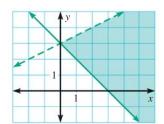
SKILL PRACTICE

- **1. VOCABULARY** Copy and complete: A(n) _? of a system of linear inequalities is an ordered pair that is a solution of each inequality in the system.
- **2. WRITING** *Describe* the steps you would take to graph the system of inequalities shown.

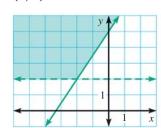
x - y < 7 Inequality 1 $y \ge 3$ Inequality 2

CHECKING A SOLUTION Tell whether the ordered pair is a solution of the system of inequalities.

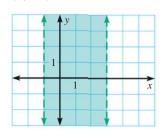
3. (1, 1)



4. (0, 6)



5. (3, -1)



EXAMPLE 1

on p. 466 for Exs. 6–17

EXAMPLE 2

for Exs. 18-21

on p. 467

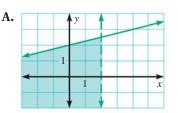
MATCHING SYSTEMS AND GRAPHS Match the system of inequalities with its graph.

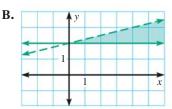
6.
$$x - 4y > -8$$
 $x \ge 2$

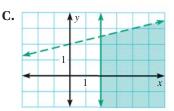
7.
$$x - 4y \ge -8$$

 $x < 2$

8.
$$x - 4y > -8$$
 $y \ge 2$







GRAPHING A SYSTEM Graph the system of inequalities.

9.
$$x > -5$$
 $x < 2$

10.
$$y \le 10$$
 $y \ge 6$

11.
$$x > 3$$
 $y > x$

12.
$$y < -2x + 3$$
 $y \ge 4$

$$\begin{array}{c}
 13. \ y \ge 0 \\
 y < 2.5x - 1
\end{array}$$

14.
$$y \ge 2x + 1$$
 $y < -x + 4$

15.
$$x < 8$$
 $x - 4y \le -8$

16.
$$y \ge -2$$

 $2x + 3y > -6$

17.
$$y - 2x < 7$$

 $y + 2x > -1$

18.
$$x < 4$$

 $y > 1$
 $y \ge -x + 1$

19.
$$x \ge 0$$

 $y \ge 0$
 $6x - y < 12$

20.
$$x + y \le 10$$

 $x - y \ge 2$
 $y \ge 2$

21. TAKS REASONING Which ordered pair is a solution of the system $2x - y \le 5$ and x + 2y > 2?

$$(1, -1)$$