

ARE YOU READY?

Vocabulary

Match each term on the left with a definition on the right.

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|-------------------|--|
| 1. like terms | A. the set of second elements of a relation |
| 2. square root | B. terms that contain the same variables raised to the same powers |
| 3. domain | C. the set of first elements of a relation |
| 4. perfect square | D. a number that tells how many times a base is used as a factor |
| 5. exponent | E. a number whose positive square root is a whole number |
| | F. one of two equal factors of a number |

Evaluate Powers

Find the value of each expression.

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|-----------|------------------|--------------------|---------------------|
| 6. 2^4 | 7. 5^0 | 8. $7 \cdot 3^2$ | 9. $3 \cdot 5^3$ |
| 10. 3^5 | 11. $-6^2 + 8^1$ | 12. $40 \cdot 2^3$ | 13. $7^2 \cdot 3^1$ |

Graph Functions

Graph each function.

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|-------------|-----------------|-------------------|-------------------|
| 14. $y = 8$ | 15. $y = x + 3$ | 16. $y = x^2 - 4$ | 17. $y = x^2 + 2$ |
|-------------|-----------------|-------------------|-------------------|

Fractions, Decimals, and Percents

Write each percent as a decimal.

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|----------|----------|-----------|-----------|
| 18. 50% | 19. 25% | 20. 15.2% | 21. 200% |
| 22. 1.9% | 23. 0.3% | 24. 0.1% | 25. 1.04% |

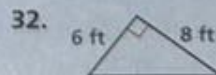
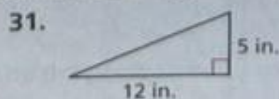
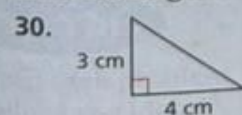
Squares and Square Roots

Find each square root.

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|-----------------|-----------------|-----------------|-----------------|
| 26. $\sqrt{36}$ | 27. $\sqrt{81}$ | 28. $\sqrt{25}$ | 29. $\sqrt{64}$ |
|-----------------|-----------------|-----------------|-----------------|

Pythagorean Theorem

Find the length of the hypotenuse in each right triangle.



Multiply Monomials and Polynomials

Multiply.

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| 33. $5(2m - 3)$ | 34. $3x(8x + 9)$ | 35. $2t(3t - 1)$ | 36. $4r(4r - 5)$ |
|-----------------|------------------|------------------|------------------|