

Solve[i h D[X[t], t] == c o P p[t] + (e A0 - 2 m c ^ 2) X[t], p[t]]

$$\left\{ \left\{ p[t] \rightarrow \frac{-A0 e X[t] + 2 c^2 m X[t] + h i X'[t]}{c o P} \right\} \right\}$$

$$p[t_] := \frac{-A0 e X[t] + 2 c^2 m X[t] + h i X'[t]}{c o P}$$

Solve[i h p'[t] - c o P X[t] - e A0 p[t] == 0, X[t]]

$$\left\{ \left\{ X[t] \rightarrow \frac{-A0 e p[t] + h i p'[t]}{c o P} \right\} \right\}$$

p[t_] =.

Series[Sqrt[(1 + b)], {b, 0, 10}]

$$1 + \frac{b}{2} - \frac{b^2}{8} + \frac{b^3}{16} - \frac{5 b^4}{128} + \frac{7 b^5}{256} - \frac{21 b^6}{1024} + \frac{33 b^7}{2048} - \frac{429 b^8}{32768} + \frac{715 b^9}{65536} - \frac{2431 b^{10}}{262144} + O[b]^{11}$$

\$Assumptions = True

True

c[a_, b_] := Simplify[a ** b - b ** a]

Exit[]

Solve[Ek ^ 2 + Ek (2 * E0 - e A0) + c[b] == 0, Ek]

$$\left\{ \left\{ Ek \rightarrow \frac{1}{2} \left(A0 e - 2 E0 - \sqrt{(-A0 e + 2 E0)^2 - 4 c[b]} \right) \right\}, \right. \\ \left. \left\{ Ek \rightarrow \frac{1}{2} \left(A0 e - 2 E0 + \sqrt{(-A0 e + 2 E0)^2 - 4 c[b]} \right) \right\} \right\}$$

Series[$\frac{1}{2} \left(A0 e - 2 E0 - \sqrt{(-A0 e + 2 E0)^2 - 4 c[b]} \right)$, {b, 0, 10}]

$$\frac{1}{2} \left(A0 e - 2 E0 - \sqrt{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) + \frac{c'[0] b}{\sqrt{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]}} + \\ \left((2 c'[0]^2 + A0^2 e^2 c''[0] - 4 A0 e E0 c''[0] + 4 E0^2 c''[0] - 4 c[0] c''[0]) b^2 \right) / \\ \left(2 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^{3/2} \right) - \frac{1}{6} \left(\sqrt{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right. \\ \left. \left(\left(3 c'[0] \left(-\frac{4 c'[0]^2}{(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2} - \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) / \right. \\ \left. \left. (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) \right)$$

$$\begin{aligned}
& b^3 - \frac{1}{8} \left(\sqrt{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right. \\
& \left. \left(c''[0] \left(-\frac{4 c'[0]^2}{(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2} - \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) \right) / \\
& (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) + \frac{2 c'[0] c^{(3)}[0]}{3 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2} + \\
& \left(10 c'[0] \left(\left(3 c'[0] \left(-\frac{4 c'[0]^2}{(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2} - \right. \right. \right. \right. \\
& \left. \left. \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) \right) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) - \\
& \left. \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) / (3 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])) - \\
& \frac{c^{(4)}[0]}{3 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])} \left. \right) b^4 - \frac{1}{10} \left(\sqrt{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right. \\
& \left. \left(\left(-\frac{4 c'[0]^2}{(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2} - \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) c^{(3)}[0] \right) \right) / \\
& (6 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])) + \left(4 c''[0] \left(\left(3 c'[0] \right. \right. \right. \\
& \left. \left. \left(-\frac{4 c'[0]^2}{(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2} - \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) \right) \right) / \\
& (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \left. \right) \right) / \\
& (3 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])) + \frac{c'[0] c^{(4)}[0]}{3 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2} + \\
& \frac{1}{2 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])} 7 c'[0] \left(\left(c''[0] \right. \right. \\
& \left. \left(-\frac{4 c'[0]^2}{(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2} - \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) \right) / \\
& (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) + \frac{2 c'[0] c^{(3)}[0]}{3 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2} +
\end{aligned}$$

$$\begin{aligned}
& \left(10 \, c' [0] \left(\left(3 \, c' [0] \left(- \left(4 \, c' [0]^2 \right) / \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right)^2 - \right. \right. \right. \right. \\
& \quad \left. \left. \left. \frac{2 \, c'' [0]}{A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0]} \right) \right) \right) / \\
& \quad \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right) - \frac{c^{(3)} [0]}{A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0]} \right) / \\
& \quad \left(3 \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right) \right) - \frac{c^{(4)} [0]}{3 \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right)} \right) - \\
& \quad \left. \frac{c^{(5)} [0]}{12 \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right)} \right) \Bigg) b^5 - \\
& \frac{1}{12} \left(\sqrt{A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0]} \right. \\
& \quad \left(\left(c^{(3)} [0] \left(\left(3 \, c' [0] \left(- \frac{4 \, c' [0]^2}{\left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right)^2} - \right. \right. \right. \right. \right. \\
& \quad \left. \left. \left. \frac{2 \, c'' [0]}{A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0]} \right) \right) \right) / \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right) - \\
& \quad \left. \frac{c^{(3)} [0]}{A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0]} \right) \right) / \left(3 \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right) \right) + \\
& \quad \frac{1}{2 \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right)} 3 \, c'' [0] \left(\left(c'' [0] \right. \right. \\
& \quad \left. \left(- \frac{4 \, c' [0]^2}{\left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right)^2} - \frac{2 \, c'' [0]}{A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0]} \right) \right) / \\
& \quad \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right) + \frac{2 \, c' [0] \, c^{(3)} [0]}{3 \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right)^2} + \\
& \quad \left(10 \, c' [0] \left(\left(3 \, c' [0] \left(- \left(4 \, c' [0]^2 \right) / \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right)^2 - \right. \right. \right. \right. \right. \\
& \quad \left. \left. \left. \frac{2 \, c'' [0]}{A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0]} \right) \right) \right) / \\
& \quad \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right) - \frac{c^{(3)} [0]}{A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0]} \right) \Bigg) / \\
& \quad \left(3 \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right) \right) - \frac{c^{(4)} [0]}{3 \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right)} \Bigg) +
\end{aligned}$$

$$\begin{aligned}
& \frac{c'[0] c^{(5)}[0]}{10 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2} + \frac{1}{5 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])} \\
& 18 c'[0] \left(\left(\left(-\frac{4 c'[0]^2}{(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2} - \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right. \right. \\
& \quad \left. \left. c^{(3)}[0] \right) \right) / (6 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])) + \\
& \left(4 c''[0] \left(\left(3 c'[0] \left(- (4 c'[0]^2) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2 - \right. \right. \right. \right. \\
& \quad \left. \left. \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) \right) / \\
& \quad \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \left. \right) \right) / \\
& \left(3 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) \right) + \frac{c'[0] c^{(4)}[0]}{3 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2} + \\
& \left(7 c'[0] \left(\left(c''[0] \left(- (4 c'[0]^2) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2 - \right. \right. \right. \right. \\
& \quad \left. \left. \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) \right) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - \\
& \quad 4 c[0]) + \frac{2 c'[0] c^{(3)}[0]}{3 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2} + \left(10 c'[0] \left(\left(3 c'[0] \right. \right. \right. \\
& \quad \left. \left. \left(- (4 c'[0]^2) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2 - (2 c''[0]) / \right. \right. \right. \\
& \quad \left. \left. \left. (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) \right) \right) \right) / (A0^2 e^2 - 4 A0 e E0 + \\
& \quad 4 E0^2 - 4 c[0]) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \left. \right) \right) / (3 (A0^2 e^2 - \\
& \quad 4 A0 e E0 + 4 E0^2 - 4 c[0])) - \frac{c^{(4)}[0]}{3 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])} \left. \right) \right) / \\
& \left(2 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) \right) - \frac{c^{(5)}[0]}{12 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])} \left. \right) - \\
& \left(\frac{c^{(6)}[0]}{60 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])} \right) \right) b^6 - \\
& \frac{1}{14} \left(\sqrt{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right.
\end{aligned}$$

$$\begin{aligned}
& \left(\left(\left(3 c' [0] \left(- \frac{4 c' [0]^2}{(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0])^2} - \frac{2 c'' [0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0]} \right) \right) / \right. \\
& \quad \left. (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0]) - \frac{c^{(3)} [0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0]} \right) \\
& \quad c^{(4)} [0] \Big) / (18 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0])) + \\
& \quad \left(5 c^{(3)} [0] \left(\left(c'' [0] \left(- \frac{4 c' [0]^2}{(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0])^2} - \right. \right. \right. \\
& \quad \left. \left. \left. \frac{2 c'' [0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0]} \right) \right) / \right. \\
& \quad (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0]) + \frac{2 c' [0] c^{(3)} [0]}{3 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0])^2} + \\
& \quad \left(10 c' [0] \left(\left(3 c' [0] \left(- (4 c' [0]^2) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0])^2 - \right. \right. \right. \\
& \quad \left. \left. \left. (2 c'' [0]) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0]) \right) \right) / (A0^2 e^2 - 4 A0 e \right. \\
& \quad \left. E0 + 4 E0^2 - 4 c [0]) - \frac{c^{(3)} [0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0]} \right) \Big) / (3 (A0^2 e^2 - \\
& \quad 4 A0 e E0 + 4 E0^2 - 4 c [0])) - \frac{c^{(4)} [0]}{3 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0])} \Big) \Big) / \\
& \quad (12 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0])) - \left(\left(- \frac{4 c' [0]^2}{(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0])^2} - \right. \right. \\
& \quad \left. \left. \frac{2 c'' [0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0]} \right) c^{(5)} [0] \right) / \\
& \quad (120 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0])) + \frac{1}{5 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0])} \\
& \quad 8 c'' [0] \left(\left(\left(- \frac{4 c' [0]^2}{(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0])^2} - \frac{2 c'' [0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0]} \right) \right. \right. \\
& \quad \left. \left. c^{(3)} [0] \right) / (6 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0])) + \right. \\
& \quad \left. \left(4 c'' [0] \left(\left(3 c' [0] \left(- (4 c' [0]^2) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0])^2 - \right. \right. \right. \right. \right.
\end{aligned}$$

