

## AP Calculus BC Summer Assignment 2024

**Due Date: First Day of Class**

Welcome to AP Calculus BC! The purpose of this summer assignment is to review material that you already learned in precalculus. If you struggle with specific areas of the review, you should use your past from precalculus notes, Khan Academy, and other resources to ensure that you understand the concepts before our first day of class. You can also email me if you have questions ([akachmarski@stuartschool.org](mailto:akachmarski@stuartschool.org)). Please do not wait until the last minute to complete this assignment. You will want to pace the assignment out over the summer so you are prepared to begin calculus in the fall. The majority of the assignment should be completed without a calculator, although there are few sections that indicate calculator use is expected. Please plan to purchase a TI-83 or TI-84 for class.

This assignment will count as your first homework grade (graded on accuracy). On the second day of class, you will have a quiz on the material covered in this review. You should expect the quiz to be 15 questions and you to be given 35 minutes to complete it.

Your summer assignment is broken into four parts. Three of the parts are on Albert.io. The assignments are located under "Assignments" on Albert.io. Login information for Albert.io can be found on our Google Classroom page. Our Google Classroom code is 4jksebt. The links to the three part Albert.io assignments can be found below:

- [Summer Assignment Part 1](#)
- [Summer Assignment Part 2](#)
- [Summer Assignment Part 3](#)

For the fourth part of your assignment, you will be watching flipped lessons and taking notes on related rates and extrema. Please use the video links below and blank note packets to take notes.

- [2.6 Related Rates](#)
- [3.1 Extrema](#)
- [3.2 Rolle's Theorem and the Mean Value Theorem](#)
- [3.3 The First Derivative Test](#)
- [3.4 Concavity and the Second Derivative Test](#)
- [3.6 Curve Sketching](#)
- [3.7 Optimization](#)

Then, complete the Unit 3 AP Questions located on Google Classroom.

You need to come into class each day with an open mind. The content we will be learning will challenge you. I encourage you to find someone from class to work on homework and to prepare for assessments with. Very often, two minds are greater than one. I look forward to a great year of AP Calculus BC with all of you!

Best,

Ms. Kachmarski (Ms. K)