

Name _____

Lab Section: _____

MATC 1200, Calculus for Business and Social Sciences

Lab 5 Marginal Analysis: Week of April 27, 2009

Pre-Lab Question

1. Suppose $C(x) = x^3 - 3x^2 + 4x + 3$ is the total cost in dollars to produce x items. The derivative $C'(x)$ is also called the "marginal cost" function.
 - a. What is the total cost to make 4 items?

 - b. What is the total cost to make 3 items?

 - c. What is the (additional) cost to make the 4th item? (Hint: Subtract your answers above).

 - d. What is the marginal cost function?

 - e. What is the marginal cost of the 3rd item?

2. Circle the correct answer:
 - a. Profit = Revenue + Cost
 - b. Profit = Cost - Revenue
 - c. Profit = Revenue - Cost
 - d. Profit = Cost + Revenue