

# The Finite Difference Method: Example

Solve the following 2nd order ODE for initial conditions of  $y(0) = 5$  and  $y(10) = -1.5$ , Use  $\Delta x = 2$

$$8 \frac{d^2 y}{dx^2} - 2 \frac{dy}{dx} - y + x = 0$$

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- Using the divided differences equations:

$$\frac{dy}{dx} = \frac{y_{i+1} - y_{i-1}}{2 \cdot \Delta x}$$

$$\frac{d^2 y}{dx^2} = \frac{y_{i+1} - 2y_i + y_{i-1}}{\Delta x^2}$$

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**L Darling-Hammond**



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