

**LESSON**  
**6.7****Practice B**  
*For use with pages 404–412***Tell whether the ordered pair is a solution of the inequality.**

1.  $x + y > -9$ ; (0, 0)

2.  $x - y \geq 8$ ; (14, 9)

3.  $2x - y > 4$ ; (-6, -15)

4.  $2x + y > -5$ ; (-5, 12)

5.  $5x + 2y \leq 8$ ; (-3, 6)

6.  $4x - 3y \geq -5$ ; (6, 8)

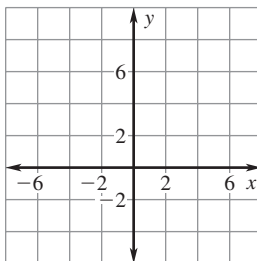
7.  $0.5x + 2.5y \geq 2$ ; (0, 0)

8.  $1.2x - 3.1y < 4$ ; (3, -1)

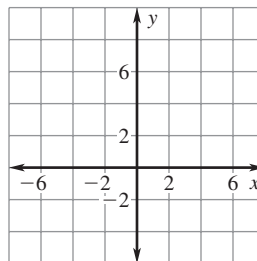
9.  $0.2y - 0.5x > -1$ ; (-4, -8)

**Graph the inequality.**

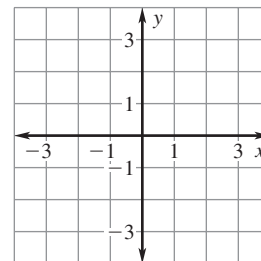
10.  $y - x < 6$



11.  $x - y > -4$

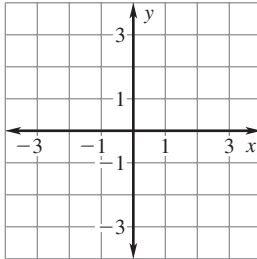


12.  $2y - x < 2$

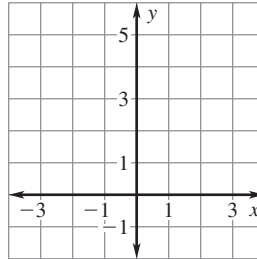


**LESSON**  
**6.7****Practice B** *continued*  
For use with pages 404–412

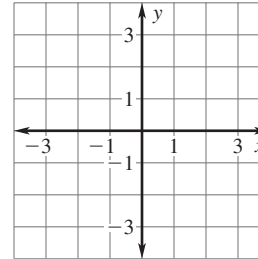
13.  $4y \leq 6x - 2$



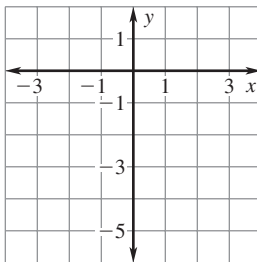
14.  $5y \leq 10x + 15$



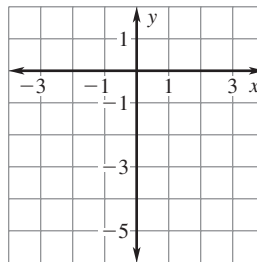
15.  $6y + 3 \geq -18x$



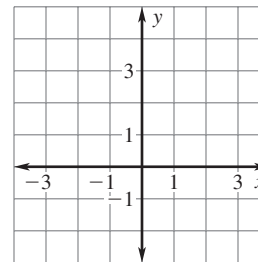
16.  $2(y + 3) < 4x$



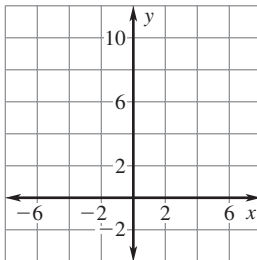
17.  $2y - 3x \geq -8$



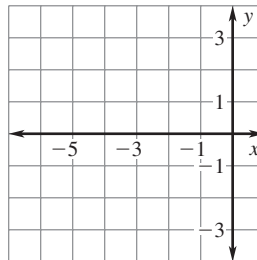
18.  $2(x - y) < -5$



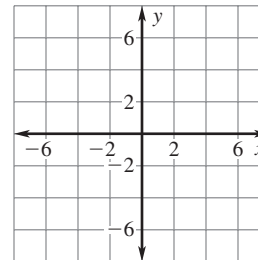
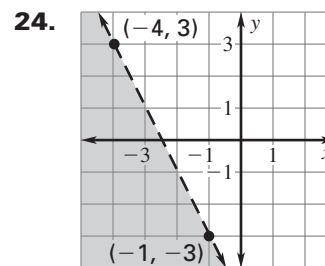
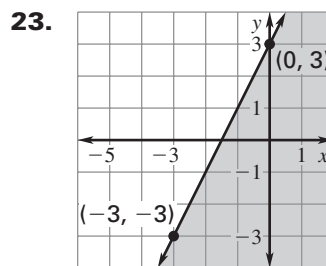
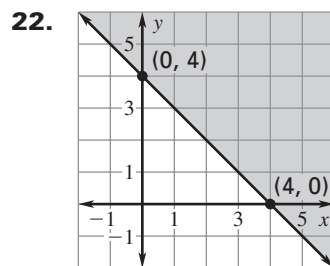
19.  $y > 7$



20.  $x \leq -5$



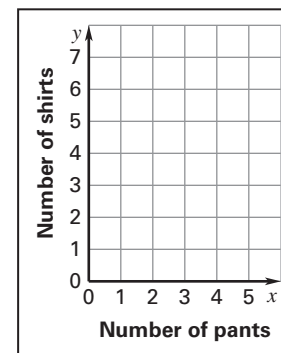
21.  $y < -4$

**Write an inequality of the graph shown.**

LESSON  
6.7**Practice B** *continued*  
For use with pages 404–412

- 25. Clothes** You are going clothes shopping and can spend at most \$130 on clothes. It costs \$30 for a pair of pants and \$22 for a shirt. Let  $x$  represent the number of pants you can buy. Let  $y$  represent the number of shirts you can buy.

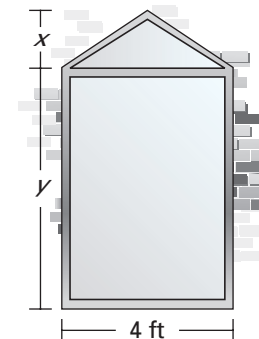
a. Write and graph an inequality that describes the different number of shirts and pants you can buy.



b. Give three possible combinations of pants and shirts that you can buy.

- 26. Window** The area of the window shown is less than 42 square feet. Let  $x$  and  $y$  represent the heights of the triangular and rectangular portions of the window, respectively.

a. Write and graph an inequality that describes the different dimensions of the window.



b. Could the height of the triangular portion be 2 feet and the height of the rectangular portion be 8 feet?

