

2021-2022

REVIEW-PREVIEW ASSIGNMENT

You are receiving this Summer Assignment now so that you can plan ahead and work on this assignment on a schedule of your own choosing that fits your plans for the summer.

Our main textbook is the following. It should be available on ETechCampus soon:

- Larson/Battaglia: *Calculus for AP, 2nd Edition* (Cengage Learning, 2021)

Chapter P and Appendix Section C.3 contain review material from your Algebra 2 and Pre-Calculus courses. You should be able to handle the topics on your own for the most part. A brief discussion of Chapter P and Appendix Section C.3 will take place during the first few days of classes.

You will be most successful if you:

- purchase the textbook early in the summer
- **read** the sections in the textbook and follow the worked-out examples.
- do some assigned problems from each section throughout the summer.
- email Mr. Sung with any questions you have over the summer.
- **do not wait until school starts to do the work!!!!**

The “assigned problems” are on the enclosed Quarter 1 Schedule. You should note that the answers to the odd problems are included in the back of your book. On the **CalcChat** website (<https://www.calcchat.com/book/Calculus-for-AP-2e/>) you can find worked-out solutions to most of the odd-numbered problems. In addition, the **CalcView** website (<https://www.calcview.com/calculus-for-ap-2e/>) contains videos where teachers work out solutions to selected odd-numbered problems (the ones where the problem numbers are in red).

This assignment will give you a strong foundation on which we will build the topics of AP Calculus AB. Please note that there will be groupwork assignments and a quest on Chapter P and Appendix Section C.3. These grades will be included in your Quarter 1 grade.

QUARTER 1 SCHEDULE

(Note: Dates are approximate and are subject to change.)

Date	Day	Topics Covered	Assignment
Class #1		Course Introduction P.1. Graphs and Models P.2. Linear Models and Rates of Change	pp. 10-11: Ex. 5, 11, 21, 25, 27, 33, 39, 47, 57, 61, 63, 67, 69; pp. 20-22: Ex. 9, 21, 23, 25, 35, 37, 41, 57, 59, 63, 65, 75
Class #2		P.3. Functions and Their Graphs P.4. Inverse Functions	pp. 31-33: Ex. 3, 5, 11, 21, 25, 31, 35, 39, 45, 55, 59, 61, 67, 73, 75; pp. 42-45: Ex. 3, 5, 19, 23, 29, 33, 35, 41, 43, 53, 59, 61, 67, 73, 87, 95, 99, 115, 119
Class #3		P.5. Exponential and Logarithmic Functions C.3. Review of Trigonometric Functions	pp. 51-52: Ex. 3, 7, 11, 17, 27, 33, 41, 51, 53, 55, 57, 67, 73, 79, 85, 89, 93, 97, 101, 103, 105; pp. A31-A33: Ex. 1, 3, 5, 7, 11, 13, 17, 19, 25, 27, 33, 37-47 odd, 53, 57, 61, 63
Class #4		Quest: Chapter P, Section C.3	
		1.1. A Preview of Calculus	
		1.2. Finding Limits Graphically and Numerically	
		1.3. Evaluating Limits Analytically	
		Quiz: Sections 1.1, 1.2, 1.3	