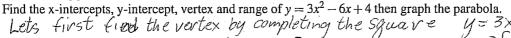
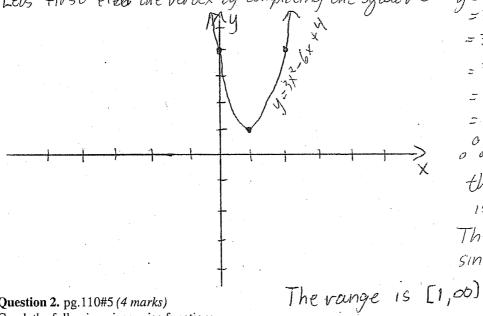
Name: YANN LAMONTAGNE Student ID:

Ouiz 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)

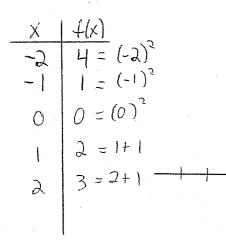




 $y = 3x^{2} - 6x + 4$ $= 3[x^{2} - 2x + \frac{4}{3}]$ $= 3[x^{2} - 2x + 1 - 1 + \frac{4}{3}]$ = 3[[-1] 2-1+4] $= 3(x-1)^{2} - 3 + 4$ $= 3(x-1)^{2} + 1$ o vertex at (1,1) the y-intercept
is located at (0,4) There are no x-into since 0 = 62-4ac = 62-4(3)(4)20

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

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



The X+1 piece of the function evaluated at 0 is 1. But since x=0 is not part of 1ts interval so an open dot is placed at (0,1).