

$$> eq := \ddot{x}(t) = \text{piecewise}\left(x(t) < 36, 1.5, 36 \leq x(t), 1.5 + 2 \cdot (\sqrt{x(t)} - 6)^{\frac{5}{3}}\right)$$

$$eq := \frac{d^2}{dt^2} x(t) = \begin{cases} 1.5 & x(t) < 36 \\ 1.5 + 2 (\sqrt{x(t)} - 6)^{5/3} & 36 \leq x(t) \end{cases}$$

ODE Analyzer Assistant
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Differential Equations

$$\frac{d^2}{dt^2} x(t) = \begin{cases} 1.5 & x(t) < 36 \\ 1.5 + 2 (\sqrt{x(t)} - 6)^{5/3} & 36 \leq x(t) \end{cases}$$

Edit...

Conditions

$$\begin{aligned} x(0) &= 0 \\ x'(0) &= 0 \end{aligned}$$

Edit...

Parameters

Edit...

Solve Numerically

Solve Symbolically

Classify

Help

Quit

Runge-Kutta-Fehlberg 4-5th order

