

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.

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

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

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

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

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

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

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

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

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.

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

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

$$= -1.5 \text{ or } 7$$

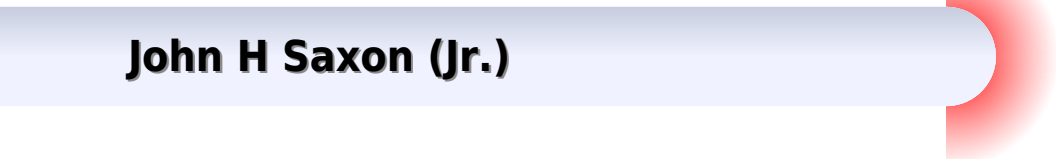
the rocket landed after 7 seconds

- b. Could the factoring method have been used to answer the question above? Explain.

Yes, because solutions are rational

Algebra 2 E2020 Answer Key

John H Saxon (Jr.)



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Table of Contents Algebra 2 E2020 Answer Key

1. Understanding the eBook Algebra 2 E2020 Answer Key
 - The Rise of Digital Reading Algebra 2 E2020 Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra 2 E2020 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 2 E2020 Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra 2 E2020 Answer Key
 - Personalized Recommendations
 - Algebra 2 E2020 Answer Key User Reviews and Ratings
 - Algebra 2 E2020 Answer Key and Bestseller Lists
5. Accessing Algebra 2 E2020 Answer Key Free and Paid eBooks
 - Algebra 2 E2020 Answer Key Public Domain eBooks
 - Algebra 2 E2020 Answer Key eBook Subscription Services
 - Algebra 2 E2020 Answer Key Budget-Friendly Options
6. Navigating Algebra 2 E2020 Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Algebra 2 E2020 Answer Key Compatibility with Devices
 - Algebra 2 E2020 Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Algebra 2 E2020 Answer Key
 - Highlighting and Note-Taking Algebra 2 E2020 Answer Key
 - Interactive Elements Algebra 2 E2020 Answer Key
8. Staying Engaged with Algebra 2 E2020 Answer Key

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Algebra 2 E2020 Answer Key
- 9. Balancing eBooks and Physical Books Algebra 2 E2020 Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Algebra 2 E2020 Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Algebra 2 E2020 Answer Key
 - Setting Reading Goals Algebra 2 E2020 Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Algebra 2 E2020 Answer Key
 - Fact-Checking eBook Content of Algebra 2 E2020 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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