

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.

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

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

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

$$14 = x^2 + 8x + 15$$

$$x^2 + 8x - 4 = 0$$

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

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

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.

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

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

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

$$x - \frac{2}{3} = \pm \frac{\sqrt{145}}{3}$$

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

$$(x - \frac{2}{3})^2 = -\frac{55}{9}$$

$$x - \frac{2}{3} = \pm \frac{\sqrt{145}}{3}$$

$$x = \frac{2}{3} \pm \frac{\sqrt{145}}{3}$$

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.

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

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

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

Algebra Nation Answer Key For Teachers

David Kirk



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Table of Contents Algebra Nation Answer Key For Teachers

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

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