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Student ID:

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.13#26 (5 marks) Divide by long division to find the quotient and remainder:

Question 1. pg. 13#26 (3 marks) Divide by long division to find the quotient and remainder:

$$\frac{x^4 + 2x^3 + 2x^2 - x - 1}{x^2 + 1}$$

$$\times^2 + 0x + 1$$

$$-\frac{(x^4 + 0x^3 + x^2)}{2x^3 + 2x^2 - x}$$

$$-\frac{(2x^3 + 0x^2 + 2x)}{x^2 - 3x - 1}$$

$$-\frac{(x^2 + 0x + 1)}{-3x - 2}$$

$$\times^4 + 2x^3 + 2x^2 - x - 1$$

$$-\frac{(x^2 + 0x + 1)}{-3x - 2}$$

$$\times^4 + 2x^3 + 2x^2 - x - 1$$

$$-\frac{(x^2 + 0x + 1)}{-3x - 2}$$

$$\times^4 + 2x^3 + 2x^2 - x - 1$$

$$-\frac{(x^2 + 0x + 1)}{-3x - 2}$$

Question 2. pg.26#5f (5 marks) Simplify:

$$\frac{2x^{2}-x}{4x^{2}-1} \times \frac{4x^{2}+4x+1}{3x} \div \frac{4x^{2}-2x-2}{6x^{2}-6x} = \frac{\cancel{(2x-1)}}{\cancel{(2x-1)}\cancel{(2x+1)}} \cdot \frac{\cancel{(2x+1)}\cancel{(2x+1)}}{\cancel{3x}} \cdot \frac{\cancel{(2x+1)}\cancel{(2x+1)}}{\cancel{3x}} = \frac{\cancel{(2x+1)}\cancel{(2x+1)}}{\cancel{(2x+1)}} = \frac{\cancel{(2x+1)}\cancel{(2x+1)}}{\cancel{(2x+1)}}$$