6 Solving and Graphing Linear Inequalities

TEXAS

Before

In previous chapters, you learned the following skills, which you'll use in Chapter 6: solving equations, graphing equations, and writing equations.

Prerequisite Skills

VOCABULARY CHECK

1. Identify one **ordered pair** that is a solution of $8x - 5y = -2$.
2. Are $7x - 4 = 10$ and $x = 3$ **equivalent equations**? *Explain*.
3. The **absolute value** of a number a is the distance between a and ? on a number line.

SKILLS CHECK

Check whether the given number is a solution of the equation or inequality. *(Review p. 21 for 6.1–6.6.)*

4. $x - 2 = 3; 5$ **5.** $s + 3 = 12; 9$ **6.** $6y > 20; 3$ **7.** $\frac{p-3}{5} \leq 4; 23$

Solve the equation. Check your solution. *(Review pp. 134, 141, 148 for 6.1–6.6.)*

8. $m + 8 = -20$ **9.** $-7x = 35$ **10.** $-9r - 4 = 25$ **11.** $4t - 7t = 9$

For the given value of a, find $-a$ and $|a|$. *(Review p. 64 for 6.5–6.6.)*

12. $a = -3$ **13.** $a = -5.6$ **14.** $a = 14$ **15.** $a = 0$

Graph the equation. *(Review p. 215 for 6.7.)*

16. $y = -7x + 3$ **17.** $6x + 3y = -5$ **18.** $x = -8$ **19.** $y = 4$

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