Q.1: If \( y_1(x) = x + 1 \) is a solution of \( (1 - 2x - x^2)y'' + 2(1 + x)y' - 2y = 0 \), then find a second solution \( y_2(x) \).

Q.2: Solve the initial value problem \( y''' + 12y'' + 36y' = 0, \quad y(0) = 0, \quad y'(0) = 1, \quad y''(0) = -7. \)