

AP CALCULUS 2011-2012 SUMMER WORK.

- **Check out Text book from the library on June 21st**

ASSIGNMENT I:

Read Chapter 1 & 2 in the text book.

Chapter 1 Prerequisite for calculus

- 1.1 Lines
- 1.2 Functions and Graphs
- 1.3 Exponential Functions
- 1.4 *Skip this section*
- 1.5 Functions and Logarithms
- 1.6 Trigonometric Functions

(25 Points) Do Practice problems (Pages 52) 1- 44 (Even #s only), 16-18 (graphical solution) 20-26 (mathematical explanation required), 54, 56, 60, 62 and 64

Chapter 2 Limits and Continuity

- 2.1 Rates of Change and Limits
- 2.2 Limits involving Infinity
- 2.3 Continuity
- 2.4 Rates of Change and Tangent Lines.

(25 Points) Practice Problems (Page 91): 1 to 14 (simplify the functions if required, show work, explain if limit does not exist), 15 to 42, 43 to 48 (follow examples in section 2.4 to show work), 49, 50 & 52.

ASSIGNMENT II: Do all problems in the AP Calculus Summer Packet "Are you ready for Calculus" on a separate sheet of paper. (50 Points)

ASSIGNMENT III: 1st MP Project on a separate sheet of paper (50 Points)

- **All Assignments are due on the first day of school.**
- **Assignment I - You will have a Quiz on Chapter 1 & 2 on the first day of school. (50 Points)**
- Late work is not accepted. You will receive a '0' if the summer work is not turned in on time.
- Your Summer Packet and Project will account for a grade for the 1st MP.
- Use Text book and internet as additional resource to help you with the summer work.
- Feel free to send me an e-mail at pratima.kumar@rcsdk12.org.com with questions and concerns.

All the Best.
Have a wonderful summer.

Mrs. Kumar