

Part I Problems

Problem 1:

Find the solution satisfying the initial conditions:

$$y'' - y = x^2, \quad y(0) = 0, \quad y'(0) = -1$$

Problem 2: Find a particular solution to the DE

$$y'' - y' - 2y = 3x + 4$$

Problem 3: Find a particular solution to the DE

$$y^{(3)} + 4y' = 3x - 1$$

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18.03SC Differential Equations
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