

Station 3: Solving Quadratic Equations

Part A: Complete each problem by FACTORING.

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

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

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

$$x = -\frac{3}{2} \text{ or } -6$$

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

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

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

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

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.

$$3 \cdot 5 \cdot 11 + 528 = 11(x+3)(x+5)$$

$$3 \cdot 5 + 48 = (x+3)(x+5)$$

$$14 + 48 = x^2 + 8x + 15$$

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

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

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

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.

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

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

$$x^2 - \frac{4}{3}x = -\frac{148}{9}$$

$$x^2 - \frac{4}{3}x + \frac{4}{9} = -\frac{148}{9} + \frac{4}{9}$$

$$(x - \frac{2}{3})^2 = -\frac{144}{9}$$

$$x - \frac{2}{3} = \pm \frac{12}{3}i$$

$$x = \frac{2}{3} \pm 4i$$

6. A rocket is shot into the air from a 168-foot-high platform with an initial velocity of 88 feet per second.

a. Use the quadratic formula to determine how much time the rocket is in the air before landing at ground level.

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

$$h(t) = -16t^2 + 88t + 168$$

$$t = \frac{-88 \pm \sqrt{88^2 - 4(-16)(168)}}{2(-16)} = -1.5 \text{ or } 7$$

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 Focus Florida Geometry Answers Study Packet 1

1. Understanding the eBook Focus Florida Geometry Answers Study Packet 1
 - The Rise of Digital Reading Focus Florida Geometry Answers Study Packet 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Focus Florida Geometry Answers Study Packet 1
 - 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 Focus Florida Geometry Answers Study Packet 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Focus Florida Geometry Answers Study Packet 1
 - Personalized Recommendations
 - Focus Florida Geometry Answers Study Packet 1 User Reviews and Ratings
 - Focus Florida Geometry Answers Study Packet 1 and Bestseller Lists
5. Accessing Focus Florida Geometry Answers Study Packet 1 Free and Paid eBooks

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