## Chapter 2.4: More Interpreting Derivatives Calculus I

College of the Atlantic. Fall 2014

- 1. Suppose that f(50) = 30 and f'(50) = -1.5. Estimate f(52).
- 2. Let f(r) give the area in cm<sup>2</sup> of a pizza as a function of its radius r in cm.
  - (a) What is the meaning of f(5)?
  - (b) What is the meaning of  $f^{-1}(200)$ ?
  - (c) What is the meaning of f'(6)?
  - (d) Why is f'(6) > f'(5)?
- 3. Let g(v) be the fuel efficiency in mpg of a car traveling at v miles per hour. What is the practical meaning of the statement:

$$g'(55) = -0.54$$
?

- 4. Let C(n) be the cost of providing a COA education to n students. What is the practical meaning of the following quantities?
  - (a) C(350)
  - (b) C'(350)