

Mathematics 352

Quiz 6

March 15, 2013; 10 minutes

Name: _____

This quiz is *open-note*, but no books or calculators.

1. Find approximate values of the solution of the given initial value problem at $t = 0.1$ and $t = 0.2$ using Euler's method with step size $h = 0.1$.

$$y' = 3 + t - y, \quad y(0) = 1$$

2. Find the solution of the initial value problem.

$$6y'' - 5y' + y = 0, \quad y(0) = 4, y'(0) = 0$$