$$\begin{aligned}
& \left. \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) / \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \Bigg) / \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \frac{c'[0] c^{(4)}[0]}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \\
& \left(7 c'[0] \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \\
& \left. \left. \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - \right. \\
& \left. 4 c[0] \right) + \frac{2 c'[0] c^{(3)}[0]}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \left(10 c'[0] \left(\left(3 c'[0] \right. \right. \right. \\
& \left. \left. \left. - \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \left(2 c''[0] \right) / \right. \right. \\
& \left. \left. \left. \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \right) / \left(A0^2 e^2 - 4 A0 e E0 + \right. \\
& \left. 4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \Bigg) \Bigg) / \left(3 \left(A0^2 e^2 - \right. \right. \\
& \left. \left. 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \frac{c^{(4)}[0]}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \Bigg) \Bigg) / \\
& \left(2 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \frac{c^{(5)}[0]}{12 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \Bigg) + \\
& \frac{c'[0] c^{(6)}[0]}{45 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \frac{1}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \\
& 11 c'[0] \left(\left(c^{(3)}[0] \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \right. \right. \\
& \left. \left. \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) \right) \Bigg) \Bigg) / \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \Bigg) \Bigg) / \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(3 c''[0] \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \right. \\
& \left. \left. \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) \right) \Bigg) \Bigg) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - \right.
\end{aligned}$$

$$\begin{aligned}
& 4 \, c[0] \Big) + \frac{2 \, c'[0] \, c^{(3)}[0]}{3 \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c[0] \right)^2} + \left(10 \, c'[0] \left(\left(3 \, c'[0] \right. \right. \right. \\
& \left. \left. \left(- \left(4 \, c'[0]^2 \right) / \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c[0] \right)^2 - \left(2 \, c''[0] \right) / \right. \right. \right. \\
& \left. \left. \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c[0] \right) \right) \right) / \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + \right. \\
& \left. 4 \, E0^2 - 4 \, c[0] \right) - \frac{c^{(3)}[0]}{A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c[0]} \Big) \Big) / \left(3 \left(A0^2 \, e^2 - \right. \right. \\
& \left. \left. 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c[0] \right) \right) - \frac{c^{(4)}[0]}{3 \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c[0] \right)} \Big) \Big) / \\
& \left(2 \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c[0] \right) \right) + \frac{c'[0] \, c^{(5)}[0]}{10 \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c[0] \right)^2} + \\
& \left(18 \, c'[0] \left(\left(\left(- \left(4 \, c'[0]^2 \right) / \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c[0] \right)^2 - \right. \right. \right. \right. \\
& \left. \left. \left. \frac{2 \, c''[0]}{A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c[0]} \right) c^{(3)}[0] \right) \right) / \\
& \left(6 \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c[0] \right) \right) + \left(4 \, c''[0] \left(\left(3 \, c'[0] \right. \right. \right. \\
& \left. \left. \left(- \left(4 \, c'[0]^2 \right) / \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c[0] \right)^2 - \left(2 \, c''[0] \right) / \right. \right. \right. \\
& \left. \left. \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c[0] \right) \right) \right) / \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + \right. \\
& \left. 4 \, E0^2 - 4 \, c[0] \right) - \frac{c^{(3)}[0]}{A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c[0]} \Big) \Big) / \left(3 \left(A0^2 \, e^2 - \right. \right. \\
& \left. \left. 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c[0] \right) \right) + \frac{c'[0] \, c^{(4)}[0]}{3 \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c[0] \right)^2} + \\
& \left(7 \, c'[0] \left(\left(c''[0] \left(- \left(4 \, c'[0]^2 \right) / \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c[0] \right)^2 - \right. \right. \right. \right. \\
& \left. \left. \left. \left(2 \, c''[0] \right) / \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c[0] \right) \right) \right) \right) / \\
& \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c[0] \right) + \left(2 \, c'[0] \, c^{(3)}[0] \right) / \\
& \left(3 \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c[0] \right)^2 \right) + \left(10 \, c'[0] \right. \\
& \left. \left(\left(3 \, c'[0] \left(- \left(4 \, c'[0]^2 \right) / \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c[0] \right)^2 - \right. \right. \right. \right. \\
& \left. \left. \left. \left(2 \, c''[0] \right) / \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c[0] \right) \right) \right) \right) / \left(A0^2 \right. \\
& \left. e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c[0] \right) - c^{(3)}[0] / \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + \right. \\
& \left. 4 \, E0^2 - 4 \, c[0] \right) \Big) \Big) / \left(3 \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c[0] \right) \right) - \\
& c^{(4)}[0] / \left(3 \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c[0] \right) \right) \Big) \Big) / \left(2 \left(A0^2 \, e^2 - \right. \right.
\end{aligned}$$

$$\begin{aligned}
& \left(4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - \frac{c^{(5)}[0]}{12 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])} \Bigg) \Bigg/ \\
& \left(5 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) - \frac{c^{(6)}[0]}{60 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])} \right) - \\
& \frac{c^{(7)}[0]}{360 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])} \Bigg) \Bigg) b^7 - \\
& \frac{1}{16} \left(\sqrt{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right. \\
& \left. \left(\left(c^{(4)}[0] \right. \right. \right. \\
& \left. \left(c''[0] \left(- \frac{4 c'[0]^2}{(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2} - \right. \right. \right. \\
& \left. \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) \Bigg) \Bigg/ \\
& (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) + \frac{2 c'[0] c^{(3)}[0]}{3 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2} + \\
& \left(10 c'[0] \left(\left(3 c'[0] (- (4 c'[0]^2) \Bigg/ (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2 - \right. \right. \right. \\
& \left. \left. (2 c''[0]) \Bigg/ (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) \right) \right) \Bigg) \Bigg/ \\
& (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \Bigg) \Bigg) \Bigg/ \\
& (3 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) - \\
& \frac{c^{(4)}[0]}{3 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])} \Bigg) \Bigg) \Bigg/ (12 (A0^2 e^2 - \\
& 4 A0 e E0 + 4 E0^2 - 4 c[0])) + \\
& \left(\left(\left(3 c'[0] \left(- \frac{4 c'[0]^2}{(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2} - \right. \right. \right. \right. \\
& \left. \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) \Bigg) \Bigg) \Bigg/ \\
& (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \Bigg) \Bigg)
\end{aligned}$$

$$\begin{aligned}
& \left. c^{(5)}[0] \right) \Bigg/ \left(180 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(7 c^{(3)}[0] \left(\left(\left(- \frac{4 c'[0]^2}{\left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} - \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right. \right. \right. \\
& \left. \left. \left. c^{(3)}[0] \right) \right) \Bigg/ \left(6 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(4 c''[0] \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \\
& \left. \left. \left. \left(2 c''[0] \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \Bigg/ \right. \\
& \left. \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \Bigg) \Bigg/ \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \frac{c'[0] c^{(4)}[0]}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \\
& \left(7 c'[0] \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \\
& \left. \left. \left. \left(2 c''[0] \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \Bigg/ \left(A0^2 e^2 - \right. \right. \\
& \left. \left. 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) + \frac{2 c'[0] c^{(3)}[0]}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \right. \\
& \left(10 c'[0] \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \\
& \left. \left. \left. \left(2 c''[0] \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \Bigg/ \right. \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] \Bigg/ \left(A0^2 e^2 - 4 A0 \right. \\
& \left. e E0 + 4 E0^2 - 4 c[0] \right) \Bigg) \Bigg/ \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \\
& \frac{c^{(4)}[0]}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \Bigg) \Bigg/ \left(2 \left(A0^2 e^2 - 4 A0 e E0 + \right. \right. \\
& \left. \left. 4 E0^2 - 4 c[0] \right) \right) - \frac{c^{(5)}[0]}{12 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \Bigg) \Bigg/ \\
& \left(15 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \left(\left(- \frac{4 c'[0]^2}{\left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} - \right. \right. \\
& \left. \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) c^{(6)}[0] \right) \Bigg/ \\
& \left(360 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) +
\end{aligned}$$

$$\begin{aligned}
& \frac{1}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \\
& 5 \\
& c''[0] \\
& \left(\left(c^{(3)}[0] \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \right. \\
& \quad \left. \left. \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) \right) / \right. \\
& \quad \left. \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) / \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(3 c''[0] \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \right. \\
& \quad \left. \left. \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - \right. \\
& \quad \left. 4 c[0] \right) + \frac{2 c'[0] c^{(3)}[0]}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \left(10 c'[0] \left(\left(3 c'[0] \right. \right. \right. \\
& \quad \left. \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \left(2 c''[0] \right) / \right. \right. \\
& \quad \left. \left. \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) / \left(A0^2 e^2 - 4 A0 e E0 + \right. \\
& \quad \left. 4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) / \left(3 \left(A0^2 e^2 - \right. \right. \\
& \quad \left. \left. 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \frac{c^{(4)}[0]}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \right) \right) / \\
& \left(2 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \frac{c'[0] c^{(5)}[0]}{10 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \\
& \left(18 c'[0] \left(\left(\left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \right. \\
& \quad \left. \left. \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) c^{(3)}[0] \right) \right) / \right. \\
& \quad \left(6 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \left(4 c''[0] \left(\left(3 c'[0] \right. \right. \right. \\
& \quad \left. \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \left(2 c''[0] \right) / \right. \right. \\
& \quad \left. \left. \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \right) / \left(A0^2 e^2 - 4 A0 e E0 + \right.
\end{aligned}$$

$$\begin{aligned}
& \left(4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \Bigg) \Bigg/ \left(3 \left(A0^2 e^2 - \right. \right. \\
& \left. \left. 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \frac{c'[0] c^{(4)}[0]}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \\
& \left(7 c'[0] \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) \right) \Big/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \\
& \left. \left. \left(2 c''[0] \right) \Big/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \Bigg/ \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) + \left(2 c'[0] c^{(3)}[0] \right) \Bigg/ \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 \right) + \left(10 c'[0] \right. \\
& \left. \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) \right) \Big/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \\
& \left. \left. \left(2 c''[0] \right) \Big/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \Bigg/ \left(A0^2 \right. \\
& \left. e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] \Big/ \left(A0^2 e^2 - 4 A0 e E0 + \right. \\
& \left. 4 E0^2 - 4 c[0] \right) \Bigg) \Bigg/ \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \\
& c^{(4)}[0] \Big/ \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Bigg) \Bigg/ \left(2 \left(A0^2 e^2 - \right. \right. \\
& \left. \left. 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \frac{c^{(5)}[0]}{12 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \Bigg) \Bigg/ \\
& \left(5 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \frac{c^{(6)}[0]}{60 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \Bigg) + \\
& \frac{c'[0] c^{(7)}[0]}{252 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \\
& \frac{1}{7 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \\
& \frac{26}{c'[0]} \\
& \left(\left(\left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) \right) \Big/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \right. \\
& \left. \left. \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) \right) \Bigg/ \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \Bigg) \\
& c^{(4)}[0] \Bigg) \Bigg/ \left(18 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(5 c^{(3)}[0] \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) \right) \Big/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \right.
\end{aligned}$$

