7 Systems of Equations and Inequalities

Before

In previous chapters, you learned the following skills, which you'll use in Chapter 7: graphing linear equations, solving equations, determining whether lines are parallel, and graphing linear inequalities in two variables.

Prerequisite Skills

VOCABULARY CHECK

Copy and complete the statement.

1. The least common multiple of 10 and 15 is __?__.

2. Two lines in the same plane are __?__ if they do not intersect.

SKILLS CHECK

Graph the equation. *(Review p. 225 for 7.1.)*

3. $x - y = 4$ 4. $6x - y = -1$ 5. $4x + 5y = 20$ 6. $3x - 2y = -12$

Solve the equation. *(Review p. 148 for 7.2–7.4.)*

7. $5m + 4 - m = 20$ 8. $10(z + 5) + z = 6$

Tell whether the graphs of the two equations are parallel lines. *Explain* your reasoning. *(Review p. 244 for 7.5.)*

9. $y = 2x - 3, y + 2x = -3$ 10. $y - 5x = -1, y - 5x = 1$

11. $y = x + 10, x - y = -9$ 12. $6x - y = 4, 4x - y = 6$

Graph the inequality. *(Review p. 405 for 7.6.)*

13. $y \leq -2x + 1$ 14. $x - y < 5$ 15. $x \geq -4$ 16. $y > 3$

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