Math 16A (Summer 2007) Kouba Quiz 9
PRINT Name:
Exam ID #:

1.) (15 pts.) The area A of a rectangle is increasing at the rate of 4 ft. $^2$ /sec. and its length y is decreasing at the rate of 5 ft./sec. At what rate is the rectangle's width x changing when x = 3 feet and y = 6 feet?

2.) (15 pts.) A rectangular pen is formed against a building by using the building as one side of the pen and constructing the remaining three sides from 100 feet of fencing. What dimensions of the pen will result in a pen of maximum area? List values for all variables used.