

Math 202 (143)
Quiz 2 (2.4-3.1)

Name:

ID #:

Section #: 02

1. Reduce the following equation to a linear equation:

$$x^2 \frac{dy}{dx} + y = \frac{1}{y^2}.$$

2. Solve $(5x + 4y)dx + (4x - 8y^3)dy = 0$.
3. The population of a community is known to increase at a rate proportional to the number of people present at time t . If an initial population P_0 has doubled in 5 years, how long will it take to triple?