KEY

Math 125-Quiz 0 September 2, 2011

You have ten minutes to complete this quiz. No Calculators.

1. What two words summarize the study of Calculus?

CHANGE and AREA

- 2. We are selling hot dogs at Borleske Stadium. Each hot dog gets us \$3 profit. We must pay \$20 to rent the space at the stadium.
 - (a) If h is the number of hot dogs being sold, express our profit as a function of h.

P(h) = 3h - 20

(b) What is our profit from selling 80 hot dogs?

P(80) = 3(80) -20 = \$220

(c) What is the domain of this function?

h >,0 (we cannot sell negative holdegs!)

(d) What is the range of this function?

P(4) 2 - 20 (If we sellaine, we lose money!)