

Advanced Placement Calculus AB
MAT502
Summer Assignment

A strong knowledge of both algebra and precalculus is crucial to success in your study of calculus. In order to make sure that you return to school ready to learn at your full potential, you will complete the following this summer:

- ❖ Refresh your understanding of algebra and Precalculus by reading through chapter 1 of our textbook and completing the following:

Section	Topic	Assignment
1.1	Linear Functions	7, 8, 11, 16, 20, 21, 23, 27, 32, 34, 37, 41, 44, 52, 58
1.2	Functions and Graphs	5 – 12, 14, 16, 17, 24, 26, 29, 33, 36, 42, 43, 50, 51, 54, 55
1.3	Exponential Functions	4, 5, 8, 13 – 18, 21, 28, 48
1.5	Inverse Functions and Logarithms	18, 20, 24, 34, 36, 38, 40, 43, 50
1.6	Trigonometric Functions	9, 12, 17, 28, 33, 36, 42

You will need to purchase access to the textbook; do so at <https://k12sd.com> or follow the link on the school website (under the Parents tab). The bookstore should be active in a few weeks.

Remember, success in AP Calculus AB will be attained only through hard work and perseverance. It is very important that you work through problems in order to truly understand the topics we will cover. To this end, you must be committed to spending enough time on homework so that you fully understand the various nuances that can exist in a problem. Remember, you have what it takes to earn a 5 on the AP Calculus AB exam next May! The best thing that you can do to ensure that you do is to always give your best effort in all things. I look forward to seeing you all in September!