

Math 2250 Week 2 Quiz

Name, UID, and section number: _____

Write your answer in the space provided. Show work for full credit.

1. (3 points) Consider the differential equation for $y(x)$:

$$y' = 4y + 8.$$

Is this differential equation separable, linear, both separable and linear, or neither separable nor linear? Explain.

2. (7 points) Solve the initial value problem

$$y' = 4y + 8$$

$$y(0) = 5$$