

NAME: _____ ID: _____ Section: _____

Exercise 1 (5 points)

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

Exercise 2 (5 points)

Solve the differential equation $xy' - 2y = x^4 \cos(x)$ (show all your steps)

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Exercise 1 (5 points)

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

Exercise 2 (5 points)

Solve the differential equation $xy' - 2y = x^4e^x$ (show all your steps)