# MATHEMATICS N3 / INTRODUCTION TO ENGINEERING MATHEMATICS

### **QUESTION 1**

(14 MARKS)

1.1 Factorise the following expressions as far as possible in prime factors:

1.1.1 
$$x^2(p-q) + 3x(q-p) - 18(p-q)$$

(4)

1.1.2 
$$5(x+1)^2 - 17(x+1) + 6$$

(3)

1.2 Simplify the following algebraic fractions:

1.2.1 
$$\frac{rp^2 - rq^2}{p^2 - 2pq + q^2} \div \frac{rp^2 - rp + rpq - rq}{p^2 - pq - p + q}$$

(4)

1.3 Prove that 
$$2x - 6$$
 is a factor of  $2x^3 - 6x^2 + 4x - 12$ 

(3)

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