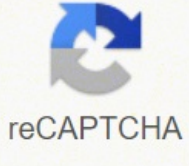




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Homework Practice Workbook

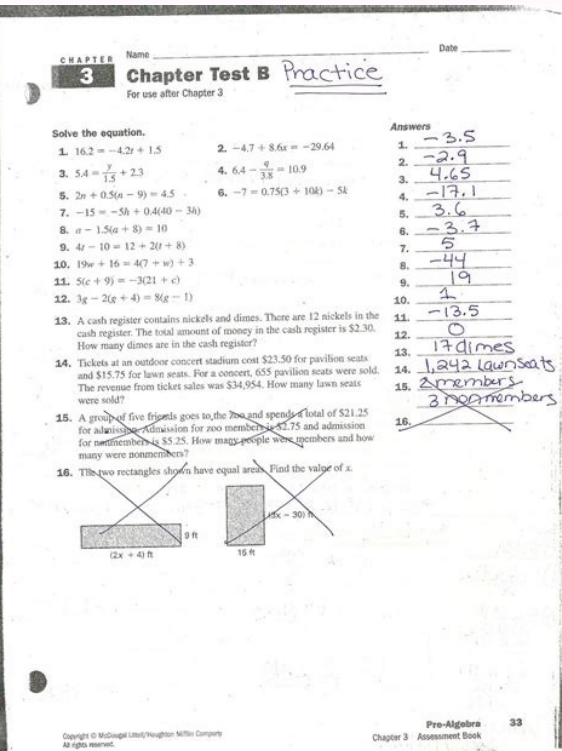
Pre-Algebra

Two Practice worksheets for every lesson
in the Student Edition

This Homework Practice Workbook Helps You:

- Practice the skills of the lesson
- Use your skills to solve word problems

Name: _____
Period: _____



9-4 Practice

Solving Quadratic Equations by Using the Quadratic Formula

Solve each equation by using the Quadratic Formula. Round to the nearest tenth if necessary.

1. $x^2 + 2x - 3 = 0$ -3, 1	2. $a^2 + 8a + 7 = 0$ -7, -1	3. $v^2 - 4v + 6 = 0$ \emptyset
4. $d^2 - 6d + 7 = 0$ 1.6, 4.4	5. $2x^2 + 9x - 5 = 0$ -5, $\frac{1}{2}$	6. $2x^2 + 12x + 10 = 0$ -5, -1
7. $2b^2 - 9b = -12$ \emptyset	8. $2h^2 - 6h = 12$ $-\frac{1}{2}, 4$	9. $3p^2 + p = 4$ $-\frac{1}{3}, 1$
10. $3m^2 - 1 = -8m$ -2.8, 0.1	11. $4y^2 + 7y = 15$ -3, $1\frac{1}{4}$	12. $1.6n^2 + 2n + 2.5 = 0$ \emptyset
13. $4.5k^2 + 4k - 1.5 = 0$	14. $\frac{1}{2}c^2 + 2c + \frac{3}{2} = 0$	15. $3w^2 - \frac{3}{4}w = \frac{1}{2}$
-1.2, 0.3	-3, -1	-0.3, 0.6

State the value of the discriminant for each equation. Then determine the number of real roots of the equation.

16. $a^2 + 8a + 16 = 0$ 0; 1 real root	17. $c^2 + 3c + 12 = 0$ -39; no real roots	18. $2x^2 + 12x = -7$ 88; 2 real roots
19. $2u^2 + 15u = -30$ -15; no real roots	20. $4n^2 + 9 = 12n$ 0; 1 real root	21. $3g^2 - 2g = 3.5$ 46; 2 real roots
22. $2.5k^2 + 3k - 0.5 = 0$ 14; 2 real roots	23. $\frac{3}{4}d^2 - 3d = -4$ -3; no real roots	24. $\frac{1}{4}z^2 = -z - 1$ 0; 1 real root

CONSTRUCTION For Exercises 25 and 26, use the following information.
A roofer tosses a piece of roofing tile from a roof onto the ground 30 feet below. He tosses the tile with an initial downward velocity of 10 feet per second.

