SECTION 4.7 APPLIED OPTIMIZATION (DAY 1)

- 1. A Framework for Approaching Optimization
 - (a) Read the problem two or three times. Draw pictures. Label them. Pick specific numerical examples, to make the problem concrete. Be creative. Try more than just one approach.
 - (b) Identify the quantity to be minimized or maximized (and which one... min or max).
 - (c) Chose notation and explain what it means.

(d) Write the thing you want to maximize or minimize **as a function of one variable**, including a reasonable **domain**.

(e) Use calculus to answer the question and justify that your answer is correct.

2. Why does *justification* matter?

3.	. Find two positive numbers whose sum is 110 and whose product is a maximum.						

4.		ncing with which to enclose three adjacent rectangular corrals. ns should be used so that the enclosed area will be a maximum?	See

