



# Foothill High School

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AP Calculus BC Summer Assignment  
Mrs. Katie Montgomery  
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Welcome to AP Calculus BC! We've got a great year ahead of us. At times it will be fun, at times challenging, at times exciting, and at times irritating. You will learn a lot, and hopefully earn college credit while at it! (Up to 10 credits, depending on your future school.) I'm glad you've decided to take this journey through Calculus with me. See you in August!

Directions: Show all work involved for each problem. Be sure you carefully label the problem number for each problem you do; I should have no difficulty identifying and following your work. All graphs must be neatly drawn on graph paper, either cut and pasted on the assignment or attached to the end of the assignment. All problems must be finished by the beginning of the class period on the first day of school. This is an individual assignment. You may consult others if need be, but all work should be your own. You should consult your textbook, notes from previous classes, or the internet for assistance. This assignment will be assessed for completeness and correctness. It will be included in first semester grades. The exam for Chapter 1 will be on Thursday, August 16<sup>th</sup>.

You will need a graphing calculator for the course. I highly recommend the TI-84 Plus.

Please pick up your copy of "James Stewart – Single Variable Calculus **with Vectors**" from the library before you leave for summer break. Please specify "**with Vectors**" when picking one up.

Read "A Preview of Calculus," carefully noting the main ideas as you go. (Pg. 3-9)

Section 1.1: Pg. 22-#2,17,21,24,33,34,39,47-54,60-62

Section 1.2: Pg. 35-#3,4,6,10-13

Section 1.3: Pg. 45-#3,4,7,9-11,20-25,29,43,54-57

Section 1.5: Pg. 62-#7,8,10,17,20,25,26(For 26d, you do not need to solve using a graph.)

Section 1.6: Pg. 74-#4-6,17-20,22,24,26,31,37,38,51,59,60,63-67

Have a great summer! I'll see you in August!

Mrs. Montgomery