Exercise 1 (8 points)
Solve the differential equation: \( x^2 y'' + xy' + 9y = 0 \)

Exercise 2 (12 points)
Find the indicial roots and the relations between coefficients of a power solutions about the singular point of the differential equation \( 3xy'' + (2 - x)y' - y = 0 \)
Exercise 1 (12 points)
Find the indicial roots and the relations between coefficients of a power solutions about the singular point of the differential equation $xy'' + (1 - x)y' + y = 0$

Exercise 2 (8 points)
Solve the differential equation: $x^2y'' + 5xy' + 4y = 0$