Student ID:

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Ouiz 1

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.3#30 (5 marks) Simplify the following:

$$\frac{(-2xy^{-3})^{-3}}{(xy^{-1})^{-1}} = \frac{(xy^{-1})}{(-2xy^{-3})^3}$$

$$= \frac{xy^{-1}}{(-2x^3x^3y^{-9})^3}$$

$$= \frac{xy^{-1}y^{-9}}{-8x^3} = \frac{xy^8}{-8x^3} = \frac{-y^8}{8x^2}$$

Question 2. pg.8#4j (5 marks) Multiply and simplify:

$$3x^{3}(x-5)(2x+3) = 3x^{3}(2x^{2}+3x-10x-15)$$

$$= 3x^{3}(2x^{2}-7x-15)$$

$$= 6x^{5}-21x^{4}-45x^{3}$$