

MTH 3311 Test #3

SPRING 2021

Pat Rossi

Name _____

Show **CLEARLY** how you arrive at your answers.

1. Solve the Differential Equation: $y'' - 2y' - 8y = -40 \cos(x) - 10 \sin(x)$

2. Solve the Differential Equation: $x^2y'' - 4xy' + 4y = 3x^2 + 4$

3. Solve the Differential Equation: $y'' - 3y' + 2y = xe^{2x}$