

Station 3: Solving Quadratic Equations

Part A: Complete each problem by FACTORING.

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

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

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

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

$$x = -\frac{6}{11} \text{ or } -\frac{5}{9}$$

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

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

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

2. Solve $245x^2 - 405 = 0$.

$$+ 4x^2 - \frac{5}{7} = 0$$

$$(7x + 9)(7x - 9) = 0$$

$$x = \pm \frac{9}{7}$$

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.

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

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

$$15 + 5 = x^2 + 8x + 15$$

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

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

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

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.

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

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

$$x^2 - \frac{4}{3}x = -\frac{122}{9}$$

$$x^2 - \frac{4}{3}x + \frac{4}{9} = -\frac{122}{9} + \frac{4}{9}$$

$$(x - \frac{2}{3})^2 = -\frac{118}{9}$$

$$x - \frac{2}{3} = \pm \frac{\sqrt{118}}{3}$$

$$x = \frac{2}{3} \pm \frac{\sqrt{118}}{3}$$

6. 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

For HW, complete Part 2 of the review packet.

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Table of Contents Modern Drama Study Unit Test E2020 Answers

1. Understanding the eBook Modern Drama Study Unit Test E2020 Answers
 - The Rise of Digital Reading Modern Drama Study Unit Test E2020 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Modern Drama Study Unit Test E2020 Answers
 - 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 Modern Drama Study Unit Test E2020 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Modern Drama Study Unit Test E2020 Answers
 - Personalized Recommendations
 - Modern Drama Study Unit Test E2020 Answers User Reviews and Ratings
 - Modern Drama Study Unit Test E2020 Answers and Bestseller Lists

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