

Solving Quadratic Equations by Completing the Square

Solve each equation by taking the square root of each side. Round to the nearest tenth if necessary.

$$1. b^2 - 14b + 49 = 64$$

-1, 15

$$2. s^2 + 16s + 64 = 100$$

-18, 2

$$3. h^2 - 8h + 16 = 15$$

0.1, 7.9

$$4. a^2 + 6a + 9 = 27$$

-8.2, 2.2

$$5. p^2 - 20p + 100 = 28$$

4.7, 15.3

$$6. u^2 + 10u + 25 = 90$$

-14.5, 4.5

Find the value of c that makes each trinomial a perfect square.

$$7. t^2 - 24t + c$$

144

$$8. b^2 + 28b + c$$

196

$$9. y^2 + 40y + c$$

400

$$10. m^2 + 3m + c$$

$\frac{9}{4}$

$$11. g^2 - 9g + c$$

$\frac{81}{4}$

$$12. v^2 - v + c$$

$\frac{1}{4}$

Solve each equation by completing the square. Round to the nearest tenth if necessary.

$$13. w^2 - 14w + 24 = 0$$

2, 12

$$14. p^2 + 12p = 13$$

-13, 1

$$15. s^2 - 30s + 56 = -25$$

3, 27

$$16. v^2 + 8v + 9 = 0$$

-6.6, -1.4

$$17. t^2 - 10t + 6 = -7$$

1.5, 8.5

$$18. n^2 + 18n + 50 = 9$$

-15.3, -2.7

$$19. 3u^2 + 15u - 3 = 0$$

-5.2, 0.2

$$20. 4c^2 - 72 = 24c$$

-2.2, 8.2

$$21. 0.9a^2 + 5.4a - 4 = 0$$

$-6\frac{2}{3}, \frac{2}{3}$

$$22. 0.4h^2 + 0.8h = 0.2$$

-2.2, 0.2

$$23. \frac{1}{2}x^2 - \frac{1}{2}x - 10 = 0$$

-4, 5

$$24. \frac{1}{4}x^2 + \frac{3}{2}x - 2 = 0$$

-7.1, 1.1

BUSINESS For Exercises 25 and 26, use the following information.

Jaime owns a business making decorative boxes to store jewelry, mementos, and other valuables. The function $y = x^2 + 50x + 1800$ models the profit y that Jaime has made in month x for the first two years of his business.

25. Write an equation representing the month in which Jaime's profit is \$2400.

$x^2 + 50x + 1800 = 2400$

26. Use completing the square to find out in which month Jaime's profit is \$2400.

the tenth month

27. **PHYSICS** From a height of 256 feet above a lake on a cliff, Mikaela throws a rock out over the lake. The height H of the rock t seconds after Mikaela throws it is represented by the equation $H = -16t^2 + 32t + 256$. To the nearest tenth of a second, how long does it take the rock to reach the lake below? (*Hint:* Replace H with 0.) **5.1 s**

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Jin-Ying Zhang



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Table of Contents Algebra 1 Workbook Answer Key Mcdougal

1. Understanding the eBook Algebra 1 Workbook Answer Key Mcdougal
 - The Rise of Digital Reading Algebra 1 Workbook Answer Key Mcdougal
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra 1 Workbook Answer Key Mcdougal
 - 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 Workbook Answer Key Mcdougal
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra 1 Workbook Answer Key Mcdougal
 - Personalized Recommendations
 - Algebra 1 Workbook Answer Key Mcdougal User Reviews and Ratings
 - Algebra 1 Workbook Answer Key Mcdougal and Bestseller Lists

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 - ePub, PDF, MOBI, and More
 - Algebra 1 Workbook Answer Key Mcdougal Compatibility with Devices
 - Algebra 1 Workbook Answer Key Mcdougal Enhanced eBook Features
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 - Highlighting and Note-Taking Algebra 1 Workbook Answer Key Mcdougal
 - Interactive Elements Algebra 1 Workbook Answer Key Mcdougal
8. Staying Engaged with Algebra 1 Workbook Answer Key Mcdougal
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Algebra 1 Workbook Answer Key Mcdougal
9. Balancing eBooks and Physical Books Algebra 1 Workbook Answer Key Mcdougal
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Algebra 1 Workbook Answer Key Mcdougal
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Algebra 1 Workbook Answer Key Mcdougal
 - Setting Reading Goals Algebra 1 Workbook Answer Key Mcdougal
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Algebra 1 Workbook Answer Key Mcdougal
 - Fact-Checking eBook Content of Algebra 1 Workbook Answer Key Mcdougal
 - 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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web callisto is the most heavily cratered object in our solar system four more innermost moons are the the source of the dust that makes up jupiter s four faint rings the rest of jupiter s moons orbit much farther out from the planet the larger moons may be captured asteroids and the smaller ones are likely fragments from massive collisions

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web dec 20 2022 a moon is an object that orbits a planet or something else that is not a star besides planets moons can circle dwarf planets large asteroids and other bodies objects that orbit other objects are also called satellites so moons are sometimes called natural satellites people have launched many artificial satellites into orbit around

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