

## Exercise 2B

## Question 1:

$$p(x) = 5 - 4x + 2x^2$$

(i) 
$$p(0) = 5 - 4(0) + 2(0)^2 = 5$$

(ii) 
$$p(3) = 5 - 4(3) + 2(3)^2$$

(iii) 
$$p(-2) = 5 - 4(-2) + 2(-2)^2$$

$$= 5 + 8 + 8 = 21$$

## Question 2:

$$p(y) = 4 + 3y - y^2 + 5y^3$$

(i) 
$$p(0) = 4 + 3(0) - 0^2 + 5(0)^3$$

$$= 4 + 0 - 0 + 0 = 4$$

(ii) 
$$p(2) = 4 + 3(2) - 2^2 + 5(2)^3$$

$$= 4 + 6 - 4 + 40$$

(iii) 
$$p(-1) = 4 + 3(-1) - (-1)^2 + 5(-1)^3$$

$$= 4 - 3 - 1 - 5 = -5$$

## Question 3:

$$f(t) = 4t^2 - 3t + 6$$

(i) 
$$f(0) = 4(0)^2 - 3(0) + 6$$

$$= 0 - 0 + 6 = 6$$

(ii) 
$$f(4) = 4(4)^2 - 3(4) + 6$$

(iii) 
$$f(-5) = 4(-5)^2 - 3(-5) + 6$$

\*\*\*\*\*\*\*\*\* END \*\*\*\*\*\*\*\*