

# MTH 3311 Test #3

SPRING 2022

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Name \_\_\_\_\_

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

1. Solve the Differential Equation:  $y'' - 3y' - 10y = 14e^{-2x}$

2. Solve the Differential Equation:  $5y'' - 8y' + 5y = 15x^2 - 28x - 27$

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