

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.

$$b^2 - 4ac = (-12)^2 - 4(9)(98) = 144 - (38)(98) < 0$$

*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.

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

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

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

*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*

# Chapter5 Test Algebra 1 Answers

**Angie Papple Johnston**



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## **Table of Contents Chapter5 Test Algebra 1 Answers**

1. Understanding the eBook Chapter5 Test Algebra 1 Answers
  - The Rise of Digital Reading Chapter5 Test Algebra 1 Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Chapter5 Test Algebra 1 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 Chapter5 Test Algebra 1 Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter5 Test Algebra 1 Answers
  - Personalized Recommendations

- Chapter5 Test Algebra 1 Answers User Reviews and Ratings
- Chapter5 Test Algebra 1 Answers and Bestseller Lists
- 5. Accessing Chapter5 Test Algebra 1 Answers Free and Paid eBooks
  - Chapter5 Test Algebra 1 Answers Public Domain eBooks
  - Chapter5 Test Algebra 1 Answers eBook Subscription Services
  - Chapter5 Test Algebra 1 Answers Budget-Friendly Options
- 6. Navigating Chapter5 Test Algebra 1 Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Chapter5 Test Algebra 1 Answers Compatibility with Devices
  - Chapter5 Test Algebra 1 Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Chapter5 Test Algebra 1 Answers
  - Highlighting and Note-Taking Chapter5 Test Algebra 1 Answers
  - Interactive Elements Chapter5 Test Algebra 1 Answers
- 8. Staying Engaged with Chapter5 Test Algebra 1 Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Chapter5 Test Algebra 1 Answers
- 9. Balancing eBooks and Physical Books Chapter5 Test Algebra 1 Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Chapter5 Test Algebra 1 Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter5 Test Algebra 1 Answers
  - Setting Reading Goals Chapter5 Test Algebra 1 Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter5 Test Algebra 1 Answers
  - Fact-Checking eBook Content of Chapter5 Test Algebra 1 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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