

Summer Syllabus for AP Calculus AB

CHAPTER 0 BEFORE CALCULUS

Appendix B: Trigonometry Review

Converting from degrees to radians

Angle Chart

Using right triangles

Evaluating all trigonometric functions

Finding the angle given the trigonometric value (Use $n\pi$ notation)

Assignment #1 pgs. A23-A24 #2-30 EVEN

0.1 Functions

Reading graphs

Evaluating functions

Natural domains (use sign graphs when necessary)

Absolute value rewritten as piecewise

Assignment #2 pgs. 12-14 #1-24

0.2 New Functions from Old

Graphing functions by hand

Composition of functions

Difference quotient

Even and Odd functions

Symmetry

Assignment #3 pgs. 25-26 #5-24, 28-42 Even, 47, 53-62

[Note: ANY suspicion of a graphing calculator used in #5-24 will warrant a zero for this assignment]

0.3 Families of Functions

Additional functions

Transformations

Rational functions

Assignment #4 pgs. 35-36 #11, 13-20

[Same rules for the graphing problems as in the previous assignment]

0.4 Inverse Functions

Horizontal line test

Finding the inverse of a function

Domain and range of a function and its inverse

Assignment #5 pgs. 49-50

#1-19 ODD, 27, 28, 31-37

JUSTIFY YOUR ANSWERS

0.5 Exponential and Logarithmic Functions

Review properties of exponents

Review properties of logarithms

Solving exponential and logarithmic equations

Assignment #6 pg. 61

#2-30 EVEN

SHOW ALL WORK

**NOTE: ADDITIONAL SUPPLEMENTS WILL BE
DISTRIBUTED AT THE SUMMER WORKSHOP**

Summer Syllabus due the first day of school. This will count as your first test grade. Extra credit of 10 points will be awarded to completed summer syllabii submitted on or before the last day of the summer workshop.