

Name: _____
Student ID: _____

Quiz 6

This quiz is graded out of 10 marks. No books, calculators, notes or cell phones are allowed. You must show all your work, the correct answer is worth 1 mark the remaining marks are given for the work. If you need more space for your answer use the back of the page.

Question 1. pg.110#6 (6 marks) Graph the following piece-wise function:

$$f(x) = \begin{cases} 2x - 4 & \text{if } x \leq 0 \\ -x^2 + 4 & \text{if } x > 0 \end{cases}$$

Question 2. pg.101#2a,c. Let $f(x) = x^2 - 2x - 2$, then find

a. (2 marks) $f(3)$

c. (2 marks) x if $f(x) = -2$