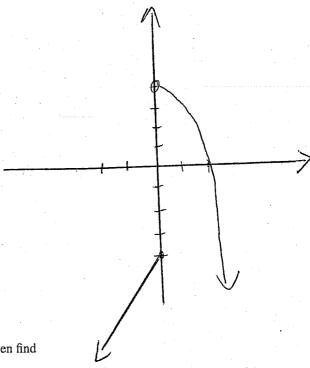
Name: YAWW LAMOW TAGINE
Student ID:

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:

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



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

a)
$$f(3) = 3^2 - 2(3) - 2 = 9 - 6 - 2 = 1$$

b)
$$x^{2}-2x-2=-2$$

 $x^{2}-2x=0$
 $x(x-2)=0$
 $x=0$
 $x=0$
 $x=2=0$
 $x=2=0$