

# 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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## **Table of Contents Chapter 2 Solutions**

1. Understanding the eBook Chapter 2 Solutions
  - The Rise of Digital Reading Chapter 2 Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 2 Solutions
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Chapter 2 Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 2 Solutions
  - Personalized Recommendations
  - Chapter 2 Solutions User Reviews and Ratings
  - Chapter 2 Solutions and Bestseller Lists
5. Accessing Chapter 2 Solutions Free and Paid eBooks
  - Chapter 2 Solutions Public Domain eBooks

- Chapter 2 Solutions eBook Subscription Services
- Chapter 2 Solutions Budget-Friendly Options
- 6. Navigating Chapter 2 Solutions eBook Formats
  - ePub, PDF, MOBI, and More
  - Chapter 2 Solutions Compatibility with Devices
  - Chapter 2 Solutions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Chapter 2 Solutions
  - Highlighting and Note-Taking Chapter 2 Solutions
  - Interactive Elements Chapter 2 Solutions
- 8. Staying Engaged with Chapter 2 Solutions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Chapter 2 Solutions
- 9. Balancing eBooks and Physical Books Chapter 2 Solutions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Chapter 2 Solutions
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 2 Solutions
  - Setting Reading Goals Chapter 2 Solutions
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 2 Solutions
  - Fact-Checking eBook Content of Chapter 2 Solutions
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks

## 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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