

HOMEWORK 12-PART B

1. Solve the following initial value problem $y'' - 25y = e^{5t}$, $y(0) = 0$, $y'(0) = 1$.

2. Solve the following initial value problem $y'' + 3y' + 2y = t^2 + \cos 3t$, $y(0) = 0$, $y'(0) = 1$.

3. Find a particular solution for $y^{(3)} + 3y^{(1)} + 2y = e^{2t} + \cos t$.