

Practice for 3.1 Exponential Functions

The following problems will help you practice the material you learned today. Once you are finished check your solutions. Once done, you can work on your WeBWork homework.

1. Sketch the graph:

$$f(x) = 2^{x-1}$$

$$f(x) = e^{-x} + 1$$

2. If you invest \$2000 at 3% compounded quarterly, how much will you have after ten years? What if you invest it in a continuously compounded account at the same interest rate?
3. The population of a small town is 3,000. If the annual growth rate is 2.3%, what will the population be in 15 years?