

Station 3: Solving Quadratic Equations

Part A: Complete each problem by FACTORING.

1. Find the real zeros of  $f(x) = 2x^2 + 15x + 10$ .

$$0 = 2x^2 + 15x + 10$$

$$0 = (2x + 5)(x + 2)$$

$$x = -\frac{5}{2} \text{ or } -2$$

2. Solve  $9x^2 - 10x + 5 = 0$ .

$$9x^2 - 12x - 3 = 0$$

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

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

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.

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

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

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

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

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

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

*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.

$$b^2 - 4ac = (-12)^2 - 4(9)(98) = 144 - (3528) < 0$$

*2 imaginary solutions*

- b. Find those solutions by completing the square.

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

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

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

$$x^2 - \frac{4}{3}x + \frac{16}{9} = -\frac{148}{9} + \frac{16}{9}$$

$$(x - \frac{2}{3})^2 = -\frac{132}{9}$$

$$x - \frac{2}{3} = \pm \frac{2\sqrt{11}}{3}$$

$$x = \frac{2}{3} \pm \frac{2\sqrt{11}}{3}$$

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.

$$h(t) = -16t^2 + 128t + 168$$

$$h(t) = -16t^2 + 128t + 168$$

$$t = \frac{-128 \pm \sqrt{128^2 - 4(-16)(168)}}{2(-16)} = -1.5 \text{ or } 7$$

*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 1 Cumulative Review Answers Payair

**Marcel A. Müller**



**Algebra 1 Cumulative Review Answers Payair:**

Algebra 1 Cumulative Review Answers Payair: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have captivated audiences this year. Algebra 1 Cumulative Review Answers Payair : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Algebra 1 Cumulative Review Answers Payair : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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## **Table of Contents Algebra 1 Cumulative Review Answers Payair**

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

8. Staying Engaged with Algebra 1 Cumulative Review Answers Payair
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Algebra 1 Cumulative Review Answers Payair
9. Balancing eBooks and Physical Books Algebra 1 Cumulative Review Answers Payair
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Algebra 1 Cumulative Review Answers Payair
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Algebra 1 Cumulative Review Answers Payair
  - Setting Reading Goals Algebra 1 Cumulative Review Answers Payair
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Algebra 1 Cumulative Review Answers Payair
  - Fact-Checking eBook Content of Algebra 1 Cumulative Review Answers Payair
  - 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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