$$\begin{aligned}
& \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + \right. \\
& \left. 4 E0^2 - 4 c[0] \right) + \frac{2 c'[0] c^{(3)}[0]}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \\
& \left(10 c'[0] \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) \Big/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \\
& \left. \left. \left(2 c''[0] \right) \Big/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \Bigg/ \left(A0^2 e^2 - \right. \\
& \left. 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \Bigg) \Bigg/ \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \\
& \left. \frac{c^{(4)}[0]}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \right) \Bigg/ \left(12 \left(A0^2 \right. \right. \\
& \left. \left. e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \\
& \left(\left(- \frac{4 c'[0]^2}{\left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} - \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right. \\
& \left. c^{(5)}[0] \right) \Bigg/ \left(120 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(8 c''[0] \left(\left(\left(- \left(4 c'[0]^2 \right) \Big/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \\
& \left. \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) c^{(3)}[0] \right) \Bigg/ \\
& \left(6 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \left(4 c''[0] \left(\left(3 c'[0] \right. \right. \right. \\
& \left. \left. \left(- \left(4 c'[0]^2 \right) \Big/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \left(2 c''[0] \right) \Big/ \right. \right. \\
& \left. \left. \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + \right. \\
& \left. 4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \Bigg) \Bigg/ \left(3 \left(A0^2 e^2 - \right. \right. \\
& \left. \left. 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \frac{c'[0] c^{(4)}[0]}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \\
& \left(7 c'[0] \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) \Big/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \\
& \left. \left. \left(2 c''[0] \right) \Big/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \Bigg/ \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) + \left(2 c'[0] c^{(3)}[0] \right) \Bigg/ \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 \right) + \left(10 c'[0] \right.
\end{aligned}$$

$$\begin{aligned}
& \left(\left(3 c' [0] \left(- \left(4 c' [0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right)^2 - \right. \right. \\
& \quad \left. \left(2 c'' [0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) \Bigg) / \left(A0^2 \right. \\
& \quad \left. e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) - c^{(3)} [0] / \left(A0^2 e^2 - 4 A0 e E0 + \right. \\
& \quad \left. 4 E0^2 - 4 c [0] \right) \Bigg) / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) - \\
& \quad c^{(4)} [0] / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) \Bigg) / \left(2 \left(A0^2 e^2 - \right. \right. \\
& \quad \left. \left. 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) - \frac{c^{(5)} [0]}{12 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right)} \Bigg) / \\
& \quad \left(5 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) + \frac{c' [0] c^{(6)} [0]}{45 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right)^2} + \\
& \quad \left(11 c' [0] \left(\left(c^{(3)} [0] \left(\left(3 c' [0] \left(- \left(4 c' [0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right)^2 - \right. \right. \right. \right. \right. \right. \\
& \quad \left. \left(2 c'' [0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) \Bigg) / \left(A0^2 e^2 - \right. \\
& \quad \left. 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) - \frac{c^{(3)} [0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0]} \Bigg) \Bigg) / \\
& \quad \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) + \left(3 c'' [0] \right. \\
& \quad \left(\left(c'' [0] \left(- \left(4 c' [0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right)^2 - \right. \right. \\
& \quad \left. \left(2 c'' [0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) \Bigg) / \\
& \quad \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) + \left(2 c' [0] c^{(3)} [0] \right) / \\
& \quad \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right)^2 \right) + \left(10 c' [0] \right. \\
& \quad \left(\left(3 c' [0] \left(- \left(4 c' [0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right)^2 - \right. \right. \\
& \quad \left. \left(2 c'' [0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) \Bigg) / \left(A0^2 \right. \\
& \quad \left. e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) - c^{(3)} [0] / \left(A0^2 e^2 - 4 A0 e E0 + \right. \\
& \quad \left. 4 E0^2 - 4 c [0] \right) \Bigg) / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) - \\
& \quad c^{(4)} [0] / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) \Bigg) / \left(2 \left(A0^2 e^2 - \right. \right. \\
& \quad \left. \left. 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) + \frac{c' [0] c^{(5)} [0]}{10 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right)^2} + \\
& \quad \left(18 c' [0] \left(\left(\left(- \left(4 c' [0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right)^2 - \right. \right. \right. \right. \\
& \quad \left. \left(2 c'' [0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) \Bigg) c^{(3)} [0] \Bigg) / \\
& \quad \left(6 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) + \left(4 c'' [0] \right. \\
& \quad \left(\left(3 c' [0] \left(- \left(4 c' [0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right)^2 - \right. \right. \\
& \quad \left. \left(2 c'' [0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) \Bigg) / \left(A0^2 \right. \\
& \quad \left. e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) - c^{(3)} [0] / \left(A0^2 e^2 - 4 A0 e E0 + \right.
\end{aligned}$$

$$\begin{aligned}
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \frac{c^{(4)}[0]}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \Bigg) \\
& c^{(5)}[0] \Bigg) / \left(80 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(c^{(4)}[0] \left(\left(\left(- \frac{4 c'[0]^2}{\left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} - \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) \right. \right. \\
& \left. \left. c^{(3)}[0] \right) / \left(6 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \right. \\
& \left(4 c''[0] \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \\
& \left. \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \right) / \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \Bigg) \Bigg) / \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \frac{c'[0] c^{(4)}[0]}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \\
& \left(7 c'[0] \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \right. \\
& \left. \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \right) / \left(A0^2 e^2 - \right. \\
& \left. 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) + \frac{2 c'[0] c^{(3)}[0]}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \\
& \left(10 c'[0] \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \right. \\
& \left. \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \right) / \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] / \left(A0^2 e^2 - 4 A0 \right. \\
& \left. e E0 + 4 E0^2 - 4 c[0] \right) \Bigg) \Bigg) / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \\
& \frac{c^{(4)}[0]}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \Bigg) \Bigg) / \left(2 \left(A0^2 e^2 - 4 A0 e E0 + \right. \right. \\
& \left. \left. 4 E0^2 - 4 c[0] \right) \right) - \frac{c^{(5)}[0]}{12 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \Bigg) \Bigg) / \\
& \left(10 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \frac{1}{2 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \\
& c^{(3)}[0]
\end{aligned}$$

$$\begin{aligned}
& \left(\left(c^{(3)}[0] \left(\left(3 c'[0] \left(- (4 c'[0]^2) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2 - \right. \right. \right. \right. \right. \\
& \quad \left. \left. \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) \right) / \right. \\
& \quad \left. \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) / \\
& \quad \left(3 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) \right) + \\
& \quad \left(3 c''[0] \left(\left(c''[0] \left(- (4 c'[0]^2) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2 - \right. \right. \right. \right. \right. \\
& \quad \left. \left. \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - \right. \\
& \quad \left. 4 c[0] \right) + \frac{2 c'[0] c^{(3)}[0]}{3 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2} + \left(10 c'[0] \left(\left(3 c'[0] \right. \right. \right. \\
& \quad \left. \left(- (4 c'[0]^2) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2 - (2 c''[0]) / \right. \right. \\
& \quad \left. \left. (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) \right) \right) \right) / \left(A0^2 e^2 - 4 A0 e E0 + \right. \\
& \quad \left. 4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) / \left(3 (A0^2 e^2 - \right. \\
& \quad \left. 4 A0 e E0 + 4 E0^2 - 4 c[0]) \right) - \frac{c^{(4)}[0]}{3 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])} \right) \right) / \\
& \quad \left(2 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) \right) + \frac{c'[0] c^{(5)}[0]}{10 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2} + \\
& \quad \left(18 c'[0] \left(\left(\left(- (4 c'[0]^2) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2 - \right. \right. \right. \right. \right. \\
& \quad \left. \left. \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) c^{(3)}[0] \right) \right) / \right. \\
& \quad \left(6 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) \right) + \left(4 c''[0] \left(\left(3 c'[0] \right. \right. \right. \\
& \quad \left. \left(- (4 c'[0]^2) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2 - (2 c''[0]) / \right. \right. \\
& \quad \left. \left. (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) \right) \right) \right) / \left(A0^2 e^2 - 4 A0 e E0 + \right. \\
& \quad \left. 4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) / \left(3 (A0^2 e^2 - \right. \\
& \quad \left. 4 A0 e E0 + 4 E0^2 - 4 c[0]) \right) + \frac{c'[0] c^{(4)}[0]}{3 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2} +
\end{aligned}$$

$$\begin{aligned}
& \left(7 \, c' [0] \left(\left(c'' [0] \left(- \left(4 \, c' [0]^2 \right) / \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right)^2 - \right. \right. \right. \right. \\
& \quad \left. \left. \left. \left. \left(2 \, c'' [0] \right) / \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right) \right) \right) \right) / \right. \\
& \quad \left. \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right) + \left(2 \, c' [0] \, c^{(3)} [0] \right) / \right. \\
& \quad \left. \left(3 \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right)^2 \right) + \left(10 \, c' [0] \right. \right. \\
& \quad \left. \left. \left(\left(3 \, c' [0] \left(- \left(4 \, c' [0]^2 \right) / \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right)^2 - \right. \right. \right. \right. \right. \\
& \quad \left. \left. \left. \left. \left(2 \, c'' [0] \right) / \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right) \right) \right) \right) / \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right) - c^{(3)} [0] / \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right) \right) \right) / \left(3 \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right) \right) - c^{(4)} [0] / \left(3 \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right) \right) \right) / \left(2 \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right) \right) - \frac{c^{(5)} [0]}{12 \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right)} \right) \Bigg) / \\
& \quad \left(5 \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right) \right) - \frac{c^{(6)} [0]}{60 \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right)} \Bigg) - \\
& \quad \left(\left(- \frac{4 \, c' [0]^2}{\left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right)^2} - \frac{2 \, c'' [0]}{A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0]} \right) \right. \\
& \quad \left. c^{(7)} [0] \right) / \\
& \quad \frac{(1680 \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right) + 1}{7 \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right)} \\
& \quad \frac{12 \, c'' [0]}{12} \\
& \quad \left(\left(\left(\left(3 \, c' [0] \left(- \left(4 \, c' [0]^2 \right) / \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right)^2 - \right. \right. \right. \right. \right. \right. \\
& \quad \left. \left. \left. \left. \frac{2 \, c'' [0]}{A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0]} \right) \right) \right) / \right. \\
& \quad \left. \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right) - \frac{c^{(3)} [0]}{A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0]} \right) \\
& \quad c^{(4)} [0] \right) / \left(18 \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right) \right) + \\
& \quad \left(5 \, c^{(3)} [0] \left(\left(c'' [0] \left(- \left(4 \, c' [0]^2 \right) / \left(A0^2 \, e^2 - 4 \, A0 \, e \, E0 + 4 \, E0^2 - 4 \, c [0] \right)^2 - \right. \right. \right. \right. \right. \right.
\end{aligned}$$

