

AP Calculus BC Summer Work 2023

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Welcome to AP Calculus BC! The Calculus BC course is similar to the Calculus AB insofar as how it is constructed, the type of critical thinking used, creative problem solving expected, and the use of mathematical representations to be interpreted. The goal of this Summer Work is to provide for you concrete examples of the types of problems you need to know how to solve.

To do this, I will ask you to review the Calculus AB topics. Below are some links to important topics in Khan Academy from the AP Calculus AB section. You will find repeated patterns of many various types of Rates of Change, Derivatives, and their Applications; Areas and Volumes and their Applications; behavior of many and various functions including use of limits, derivatives, anti-derivatives to analyze them; all of which can be viewed Graphically, Symbolically, Numerically and/or Verbally, and the connections between and among all these various facets of mathematical analysis. Understanding these types of connections is your job this summer.

So, your work this summer consists of the following:

- 1) Join the course I have created on Khan Academy using the following link:
<https://www.khanacademy.org/join/PYH6GV5U>
- 2) Complete the assigned problem sets on Khan Academy. Make sure you are signed in the upper right hand corner using your Tilton School Email.

Let me know if you have any questions along the way, this work is designed to help keep the material fresh for you, and for me to know what you need support with! Enjoy!

Mr. Conrad