Name _____
Calculus
Optimization Take-Home Assignment

1) A woman wants to make a rectangular garden in her backyard. She has 100 feet of fence for this project. Find the dimensions of this garden that will maximize the planting area.

2) Ever wonder why tuna fish cans are shaped the way they are? OK, assume that each can contains 16 cubic inches of tuna fish. The can is going to be shaped as a cylinder. What dimensions of the can will minimize the amount of aluminum needed?