^4-3c^5+231c^6-288c^7+114c^8+ \right. \right. \right. \\
& \quad \left. \left. \left. 30c^9-36c^{10}+2c^{12}+\sqrt{(108c^3-648c^4+1188c^5+1161c^6-8910c^7+13419c^8+6264c^9-47817c^{10}+52002c^{11}+30861c^{12}-134352c^{13}+138024c^{14}-50544c^{15}} \right) \right) \right) \right)
\end{aligned}$$

$$\begin{aligned}
& \left. \frac{1}{3 \times 2^{1/3} c^2} \left(2 - 6c + 6c^2 + 25c^3 - 75c^4 - 3c^5 + 231c^6 - 288c^7 + \right. \right. \\
& \quad 114c^8 + 30c^9 - 36c^{10} + 2c^{12} + \sqrt{(108c^3 - 648c^4 + 1188c^5 + \\
& \quad 1161c^6 - 8910c^7 + 13419c^8 + 6264c^9 - 47817c^{10} + 52002 \\
& \quad c^{11} + 30861c^{12} - 134352c^{13} + 138024c^{14} - 50544c^{15} - \\
& \quad 10044c^{16} + 9828c^{17} - 108c^{18} - 432c^{19})^{1/3} \left. \right)^3 \right) \left. \right)^3 \Bigg) / \\
& \quad \left(-3 + 9c - 9c^2 - 3c^3 + 12c^4 - 6c^5 - 3c^6 \right) \Big\} \Big\}
\end{aligned}$$