

Experiment-3

Using Matlab code solve the following Differential equations

1. $\frac{d^2 y}{dx^2} - 4 \frac{dy}{dx} + 4y = \sin 2x, \quad y(0) = \frac{1}{8}, \quad y'(0) = 4.$
2. $\frac{d^2 y}{dx^2} + \frac{dy}{dx} - 6y = x, \quad y(0) = 0, \quad y'(0) = 1.$