

Station 3: Solving Quadratic Equations

Part A: Complete each problem by FACTORING.

1. Find the real zeros of $f(x) = 2x^2 + 15x + 10$.

$$0 = 2x^2 + 15x + 10$$

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

$$x = -\frac{5}{2} \text{ or } -2$$

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

$$9x^2 - 12x - 3 = 0$$

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

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

4. 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.

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

$$3 \cdot 5 + 5 = (x+3)(x+5)$$

$$15 + 5 = x^2 + 8x + 15$$

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

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

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

each dimension of the base is increased by 4 in.

Part B: Complete each problem.

5. 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.

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

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

$$x^2 - \frac{4}{3}x = -\frac{148}{9}$$

$$x^2 - \frac{4}{3}x + \frac{4}{9} = -\frac{148}{9} + \frac{4}{9}$$

$$(x - \frac{2}{3})^2 = -\frac{144}{9}$$

$$x - \frac{2}{3} = \pm \frac{12}{3}i$$

$$x = \frac{2}{3} \pm 4i$$

6. 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.

$$h(t) = -16t^2 + 128t + 168$$

$$h(t) = -16t^2 + 128t + 168$$

$$t = \frac{-128 \pm \sqrt{128^2 - 4(-16)(168)}}{2(-16)} = -1.5 \text{ or } 7$$

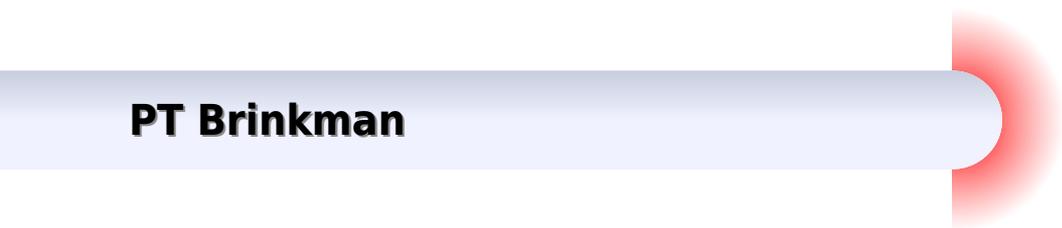
the rocket landed after 7 seconds

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

Yes, because solutions are rational

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PT Brinkman



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Table of Contents Inequalities Cumulative Test Answers Algebra 1 Mcdougal

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

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