Math 103, Fall 2014
Week 2

Check Homework Problems

1. Check that your function gives $h(10.5) = 8$, $h(23) = 8$, and $h(4.25) = 0$.

2. (a) Compare to (c) below.

   (b) The numeric value is about 16.15 million bacteria.

   (c) The number of minutes after 11:00am should be your answer to (a).

   (d) The numeric value is about 16.38 minutes after 10:00 am.

   (e) This should be the same as the previous part. (Possibly you just explained why it was the same without doing the calculation again.)

3. The numeric value is about 15.514. (Warning: there's a common mistake which will get you 15.452; this answer is *incorrect*, and it means you are misusing the Pe^{rt} formula. Check out the solutions to the in-class work for Tuesday.)

4. The numeric value is about you should get about 0.023 radians. (If you got 1.55 radians, you were probably looking at the wrong angle.)

5. You should get an exact numeric value c. You should be able to check that $f(c) = c^2 + \ln c = 1$.