Practice Quiz 5 — Math 2280, Ordinary Differential Equations, Spring 2024

NAME: _____   A#: _____

Problem 1. Exercise 8.27 (10 points) Use any of the methods for first order ODEs to find a general solution for the following ODE.

$$1 - (x + 2\,y)\,\frac{dy}{dx} = 0$$

Solution:

Problem 2. **Exercise 8.39** (10 points) Use any of the methods for first order ODEs to find a general solution for the following ODE.

$$1 + y\ e^{xy} + x\ e^{xy} \frac{dy}{dx} = 0$$

Solution: