MAT 100 Precalculus

Homework 15

Basic Information

This assignment is due on Gradescope by **1:30 PM on Thursday, November 5**.

Make sure you understand MHC honor code and have carefully read and understood the additional information on the class syllabus. I am happy to discuss any questions or concerns you have!

A component of this class is helping you understand *why* the math you use works the way it does. To that end, make sure you show all your work as you will be graded on the *process* you use, not just your final answer. And if a question asks you to explain *why* something is true, be sure to answer that part of the question in complete sentences.

Homework will be graded for correctness, and I will point out where mistakes or errors are made. Each homework will be graded *Excellent*, *Satisfactory*, or *Unsatisfactory*. The course rubric explains more about the distinctions of these categories.

Turn-In Problems

3.4: 4, 6
3.7: 10, 14, 16, 42, 44 (don't use Desmos for any of these)

#8. Suppose the function $W(t) = 129e^{0.3t}$ gives the number of wolves in a national park t years after 2011.

a. How many wolves were there initially in 2011?
b. How many wolves were in the park in 2013?
c. How many wolves were in the park in 2016?

Additional Problems (to do on your own, not to turn in)

3.4: 3, 5
3.7: 9, 13, 15, 41, 43 (don't use Desmos for any of these)