

Station 3: Solving Quadratic Equations

Part A: Complete each problem by FACTORING.

1. Find the real zeros of $f(x) = 2x^2 + 15x + 18$.

$$0 = 2x^2 + 15x + 18$$

$$0 = (2x + 3)(x + 6)$$

$$x = -\frac{3}{2} \text{ or } -6$$

2. Solve $9x^2 - 10x + 5 = 0$.

$$9x^2 - 10x - 5 = 0$$

$$(3x - 5)(3x + 1) = 0$$

$$x = \frac{5}{3} \text{ or } -\frac{1}{3}$$

3. A box has a base that measures 3 inches by 5 inches, and a height of 11 inches. Increasing each dimension of the base by the same amount causes the volume of the box to increase by 528 cubic inches.

- a. Using x as the amount that each dimension of the base is increased by, write an expression for the volume of the box. Let x be the increase in each dimension of the base in inches.

$$11(3+x)(5+x)$$

- b. Use the original measurements and the expression you wrote in part (a) to write an equation that can be used to find the amount by which each dimension of the base increased.

$$(3)(5)(11) + 528 = 11(3+x)(5+x)$$

- c. Solve the equation in part (b) and interpret the solutions in the context of the problem.

$$165 + 528 = 11(3+x)(5+x)$$

$$693 = 11(3+x)(5+x)$$

$$63 = (3+x)(5+x)$$

$$15 + 8x + x^2 = 63$$

$$x^2 + 8x - 48 = 0$$

$$(x+12)(x-4) = 0$$

$$x = -12 \text{ or } 4$$

Each dimension of the base is increased by 4 in.

Part B: Complete each problem.

4. Consider $9x^2 - 12x + 9 = -50$.

- a. Determine how many and what type of solutions the equation has.

$$b^2 - 4ac = (-12)^2 - 4(9)(9) = 144 - (36)(9) < 0$$

2 imaginary solutions

- b. Find those solutions by completing the square.

$$9x^2 - 12x + 9 = -50$$

$$9x^2 - 12x = -59$$

$$x^2 - \frac{4}{3}x = -\frac{59}{9}$$

$$x^2 - \frac{4}{3}x + \frac{16}{9} = -\frac{59}{9} + \frac{16}{9}$$

$$x^2 - \frac{4}{3}x + \frac{16}{9} = -\frac{43}{9} + \frac{16}{9}$$

$$(x - \frac{2}{3})^2 = -\frac{27}{9}$$

$$x - \frac{2}{3} = \pm \frac{\sqrt{27}}{3}$$

$$x = \frac{2}{3} \pm \frac{\sqrt{27}}{3}$$

5. A rocket is shot into the air from a 168-foot-high platform with an initial velocity of 68 feet per second.

- a. Use the quadratic formula to determine how much time the rocket is in the air before landing at ground level.

$$h(t) = -16t^2 + 68t + 168$$

$$t = \frac{-68 \pm \sqrt{68^2 - 4(-16)(168)}}{2(-16)}$$

the rocket landed after 7 seconds

- b. Could the factoring method have been used to answer the question above? Explain.

Yes, because solutions are rational

Cumulative Review Chapters Answers Algebra 1

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Elementary Algebra Marvin L. Bittinger, David Ellenbogen, 1997-09 C 1 GIFT 5 18 2010 25 00 **Intermediate Algebra** Elaine Hubbard, 1999

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Table of Contents Cumulative Review Chapters Answers Algebra 1

1. Understanding the eBook Cumulative Review Chapters Answers Algebra 1
 - The Rise of Digital Reading Cumulative Review Chapters Answers Algebra 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Cumulative Review Chapters Answers Algebra 1
 - 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 Cumulative Review Chapters Answers Algebra 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Cumulative Review Chapters Answers Algebra 1
 - Personalized Recommendations
 - Cumulative Review Chapters Answers Algebra 1 User Reviews and Ratings
 - Cumulative Review Chapters Answers Algebra 1 and Bestseller Lists
5. Accessing Cumulative Review Chapters Answers Algebra 1 Free and Paid eBooks
 - Cumulative Review Chapters Answers Algebra 1 Public Domain eBooks
 - Cumulative Review Chapters Answers Algebra 1 eBook Subscription Services
 - Cumulative Review Chapters Answers Algebra 1 Budget-Friendly Options

6. Navigating Cumulative Review Chapters Answers Algebra 1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Cumulative Review Chapters Answers Algebra 1 Compatibility with Devices
 - Cumulative Review Chapters Answers Algebra 1 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Cumulative Review Chapters Answers Algebra 1
 - Highlighting and Note-Taking Cumulative Review Chapters Answers Algebra 1
 - Interactive Elements Cumulative Review Chapters Answers Algebra 1
8. Staying Engaged with Cumulative Review Chapters Answers Algebra 1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Cumulative Review Chapters Answers Algebra 1
9. Balancing eBooks and Physical Books Cumulative Review Chapters Answers Algebra 1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Cumulative Review Chapters Answers Algebra 1
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Cumulative Review Chapters Answers Algebra 1
 - Setting Reading Goals Cumulative Review Chapters Answers Algebra 1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Cumulative Review Chapters Answers Algebra 1
 - Fact-Checking eBook Content of Cumulative Review Chapters Answers Algebra 1
 - 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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