

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.

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

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

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

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

Answer It E2020 For Alegbra 1

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Table of Contents Answer It E2020 For Alegbra 1

1. Understanding the eBook Answer It E2020 For Alegbra 1
 - The Rise of Digital Reading Answer It E2020 For Alegbra 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer It E2020 For Alegbra 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 Answer It E2020 For Alegbra 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer It E2020 For Alegbra 1
 - Personalized Recommendations
 - Answer It E2020 For Alegbra 1 User Reviews and Ratings
 - Answer It E2020 For Alegbra 1 and Bestseller Lists
5. Accessing Answer It E2020 For Alegbra 1 Free and Paid eBooks
 - Answer It E2020 For Alegbra 1 Public Domain eBooks
 - Answer It E2020 For Alegbra 1 eBook Subscription Services

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