

Mathematics

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(Chapter -2) (Polynomials) (Exercise 2.2)

(Class - 9)

Question 1:

Find the value of the polynomial $5x - 4x^2 + 3$ at:

(i) $x = 0$

(ii) $x = -1$

(iii) $x = 2$

Answer 1:

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

(i) Putting $x = 0$, we get

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

(ii) Putting $x = -1$, we get

$$p(-1) = 5 \times (-1) - 4(-1)^2 + 3 = -5 - 4 + 3 = -6$$

(iii) Putting $x = 2$, we get

$$p(2) = 5 \times 2 - 4(2)^2 + 3 = 10 - 16 + 3 = -3$$

Question 2:

Find $p(0)$, $p(1)$ and $p(2)$ for each of the following polynomials:

(i) $p(y) = y^2 - y + 1$

(ii) $p(t) = 2 + t + 2t^2 - t^3$

(iii) $p(x) = x^3$

(iv) $p(x) = (x - 1)(x + 1)$

Answer 2:

(i) $p(y) = y^2 - y + 1$

Putting $y = 0$, we get

$$p(0) = 0^2 - 0 + 1 = 1$$

Putting $y = 1$, we get

$$p(1) = 1^2 - 1 + 1 = 1$$

Putting $y = 2$, we get

$$p(2) = 2^2 - 2 + 1 = 3$$

(ii) $p(t) = 2 + t + 2t^2 - t^3$

Putting $t = 0$, we get

$$p(0) = 2 + 0 + 2(0)^2 - (0)^3 = 2$$

Putting $t = 1$, we get

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

Putting $t = 2$, we get

$$p(2) = 2 + 2 + 2(2)^2 - (2)^3 = 2 + 2 + 8 - 8 = 4$$

(iii) $p(x) = x^3$

Putting $x = 0$, we get

$$p(0) = (0)^3 = 0$$

Putting $x = 1$, we get

$$p(1) = (1)^3 = 1$$

Putting $x = 2$, we get

$$p(2) = (2)^3 = 8$$

(iv) $p(x) = (x - 1)(x + 1)$

Putting $x = 0$, we get

$$p(0) = (0 - 1)(0 + 1) = -1$$

Putting $x = 1$, we get

$$p(1) = (1 - 1)(1 + 1) = 0 \times 2 = 0$$

Putting $x = 2$, we get

$$p(2) = (2 - 1)(2 + 1) = 3$$

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