$$\begin{aligned}
& \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + \right. \\
& \left. 4 E0^2 - 4 c[0] \right) + \frac{2 c'[0] c^{(3)}[0]}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \\
& \left(10 c'[0] \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \\
& \left. \left. \left(2 c''[0] \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \Bigg/ \left(A0^2 e^2 - \right. \\
& \left. 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \Bigg) \Bigg/ \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \\
& \left. \frac{c^{(4)}[0]}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \right) \Bigg/ \left(12 \left(A0^2 \right. \right. \\
& \left. \left. e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \\
& \left(\left(- \frac{4 c'[0]^2}{\left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} - \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right. \\
& \left. c^{(5)}[0] \right) \Bigg/ \left(120 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(8 c''[0] \left(\left(\left(- \left(4 c'[0]^2 \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \\
& \left. \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) c^{(3)}[0] \right) \Bigg/ \\
& \left(6 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \left(4 c''[0] \left(\left(3 c'[0] \right. \right. \right. \\
& \left. \left. \left(- \left(4 c'[0]^2 \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \left(2 c''[0] \right) \Bigg/ \right. \right. \\
& \left. \left. \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + \right. \\
& \left. 4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \Bigg) \Bigg/ \left(3 \left(A0^2 e^2 - \right. \right. \\
& \left. \left. 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \frac{c'[0] c^{(4)}[0]}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \\
& \left(7 c'[0] \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \\
& \left. \left. \left(2 c''[0] \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \Bigg/ \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) + \left(2 c'[0] c^{(3)}[0] \right) \Bigg/ \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 \right) + \left(10 c'[0] \right.
\end{aligned}$$

$$\begin{aligned}
& \left(\left(3 c' [0] \left(- \left(4 c' [0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right)^2 - \right. \right. \\
& \quad \left. \left(2 c'' [0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) \right) / \left(A0^2 \right. \\
& \quad \left. e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) - c^{(3)} [0] / \left(A0^2 e^2 - 4 A0 e E0 + \right. \\
& \quad \left. 4 E0^2 - 4 c [0] \right) \right) / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) - \\
& \quad c^{(4)} [0] / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) \right) / \left(2 \left(A0^2 e^2 - \right. \right. \\
& \quad \left. \left. 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) - \frac{c^{(5)} [0]}{12 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right)} \right) \Bigg) / \\
& \quad \left(5 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) + \frac{c' [0] c^{(6)} [0]}{45 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right)^2} + \\
& \quad \left(11 c' [0] \left(\left(c^{(3)} [0] \left(\left(3 c' [0] \left(- \left(4 c' [0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right)^2 - \right. \right. \right. \right. \right. \right. \\
& \quad \left. \left(2 c'' [0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) \right) \right) / \left(A0^2 e^2 - \right. \\
& \quad \left. 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) - \frac{c^{(3)} [0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0]} \right) \Bigg) / \\
& \quad \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) + \left(3 c'' [0] \right. \\
& \quad \left(\left(c'' [0] \left(- \left(4 c' [0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right)^2 - \right. \right. \\
& \quad \left. \left(2 c'' [0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) \right) \Bigg) / \\
& \quad \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) + \left(2 c' [0] c^{(3)} [0] \right) / \\
& \quad \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right)^2 \right) + \left(10 c' [0] \right. \\
& \quad \left(\left(3 c' [0] \left(- \left(4 c' [0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right)^2 - \right. \right. \\
& \quad \left. \left(2 c'' [0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) \right) \Bigg) / \left(A0^2 \right. \\
& \quad \left. e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) - c^{(3)} [0] / \left(A0^2 e^2 - 4 A0 e E0 + \right. \\
& \quad \left. 4 E0^2 - 4 c [0] \right) \right) \Bigg) / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) - \\
& \quad c^{(4)} [0] / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) \right) \Bigg) / \left(2 \left(A0^2 e^2 - \right. \right. \\
& \quad \left. \left. 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) + \frac{c' [0] c^{(5)} [0]}{10 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right)^2} + \\
& \quad \left(18 c' [0] \left(\left(\left(- \left(4 c' [0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right)^2 - \right. \right. \right. \right. \\
& \quad \left. \left(2 c'' [0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) \right) c^{(3)} [0] \Bigg) / \\
& \quad \left(6 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) + \left(4 c'' [0] \right. \\
& \quad \left(\left(3 c' [0] \left(- \left(4 c' [0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right)^2 - \right. \right. \\
& \quad \left. \left(2 c'' [0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) \right) \Bigg) / \left(A0^2 \right. \\
& \quad \left. e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) - c^{(3)} [0] / \left(A0^2 e^2 - 4 A0 e E0 + \right.
\end{aligned}$$

$$\begin{aligned}
& \left. \left(\left(\left(4 E0^2 - 4 c[0] \right) \right) \right) \right) \Bigg/ \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(c'[0] c^{(4)}[0] \right) \Bigg/ \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 \right) + \\
& \left(7 c'[0] \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \\
& \quad \left. \left. \left(2 c''[0] \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \right) \Bigg/ \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) + \left(2 c'[0] c^{(3)}[0] \right) \Bigg/ \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 \right) + \left(10 c'[0] \right. \\
& \quad \left. \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \\
& \quad \left. \left. \left(2 c''[0] \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \right) \Bigg/ \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] \Bigg/ \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \Bigg) \Bigg/ \left(3 \left(A0^2 e^2 - 4 A0 \right. \right. \\
& \quad \left. \left. e E0 + 4 E0^2 - 4 c[0] \right) \right) - c^{(4)}[0] \Bigg/ \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 \right. \right. \\
& \quad \left. \left. E0^2 - 4 c[0] \right) \right) \Bigg) \Bigg/ \left(2 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \\
& c^{(5)}[0] \Bigg/ \left(12 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Bigg) \Bigg/ \left(5 \left(A0^2 e^2 - \right. \right. \\
& \quad \left. \left. 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \frac{c^{(6)}[0]}{60 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \Bigg) \Bigg/ \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \frac{c^{(7)}[0]}{360 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \Bigg) + \\
& \frac{c'[0] c^{(8)}[0]}{1680 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \\
& \frac{1}{4 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \\
& \frac{15}{c'[0]} \\
& \left(\left(c^{(4)}[0] \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \right. \right. \right. \\
& \quad \left. \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + \right. \\
& \quad \left. 4 E0^2 - 4 c[0] \right) + \frac{2 c'[0] c^{(3)}[0]}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \\
& \left(10 c'[0] \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \right. \right. \\
& \quad \left. \left. \left(2 c''[0] \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \right) \Bigg/ \left(A0^2 e^2 - \right.
\end{aligned}$$

$$\begin{aligned}
& \left(\left(\left(4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) / \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \\
& \frac{c^{(4)}[0]}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \left) \right) / \left(12 \left(A0^2 \right. \right. \\
& \left. \left. e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(\left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \\
& \left. \left. \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) \right) / \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \left. \right) \\
& c^{(5)}[0] \left) \right) / \left(180 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(7 c^{(3)}[0] \left(\left(\left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \right. \\
& \left. \left. \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) c^{(3)}[0] \right) \right) / \\
& \left(6 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \left(4 c''[0] \left(\left(3 c'[0] \right. \right. \right. \\
& \left. \left. \left. - \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \left(2 c''[0] \right) / \right. \right. \right. \\
& \left. \left. \left. \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \right) / \left(A0^2 e^2 - 4 A0 e E0 + \right. \\
& \left. 4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \left. \right) \right) / \left(3 \left(A0^2 e^2 - \right. \right. \\
& \left. \left. 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \frac{c'[0] c^{(4)}[0]}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \\
& \left(7 c'[0] \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \right) / \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) + \left(2 c'[0] c^{(3)}[0] \right) / \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 \right) + \left(10 c'[0] \right. \\
& \left. \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \right) / \left(A0^2 \right. \\
& \left. e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] / \left(A0^2 e^2 - 4 A0 e E0 + \right. \\
& \left. 4 E0^2 - 4 c[0] \right) \left. \right) \right) / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) -
\end{aligned}$$

$$\begin{aligned}
& \left(\frac{c^{(4)}[0]}{\left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)} \right) / \left(2 \right. \\
& \left. \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - \right. \\
& \left. \frac{c^{(5)}[0]}{12 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \right) / \left(15 \left(A0^2 e^2 - 4 \right. \right. \\
& \left. \left. A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \\
& \left(\left(- \frac{4 c'[0]^2}{\left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} - \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right. \\
& \left. c^{(6)}[0] \right) / \left(360 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(5 c''[0] \left(\left(c^{(3)}[0] \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \right. \right. \right. \right. \right. \right. \\
& \left. \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) / \left(A0^2 e^2 - \right. \\
& \left. 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) / \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \left(3 c''[0] \right. \\
& \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \\
& \left. \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) / \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) + \left(2 c'[0] c^{(3)}[0] \right) / \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 \right) + \left(10 c'[0] \right. \\
& \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \\
& \left. \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) / \left(A0^2 \right. \\
& \left. e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] / \left(A0^2 e^2 - 4 A0 e E0 + \right. \\
& \left. 4 E0^2 - 4 c[0] \right) \right) / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \\
& c^{(4)}[0] / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) / \left(2 \left(A0^2 e^2 - \right. \right. \\
& \left. \left. 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \frac{c'[0] c^{(5)}[0]}{10 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \\
& \left(18 c'[0] \left(\left(\left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \right. \right. \right. \\
& \left. \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) c^{(3)}[0] \right) / \\
& \left(6 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \left(4 c''[0] \right. \\
& \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \\
& \left. \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) / \left(A0^2 \right. \\
& \left. e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] / \left(A0^2 e^2 - 4 A0 e E0 + \right.
\end{aligned}$$

$$\begin{aligned}
& \left. \left(\left(\left(4 E0^2 - 4 c[0] \right) \right) \right) \right) \Bigg/ \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(c'[0] c^{(4)}[0] \right) \Bigg/ \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 \right) + \\
& \left(7 c'[0] \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \\
& \quad \left. \left. \left(2 c''[0] \right) \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \Bigg/ \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) + \left(2 c'[0] c^{(3)}[0] \right) \Bigg/ \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 \right) + \left(10 c'[0] \right. \\
& \quad \left. \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \\
& \quad \left. \left. \left(2 c''[0] \right) \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \Bigg/ \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] \Bigg/ \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \Bigg) \Bigg/ \left(3 \left(A0^2 e^2 - 4 A0 \right. \right. \\
& \quad \left. \left. e E0 + 4 E0^2 - 4 c[0] \right) \right) - c^{(4)}[0] \Bigg/ \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 \right. \right. \\
& \quad \left. \left. E0^2 - 4 c[0] \right) \right) \Bigg) \Bigg/ \left(2 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \\
& c^{(5)}[0] \Bigg/ \left(12 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Bigg) \Bigg/ \left(5 \left(A0^2 e^2 - \right. \right. \\
& \quad \left. \left. 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \frac{c^{(6)}[0]}{60 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \Bigg) \Bigg/ \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \frac{c'[0] c^{(7)}[0]}{252 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \\
& \left(26 c'[0] \left(\left(\left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \right. \right. \\
& \quad \left. \left(2 c''[0] \right) \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Bigg) \Bigg/ \left(A0^2 e^2 - \right. \\
& \quad \left. 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \Bigg) \\
& c^{(4)}[0] \Bigg) \Bigg/ \left(18 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(5 c^{(3)}[0] \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \\
& \quad \left. \left(2 c''[0] \right) \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Bigg) \Bigg/ \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) + \left(2 c'[0] c^{(3)}[0] \right) \Bigg/ \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 \right) + \left(10 c'[0] \right. \\
& \quad \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \\
& \quad \left. \left(2 c''[0] \right) \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Bigg) \Bigg/ \left(A0^2 \right. \\
& \quad \left. e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + \right. \\
& \quad \left. 4 E0^2 - 4 c[0] \right) \Bigg) \Bigg/ \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) -
\end{aligned}$$

