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:

Then

She solution can be found from day 1= Co

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:

$$\Rightarrow \frac{dy}{dx} = y^2 \cos(k) - y^2$$

$$-1 - \frac{1}{3} = Son(x) - x + C,$$