September 1, 2009

Name: Student ID:

Quiz 1

Question 1. (6 marks)

Solve the following linear equations:

(a)
$$3x - \frac{4}{3} = 20 + \frac{1}{3}x$$

$$3(3x-\frac{4}{3}) = 3(20+\frac{1}{3}x)$$

$$9x-3.\frac{4}{3} = 60+3.\frac{1}{3}x$$

$$9x - 4 = 60 + x$$

$$\frac{8\chi = 64}{8}$$

(b)
$$11 - (x+5) = 2[2(x-1)+7]$$

$$11 - x - 5 = 2(2x - 2 + 7)$$

$$6 - x = 2(2x + 5)$$

$$\sqrt{-\frac{4}{5}} = x$$

Question 2. (4 marks) Using a linear equation, find three consecutive odd integers such that 3 times the middle one is 1 more than the sum of the other two.

LET & BE THE FIRST SOD INTERER THEN X+2 IS THE SECOND ODD INTERER AND X+4 IS THE FOURTH ODD INTERER

3(x+2) = x + (x+4) + 1 3x+6 = 2x + 5x = -1

THE THREE INTEGERS ARE -1, 1, 3