## MTH 3311 - Practice Test \#3

Fall 2018
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Name $\qquad$

## Show CLEARLY how you arrive at you answers!

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