Problem Set 2   **Calculus 1**   **Due 10/10/11**

You are encouraged to work in groups of two to four on this assignment and make a single group submission. Each problem is worth 3 points for correct and clearly justified answers. An additional quality point will be awarded to submissions which are presented in a manner appropriate to good college-level work.

1. Find the derivatives of
   a) $\sec x$
   b) $\csc x$
   c) $\cot x$

2. Do Exercise 61 in §3.4 of Briggs & Cochran.

3. Do Exercise 27 in §3.5 of Briggs & Cochran, but also compare the peak height of the bullet on the moon (using the acceleration from problem 26) assuming constant acceleration from gravity.