

Math 1555 Spring 2018

Quiz 6

Name: \_\_\_\_\_

Section: \_\_\_\_\_

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i. [10pts] Solve the given differential equation using the following directions.

$$\frac{dy}{dt} = 2(2 - y)(1 + y), \quad y(0) = 3$$

(a) [5pts] Separate variables and solve the equation.

(b) [3pts] Use initial value condition to find the solution for initial value problem.

(c) [2pts] Solve for  $y$ .