

May 28, 2008

To: AP Calculus AB Students
Parkland High School
'08-'09 School Term

Re: Summer Assignment Requirement

Dear AP Calculus AB Student:

On behalf of the Calculus teachers at Parkland High School, we would like to take this brief opportunity to provide you with some information that will be helpful to you successfully complete AP Calculus AB during the upcoming school term. We highly recommend that you seriously consider and complete each of the following suggestions so that you can successfully complete the AP Calculus AB course and obtain a competitive score on the AP Calculus AB Exam.

1. As stated in the Course Description book, the prerequisites for this course are Honors College Algebra, Honors Trigonometry and Honors Analytic Geometry. Please make sure that you have successfully completed all three of these courses. A complete understanding of the concepts covered in these courses is assumed and is used continuously throughout the AP Calculus courses.
2. All students enrolled in AP Calculus AB for the upcoming school term are required to complete a summer assignment. This assignment is based on selected content covered in the prerequisite courses stated above. The summer assignment is attached to this letter. It also appears on the PHS website under "Links."
3. If you do not own one already, you may wish to consider purchasing a graphing calculator. In completing the AP curriculum, a multi-faceted approach will be taken in covering the material. Content will be addressed from a graphical, numerical, analytic and verbal approach. Regarding the AP Calculus Exam offered in May, student understanding of the content will be assessed in all four modes. Students will be asked to process information BOTH with and without a graphing calculator. Because of this format, having and knowing how to use a graphing calculator is very important (although not all inclusive!). We have some graphing calculators available for student classroom use; however, most students in the past have recommended to the incoming classes that they get a graphing calculator of their own. Currently, we support the use of the Texas Instruments series of calculators (83 , 83 Plus, 84, 84 Plus and 89). Any graphing calculator

that does not have the "QWERTY" keyboard is allowed (in most instances) in class. These calculators do go on sale during the summer months, so pay attention to the summer sale circulars if you choose to purchase one.

4. **The textbook for this course is *Calculus*" 7th ed., by Finney. We use the 2003 edition.** Chapter One of this text is a complete review of content covered in the prerequisite courses listed above. In order to spend more time teaching and learning the new concepts of Calculus next school term, and therefore, increasing your chances of performing well on the AP test in May, **copies of this textbook are available for you to sign out on loan over the summer to use in completing the summer assignment referenced above. You may sign out a book from either Mr. Maiatico in B 122 or from Mrs. Stinner in B 125. If you do not pick up a copy of the textbook and assignment prior to the end of the 07 - 08 school year, you may pick both up in the PHS Library after June 12.** You will then take the time to complete the assignment over the summer and come in to the first day of school with a prepared list of questions on this material. It is our sincere hope that if you come in with specific questions, we can make our review time in September more productive by addressing specific problem areas instead of doing a general review of material you have already covered in another class.
5. A formal assessment of the summer assignment will be given during the first week of school. For the '08-'09 school term, the date of this assessment is Friday, September 5, 2008.
6. Remember - if the book is not returned or accounted for during the first week of school in September - you will be charged full price for replacement of the book! So please don't lose or damage it over the summer!

We thank you for enrolling in AP Calculus AB for next school term and we look forward to working with you!

Sincerely,

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AP Calculus Teachers

Parkland High School

Calculus, 7th Ed. 2003 Ed.
Finney, Demanna, Waits and Kennedy
ISBN # 0-13-063131-0

Section 1.1 - Lines

Read Section 1.1

Quick Review - Page 7 - #1-10

Exercises - Pages 7 & 8 - #1 - 37, odds

Section 1. 2 - Functions and Graphs

Read Section 1.2

Quick Review - Page 17 - #1-12

Exercises - Pages 17 & 18 - #5 - 34 all, #41 - 47 odds, and #49 - 54 all

Section 1.3 - Exponential Functions

Read Section 1.3

Quick Review - Page 24 - #1 - 10

Exercises - Pages 24 & 25 - #1 - 22 all, #23 - 33 odds

Section 1.5 - Functions and Logarithms

Read Section 1.5

Quick Review - Page 39 - #1-10 all

Pages 39 - 40, Problems 1 - 12 graphically, 13 - 45 odds and 42

Section 1.6 - Trigonometric Functions

Read Section 1,6

Page 48 - Quick Review #1 - 10 all

Pages 48-49, Problems 1 - 31 odds