Name: _____
Student ID: _____

Quiz 5

This quiz is graded out of 10 marks. No books, 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.101#1t *(6 marks)*
Find the x-intercepts, y-intercept, vertex and range of $y = 3x^2 - 6x + 4$ then graph the parabola.

Question 2. pg.110#5 *(4 marks)*
Graph the following piece-wise function:

$$f(x) = \begin{cases} x^2 & \text{if } x \leq 0 \\ x+1 & \text{if } x > 0 \end{cases}$$