

## SUMMER STUDY PACKET AP CALCULUS

Dear AP Calculus student,

This summer packet will enable you to be successful in knowing prerequisites for the AP exam. As you know, the prerequisites for the student include two years of algebra and a year of geometry grounding in elementary functions and their graphs, including trigonometry. Attitude prerequisites include willingness to work both in and out of class, a willingness to collaborate with class mutual understanding, and a sincere intent to place out of the first semester or year of college rather than repeat it. The purpose of this summer packet will also enable you to:

- (1) value mathematics
- (2) become confident in your ability to do mathematics
- (3) become a mathematical problem solver
- (4) communicate mathematically
- (5) reason mathematically

You will be given an AP Calculus textbook so you can start familiarizing with the book and the type of problems you are expected to know. You are responsible for doing all the exercises noted before the first day of classes. If you do not know how to do a problem you are expected to use the sources available to you (notes, handouts, books, internet, etc.) to figure it out independently. The best study routines, during the summer months, is to constantly review topics and do a few problems each day, do not attempt to do the entire handout the day before school starts.

The problems should be done in chronological order. Each problem should include a summary of the problem statement, a complete step-by-step solution, and a boxed final answer. You should not use a calculator to do the problems, but you may use your calculator to check your answer.

Go to the following link and read instructions for the summer assignment worksheets you need to solve.

<https://sites.google.com/a/asfg.edu.mx/leticia/leticia/ap-calculus>

This summer assignment contains a review of the following:

- 1.1 Lines
- 1.2 Functions and Graphs
- 1.3 Exponential Functions  
Parent Functions and Transformations
- Introduction to Conics
- 1.5 Functions and Logarithms
- 1.6 Trigonometric and Inverse Trigonometric Functions

The summer assignment will be collected and graded as homework. You are expected to know how to solve all the problems. There will be a brief review of these topics during the first week of class and then you will be formally evaluated on your knowledge of these topics. This test will count as 10% of your first quarter grade. The prepared AP Calculus student should easily score over 90% on such an exam.

If you have any questions, please email [leticia.garcia@asfg.edu.mx](mailto:leticia.garcia@asfg.edu.mx)

Enjoy your summer and do your best!

Sincerely,

The ASFG Math Department