

Assignment 4, Spring 2008

This assignment is due Thursday, March 6, 2008, at the beginning of class.

1. In this problem, I am asking you to analyze your study habits.
 - (a) Send me an email stating "I have begun problem 1 of Assignment 4."
 - (b) Begin a "Calculus Study Log" by taking a sheet of paper and dividing it into 4 columns. The column labels should be:

Date Start time End time Total Time

Then begin recording your study time in Calculus. For example, if you begin reading Section 3.9 on Sunday at 6 PM and do a few exercises, stopping at 6:40, you should have a line that reads

March 2, 2008 6 : 00 PM 6 : 40 PM 40 mins.

- (c) On Thursday morning, total your time, and then turn in this log, along with a brief sentence or two summarizing anything you've learned in this process.
2. Use the concept of inverse functions to explain the following identities
 - (a) $\cos^{-1}(x) + \sin^{-1}(x) = \pi/2$.
 - (b) $\cos^{-1}(x) = \sec^{-1}(1/x)$.

Comments and suggestions for Assignment 4

1. Something I've learned about my own study habits: I am most efficient when I work for short periods of time (say half-an-hour) and then do lots of these short work sessions. I almost *never* work more than 45 minutes on any single project.
2. Draw a triangle.