Student ID:

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Ouiz 2

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.25#3h (3 marks) Simplify the following:

$$\frac{x^2 - 4a^2}{ax + 2a^2} \times \frac{2a}{x - 2a} = \frac{\chi^2 - (2a)^2}{ax + 2a^2} \begin{pmatrix} 2a \\ \chi - 2a \end{pmatrix}$$
$$= \frac{(\chi - 2a)(\chi + 2a)(2a)}{a(\chi + 2a)(\chi - 2a)}$$
$$= 2$$

Question 2. pg.33#6i (3 marks) Simplify the following:

$$(3\sqrt{5}-4\sqrt{2})(2\sqrt{5}+3\sqrt{2}) = 3(2)\sqrt{5}\sqrt{5} + 3(3)\sqrt{5}\sqrt{2} - 4(2)\sqrt{2}\sqrt{5} - 4(3)\sqrt{2}\sqrt{2}$$

$$= 6(5) + 9\sqrt{10} - 8\sqrt{10} - 12(2)$$

$$= 6 + \sqrt{10}$$

Question 3. pg.39#12 (4 marks)

The sum of three consecutive even integers is 54. Find the integers.

$$2X + (2X+2) + (2X+4) = 54$$

 $6X = 48$
 $X = 8$
First even integer $2(6) = 16$