

3.4 - Derivative

Course: Math 116 - 16
Due: February 7, 2017

Name:

52 The cost in dollars of producing x tacos is $C(x) = -0.00375x^2 + 1.5x + 1000$, for $0 \leq x \leq 180$.

a. Find the marginal cost.

b. Find and interpret the marginal cost at a production level of 100 tacos.

c. Find the exact cost to produce the 101st taco.

d. Compare the answers to parts (b) and (c). How are they related?