Quiz 4

Name: A#:

Problem 1. Section 5.3b (10 points) Find the solution the following initial-value problem using the techniques from Chapter 5.

$$\frac{dy}{dx} - 3\,y = 6 \qquad y(0) = -2$$

Solution:

Problem 2. Section 6.1b (10 points) Use lienar substitutiosn as in Section 6.2 to find the solution of the following.

$$\frac{dy}{dx} = \frac{(3x - 2y)^2 + 1}{3x - 2y} + \frac{3}{2}$$

Solution: