

Name: \_\_\_\_\_

Student ID: \_\_\_\_\_

## Quiz 5

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.74#30 (2 marks) Determine the domain and range of the function:  $y = \sqrt{x-5}$

**Question 2.** pg.74#34 (3 marks) If  $f(x) = \frac{2x}{x-1}$ , then find:

- a.  $f(2)$
- c. the value of  $x$  when  $f(x) = 3$ .
- d.  $f(1+h)$

**Question 3.** pg.75#50 (5 marks) If  $f(x) = 2x^2 - 5x - 3$  then find:

$$\frac{f(x+h) - f(x)}{h}$$