QUIZ NUMBER ONE FOR MTH 101, FALL006

AYMAN BADAWI

Name————————————, Id. Num.————————————————-, Score $\frac{}{15}$

QUESTION 1. *Let x be the number of ice-cream cones, and $C(x)$ be the cost of making x ice-cream cones. Given the following information: The base charge is 100 Dhs. For the first 200 cones or less, the cost of making each ice-cream cone is 1.5 Dhs. Over 200 cones, the cost of making each ice-cream cone is 1.2 Dhs.*

(1) *Write down the piecewise function $C(x)$.*

(2) *Sketch $C(x)$.*

(3) *What is the cost of making 250 ice-cream cones?*

DEPARTMENT OF MATHEMATICS & STATISTICS, AMERICAN UNIVERSITY OF SHARJAH, P.O. BOX 26666, SHARJAH, UNITED ARAB EMIRATES
E-mail address: abadawi@aus.edu, www.ayman-badawi.com