

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

- 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.

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

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

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

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

$$x^2 - \frac{4}{3}x + \frac{16}{9} = -\frac{43}{9} + \frac{16}{9}$$

$$(x - \frac{2}{3})^2 = -\frac{27}{9}$$

$$x - \frac{2}{3} = \pm \frac{\sqrt{27}}{3}$$

$$x = \frac{2}{3} \pm \frac{\sqrt{27}}{3}$$

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.

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

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

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

Algebra Nation Section Test Answer Key

Rachel Sandford



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Table of Contents Algebra Nation Section Test Answer Key

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

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