

MA3180 (Financial Mathematics I) Assignment 8

Solve the following second-order linear equations

1. $y'' - y' - 6y = \cos 3x$.

2. $y'' + 36y = 2x^2 - x$.

3. $2y'' + 3y' + y = 1 + \cos 2x$.

4. $y'' - 3y' + 2y = 2x$, $y(0) = 1$, $y'(0) = 0$.

5. $y'' + y = \cot x$, $0 < x < \pi/2$.