

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

$$x = \frac{-(-10) \pm \sqrt{(-10)^2 - 4(9)(5)}}{2(9)}$$

$$x = \frac{10 \pm \sqrt{100 - 180}}{18}$$

$$x = \frac{10 \pm \sqrt{-80}}{18}$$

$$x = \frac{10 \pm 4i\sqrt{5}}{18}$$

$$x = \frac{5 \pm 2i\sqrt{5}}{9}$$

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.

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

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

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

$$63 = x^2 + 8x + 15$$

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

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

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

Each dimension of the base is increased by 4 in.

Part B: Complete each problem.

5. Consider $9x^2 - 12x + 9 = -50$.

- 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.

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

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

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

$$x^2 - \frac{4}{3}x + \frac{16}{9} = -\frac{59}{9} + \frac{16}{9}$$

$$x^2 - \frac{4}{3}x + \frac{16}{9} = -\frac{59}{9} + \frac{16}{9}$$

$$(x - \frac{2}{3})^2 = -\frac{43}{9}$$

$$x - \frac{2}{3} = \pm \frac{\sqrt{43}}{3}$$

$$x = \frac{2}{3} \pm \frac{\sqrt{43}}{3}$$

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.

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

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

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

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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Table of Contents Algebra Nation Section 1 Answers

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

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