

To: AP Calculus AB students and those who will take BC Calculus in the spring  
Re: Course requirements and summer assignment  
From: Sister Mary Butler

Next year, 2022-2023, I will teach the Advanced Placement Calculus courses. As you know from the course description, these are college-level courses. Each course culminates with an AP exam administered early May, which you are required to take. Because of the date of the test, we will need to finish the course content by mid April, so we can have ample time to review all the topics. Success in the AP exam can result in earned college credit and /or advanced standing in college depending upon your choice of school and its policies.

The text we will use is Calculus Graphical, Numerical, and Algebraic Fifth Edition by Finney, Demana, Waits, Kennedy, and Bressoud. AP students purchase their calculus books so they can highlight important definitions and/or write marginal notes. You are responsible to acquire this text. You can probably get it cheaper on-line or you can purchase used. Note: this book has a yellow cover design.

In order to begin with a fresh, energetic start in Calculus, I am requiring that this summer you will be responsible for the review of precalculus topics. Chapter 1 covers the prerequisites for Calculus that you have studied in a previous course. **Be particularly sure you have mastered trigonometry and know, without using a calculator, the trig functions of  $\frac{\pi}{2}, \frac{\pi}{3}, \frac{\pi}{4}, \frac{\pi}{6}$ .** Knowing the graphs, equations, domain and range of the 12 basic functions is extremely helpful to be successful in the course. The Summer Assignment gives the type of questions you are responsible to know. I will post the answers on Canvas so, you can check your mastery.

Khan Academy has helpful videos if you need a refresher lesson.

Several colleges offer calculus readiness tests on line. If you Google that, you will find additional tests to try if you wish to do more practice.

I am looking forward to our time together next year - the knowledge we'll share, the truth we'll pursue, and the fun we'll have.