

## 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**

# Vista Workbook Answer Key Lesson 4

**CH Cherryholmes**



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