Section 2.2  2.4
Problem (A)
Solve the differential equation

\[ y' = \left(\frac{y}{x}\right)^n + 2\left(\frac{y}{x}\right) \]

where \( n \) is even and \( n \) is not 0. (Hint: Use the Homogeneous Equation trick and the Bernoulli Equation trick. The Homogeneous Trick is described in problem 2.2.30. The Bernoulli Trick is described in problem 2.4.27. I also described both in class.)