$$\begin{aligned}
& c^{(4)}[0] / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Bigg) / \\
& \left(12 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \left(\left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - \right. \right. \right. \\
& \left. \left. \left. 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \\
& c^{(5)}[0] \Bigg) / \left(120 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(8 c''[0] \left(\left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \\
& \left. \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) c^{(3)}[0] \Bigg) / \\
& \left(6 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \left(4 c''[0] \right. \\
& \left. \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \\
& \left. \left. \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \right) / \left(A0^2 \right. \\
& \left. e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] / \left(A0^2 e^2 - 4 A0 e E0 + \right. \\
& \left. 4 E0^2 - 4 c[0] \right) \Bigg) / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(c'[0] c^{(4)}[0] \right) / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 + \\
& \left(7 c'[0] \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \\
& \left. \left. \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \right) / \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) + \left(2 c'[0] c^{(3)}[0] \right) / \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 + \left(10 c'[0] \right. \\
& \left. \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \\
& \left. \left. \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \right) / \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] / \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \Bigg) / \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - c^{(4)}[0] / \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Bigg) / \\
& \left(2 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - c^{(5)}[0] / \\
& \left(12 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Bigg) / \left(5 \left(A0^2 e^2 - 4 A0 e E0 + \right. \right. \\
& \left. \left. 4 E0^2 - 4 c[0] \right) \right) + \frac{c'[0] c^{(6)}[0]}{45 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \left(11 c'[0] \right. \\
& \left. \left(c^{(3)}[0] \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \right. \\
& \left. \left. \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \right) / \left(A0^2 \right. \\
& \left. e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] / \left(A0^2 e^2 - 4 A0 e E0 + \right. \\
& \left. 4 E0^2 - 4 c[0] \right) \Bigg) / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) +
\end{aligned}$$

$$\begin{aligned}
& \left(3 c''[0] \left(\left(c''[0] \left(- (4 c'[0]^2) \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \\
& \quad \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) / \\
& \quad \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) + \left(2 c'[0] c^{(3)}[0] \right) / \\
& \quad \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 \right) + \left(10 c'[0] \right. \\
& \quad \left. \left(\left(3 c'[0] \left(- (4 c'[0]^2) \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \\
& \quad \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) / \\
& \quad \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] / \\
& \quad \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) / \left(3 \left(A0^2 e^2 - 4 A0 \right. \right. \\
& \quad \left. \left. e E0 + 4 E0^2 - 4 c[0] \right) \right) - c^{(4)}[0] / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 \right. \right. \\
& \quad \left. \left. E0^2 - 4 c[0] \right) \right) \right) / \left(2 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \quad \left(c'[0] c^{(5)}[0] \right) / \left(10 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 \right) + \\
& \quad \left(18 c'[0] \left(\left(\left(- (4 c'[0]^2) \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \\
& \quad \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) c^{(3)}[0] \right) / \\
& \quad \left(6 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \left(4 c''[0] \right. \\
& \quad \left. \left(\left(3 c'[0] \left(- (4 c'[0]^2) \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \\
& \quad \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) / \\
& \quad \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] / \\
& \quad \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) / \\
& \quad \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \left(c'[0] c^{(4)}[0] \right) / \\
& \quad \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 \right) + \left(7 c'[0] \right. \\
& \quad \left. \left(\left(c''[0] \left(- (4 c'[0]^2) \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \\
& \quad \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) / \\
& \quad \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) + \left(2 c'[0] c^{(3)}[0] \right) / \\
& \quad \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 \right) + \left(10 c'[0] \right. \\
& \quad \left. \left(\left(3 c'[0] \left(- (4 c'[0]^2) \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \\
& \quad \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) / \\
& \quad \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - \\
& \quad c^{(3)}[0] / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) / \\
& \quad \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \\
& \quad c^{(4)}[0] / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) / \\
& \quad \left(2 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - c^{(5)}[0] / \\
& \quad \left(12 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) / \left(5 \left(A0^2 e^2 - \right. \right.
\end{aligned}$$

[illegible]

$$\begin{aligned} & \left(e^E + 4 E^0 - 4 c[0] \right) \Bigg) \Bigg/ \left(3 \left(A^0 e^2 - 4 A^0 e^E + 4 E^0 - 4 c[0] \right) \right) - \\ & \frac{c^{(4)}[0]}{3 \left(A^0 e^2 - 4 A^0 e^E + 4 E^0 - 4 c[0] \right)} \Bigg) \Bigg/ \left(2 \left(A^0 e^2 - \right. \right. \\ & \left. \left. 4 A^0 e^E + 4 E^0 - 4 c[0] \right) \right) - \\ & \frac{c^{(5)}[0]}{12 \left(A^0 e^2 - 4 A^0 e^E + 4 E^0 - 4 c[0] \right)} \Bigg) \Bigg/ \left(60 \left(A^0 e^2 - \right. \right. \\ & \left. \left. 4 A^0 e^E + \right. \right. \\ & \left. \left. 4 E^0 - 4 c[0] \right) \right) + \\ & \left(\left(\left(c''[0] \left(-\frac{4 c'[0]^2}{\left(A^0 e^2 - 4 A^0 e^E + 4 E^0 - 4 c[0] \right)^2} - \frac{2 c''[0]}{A^0 e^2 - 4 A^0 e^E + 4 E^0 - 4 c[0]} \right) \right) \right) \right. \\ & \left. \left(A^0 e^2 - 4 A^0 e^E + 4 E^0 - 4 c[0] \right) + \right. \\ & \left. \frac{2 c'[0] c^{(3)}[0]}{3 \left(A^0 e^2 - 4 A^0 e^E + 4 E^0 - 4 c[0] \right)^2} + \right. \\ & \left. \left(10 c'[0] \left(\left(3 c'[0] \left(-\left(4 c'[0]^2 \right) / \left(A^0 e^2 - 4 A^0 e^E + 4 E^0 - 4 c[0] \right)^2 - \right. \right. \right. \right. \right. \right. \\ & \left. \left. \left. \left. \left. \left(2 c''[0] \right) / \left(A^0 e^2 - 4 A^0 e^E + 4 E^0 - 4 c[0] \right) \right) \right) \right) \right) \right) \right) \Bigg/ \\ & \left(A^0 e^2 - 4 A^0 e^E + 4 E^0 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A^0 e^2 - 4 A^0 e^E + 4 E^0 - 4 c[0]} \Bigg) \Bigg/ \\ & \left(3 \left(A^0 e^2 - 4 A^0 e^E + 4 E^0 - 4 c[0] \right) \right) - \frac{c^{(4)}[0]}{3 \left(A^0 e^2 - 4 A^0 e^E + 4 E^0 - 4 c[0] \right)} \Bigg) \\ & c^{(6)}[0] \Bigg) \Bigg/ \left(720 \left(A^0 e^2 - 4 A^0 e^E + 4 E^0 - 4 c[0] \right) \right) + \\ & \frac{1}{9 \left(A^0 e^2 - 4 A^0 e^E + 4 E^0 - 4 c[0] \right)} \\ & c^{(4)}[0] \\ & \left(\left(c^{(3)}[0] \left(\left(3 c'[0] \left(-\left(4 c'[0]^2 \right) / \left(A^0 e^2 - 4 A^0 e^E + 4 E^0 - 4 c[0] \right)^2 - \right. \right. \right. \right. \right. \right. \right. \right. \\ & \left. \left. \left. \left. \left. \frac{2 c''[0]}{A^0 e^2 - 4 A^0 e^E + 4 E^0 - 4 c[0]} \right) \right) \right) \right) \right) \Bigg/ \\ & \left(A^0 e^2 - 4 A^0 e^E + 4 E^0 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A^0 e^2 - 4 A^0 e^E + 4 E^0 - 4 c[0]} \Bigg) \Bigg/ \\ & \left(3 \left(A^0 e^2 - 4 A^0 e^E + 4 E^0 - 4 c[0] \right) \right) + \end{aligned}$$

$$\begin{aligned}
& \left(3 c''[0] \left(\left(c''[0] \left(- (4 c'[0]^2) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2 - \right. \right. \right. \right. \\
& \quad \left. \left. \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) / (A0^2 e^2 - 4 A0 e E0 + \right. \\
& \quad \left. 4 E0^2 - 4 c[0]) + \frac{2 c'[0] c^{(3)}[0]}{3 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2} + \right. \\
& \quad \left(10 c'[0] \left(\left(3 c'[0] \left(- (4 c'[0]^2) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2 - \right. \right. \right. \right. \\
& \quad \left. \left. \left. (2 c''[0]) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) \right) \right) / (A0^2 \right. \\
& \quad \left. e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) - \right. \\
& \quad \left. \left. \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) / (3 (A0^2 e^2 - 4 A0 e E0 + \\
& \quad \left. 4 E0^2 - 4 c[0]) - \frac{c^{(4)}[0]}{3 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])} \right) \right) / \\
& \quad \left(2 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) \right) + \frac{c'[0] c^{(5)}[0]}{10 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2} + \\
& \quad \left(18 c'[0] \left(\left(\left(- (4 c'[0]^2) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2 - \right. \right. \right. \right. \\
& \quad \left. \left. \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) c^{(3)}[0] \right) \right) / \\
& \quad \left(6 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) \right) + \left(4 c''[0] \left(\left(3 c'[0] \right. \right. \right. \\
& \quad \left. \left. \left. - (4 c'[0]^2) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2 - (2 c''[0]) / \right. \right. \right. \\
& \quad \left. \left. \left. (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) \right) \right) \right) / (A0^2 e^2 - 4 A0 e E0 + \\
& \quad \left. 4 E0^2 - 4 c[0]) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) / (3 (A0^2 e^2 - \\
& \quad 4 A0 e E0 + 4 E0^2 - 4 c[0]) + \frac{c'[0] c^{(4)}[0]}{3 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2} + \\
& \quad \left(7 c'[0] \left(\left(c''[0] \left(- (4 c'[0]^2) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2 - \right. \right. \right. \right. \\
& \quad \left. \left. \left. (2 c''[0]) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) \right) \right) \right) / \\
& \quad \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) + \left(2 c'[0] c^{(3)}[0] \right) \right) / \\
& \quad \left(3 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2 \right) + \left(10 c'[0] \right. \\
& \quad \left. \left(\left(3 c'[0] \left(- (4 c'[0]^2) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2 - \right. \right. \right. \right.
\end{aligned}$$

