

Quiz 6

MATH 2280, ORDINARY DIFFERENTIAL EQUATIONS, SPRING 2024

NAME:

A#:

Problem 1. Exercise 13.1c (10 points) The following second-order differential equation does not contain y . Solve the differential equation using the substitution $v = y'$ as described in Section 3.1.

$$y'' = y'$$

Solution:

Problem 2. Exercise 13.4b (10 points) The following second-order equation is autonomous. Solve using the substitution as described in Section 3.2.

$$3y y'' = 2(y')^2$$

Solution: