Reading Assignment for Section 4.4

MATH 130: Calculus I, Sections 2 and 3
Fall Semester 2013

Follow the general guidelines for the Reading Assignment (the salmon colored handout). Be sure to include and label all four standard parts a,b,c,d of the Reading Assignment in what you hand in. Be sure to **staple** together pages if you have more than one, and include your **name** and which **section** of calculus you are in at the top of the page. Neatness is appreciated!!!

Due: at the beginning of class on Wednesday, November 20th

Read:

Section 4.4, pages 257-261: Optimization Problems

Notes: In this section we apply all our maximizing and minimizing skills to real world problems! Go back and review how we found absolute extrema in Sections 4.1 and 4.2. Remember those maximizing profit and minimizing material (for canning fruit) questions we asked at the beginning of the semester? Let's answer them now!

Remember that your answers should include complete sentences for every question.

Reading Questions for part (a):

1. Summarize in your own words what the important things are to do in solving an optimization problem.

2. Back in Section 4.1, we outlined a procedure for finding absolute extrema on a closed interval (it is noted on the top of page 228). However, not every example in this section uses that method to solve the problem. Which ones do not? Why don't they use that procedure and what mathematical method do they use instead?

Remember parts b-d on the salmon handout!