

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.75#58 (3 marks) Find $\frac{f(x+h)-f(x)}{h}$ and simplify completely:

$$f(x) = \frac{10}{x} + 2$$

Question 2. pg.74#32 (2 marks) Determine the domain and range of $y = \sqrt{x-5}$.

Question 3. pg.90#8g (5 marks) Graph the parabola, noting the intercepts, the vertex, the axis of symmetry, and the range.

$$f(x) = 4x^2 - 4x + 1$$