

### Station 3: Solving Quadratic Equations

#### Part A: Complete each problem by FACTORING.

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

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

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

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

$$x = -\frac{6}{11} \text{ or } -\frac{5}{9}$$

$$9x^2 - 12x - 5 = 0$$

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

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

2. Solve  $245x^2 - 405 = 0$ .

$$+1x^2 - \frac{9}{5} = 0$$

$$(7x + 9)(7x - 9) = 0$$

$$x = \pm \frac{9}{7}$$

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.

$$b^2 - 4ac = (-12)^2 - 4(9)(98) = 144 - (36)(98) < 0$$

2 imaginary solutions

- b. Find those solutions by completing the square.

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

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

$$x^2 - \frac{4}{3}x = -\frac{122}{9}$$

$$x^2 - \frac{4}{3}x + \frac{16}{9} = -\frac{122}{9} + \frac{16}{9}$$

$$(x - \frac{2}{3})^2 = -\frac{106}{9}$$

$$x - \frac{2}{3} = \pm \frac{\sqrt{106}}{3}$$

$$x = \frac{2}{3} \pm \frac{\sqrt{106}}{3}$$

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.

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

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

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

For HW, complete Part 2 of the review packet.

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## **Table of Contents Standard Progress Test 2 Algebra 1 Answers**

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

- Personalized Recommendations
- Standard Progress Test 2 Algebra 1 Answers User Reviews and Ratings
- Standard Progress Test 2 Algebra 1 Answers and Bestseller Lists
- 5. Accessing Standard Progress Test 2 Algebra 1 Answers Free and Paid eBooks
  - Standard Progress Test 2 Algebra 1 Answers Public Domain eBooks
  - Standard Progress Test 2 Algebra 1 Answers eBook Subscription Services
  - Standard Progress Test 2 Algebra 1 Answers Budget-Friendly Options
- 6. Navigating Standard Progress Test 2 Algebra 1 Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Standard Progress Test 2 Algebra 1 Answers Compatibility with Devices
  - Standard Progress Test 2 Algebra 1 Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Standard Progress Test 2 Algebra 1 Answers
  - Highlighting and Note-Taking Standard Progress Test 2 Algebra 1 Answers
  - Interactive Elements Standard Progress Test 2 Algebra 1 Answers
- 8. Staying Engaged with Standard Progress Test 2 Algebra 1 Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Standard Progress Test 2 Algebra 1 Answers
- 9. Balancing eBooks and Physical Books Standard Progress Test 2 Algebra 1 Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Standard Progress Test 2 Algebra 1 Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Standard Progress Test 2 Algebra 1 Answers
  - Setting Reading Goals Standard Progress Test 2 Algebra 1 Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Standard Progress Test 2 Algebra 1 Answers

- Fact-Checking eBook Content of Standard Progress Test 2 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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