4.1 - Derivatives

Course: Math 116 - 16
Due: February 21, 2017 Name:

56 An analyst has found that a company's costs and revenues in dollars for one product are given by

$$C(x) = 2x \quad R(x) = 6x - \frac{x^2}{1000}$$

(a) Find the marginal cost function.

(b) Find the marginal revenue function.

(c) Find the marginal profit function.

(d) What value of x makes marginal profit equal to 0?

(e) Find the profit when the marginal profit is 0.