$$\begin{aligned}
& \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \Big) \Big) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \Big) \Big) / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - c^{(4)}[0] / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Big) \Big) / \left(2 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \frac{c^{(5)}[0]}{12 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \Big) \Big) / \left(5 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \frac{c^{(6)}[0]}{60 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \Big) - \\
& \left(\left(\left(3 c'[0] \left(- \frac{4 c'[0]^2}{\left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} - \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) \\
& c^{(7)}[0] \Big) / \left(7560 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \left(11 c^{(3)}[0] \right. \\
& \left. \left(\left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) \\
& c^{(4)}[0] \Big) / \left(18 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(5 c^{(3)}[0] \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) + \frac{2 c'[0] c^{(3)}[0]}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \right. \\
& \left. \left(10 c'[0] \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \right) / \right.
\end{aligned}$$

$$\begin{aligned}
& \left(\left(\left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] \right) / \left(A0^2 e^2 - 4 A0 \right. \right. \\
& \quad \left. \left. e E0 + 4 E0^2 - 4 c[0] \right) \right) \Bigg) / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \\
& \quad \frac{c^{(4)}[0]}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \Bigg) / \left(12 \left(A0^2 e^2 - \right. \right. \\
& \quad \left. \left. 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \\
& \left(\left(- \frac{4 c'[0]^2}{\left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} - \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right. \\
& \quad \left. c^{(5)}[0] \right) \Bigg) / \left(120 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(8 c''[0] \left(\left(\left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \\
& \quad \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right. \\
& \quad \left. c^{(3)}[0] \right) / \left(6 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(4 c''[0] \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \\
& \quad \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \Bigg) / \\
& \quad \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] / \\
& \quad \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \Bigg) / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + \right. \right. \\
& \quad \left. \left. 4 E0^2 - 4 c[0] \right) \right) + \frac{c'[0] c^{(4)}[0]}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \\
& \left(7 c'[0] \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \\
& \quad \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \Bigg) / \\
& \quad \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) + \left(2 c'[0] c^{(3)}[0] \right) / \\
& \quad \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 \right) + \left(10 c'[0] \right. \\
& \quad \left. \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \\
& \quad \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \Bigg) / \\
& \quad \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] / \\
& \quad \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \Bigg) / \\
& \quad \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - c^{(4)}[0] / \\
& \quad \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Bigg) / \left(2 \left(A0^2 e^2 - 4 A0 e E0 + \right. \right. \\
& \quad \left. \left. 4 E0^2 - 4 c[0] \right) \right) - \frac{c^{(5)}[0]}{12 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \Bigg) \Bigg) /
\end{aligned}$$

$$\begin{aligned}
& \left(5 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \frac{c'[0] c^{(6)}[0]}{45 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \\
& \left(11 c'[0] \left(\left(c^{(3)}[0] \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \right. \right. \\
& \quad \left. \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) / \right. \\
& \quad \left. \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] / \left(A0^2 e^2 - 4 A0 \right. \right. \\
& \quad \left. \left. e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(3 c''[0] \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \right. \\
& \quad \left. \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) / \right. \\
& \quad \left. \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) + \left(2 c'[0] c^{(3)}[0] \right) / \right. \\
& \quad \left. \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 \right) + \left(10 c'[0] \right. \right. \\
& \quad \left. \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \\
& \quad \left. \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) / \right. \\
& \quad \left. \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] / \left(A0^2 e^2 - \right. \right. \\
& \quad \left. \left. 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - \right. \right. \\
& \quad \left. \left. 4 c[0] \right) \right) - c^{(4)}[0] / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \right) / \\
& \left(2 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \left(c'[0] c^{(5)}[0] \right) / \\
& \left(10 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 \right) + \\
& \left(18 c'[0] \left(\left(\left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \right. \\
& \quad \left. \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) c^{(3)}[0] \right) / \\
& \left(6 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \left(4 c''[0] \right. \\
& \quad \left. \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \\
& \quad \left. \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \right) / \\
& \quad \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] / \\
& \quad \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) / \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \left(c'[0] c^{(4)}[0] \right) / \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 \right) + \\
& \left(7 c'[0] \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \right. \\
& \quad \left. \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \right) / \\
& \quad \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) + \left(2 c'[0] c^{(3)}[0] \right) / \\
& \quad \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 \right) + \left(10 c'[0] \left(\left(3 c'[0] \right. \right. \right. \\
& \quad \left. \left. - \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right.
\end{aligned}$$

[illegible]

$$\begin{aligned}
& \left(\left(\left(4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) / \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \\
& \frac{c^{(4)}[0]}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \Bigg) / \left(12 \left(A0^2 \right. \right. \\
& \left. \left. e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(\left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \\
& \left. \left. \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) \right) / \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \Bigg) \\
& c^{(5)}[0] \Bigg) / \left(180 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(7 c^{(3)}[0] \left(\left(\left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \right. \\
& \left. \left. \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) c^{(3)}[0] \right) \right) / \\
& \left(6 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \left(4 c''[0] \left(\left(3 c'[0] \right. \right. \right. \\
& \left. \left. \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \left(2 c''[0] \right) / \right. \right. \right. \\
& \left. \left. \left. \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \right) / \left(A0^2 e^2 - 4 A0 e E0 + \right. \\
& \left. 4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \Bigg) / \left(3 \left(A0^2 e^2 - \right. \right. \\
& \left. \left. 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \frac{c'[0] c^{(4)}[0]}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \\
& \left(7 c'[0] \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \right) / \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) + \left(2 c'[0] c^{(3)}[0] \right) / \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 \right) + \left(10 c'[0] \right. \\
& \left. \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \right) / \left(A0^2 \right. \\
& \left. e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] / \left(A0^2 e^2 - 4 A0 e E0 + \right. \\
& \left. 4 E0^2 - 4 c[0] \right) \Bigg) / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) -
\end{aligned}$$

$$\begin{aligned}
& \left(\frac{c^{(4)}[0]}{\left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)} \right) \Bigg/ \left(2 \right. \\
& \left. \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - \right. \\
& \left. \frac{c^{(5)}[0]}{12 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \right) \Bigg/ \left(15 \left(A0^2 e^2 - 4 \right. \right. \\
& \left. \left. A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \\
& \left(\left(- \frac{4 c'[0]^2}{\left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} - \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right. \\
& \left. c^{(6)}[0] \right) \Bigg/ \left(360 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(5 c''[0] \left(\left(c^{(3)}[0] \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \right. \right. \\
& \left. \left. \left(2 c''[0] \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \Bigg/ \left(A0^2 e^2 - \right. \\
& \left. 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \Bigg/ \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \left(3 c''[0] \right. \\
& \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \\
& \left. \left. \left(2 c''[0] \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \Bigg/ \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) + \left(2 c'[0] c^{(3)}[0] \right) \Bigg/ \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 \right) + \left(10 c'[0] \right. \\
& \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \\
& \left. \left. \left(2 c''[0] \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \Bigg/ \left(A0^2 \right. \\
& \left. e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + \right. \\
& \left. 4 E0^2 - 4 c[0] \right) \Bigg) \Bigg/ \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \\
& c^{(4)}[0] \Bigg/ \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Bigg) \Bigg/ \left(2 \left(A0^2 e^2 - \right. \right. \\
& \left. \left. 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \frac{c'[0] c^{(5)}[0]}{10 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \\
& \left(18 c'[0] \left(\left(\left(- \left(4 c'[0]^2 \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \\
& \left. \left. \left(2 c''[0] \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) c^{(3)}[0] \Bigg) \Bigg/ \\
& \left(6 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \left(4 c''[0] \right. \\
& \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \\
& \left. \left. \left(2 c''[0] \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \Bigg/ \left(A0^2 \right. \\
& \left. e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + \right.
\end{aligned}$$

[illegible]

$$\begin{aligned}
& \left. \left(\left(\left(4 E0^2 - 4 c[0] \right) \right) \right) \right) \Bigg/ \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \\
& c^{(4)}[0] \Bigg/ \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Bigg) \Bigg/ \\
& \left(12 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \left(\left(- \left(4 c'[0]^2 \right) \Bigg/ \left(A0^2 e^2 - \right. \right. \right. \\
& \left. \left. \left. 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \\
& c^{(5)}[0] \Bigg) \Bigg/ \left(120 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(8 c''[0] \left(\left(- \left(4 c'[0]^2 \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \\
& \left. \left(2 c''[0] \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) c^{(3)}[0] \Bigg) \Bigg/ \\
& \left(6 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \left(4 c''[0] \right. \\
& \left. \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \\
& \left. \left. \left. \left(2 c''[0] \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \right) \Bigg/ \left(A0^2 \right. \\
& \left. e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + \right. \\
& \left. 4 E0^2 - 4 c[0] \right) \Bigg) \Bigg/ \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(c'[0] c^{(4)}[0] \right) \Bigg/ \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 \right) + \\
& \left(7 c'[0] \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \\
& \left. \left. \left. \left(2 c''[0] \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \right) \Bigg/ \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) + \left(2 c'[0] c^{(3)}[0] \right) \Bigg/ \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 \right) + \left(10 c'[0] \right. \\
& \left. \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \\
& \left. \left. \left. \left(2 c''[0] \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \right) \Bigg/ \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] \Bigg/ \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \Bigg) \Bigg/ \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - c^{(4)}[0] \Bigg/ \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Bigg) \Bigg/ \\
& \left(2 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - c^{(5)}[0] \Bigg/ \\
& \left(12 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Bigg) \Bigg/ \left(5 \left(A0^2 e^2 - 4 A0 e E0 + \right. \right. \\
& \left. \left. 4 E0^2 - 4 c[0] \right) \right) + \frac{c'[0] c^{(6)}[0]}{45 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \left(11 c'[0] \right. \\
& \left. \left(c^{(3)}[0] \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \right. \\
& \left. \left. \left. \left(2 c''[0] \right) \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \right) \Bigg/ \left(A0^2 \right. \\
& \left. e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] \Bigg/ \left(A0^2 e^2 - 4 A0 e E0 + \right.
\end{aligned}$$