25. Write an equation to find how long it takes the tile to hit the ground. Use the model for vertical motion, $H = -16t^2 + vt + h$, where H is the height of an object after t seconds, v is the initial velocity, and h is the initial height. (Hint: Since the object is thrown down, the initial velocity is negative.) **$H = -16t^2 - 10t + 30$**

26. How long does it take the tile to hit the ground? **about 1.1 s**

27. **PHYSICS** Lupo tosses a ball up to Quyen, waiting at a third-story window, with an initial velocity of 30 feet per second. She releases the ball from a height of 6 feet. The equation $h = -16t^2 + 30t + 6$ represents the height h of the ball after t seconds. If the ball must reach a height of 25 feet for Quyen to catch it, does the ball reach Quyen? Explain. (Hint: Substitute 25 for h and use the discriminant.) **No; the discriminant, -316, is negative, so there is no solution.**

Chapter 9 30 Glencoe Algebra 1

<h4>1-1 Skills Practice</h4> <p>Write an algebraic expression for each verbal expression.</p> <p>1. The sum of a number and 12</p> <p>2. The product of 3 and a number</p> <p>3. A number less than 5</p> <p>4. The difference of 7 and 3 times a number</p> <p>5. The product of the first and second powers of a number</p> <p>6. The sum of the first and second powers of a number</p> <p>7. The product of 3 and a number</p> <p>8. The sum of a number and its square</p> <p>9. The product of a number and its square</p> <p>10. The sum of a number and its square</p> <p>11. The product of a number and its square</p> <p>12. The sum of a number and its square</p> <p>13. The product of a number and its square</p> <p>14. The sum of a number and its square</p> <p>15. The product of a number and its square</p> <p>16. The sum of a number and its square</p> <p>17. The product of a number and its square</p> <p>18. The sum of a number and its square</p> <p>19. The product of a number and its square</p> <p>20. The sum of a number and its square</p> <p>21. The product of a number and its square</p> <p>22. The sum of a number and its square</p> <p>23. The product of a number and its square</p> <p>24. The sum of a number and its square</p> <p>25. The product of a number and its square</p> <p>26. The sum of a number and its square</p> <p>27. The product of a number and its square</p> <p>28. The sum of a number and its square</p> <p>29. The product of a number and its square</p> <p>30. The sum of a number and its square</p>	<h4>1-1 Practice</h4> <p>Write an algebraic expression for each verbal expression.</p> <p>1. The sum of a number and 12</p> <p>2. The product of 3 and a number</p> <p>3. A number less than 5</p> <p>4. The difference of 7 and 3 times a number</p> <p>5. The product of the first and second powers of a number</p> <p>6. The sum of the first and second powers of a number</p> <p>7. The product of 3 and a number</p> <p>8. The sum of a number and its square</p> <p>9. The product of a number and its square</p> <p>10. The sum of a number and its square</p> <p>11. The product of a number and its square</p> <p>12. The sum of a number and its square</p> <p>13. The product of a number and its square</p> <p>14. The sum of a number and its square</p> <p>15. The product of a number and its square</p> <p>16. The sum of a number and its square</p> <p>17. The product of a number and its square</p> <p>18. The sum of a number and its square</p> <p>19. The product of a number and its square</p> <p>20. The sum of a number and its square</p> <p>21. The product of a number and its square</p> <p>22. The sum of a number and its square</p> <p>23. The product of a number and its square</p> <p>24. The sum of a number and its square</p> <p>25. The product of a number and its square</p> <p>26. The sum of a number and its square</p> <p>27. The product of a number and its square</p> <p>28. The sum of a number and its square</p> <p>29. The product of a number and its square</p> <p>30. The sum of a number and its square</p>
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1-1 Practice**Variables and Expressions**

Write an algebraic expression for each verbal expression.

- the difference of 10 and u
- the sum of 18 and a number
- the product of 33 and j
- 74 increased by 3 times y
- 15 decreased by twice a number
- 91 more than the square of a number
- three fourths the square of b
- two fifths the cube of a number

Evaluate each expression.

- 11^2
- $10 \cdot 8^3$
- $11 \cdot 5^4$
- $12 \cdot 4^5$
- $13 \cdot 9^3$
- $14 \cdot 6^4$
- $15 \cdot 10^5$
- $16 \cdot 12^2$
- $17 \cdot 100^4$

Write a verbal expression for each algebraic expression.

- $23f$
- $7g^2$

- $5m^2 + 2$
- $4d^2 - 10$

- $x^3 - y^4$
- $b^2 - 3c^2$

- $\frac{4^x}{6}$
- $\frac{4n^3}{7}$

- BOOKS** A used bookstore sells paperback fiction books in excellent condition for \$2.50 and in fair condition for \$0.50. Write an expression for the cost of buying e excellent-condition paperbacks and f fair-condition paperbacks.

- GEOMETRY** The surface area of the side of a right cylinder can be found by multiplying twice the number π by the radius times the height. If a circular cylinder has radius r and height h , write an expression that represents the surface area of its side.

Chapter 1 **9** Glencoe Algebra 1

Lesson 1-1

NAME _____ DATE _____ PERIOD _____

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Algebraator allows me to create each lesson in about half the time. Here are some of their experiences: This new version is a vast improvement over the old one.

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