

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.

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

$$693 = 11(x^2 + 8x + 15)$$

$$63 = x^2 + 8x + 15$$

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

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

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

Each dimension of the base is increased by 4 in.

Part B: Complete each problem.

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.

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

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

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

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

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

$$(x - \frac{2}{3})^2 = -\frac{43}{9}$$

$$x - \frac{2}{3} = \pm \frac{\sqrt{43}}{3}$$

$$x = \frac{2}{3} \pm \frac{\sqrt{43}}{3}$$

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 E2020 Cumulative Exam Financial Mathematics

1. Understanding the eBook Answers For E2020 Cumulative Exam Financial Mathematics
 - The Rise of Digital Reading Answers For E2020 Cumulative Exam Financial Mathematics
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For E2020 Cumulative Exam Financial Mathematics
 - 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 E2020 Cumulative Exam Financial Mathematics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For E2020 Cumulative Exam Financial Mathematics
 - Personalized Recommendations
 - Answers For E2020 Cumulative Exam Financial Mathematics User Reviews and Ratings
 - Answers For E2020 Cumulative Exam Financial Mathematics and Bestseller Lists

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