

AP Calculus AB & BC Summer Work

Students registered for AP Calculus AB and BC are required to complete the following summer work prior to the first day of the new school year. The work consists of a reading/writing component and a problem-solving component. Both parts of the assignment are due on the first day of school. If you have any questions, please email Ms. Clark or Mr. Roby.

Reading/Writing Assignments:

Review each of the following documents. You will be expected to be familiar with the content in each of these documents. Then answer the question(s) relating to each reading assignment in 250-500 words. (You are only writing two 250-500 word responses, not one for each bullet)

- a. AP Calculus Course Description (60 pages) Pay special attention to pages 4-24 and pages 40-47.
<https://secure-media.collegeboard.org/digitalServices/pdf/ap/ap-calculus-ab-and-bc-course-and-exam-description.pdf>
- Why does the College Board emphasize conceptual understanding (the understanding of concepts coupled with the ability to make connections between, and among, other concepts, to communicate them effectively, and to utilize them in problem solving) in AP Calculus so much, even of prerequisite subjects and topics, when prior math classes emphasized procedural fluency (the ability to master procedural skills needed to perform mathematical computations and procedures)?
 - How might the emphasis on conceptual understanding benefit your success in this course, preparation for college, career achievement, and development as a lifelong learner?
 - What challenges does this emphasis present to you as a student?
- b. How to Study Math (11 pages)
<http://tutorial.math.lamar.edu/getfile.aspx?file=B,15,N>
- How do you typically study for math class? Do you study before quizzes, tests, and/or finals? If so, how much time typically do you spend?
 - How much time per school night do you spend studying for math, not including doing homework? Same question but including doing homework?
 - Which of these tips do you already follow when you take a mathematics course? How are they helpful?
 - Are there any of these tips that you have not used before that might help you in AP Calculus? Why do you think so?
 - Are there any tips that are not mentioned that you believe are helpful? How are they helpful?

All assignment submissions must:

- 1) respond to the prompts
- 2) be well-written
- 3) adhere to the word count requirement
- 4) use one-inch margins, 12-point Cambria Math font, and double line spacing
- 5) be consolidated into one document, in the order listed on the first page of this document (assignment may be double-sided)
- 6) either shared via google or printed and turned in by 8:00am on August 12, 2019.

Problem Solving:

Complete "AP Calculus AB/BC Summer Work Weber" on Delta Math.

Instructions for setting up an account and/or locating the summer assignment.

1. Go to deltamath.com
2. If you do not have an account, create one using your weber email address
 - a. "Create Account" in top right corner and choose "Student"
 - b. For Ms. Clark:
 - i. Teacher code: 604015
 - ii. Class: AP Calculus BC
 - c. For Mr. Roby:
 - i. Teacher code: 722657
 - ii. Period: Calc AB Roby
 - d. Enter the rest of the information (first name, last name, email, and password) and click "Create Account"
3. If you already have an account, log in
 - a. "Tools" dropdown in top right corner
 - b. "Manage Login and Teachers"
 - c. Click "Add Teacher" under "Teacher/Class Information"
 - d. For Ms. Clark:
 - i. Teacher Code: 604015
 - ii. Ms. Clark: AP Calculus BC
 - e. For Mr. Roby:
 - i. Teacher Code: 722657
 - ii. Mr. Roby: Calc AB Roby
4. To locate the assignment, click on "DeltaMath" in top left corner.
 - a. Under "Upcoming Assignments" you will find "AP Calculus AB/BC Summer Work Weber"

Complete each section of the summer work.

- Next to "AP Calculus AB/BC Summer Work Weber" at the top of the page it will show you what percentage of the assignment you have completed.
- Next to each section it will show you how many of the problems you have completed.
- You have 2 attempts for each question. If you get a question wrong twice, you must re-start the section.
- If you are unsure how to work the problem, click "Show Example" to see a worked out problem similar to the one you've been given.
- This assignment is not meant to be completed in one sitting. Take your time and work on this throughout the summer.
- This is due on August 12 at 8:00am, which is the first day of school. It says this at the bottom of the assignment as well.