

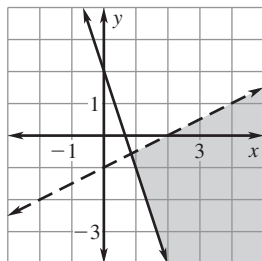
**LESSON**  
**6.6**

**Practice B**

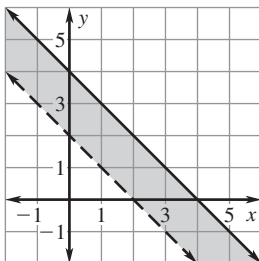
For use with the lesson "Solve Systems of Linear Inequalities"

**Tell whether the ordered pair is a solution of the system of inequalities.**

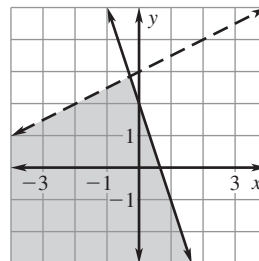
1. (3, 0)



2. (2, 2)



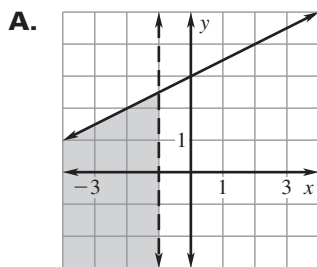
3. (-2, 2)



**Match the system of inequalities with its graph.**

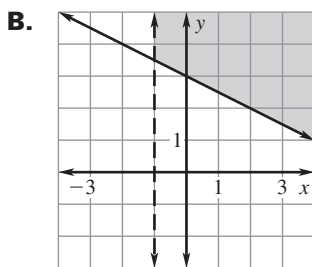
4.  $\frac{1}{2}x + y \geq 3$

$x > -1$



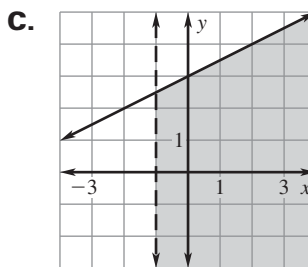
5.  $y - \frac{1}{2}x \leq 3$

$x < -1$



6.  $y \leq \frac{1}{2}x + 3$

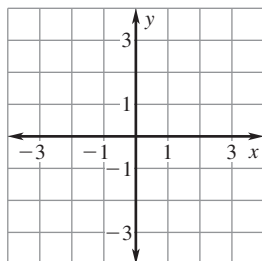
$x > -1$



**Graph the system of inequalities.**

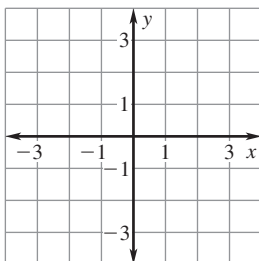
7.  $x > -1$

$x < 1$



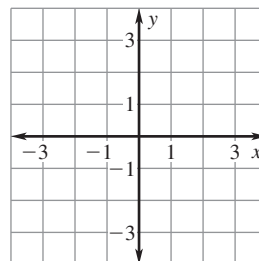
8.  $y \geq 2$

$y < 3$



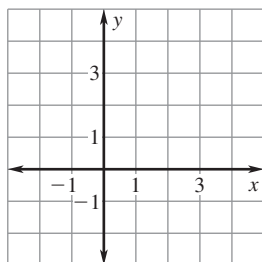
9.  $x + y > 1$

$x \leq y$



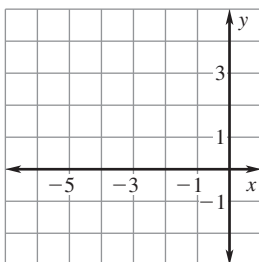
10.  $x \geq y + 2$

$2x + y < 4$



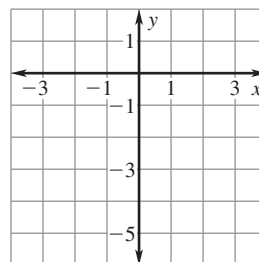
11.  $y \geq 2$

$x + y \leq -3$



12.  $x \leq -y$

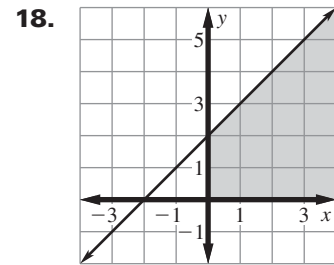
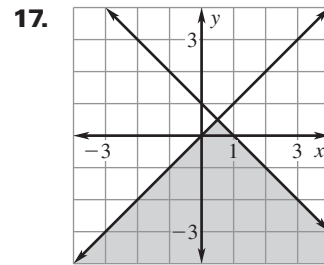
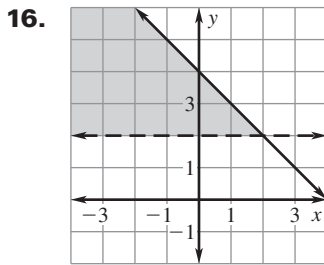
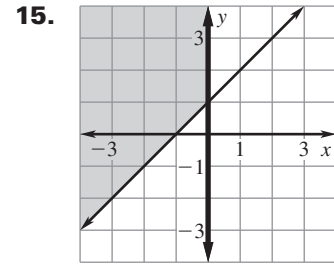
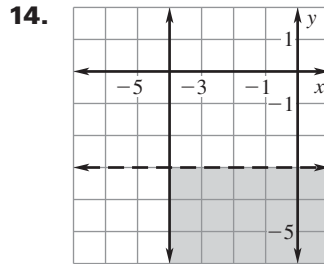
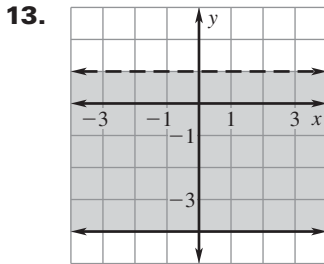
$2x - y < 4$



**LESSON**  
**6.6**

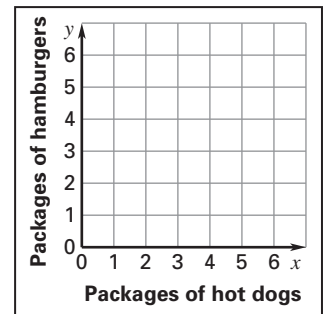
**Practice B** *continued*  
*For use with the lesson "Solve Systems of Linear Inequalities"*

**Write a system of inequalities for the shaded region.**



19. **Cookout** You are planning a cookout. You figure that you will need at least 5 packages of hot dogs and hamburgers. A package of hot dogs costs \$1.90 and a package of hamburgers costs \$5.20. You can spend a maximum of \$20 on the hot dogs and hamburgers.

- Let  $x$  represent the number of packages of hot dogs and let  $y$  represent the number of packages of hamburgers. Write a system of linear inequalities for the number of packages of each that can be bought.
- Graph the system of inequalities.
- Identify two possible combinations of packages of hot dogs and hamburgers you can buy.



20. **Chores** You need at least 4 hours to do your chores, which are cleaning out the garage and weeding the flower beds around your house. It is 1:30 P.M. on Sunday and your friend wants you to go to the movies at 7:00 P.M.

- How much time do you have between now and 7:00 P.M. to do your chores?
- Let  $x$  represent the number of hours spent cleaning out the garage and let  $y$  represent the number of hours spent on weeding the flower beds. Write and graph a system of linear inequalities that shows the number of hours you can work on each chore if you go to the movies.
- Identify two possible combinations of time you can spend on each chore.

