

Quiz 5

MATH 2280, ORDINARY DIFFERENTIAL EQUATIONS, SPRING 2024

NAME:

A#:

Problem 1. Exercise 8.28 (10 points) Use any of the methods for first order ODEs to find a general solution for the following ODE.

$$\ln|y| + \left[\frac{x}{y} + 3 \right] \frac{dy}{dx} = 0$$

Solution:

Problem 2. Exercise 8.40 (10 points) Use any of the methods for first order ODEs to find a general solution for the following ODE.

$$y^2 - y^2 \cos(x) + \frac{dy}{dx} = 0$$

Solution: