QUIZ NUMBER ONE FOR MTH102 SPRING007

AYMAN BADAWI

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

QUESTION 1. *Let* $f(x) = x^2 + 2x + 1$. *Find* $f'(1)$ *using the definition, i.e.* *you need to find* $Lim_{h \to 0} \frac{f(1+h)-f(1)}{h}$.

QUESTION 2. *Find The first derivative of the following functions:*

1) $f(x) = 4x^5 - 3x^2 + 12$

2) $f(x) = \sqrt{5x - 8} + 3x$

3) $f(x) = 5/2x^7$

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`