

Mathematics

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

(Class - 9)

Question 3:

Verify whether the following are zeroes of the polynomial, indicated against them.

(i) $p(x) = 3x + 1$; $x = -\frac{1}{3}$

(iii) $p(x) = x^2 - 1$; $x = 1, -1$

(v) $p(x) = x^2$; $x = 0$

(vii) $p(x) = 3x^2 - 1$; $x = -\frac{1}{\sqrt{3}}, \frac{1}{\sqrt{3}}$

(ii) $p(x) = 5x - \pi$; $x = \frac{4}{5}$

(iv) $p(x) = (x + 1)(x - 2)$; $x = -1, 2$

(vi) $p(x) = lx + m$; $x = -\frac{m}{l}$

(viii) $p(x) = 2x + 1$; $x = \frac{1}{2}$

Answer 3:

(i) $p(x) = 3x + 1$; $x = -\frac{1}{3}$

Putting $x = -\frac{1}{3}$, we get

$$p\left(-\frac{1}{3}\right) = 3 \times \left(-\frac{1}{3}\right) + 1 = -1 + 1 = 0$$

Here, $p\left(-\frac{1}{3}\right) = 0$, Hence, $x = -\frac{1}{3}$ is a solution of $p(x) = 3x + 1$.

(ii) $p(x) = 5x - \pi$; $x = \frac{4}{5}$

Putting $x = \frac{4}{5}$, we get

$$p\left(\frac{4}{5}\right) = 5 \times \left(\frac{4}{5}\right) - \pi = 4 - \pi$$

Here, $p\left(\frac{4}{5}\right) \neq 0$, Hence, $x = \frac{4}{5}$ is not a solution of $p(x) = 5x - \pi$.

(iii) $p(x) = x^2 - 1$; $x = 1, -1$

Putting $x = 1$, we get

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

Here, $p(1) = 0$, Hence, $x = 1$ is a solution of $p(x) = x^2 - 1$.

Putting $x = -1$, we get

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

Here, $p(-1) = 0$, Hence, $x = -1$ is a solution of $p(x) = x^2 - 1$.

(iv) $p(x) = (x + 1)(x - 2)$; $x = -1, 2$

Putting $x = -1$, we get

$$p(-1) = (-1 + 1)(-1 - 2) = 0 \times (-3) = 0$$

Here, $p(-1) = 0$, Hence, $x = -1$ is a solution of $p(x) = (x + 1)(x - 2)$.

Putting $x = 2$, we get

$$p(2) = (2 + 1)(2 - 2) = 3 \times 0 = 0$$

Here, $p(2) = 0$, Hence, $x = 2$ is a solution of $p(x) = (x + 1)(x - 2)$.

(v) $p(x) = x^2$; $x = 0$

Putting $x = 0$, we get

$$p(0) = (0)^2 = 0$$

Here, $p(0) = 0$, Hence, $x = 0$ is a solution of $p(x) = x^2$.

(vi) $p(x) = lx + m$; $x = -\frac{m}{l}$

Putting $x = -\frac{m}{l}$, we get

$$p\left(-\frac{m}{l}\right) = l \times \left(-\frac{m}{l}\right) + m = -m + m = 0$$

Here, $p\left(-\frac{m}{l}\right) = 0$, Hence, $x = -\frac{m}{l}$ is a solution of $p(x) = lx + m$.

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Karin Nielsen-Saines



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