NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)

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

Exercise 2 (5 points)

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

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Exercise 1 (5 points)

Solve the differential equation $(y^2 x - 4x)dx - dy = 0$ and find all singular solutions.

Exercise 2 (5 points)

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