

**READ ME:** Merely finding the answer to a problem is not enough to receive full credit; you must show how you arrived at that answer.

1) The lighthouse problem from Assignment 1 (see this week's Webwork, problem #2), except this time we will be more sophisticated:

a) (2 points) Find a function of two variables that you want to maximize.

b) (3 points) Use the gradient to find the solution.

2) (5 points) The ellipse question (#4) on this week's Webwork.