

AP Calculus requires a strong foundation in nearly all types of mathematics preceding it, including geometry (coordinate and otherwise), algebra (symbolic manipulation, related rules and laws, and ties to the coordinate system), and trigonometry (evaluation of trig functions and inverse trig functions at common values related to π). Completing the following list of problems will review a variety of topics in preparation for calculus, some topics which you have studied within the last year, some of which you haven't studied for a while. Some of the material will be used immediately in the study of calculus while some will not be used until much later in the year, however all of it is prerequisite material. A grade will be taken for this work to start next year, but no formal quiz or test will be taken over the material. You will be expected to be fluent in this content, otherwise the study of calculus will be severely compromised.

If you have questions, feel free to ask for help at any time throughout the summer at gchristy@sylvaniaschools.org. I will respond as soon as I can (it is summer, so it may take a few days☺). Have a good summer.

****Expect a minimum of about 3 hours to complete all problems.****

Precalculus Review (from the AP Calculus text)

p. 37: 1-4, 7, 11-14, 17, 18, 20-23, 25, 27, 29, 32-36, 40, 45, 46

p. 331: 7-10, 21-36

p. 358: 1-16

p. 368: 1-8, 15-24

p. 379: 5-25 odds

Complete the listed problems, showing all appropriate work. Whenever possible, try to complete the work without a calculator as more than half the AP Calculus exam does not allow the use of any device.