**Problem Set 4**      **Calculus 2**      **Due 10/21/06**

You are encouraged to work in groups of two to four on this assignment and make a single group submission. Each problem is worth 5 points. For full credit indicate clearly how you reached your answer. All work must be legible and submitted on clean paper without ragged edges.

1. Do #26 in §11.2.

2. Look at #65 in §11.2.
   a) Show that the total length of the intervals removed from the Cantor set is 1.

   b) Show that the total area of the squares removed from the Sierpinski carpet is 1.

3. Do #28 in §11.3.

4. Do #32 in §11.5.