

## Daily ODE - 02/15/2022

Given that  $y_1(x) = x$  is a solution to  $x^2 y'' - 3x y' + 3y = 0$  on  $x \in (0, \infty)$ , use reduction of order to find a second solution  $y_2(x)$ , that is linearly independent from  $y_1(x)$ . Write the general solution to the ODE.