

Homework Section 3.4 and 3.5

- I. Research published in a journal called *Biotropica* says that the size of catfish that a beaked sea snake will eat varies with the length of the snake. Do problem #44 page 188. When you interpret the results for part b (in a sentence), reread what you've written, to make sure it makes sense.
- II. Do problem 46 page 199. Before you do part (a), find the vertex of the parabola, whether it is opening upwards or downwards, and its x- and y-intercepts. Label the vertex and intercepts on your graph. Answer parts (b) through (f) in sentences.
- III. Follow these instructions to do problems #7 through 14 pages 194-195: Copy the given graph into your homework (large enough to read), and then draw the graph of the derivative on a separate graph directly below it (so that the x-values line up).