Math 103, Fall 2014

Quiz on Week 2 Material

Name: _____

Your final answers should be in the form $t = \ldots$ where $\ldots$ is an expression. You do not need to solve for an exact numeric value, and you do not need to simplify. You must show enough work to demonstrate that your answer is not a guess.

You discover that the population of a certain bacteria triples every three hours.

1. If you begin with 7 million bacteria, how many bacteria are there after 9 hours?

2. If you begin with 7 million bacteria, how many bacteria are there after 10 hours?

3. If you begin with 7 million bacteria, when will there be 10 million bacteria?