NAME:_____ ID:_____ Section: _____

Exercise 1 (4 points)

Solve the differential equation $y'' - 4y = x + \sin x$

Exercise 2 (6 points)

Solve the differential equation $x^2 y'' - 2xy' + 2y = x^3 \sin x$

NAME:_____ ID:_____ Section: _____

Exercise 1 (4 points)

Solve the differential equation $y''-9y = x + \cos x$

Exercise 2 (6 points)

Solve the differential equation $x^2 y'' - 2xy' + 2y = x^3 \cos x$