

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.

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

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

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

$$14 = x^2 + 8x + 15$$

$$x^2 + 8x - 4 = 0$$

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

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

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.

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

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

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

$$x - \frac{2}{3} = \pm \frac{\sqrt{145}}{3}$$

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

$$(x - \frac{2}{3})^2 = -\frac{55}{9}$$

$$x - \frac{2}{3} = \pm \frac{\sqrt{145}}{3}$$

$$x = \frac{2}{3} \pm \frac{\sqrt{145}}{3}$$

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.

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

$$t = \frac{-68 \pm \sqrt{68^2 - 4(-16)(168)}}{2(-16)} = -1.5 \text{ or } 7$$

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

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RS Peters



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Table of Contents Algebra 1 Cumulative Assessment Answers

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

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