

Chapter- 4: Quadratic Equations

Exercise 4.1 (Page 73 of Grade 10 NCERT)

Q1. Check whether the followings are quadratic equations:

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

ii) $(x^2 - 2x) = (-2)(3-x)$

iii) $(x-2)(x+1) = (x-1)(x+3)$

iv) $(x-3)(2x+1) = x(x+5)$

v) $(2x-1)(x-3) = (x+5)(x-1)$

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

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

viii) $x^2 - 4x - x + 1 = (x-2)^2$

Difficulty Level: Easy

Reasoning:

Standard form of a quadratic equation is $ax^2 + bx + c = 0$ where $a \neq 0$ and degree of quadratic equation is 2.

What is the unknown?

To check whether the given equation is a quadratic equation.

Known:

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

Solution:

$$\text{Since } (a+b)^2 = a^2 + b^2 + 2ab$$

$$x^2 + 2x + 1 = (2x - 6)$$

$$x^2 + 2x + 1 - (2x - 6) = 0$$

$$x^2 + 2x + 1 - 2x + 6$$

$$x^2 + 7 = 0$$

Here, the degree of $x^2 + 7 = 0$ is 2.

∴ It is a quadratic equation.

Chapter 4 Solutions

William Fixen, Diane K. Lavett



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Table of Contents Chapter 4 Solutions

1. Understanding the eBook Chapter 4 Solutions
 - The Rise of Digital Reading Chapter 4 Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 4 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 eBook Platform
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 4 Solutions
 - Personalized Recommendations
 - Chapter 4 Solutions User Reviews and Ratings

- Chapter 4 Solutions and Bestseller Lists
- 5. Accessing Chapter 4 Solutions Free and Paid eBooks
 - Chapter 4 Solutions Public Domain eBooks
 - Chapter 4 Solutions eBook Subscription Services
 - Chapter 4 Solutions Budget-Friendly Options
- 6. Navigating Chapter 4 Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 4 Solutions Compatibility with Devices
 - Chapter 4 Solutions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 4 Solutions
 - Highlighting and Note-Taking Chapter 4 Solutions
 - Interactive Elements Chapter 4 Solutions
- 8. Staying Engaged with Chapter 4 Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 4 Solutions
- 9. Balancing eBooks and Physical Books Chapter 4 Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 4 Solutions
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 4 Solutions
 - Setting Reading Goals Chapter 4 Solutions
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 4 Solutions
 - Fact-Checking eBook Content of Chapter 4 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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