

## QUIZ NUMBER 7 FOR MTH 101

AYMAN BADAWI

Name \_\_\_\_\_, Id. Num. \_\_\_\_\_, Score  $\frac{\quad}{15}$

**QUESTION 1.** Maximize and Minimize  $P = 8x_1 + 3x_2$  subject to

$$x_1 + 2x_2 \geq 8$$

$$2x_1 + x_2 \leq 30$$

$$x_2 \geq 2$$

$$x_1, x_2 \geq 0$$

DEPARTMENT OF MATHEMATICS & STATISTICS, AMERICAN UNIVERSITY OF SHARJAH, P.O. BOX  
26666, SHARJAH, UNITED ARAB EMIRATES

*E-mail address:* [abadawi@aus.edu](mailto:abadawi@aus.edu), [www.ayman-badawi.com](http://www.ayman-badawi.com)