

May 28, 2008

To: Prospective AP Calculus BC Students
Parkland High School
'08-'09 School Term
Re: Summer Assignment Requirement

Dear AP Calculus BC Student:

Welcome to AP Calculus BC! In signing up for this course, you have challenged yourself to take the next step in your understanding of advanced mathematical concepts. It is assumed that if you signed up for this course, you have successfully completed AP Calculus AB as it is a prerequisite. I look forward to working with you during the next school term!

In order to prepare yourself for the pace and content of this course, I require you to sign out a copy of our textbook - *Calculus - 7th Ed.* - by Larson - for the summer. Along with the textbook, you will be given an assignment list to be completed before the first day of school in September. Please pick up the book and assignment sheet in Room B125 before the end of the school year. After June 12, you may pick up a copy of the book in the PHS Library. The assignment sheet is also posted on the PHS website.

In completing this assignment prior to entering the course in September you are ensuring you recall and understand the topics you covered in your first year of Calculus that will impact what you learn in your second year of Calculus. If there is something on this list that you are having trouble with, please come into the first few of days of class in September with a list of problems you would like to go over or questions you would like to ask. This is how we will tackle our brief review of AP Calculus AB concepts at the beginning of the AP Calculus BC course. All of the problems on the assignment list are a review of information that was covered in AP Calculus AB.

If you have not done so already, it is suggested that you acquire an appropriate graphing calculator for use during the AP Calculus BC course. I will still have a few available for use during the class period, but you will find that if you have your own and you get used to using the same calculator for class and homework you will be doing yourself a big favor. Currently the PHS Mathematics Department supports the use of the Texas Instruments series of graphing calculators (TI-83, TI-83 Plus, TI-84, TI-84 Plus, TI-89). You may purchase another brand, however you will be responsible for reading the manual and making sure you can find all the necessary functions we use in class. Remember the AP Exam has a calculator portion to the exam and you must use a graphing calculator. Scientific calculators are not allowed.

You will be required to keep a notebook while taking the AP Calculus BC course. That notebook will contain all class notes and daily homework. It is suggested that you use this summer assignment as the beginning of that notebook. It may be loose-leaf or spiral - whatever you are comfortable with for use during the next school year.

If you have any questions or concerns as the summer progresses, please feel free to email me at the location listed below. I do check this periodically and will answer you as soon as I can. (Please be patient as I will be out of town several times over the summer!)

Thanks you for your interest! I look forward to seeing you in September!

Mrs Stinner
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AP Calculus BC
Summer Assignment List - '08-'09
Calculus - 7th Ed. - 2002
ISBN # 0-618-14918-X

Chapter P - Preparation for Calculus

Pages 36-37

Problems #1-41 odds

Chapter 1 - Limits and their Properties

Pages 88-89

Problems # 1, 11-25 odds, 29-67 odds

Chapter 2 - Differentiation

Pages 153-155

Problems # 1-13 odds, 17 - 79 odds, 89, 91, 99 - 111 odds

Chapter 3 - Applications of Differentiation

Pages 235-237

Problems #1 - 11 odds, 15 -27 odds, 33 - 39 odds, 65 -71 odds, 81, 83

Chapter 4 - Integration

Pages 307 - 309

Problems #3 - 13 odds, 27 - 75 odds

The above work is to be completed over the summer months. Bring all of the completed work with you to the first day of class. Remember completion of this assignment is part of your first rating period grade and you must show all support work to receive full credit. A formal assessment of this material will be given at the end of the first week of class in September. Be prepared to ask questions upon your return to school in the fall in preparation for this assessment. Also, this assessment will contain two parts. One part may be completed with a calculator and one part will be completed without a calculator. These assessments will take place on Friday September 5, 2008 and Monday September 8, 2008.