

# Solving a Higher Order ODE Using Heun's Method : Example



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Given the ODE

$$2 \frac{d^2 y}{dx^2} + 3 \frac{dy}{dx} + 5y = 11e^{-x}, y(0) = 7, y'(0) = 13,$$

find the value of  $y(0.5)$  using Heun's Method. Use a step size of 0.25.























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