

NAME:

Home Work 12.
MAP 2302 - Differential Equations

Solve the following ODE:

1. $x^2y'' - 2xy' + 2y = x^3; x > 0$

2. $x^3y''' - 4x^2y'' + 8xy' - 8y = 4 \ln x; x > 0$

3. $x^3y''' - x^2y'' - 2xy' - 4y = 0; x > 0$

4. $2x^2y'' - 3xy' - 3y = 0; x \neq 0$