

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.

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

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

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

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Table of Contents Answers For Geometry 1a For E2020

1. Understanding the eBook Answers For Geometry 1a For E2020
 - The Rise of Digital Reading Answers For Geometry 1a For E2020
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Geometry 1a For E2020
 - 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 Answers For Geometry 1a For E2020
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Geometry 1a For E2020
 - Personalized Recommendations
 - Answers For Geometry 1a For E2020 User Reviews and Ratings
 - Answers For Geometry 1a For E2020 and Bestseller Lists
5. Accessing Answers For Geometry 1a For E2020 Free and Paid eBooks
 - Answers For Geometry 1a For E2020 Public Domain eBooks
 - Answers For Geometry 1a For E2020 eBook Subscription Services
 - Answers For Geometry 1a For E2020 Budget-Friendly Options
6. Navigating Answers For Geometry 1a For E2020 eBook Formats

- ePub, PDF, MOBI, and More
- Answers For Geometry 1a For E2020 Compatibility with Devices
- Answers For Geometry 1a For E2020 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For Geometry 1a For E2020
 - Highlighting and Note-Taking Answers For Geometry 1a For E2020
 - Interactive Elements Answers For Geometry 1a For E2020
- 8. Staying Engaged with Answers For Geometry 1a For E2020
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers For Geometry 1a For E2020
- 9. Balancing eBooks and Physical Books Answers For Geometry 1a For E2020
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For Geometry 1a For E2020
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answers For Geometry 1a For E2020
 - Setting Reading Goals Answers For Geometry 1a For E2020
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answers For Geometry 1a For E2020
 - Fact-Checking eBook Content of Answers For Geometry 1a For E2020
 - 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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