Q1 Solve the Cauchy-Euler Equation \( x^2 y'' + xy' + 4y = 0 \)

Q2 Find radius and interval of convergence of \( \sum_{n=0}^{\infty} \frac{(-1)^n}{(n+1)16^n} (x - 2)^{2n} \)

Q3 Find one power series solution of \( \frac{d^2 y}{dx^2} + xy = 0 \). Give only three term of the solution.