2 Linear Equations and Functions

Before

In Chapter 1, you learned the following skills, which you'll use in Chapter 2: evaluating algebraic expressions, solving linear equations, and rewriting equations.

Prerequisite Skills

VOCABULARY CHECK

Copy and complete the statement.

1. A **linear equation** in one variable is an equation that can be written in the form __?__ where a and b are constants and $a \neq 0$.

2. The **absolute value** of a real number is the distance the number is from __?__ on a number line.

SKILLS CHECK

Evaluate the expression for the given value of x. *(Review p. 10 for 2.1.)*

3. $-2(x + 1)$ when $x = -5$
4. $11x - 14$ when $x = -3$
5. $x^2 + x + 1$ when $x = 4$
6. $-x^2 - 3x + 7$ when $x = 1$

Solve the equation. Check your solution. *(Review p. 18 for 2.3.)*

7. $5x - 2 = 8$
8. $-6x - 10 = 20$
9. $-x + 9 = 2x - 27$

Solve the equation for y. *(Review p. 26 for 2.4.)*

10. $2x + 3y = 6$
11. $-x - y = 10$
12. $x + 4y = -5$

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