MTH 3311 - Practice Test #3

 $\mathrm{FALL}\ 2018$

Pat Rossi

Name _

Show CLEARLY how you arrive at you answers!

- 1. Find the general solution to the equation $x^2y'' + 5xy' + 4y = 5x^4 + 3x^{\frac{1}{2}}$
- 2. Find the general solution to the equation $x^2y'' + 5xy' + 4y = 5x^{-2}$
- 3. Find the general solution to the equation $x^{2}y'' + 5xy' + 3y = \ln(x)$