

CHAPTER 4

Polynomial Equations and Inequalities

Getting Started, pp. 194–195

1. a) $5x - 7 = -3x + 17$

$$5x + 3x = 17 + 7$$

$$8x = 24$$

$$x = 3$$

b) $12x - 9 - 6x = 5 + 3x + 1$

$$12x - 6x - 3x = 5 + 1 + 9$$

$$3x = 15$$

$$x = 5$$

c) $2(3x - 5) = -4(3x - 2)$

$$6x - 10 = -12x + 8$$

$$6x + 12x = 8 + 10$$

$$18x = 18$$

$$x = 1$$

d) $\frac{2x + 5}{3} = 7 - \frac{x}{4}$

$$12\left(\frac{2x + 5}{3} = 7 - \frac{x}{4}\right)$$

$$4(2x + 5) = 84 - 3x$$

$$8x + 20 = 84 - 3x$$

$$8x + 3x = 84 - 20$$

$$11x = 64$$

$$x = \frac{64}{11}$$

2. a) $x^3 + x^2 - 30x = x(x^2 + x - 30)$
 $= x(x + 6)(x - 5)$

b) $x^3 - 64 = (x - 4)(x^2 + 4x + 16)$

c) $24x^2 + 81x = 3x(8x^2 + 27)$
 $= 3x(2x + 3)(4x^2 - 6x + 9)$

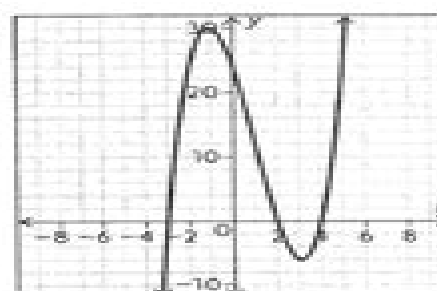
d) $2x^3 + 7x^2 - 18x - 63$

$$= x^2(2x + 7) - 9(2x + 7)$$

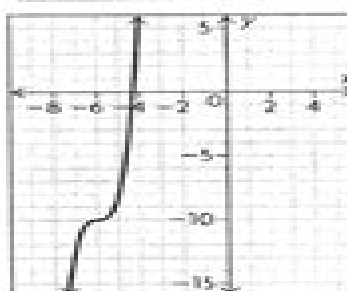
$$= (x^2 - 9)(2x + 7)$$

$$= (x + 3)(x - 3)(2x + 7)$$

3. a)



b)



4. The graph crosses the x -axis at $x = 2$ and at $x = 5$. The roots of the equation are 2 and 5.

5. a) $2x^2 = 18$

$$x^2 = 9$$

$$x = \pm\sqrt{9}$$

$$x = \pm 3$$

The roots are 3 and -3 .

b) $(x^2 + 8x - 20) = 0$

$$(x + 10)(x - 2) = 0$$

$$(x + 10) = 0 \text{ and } (x - 2) = 0$$

$$x = -10, 2$$

The roots are -10 and 2 .

c) $6x^2 = 11x + 10$

$$6x^2 - 11x - 10 = 0$$

$$6x^2 - 15x + 4x - 10 = 0$$

$$3x(2x - 5) + 2(2x - 5) = 0$$

$$(3x + 2)(2x - 5) = 0$$

Chapter 4 Nelson Solutions Manual

Hope Viner Samborn



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Instructor's Manual with Abbreviated Solutions to Accompany University Physics Alvin Hudson, 1982

Instructor's Solutions Manual for Kaufmann's College Algebra, Fourth Edition Cheryl V. Cantwell, 1999

Solutions Manual and Teaching Guide with Tests Janet Horne, Sylvia Hearing, 2001-08-07 **Resources in**

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Table of Contents Chapter 4 Nelson Solutions Manual

1. Understanding the eBook Chapter 4 Nelson Solutions Manual
 - The Rise of Digital Reading Chapter 4 Nelson Solutions Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 4 Nelson Solutions Manual
 - 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 4 Nelson Solutions Manual
 - User-Friendly Interface

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

12. Sourcing Reliable Information of Chapter 4 Nelson Solutions Manual
 - Fact-Checking eBook Content of Chapter 4 Nelson Solutions Manual
 - 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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