

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 $9x^2 - 12x + 98 = -50$.

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

$$b^2 - 4ac = (-12)^2 - 4(9)(98) = 144 - (3528) < 0$$

2 imaginary solutions

- b. Find those solutions by completing the square.

$$9x^2 - 12x + 98 = -50$$

$$9x^2 - 12x = -148$$

$$x^2 - \frac{4}{3}x = -\frac{123}{9}$$

$$x^2 - \frac{4}{3}x + \frac{4}{9} = -\frac{123}{9} + \frac{4}{9}$$

$$(x - \frac{2}{3})^2 = -\frac{119}{9}$$

$$x - \frac{2}{3} = \pm \frac{\sqrt{119}}{3}$$

$$x = \frac{2}{3} \pm \frac{\sqrt{119}}{3}$$

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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**McDougal Littell Incorporated, Ron
Larson**



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Table of Contents Mcdougal Algebra 1 Cumulative Test Answers Assessment

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

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