Name: Student ID:

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## 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.81#2c (3 marks) Use the intercepts to graph the linear function:

$$f(x) = 3x - 1$$

$$X - Int:$$

$$|et y = 0$$

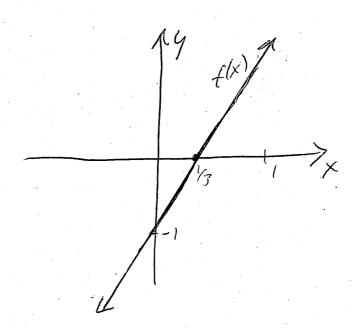
$$0 = 3x - 1$$

$$1 = X$$

$$3 \left(\frac{1}{3}, 0\right)$$

$$Y - Int:$$

$$c \left(0, -1\right)$$



Question 2. pg.88#2k (4 marks) Find the equation of the line through (4, -5) and (8, 13).

Question 3. pg.75#52 (3 marks) Find  $\frac{f(x+h)-f(x)}{h}$  and simplify completely:

$$f(x) = 2x^{2} - 5x - 3$$

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

$$= \frac{2(x+h)^{2} - 5(x+h) - 3 - [2x^{2} - 5x - 3]}{h}$$

$$= \frac{2x^{2} + 4xh + 2h^{2} - 5x - 5h - 3 - 2x^{2} + 5x + 3}{h}$$

$$= \frac{4xh + 2h^{2} - 5h}{h}$$