Practice Quiz 3	Матн 2280,	Ordinary	DIFFERENTIAL	EQUATIONS,	Spring
2024					

Name: A#:

Problem 1. Exercise 3.4b (10 points) Rewrite the following in derivative form, and then find all constant solutions. (In some cases, you may have to use the quadratic formula to find any constant solutions.)

$$\sin(x+y) - y \, \frac{dy}{dx} = 0$$

Solution:

Problem 2. Exercise 4.7e (10 points) Find the general solution of the following. Where possiible, write your answer as a an explicit solution.

$$\frac{dy}{dx} = \frac{y}{x}$$

Solution: