

Math 111.17 Fall 2002
Assignment #5

This assignment is due at the beginning of class on **Tuesday, October 8, 2002**. You are encouraged to form study groups and collaborate with others on this assignment. However, the final work you submit must be your own. You must submit all problems that are marked with an asterix (*). **YOUR ASSIGNMENT MUST BE STAPLED AND PROBLEM NUMBERS CLEARLY LABELLED. UNSTAPLED ASSIGNMENTS WILL NOT BE ACCEPTED!**

1. Rework all the problems on Prelim #1, paying special attention to those that you got incorrect (even partially).
2. Read the sections on the Graphing Calculators handout from September 4 pertaining to parametric equations.
3. Practice problems.
 - Section 3.4 #3, 13, 23, 29 • Section 1.7 #5, 11, 17
4. * Problems to hand in.
 - Section 3.4 #8, 14, 18, 26 • Section 1.7 #4, 10, 18
5. * Differentiation practice.
 - Section 3.4 #4, 9, 11
6. * Use your calculators to guess the value of $\lim_{x \rightarrow 0} (\sec x)^{1/x^2}$.