HOMEWORK #12 (Chapter 5 Series solutions of Linear Equations)

In problem 1 and 2, find the solution by using the Taylar series method and the recurrence relations method.

- 1. $y'' + x^2 y = 0$ (Exercises 5.1 Problem 14)
- 2. y'' 2xy' + 8y = 0, y(0) = 3, y'(0) = 0 (Exercises 5.1 Problem 27)