**Math 152 Written HW Set Exponential Growth and Decay**

**This homework set is due Wednesday, March 30th. Show work when possible. Answers magically appearing with no work receive no credit.**

1. A population of Radford, VA, had 14575 people in the year 2005. In the year 2010 the population was 16408. Assuming that the population has grown at a rate proportional to its size,

a. Find an expression for the number of people in the city *t* years after the year 2005.

b. Estimate the population of the city in 2015. In 2020?

c. Assuming the growth continues at the same rate, when will the town have 25000

people?

2. From Larson Textbook: p. 364 # 25, 34.