

NAME:

Home Work 9.
MAP 2302 - Differential Equations

Solve the following ODE using the method of UNDETERMINED COEFFICIENTS:

1. $y'' - 3y' + 2y = x^2e^x$

2. $4y''' - 4y'' - 5y' + 3y = 3x^3 - 8x$

3. $y'' - y = 3x^2e^x$; $y(0) = 1$, $y'(0) = 2$

4. $y''' - y' = e^x$

5. $y'' - 3y' + 2y = x^2e^x$

6. $y'''' - 2y'' + y = e^x$

7. $y'' - 2y' - 3y = 2e^x - 10 \sin x$