Name _____ Date _____

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

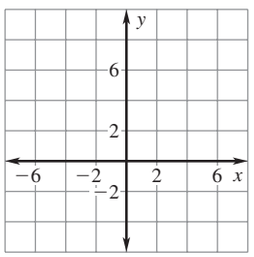
7. $0.5x + 2.5y \geq 2$; $(0, 0)$

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

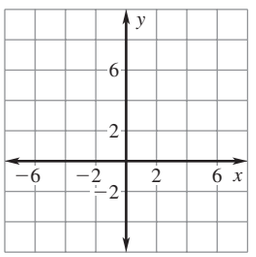
9. $0.2y - 0.5x > -1$; $(-4, -8)$

Graph the inequality.

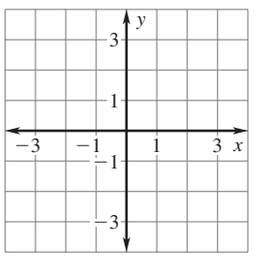
10. $y - x < 6$



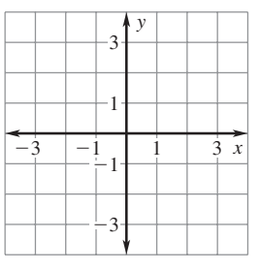
11. $x - y > -4$



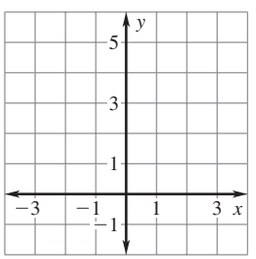
12. $2y - x < 2$



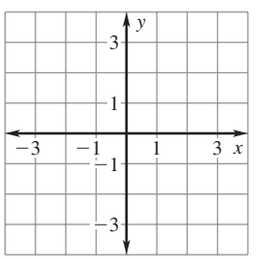
13. $4y \leq 6x - 2$



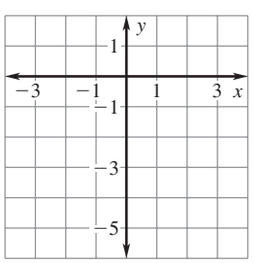
14. $5y \leq 10x + 15$



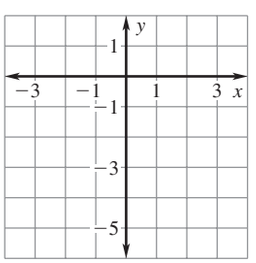
15. $6y + 3 \geq -18x$



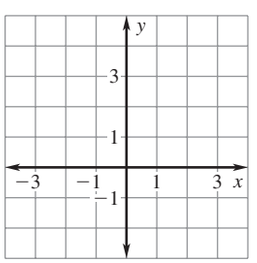
16. $2(y + 3) < 4x$



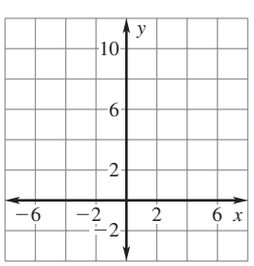
17. $2y - 3x \geq -8$



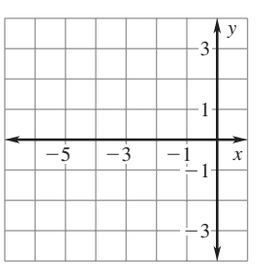
18. $2(x - y) < -5$



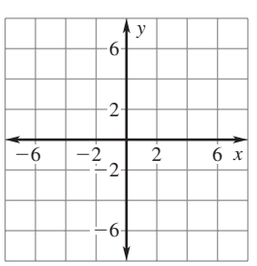
19. $y > 7$



20. $x \leq -5$



21. $y < -4$



Name _____ Date _____

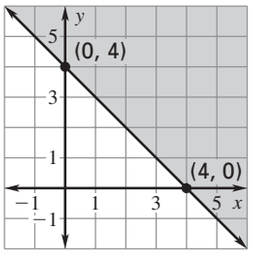
LESSON 6.7

Practice B *continued*

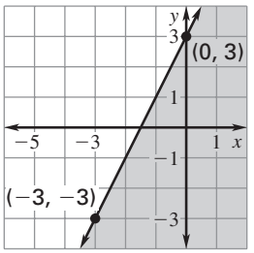
For use with pages 404–412

Write an inequality of the graph shown.

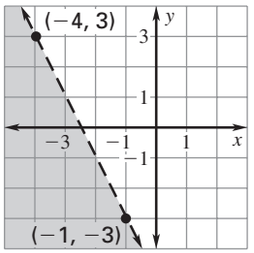
22.



23.



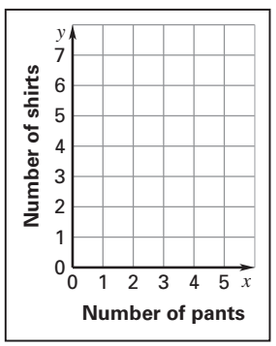
24.



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?