NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)

Solve the differential equation $(3x^2 y - 3x^2)dx - dy = 0$ and find all singular solutions if any.

Exercise 2 (5 points)

Solve the differential equation $y' - \sin(x)y = -\sin x$
(**show all your steps**)

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Exercise 1 (5 points)

Solve the differential equation $(3xy^2 - 3y^2)dy - dx = 0$
and find all singular solutions if any.

Exercise 2 (5 points)

Solve the differential equation $y' + \cos(x)\,y = \cos x$ (**show all your steps**)