

# Mathematics

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(Chapter -2) (Polynomials) (Exercise 2.3)

(Class - 9)

## Question 1:

Determine which of the following polynomials has  $x + 1$  a factor:

(i)  $x^3 + x^2 + x + 1$

(ii)  $x^4 + x^3 + x^2 + x + 1$

(iii)  $x^4 + 3x^3 + 3x^2 + x + 1$

(iv)  $x^3 - x^2 - (2 + \sqrt{2})x + \sqrt{2}$

## Answer 1:

(i) Let  $p(x) = x^3 + x^2 + x + 1$

Putting  $x + 1 = 0$ , we get,  $x = -1$

Using remainder theorem, when  $p(x) = x^3 + x^2 + x + 1$  is divided by  $x + 1$ , remainder is given by  $p(-1)$

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

$$= -1 + 1 - 1 + 1 = 0$$

Since, remainder  $p(-1) = 0$ , hence  $x + 1$  is a factor of  $x^3 + x^2 + x + 1$ .

(ii) Let  $p(x) = x^4 + x^3 + x^2 + x + 1$

Putting  $x + 1 = 0$ , we get,  $x = -1$

Using remainder theorem, when  $p(x) = x^4 + x^3 + x^2 + x + 1$  is divided by  $x + 1$ , remainder is given by  $p(-1)$

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

$$= 1 - 1 + 1 - 1 + 1 = 1$$

Since, remainder  $p(-1) \neq 0$ , hence  $x + 1$  is not a factor of  $x^4 + x^3 + x^2 + x + 1$ .

(iii) Let  $p(x) = x^4 + 3x^3 + 3x^2 + x + 1$

Putting  $x + 1 = 0$ , we get,  $x = -1$

Using remainder theorem, when  $p(x) = x^4 + 3x^3 + 3x^2 + x + 1$  is divided by  $x + 1$ , remainder is given by  $p(-1)$

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

$$= 1 - 3 + 3 - 1 + 1 = 1$$

Since, remainder  $p(-1) \neq 0$ , hence  $x + 1$  is not a factor of  $x^4 + 3x^3 + 3x^2 + x + 1$ .

(iv) Let  $p(x) = x^3 - x^2 - (2 + \sqrt{2})x + \sqrt{2}$

Putting  $x + 1 = 0$ , we get,  $x = -1$

Using remainder theorem, when  $p(x) = x^3 - x^2 - (2 + \sqrt{2})x + \sqrt{2}$  is divided by  $x + 1$ , remainder is given by  $p(-1)$

$$= (-1)^3 - (-1)^2 - (2 + \sqrt{2})(-1) + \sqrt{2}$$

$$= -1 - 1 + 2 + \sqrt{2} + \sqrt{2} = 2\sqrt{2}$$

Since, remainder  $p(-1) \neq 0$ , hence  $x + 1$  is not a factor of  $x^3 - x^2 - (2 + \sqrt{2})x + \sqrt{2}$ .

## Question 2:

Use the Factor Theorem to determine whether  $g(x)$  is a factor of  $p(x)$  in each of the following cases:

(i)  $p(x) = 2x^3 + x^2 - 2x - 1$ ,  $g(x) = x + 1$

(ii)  $p(x) = x^3 + 3x^2 + 3x + 1$ ,  $g(x) = x + 2$

(iii)  $p(x) = x^3 - 4x^2 + x + 6$ ,  $g(x) = x - 3$

## Answer 2:

(i)  $p(x) = 2x^3 + x^2 - 2x - 1$  and  $g(x) = x + 1$

Putting  $x + 1 = 0$ , we get,  $x = -1$

Using remainder theorem, when  $p(x) = 2x^3 + x^2 - 2x - 1$  is divided by  $g(x) = x + 1$ , remainder is given by  $p(-1)$

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

$$= -1 + 1 - 1 + 1 = 0$$

Since, remainder  $p(-1) = 0$ , hence  $g(x)$  is a factor of  $p(x)$ .

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