$$\begin{aligned}
& \left(2 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - c^{(5)}[0] / \\
& \left(12 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Bigg) / \\
& \left(5 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - c^{(6)}[0] / \\
& \left(60 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Bigg) / \left(3 \left(A0^2 \right. \right. \\
& \left. \left. e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \\
& \frac{c^{(7)}[0]}{360 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \Bigg) / \left(7 \left(A0^2 e^2 - 4 A0 e \right. \right. \\
& \left. \left. E0 + 4 E0^2 - 4 c[0] \right) \right) - \frac{c^{(8)}[0]}{2520 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \Bigg) + \\
& \frac{c'[0] c^{(9)}[0]}{12960 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \\
& \frac{1}{9 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \\
& 34 \\
& c' [\\
& 0] \\
& \left(\left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \\
& \left. \left. \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) / \left(A0^2 e^2 - 4 A0 e E0 + \right. \right. \\
& \left. \left. 4 E0^2 - 4 c[0] \right) + \frac{2 c'[0] c^{(3)}[0]}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \right. \\
& \left. \left(10 c'[0] \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \right. \right. \\
& \left. \left. \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) / \left(A0^2 e^2 - \right. \right. \\
& \left. \left. 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \Bigg) / \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \\
& \frac{c^{(4)}[0]}{3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \Bigg) c^{(5)}[0] \Bigg) / \\
& \left(80 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(c^{(4)}[0] \left(\left(\left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \right. \right. \\
& \left. \left. \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right) c^{(3)}[0] \right) \Bigg) /
\end{aligned}$$

$$\begin{aligned} & \left(6 \left(A^0 e^2 - 4 A^0 e E^0 + 4 E^0 e^2 - 4 c[0] \right) \right) + \left(4 c''[0] \left(\left(3 c'[0] \right. \right. \right. \\ & \left. \left. \left(- \left(4 c'[0]^2 \right) \right) / \left(A^0 e^2 - 4 A^0 e E^0 + 4 E^0 e^2 - 4 c[0] \right)^2 - \left(2 c''[0] \right) / \right. \right. \\ & \left. \left. \left(A^0 e^2 - 4 A^0 e E^0 + 4 E^0 e^2 - 4 c[0] \right) \right) \right) / \left(A^0 e^2 - 4 A^0 e E^0 + \right. \\ & \left. 4 E^0 e^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A^0 e^2 - 4 A^0 e E^0 + 4 E^0 e^2 - 4 c[0]} \left. \right) \Bigg) / \left(3 \left(A^0 e^2 - \right. \right. \\ & \left. \left. 4 A^0 e E^0 + 4 E^0 e^2 - 4 c[0] \right) \right) + \frac{c'[0] c^{(4)}[0]}{3 \left(A^0 e^2 - 4 A^0 e E^0 + 4 E^0 e^2 - 4 c[0] \right)^2} + \\ & \left(7 c'[0] \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) \right) / \left(A^0 e^2 - 4 A^0 e E^0 + 4 E^0 e^2 - 4 c[0] \right)^2 - \right. \right. \right. \\ & \left. \left. \left(2 c''[0] \right) / \left(A^0 e^2 - 4 A^0 e E^0 + 4 E^0 e^2 - 4 c[0] \right) \right) \right) \right) / \\ & \left(A^0 e^2 - 4 A^0 e E^0 + 4 E^0 e^2 - 4 c[0] \right) + \left(2 c'[0] c^{(3)}[0] \right) \Bigg) / \\ & \left(3 \left(A^0 e^2 - 4 A^0 e E^0 + 4 E^0 e^2 - 4 c[0] \right)^2 \right) + \left(10 c'[0] \right. \\ & \left. \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) \right) / \left(A^0 e^2 - 4 A^0 e E^0 + 4 E^0 e^2 - 4 c[0] \right)^2 - \right. \right. \right. \\ & \left. \left. \left(2 c''[0] \right) / \left(A^0 e^2 - 4 A^0 e E^0 + 4 E^0 e^2 - 4 c[0] \right) \right) \right) \right) / \left(A^0 e^2 - \right. \\ & \left. e^2 - 4 A^0 e E^0 + 4 E^0 e^2 - 4 c[0] \right) - c^{(3)}[0] / \left(A^0 e^2 - 4 A^0 e E^0 + \right. \\ & \left. 4 E^0 e^2 - 4 c[0] \right) \Bigg) / \left(3 \left(A^0 e^2 - 4 A^0 e E^0 + 4 E^0 e^2 - 4 c[0] \right) \right) - \\ & c^{(4)}[0] / \left(3 \left(A^0 e^2 - 4 A^0 e E^0 + 4 E^0 e^2 - 4 c[0] \right) \right) \Bigg) / \left(2 \right. \\ & \left. \left(A^0 e^2 - 4 A^0 e E^0 + 4 E^0 e^2 - 4 c[0] \right) \right) - \\ & \frac{c^{(5)}[0]}{12 \left(A^0 e^2 - 4 A^0 e E^0 + 4 E^0 e^2 - 4 c[0] \right)} \Bigg) \Bigg) / \left(10 \left(A^0 e^2 - 4 \right. \right. \\ & \left. \left. A^0 e E^0 + 4 E^0 e^2 - 4 c[0] \right) \right) + \\ & \left(c^{(3)}[0] \left(\left(c^{(3)}[0] \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) \right) / \left(A^0 e^2 - 4 A^0 e E^0 + 4 E^0 e^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \right. \right. \\ & \left. \left. \left(2 c''[0] \right) / \left(A^0 e^2 - 4 A^0 e E^0 + 4 E^0 e^2 - 4 c[0] \right) \right) \right) \right) \right) / \left(A^0 e^2 - \right. \\ & \left. 4 A^0 e E^0 + 4 E^0 e^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A^0 e^2 - 4 A^0 e E^0 + 4 E^0 e^2 - 4 c[0]} \Bigg) \Bigg) / \\ & \left(3 \left(A^0 e^2 - 4 A^0 e E^0 + 4 E^0 e^2 - 4 c[0] \right) \right) + \left(3 c''[0] \right. \\ & \left. \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) \right) / \left(A^0 e^2 - 4 A^0 e E^0 + 4 E^0 e^2 - 4 c[0] \right)^2 - \right. \right. \right. \\ & \left. \left. \left(2 c''[0] \right) / \left(A^0 e^2 - 4 A^0 e E^0 + 4 E^0 e^2 - 4 c[0] \right) \right) \right) \right) / \\ & \left(A^0 e^2 - 4 A^0 e E^0 + 4 E^0 e^2 - 4 c[0] \right) + \left(2 c'[0] c^{(3)}[0] \right) \Bigg) / \\ & \left(3 \left(A^0 e^2 - 4 A^0 e E^0 + 4 E^0 e^2 - 4 c[0] \right)^2 \right) + \left(10 c'[0] \right. \\ & \left. \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) \right) / \left(A^0 e^2 - 4 A^0 e E^0 + 4 E^0 e^2 - 4 c[0] \right)^2 - \right. \right. \right. \right. \end{aligned}$$

$$\begin{aligned}
& \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \Big) \Big) / \left(A0^2 \right. \\
& \left. e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] / \left(A0^2 e^2 - 4 A0 e E0 + \right. \\
& \left. 4 E0^2 - 4 c[0] \right) \Big) \Big) / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \\
& c^{(4)}[0] / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Big) \Big) / \left(2 \left(A0^2 e^2 - \right. \right. \\
& \left. \left. 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \frac{c'[0] c^{(5)}[0]}{10 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} + \\
& \left(18 c'[0] \left(\left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \\
& \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) c^{(3)}[0] \Big) / \\
& \left(6 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \left(4 c''[0] \right. \\
& \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \\
& \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Big) \Big) / \left(A0^2 \right. \\
& \left. e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] / \left(A0^2 e^2 - 4 A0 e E0 + \right. \\
& \left. 4 E0^2 - 4 c[0] \right) \Big) \Big) / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(c'[0] c^{(4)}[0] \right) / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 + \\
& \left(7 c'[0] \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \\
& \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Big) \Big) / \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) + \left(2 c'[0] c^{(3)}[0] \right) / \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 + \left(10 c'[0] \right. \\
& \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \\
& \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Big) \Big) / \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] / \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \Big) \Big) / \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - c^{(4)}[0] / \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Big) \Big) / \\
& \left(2 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - c^{(5)}[0] / \\
& \left(12 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Big) \Big) \Big) / \left(5 \left(A0^2 \right. \right. \\
& \left. \left. e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \\
& \frac{c^{(6)}[0]}{60 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \Big) \Big) \Big) / \left(2 \left(A0^2 e^2 - 4 \right. \right. \\
& \left. \left. A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \\
& \left(\left(- \frac{4 c'[0]^2}{\left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2} - \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \right)
\end{aligned}$$

$$\begin{aligned}
& \left. c^{(7)}[0] \right) / \\
& (1680 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])) + \\
& \left(12 c''[0] \left(\left(\left(3 c'[0] (- (4 c'[0]^2) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2 - \right. \right. \right. \right. \\
& \quad \left. \left. \left. (2 c''[0]) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) \right) \right) / (A0^2 e^2 - \right. \\
& \quad \left. 4 A0 e E0 + 4 E0^2 - 4 c[0]) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) \\
& \quad \left. c^{(4)}[0] \right) / (18 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])) + \\
& (5 c^{(3)}[0] \left((c''[0] (- (4 c'[0]^2) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2 - \right. \\
& \quad \left. (2 c''[0]) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) \right) \right) / \\
& \quad (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) + (2 c'[0] c^{(3)}[0]) / \\
& \quad (3 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2) + (10 c'[0] \\
& \quad \left((3 c'[0] (- (4 c'[0]^2) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2 - \right. \\
& \quad \left. (2 c''[0]) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) \right) \right) / (A0^2 \\
& \quad e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) - c^{(3)}[0] / (A0^2 e^2 - 4 A0 e E0 + \\
& \quad 4 E0^2 - 4 c[0]) \right) \right) / (3 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])) - \\
& \quad c^{(4)}[0] / (3 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])) \right) / \\
& (12 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])) - \\
& \left(\left(- (4 c'[0]^2) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2 - \right. \right. \\
& \quad \left. \left. \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) c^{(5)}[0] \right) / \\
& (120 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])) + (8 c''[0] \\
& \quad \left(\left(- (4 c'[0]^2) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2 - \right. \right. \\
& \quad \left. \left. (2 c''[0]) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) \right) \right) c^{(3)}[0] \right) / \\
& (6 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])) + (4 c''[0] \\
& \quad \left((3 c'[0] (- (4 c'[0]^2) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2 - \right. \\
& \quad \left. (2 c''[0]) / (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) \right) \right) / (A0^2 \\
& \quad e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]) - c^{(3)}[0] / (A0^2 e^2 - 4 A0 e E0 + \\
& \quad 4 E0^2 - 4 c[0]) \right) \right) / (3 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])) + \\
& \quad (c'[0] c^{(4)}[0]) / (3 (A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0])^2) +
\end{aligned}$$

