

MTH 3311 Test #3

SPRING 2018

Pat Rossi

Name _____

Show CLEARLY how you arrive at your answers

1. Find the general solution of the equation: $y'' - 4y' + 4y = 12x^2 - 34$

2. Find the general solution of the equation: $x^2y'' + 2xy' - 6y = 24x^3$

3. Find the general solution of the equation: $y'' + y = \csc(x)$