[illegible]

$$\begin{aligned} & \left((2 c''[0]) / (A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0]) \right) c^{(3)}[0] \Bigg) / \\ & \left(6 (A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0]) \right) + \left(4 c''[0] \right. \\ & \left. \left(\left(3 c'[0] \left(- (4 c'[0]^2) / (A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0]) \right)^2 - \right. \right. \right. \\ & \left. \left. \left(2 c''[0] \right) / (A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0]) \right) \right) \right) / \\ & \left(A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0] \right) - c^{(3)}[0] / \\ & \left(A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0] \right) \Bigg) / \\ & \left(3 (A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0]) \right) + \left(c'[0] c^{(4)}[0] \right) / \\ & \left(3 (A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0])^2 \right) + \left(7 c'[0] \right. \\ & \left. \left(\left(c''[0] \left(- (4 c'[0]^2) / (A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0]) \right)^2 - \right. \right. \right. \\ & \left. \left. \left(2 c''[0] \right) / (A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0]) \right) \right) \right) / \\ & \left(A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0] \right) + \left(2 c'[0] c^{(3)}[0] \right) / \\ & \left(3 (A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0])^2 \right) + \left(10 c'[0] \right. \\ & \left. \left(\left(3 c'[0] \left(- (4 c'[0]^2) / (A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0]) \right)^2 - \right. \right. \right. \\ & \left. \left. \left(2 c''[0] \right) / (A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0]) \right) \right) \right) / \\ & \left(A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0] \right) - \\ & c^{(3)}[0] / \left(A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0] \right) \Bigg) / \\ & \left(3 (A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0]) \right) - \\ & c^{(4)}[0] / \left(3 (A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0]) \right) \Bigg) / \\ & \left(2 (A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0]) \right) - c^{(5)}[0] / \\ & \left(12 (A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0]) \right) \Bigg) / \\ & \left(5 (A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0]) \right) - c^{(6)}[0] / \\ & \left(60 (A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0]) \right) \Bigg) / \left(3 (A^2 e^2 - 4 A e E + \right. \\ & \left. 4 E^2 - 4 c[0]) \right) - \frac{c^{(7)}[0]}{360 (A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0])} \Bigg) \Bigg) / (7 \\ & (A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0]) + \frac{c'[0] c^{(8)}[0]}{1680 (A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0])^2} + \\ & \left(15 c'[0] \left(\left(c^{(4)}[0] \left(\left(c''[0] \left(- (4 c'[0]^2) / (A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0]) \right)^2 - \right. \right. \right. \right. \right. \right. \\ & \left. \left. \left(2 c''[0] \right) / (A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0]) \right) \right) \right) \right) / \\ & \left(A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0] \right) + \left(2 c'[0] c^{(3)}[0] \right) / \\ & \left(3 (A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0])^2 \right) + \left(10 c'[0] \right. \\ & \left. \left(\left(3 c'[0] \left(- (4 c'[0]^2) / (A^2 e^2 - 4 A e E + 4 E^2 - 4 c[0]) \right)^2 - \right. \right. \right. \end{aligned}$$

$$\begin{aligned}
& \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \Big) \Big) / \left(A0^2 \right. \\
& \left. e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] / \left(A0^2 e^2 - 4 A0 e E0 + \right. \\
& \left. 4 E0^2 - 4 c[0] \right) \Big) \Big) / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \\
& c^{(4)}[0] / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Big) \Big) / \\
& \left(12 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \\
& \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Big) \Big) / \left(A0^2 e^2 - \right. \\
& \left. 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - \frac{c^{(3)}[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \Big) \\
& c^{(5)}[0] \Big) \Big) / \left(180 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(7 c^{(3)}[0] \left(\left(\left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \\
& \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) c^{(3)}[0] \Big) \Big) / \\
& \left(6 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \left(4 c''[0] \right. \\
& \left. \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \\
& \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \Big) \Big) / \left(A0^2 \right. \\
& \left. e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] / \left(A0^2 e^2 - 4 A0 e E0 + \right. \\
& \left. 4 E0^2 - 4 c[0] \right) \Big) \Big) / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \\
& \left(c'[0] c^{(4)}[0] \right) / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 + \\
& \left(7 c'[0] \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \\
& \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \Big) \Big) / \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) + \left(2 c'[0] c^{(3)}[0] \right) / \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 + \left(10 c'[0] \right. \\
& \left. \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \\
& \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \Big) \Big) / \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] / \\
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \Big) \Big) / \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - c^{(4)}[0] / \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Big) \Big) \Big) / \\
& \left(2 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - c^{(5)}[0] / \\
& \left(12 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Big) \Big) \Big) / \\
& \left(15 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \left(\left(- \left(4 c'[0]^2 \right) / \right. \right.
\end{aligned}$$

$$\begin{aligned} & \left(\frac{\left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 - \frac{2 c''[0]}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]}}{A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0]} \right) c^{(6)}[0] \Bigg) / \\ (360 & \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) + \left(5 c''[0] \right. \\ & \left(\left(c^{(3)}[0] \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \\ & \left. \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \right) / \\ & \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] / \\ & \left. \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Bigg) / \\ & \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \left(3 c''[0] \right. \\ & \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \\ & \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \Bigg) / \\ & \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) + \left(2 c'[0] c^{(3)}[0] \right) \Bigg) / \\ & \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 \right) + \left(10 c'[0] \right. \\ & \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \\ & \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \Bigg) / \\ & \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] / \\ & \left. \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Bigg) / \\ & \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - c^{(4)}[0] / \\ & \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Bigg) \Bigg) / \\ & \left(2 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \left(c'[0] c^{(5)}[0] \right) \Bigg) / \\ & \left(10 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 \right) + \\ & \left(18 c'[0] \left(\left(\left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \\ & \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) c^{(3)}[0] \right) \Bigg) / \\ & \left(6 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \left(4 c''[0] \right. \\ & \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \\ & \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \Bigg) / \\ & \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] / \\ & \left. \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Bigg) / \\ & \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \left(c'[0] c^{(4)}[0] \right) \Bigg) / \\ & \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 \right) + \left(7 c'[0] \right. \\ & \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \\ & \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) \Bigg) / \end{aligned}$$

$$\begin{aligned}
& \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) + \left(2 c'[0] c^{(3)}[0] \right) / \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 \right) + \left(10 c'[0] \right. \\
& \left. \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \\
& \left. \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - \\
& \left. c^{(3)}[0] / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) / \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \\
& c^{(4)}[0] / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) / \\
& \left(2 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - c^{(5)}[0] / \\
& \left(12 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) / \\
& \left(5 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - c^{(6)}[0] / \\
& \left(60 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) / \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \left(c'[0] c^{(7)}[0] \right) / \\
& \left(252 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 \right) + \\
& \left(26 c'[0] \left(\left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \right. \\
& \left. \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) / \right. \\
& \left. \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] / \right. \\
& \left. \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) c^{(4)}[0] \right) / \\
& \left(18 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) + \left(5 c^{(3)}[0] \right. \\
& \left. \left(\left(c''[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \\
& \left. \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) / \right. \\
& \left. \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) + \left(2 c'[0] c^{(3)}[0] \right) / \right. \\
& \left. \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)^2 \right) + \left(10 c'[0] \right. \right. \\
& \left. \left. \left(\left(3 c'[0] \left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \right. \right. \right. \\
& \left. \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \right) / \right. \\
& \left. \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) - c^{(3)}[0] / \right. \\
& \left. \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) / \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - c^{(4)}[0] / \\
& \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) / \\
& \left(12 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \\
& \left(\left(- \left(4 c'[0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right)^2 - \right. \\
& \left. \left(2 c''[0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \\
& c^{(5)}[0] \right) / \left(120 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) +
\end{aligned}$$

[illegible]

$$\begin{aligned}
& \left(\left(3 c' [0] \left(- \left(4 c' [0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right)^2 - \left(2 c'' [0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) - \right. \\
& \quad \left. c^{(3)} [0] / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) - \\
& \quad c^{(4)} [0] / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) \right) / \left(2 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) + \left(c' [0] c^{(5)} [0] \right) / \\
& \quad \left(10 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right)^2 \right) + \\
& \quad \left(18 c' [0] \left(\left(- \left(4 c' [0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right)^2 - \right. \right. \right. \\
& \quad \left. \left. \left(2 c'' [0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) \right) / \left(6 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) + \\
& \quad \left(4 c'' [0] \left(\left(3 c' [0] \left(- \left(4 c' [0]^2 \right) / \left(A0^2 e^2 - \right. \right. \right. \right. \right. \\
& \quad \left. \left. \left. 4 A0 e E0 + 4 E0^2 - 4 c [0] \right)^2 - \left(2 c'' [0] \right) / \right. \right. \right. \\
& \quad \left. \left. \left. \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) \right) \right) / \right. \\
& \quad \left. \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) - \right. \\
& \quad \left. c^{(3)} [0] / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) \right) / \\
& \quad \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) + \left(c' [0] c^{(4)} [0] \right) / \\
& \quad \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right)^2 \right) + \left(7 c' [0] \right. \\
& \quad \left(\left(c'' [0] \left(- \left(4 c' [0]^2 \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right)^2 - \right. \right. \right. \\
& \quad \left. \left. \left(2 c'' [0] \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) \right) / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) + \\
& \quad \left(2 c' [0] c^{(3)} [0] \right) / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - \right. \right. \\
& \quad \left. \left. 4 c [0] \right)^2 \right) + \left(10 c' [0] \left(\left(3 c' [0] \left(- \left(4 c' [0]^2 \right) / \right. \right. \right. \right. \right. \\
& \quad \left. \left. \left. \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right)^2 - \left(2 c'' [0] \right) / \right. \right. \right. \\
& \quad \left. \left. \left. \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) \right) \right) / \right. \\
& \quad \left. \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) - c^{(3)} [0] / \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) \right) / \\
& \quad \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) - c^{(4)} [0] / \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) \right) \right) / \\
& \quad \left(2 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) - \\
& \quad c^{(5)} [0] / \left(12 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) \right) \right) / \\
& \quad \left(5 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) - c^{(6)} [0] / \\
& \quad \left(60 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c [0] \right) \right) \right) \right) /
\end{aligned}$$

$$\begin{aligned}
 & \left(3 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - c^{(7)}[0] / \\
 & \left(360 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Bigg) / \\
 & \left(7 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - c^{(8)}[0] / \\
 & \left(2520 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) \Bigg) \Bigg) / \\
 & \left(4 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right) \right) - \\
 & \frac{c^{(9)}[0]}{20160 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \Bigg) - \\
 & \frac{c^{(10)}[0]}{181440 \left(A0^2 e^2 - 4 A0 e E0 + 4 E0^2 - 4 c[0] \right)} \Bigg) \Bigg) b^{10} + O[\\
 & b]^{11}
 \end{aligned}$$