Name _____ Date _____

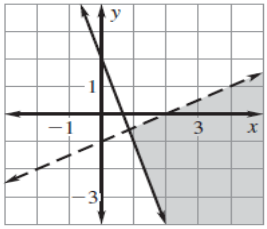
LESSON 6.6

Practice B

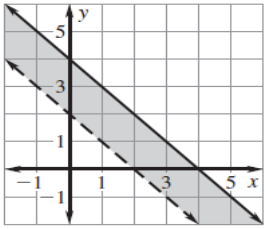
For use with the lesson "Solve Systems of Linear Inequalities"

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

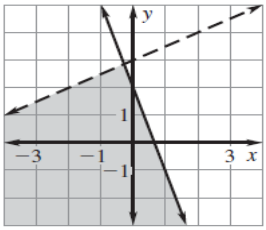
1. $(3, 0)$



2. $(2, 2)$



3. $(-2, 2)$



Match the system of inequalities with its graph.

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

$x > -1$

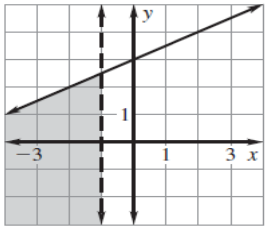
5. $y - \frac{1}{2}x \leq 3$

$x < -1$

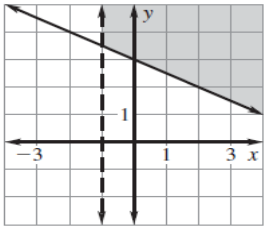
6. $y \leq \frac{1}{2}x + 3$

$x > -1$

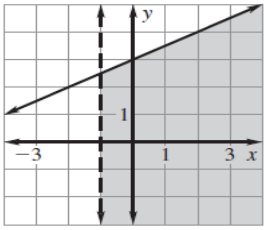
A.



B.



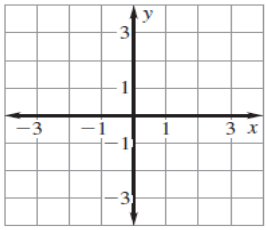
C.



Graph the system of inequalities.

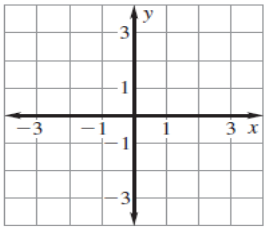
7. $x > -1$

$x < 1$



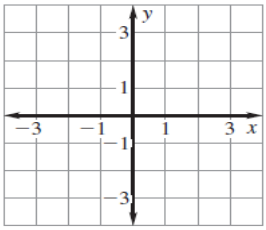
8. $y \geq 2$

$y < 3$



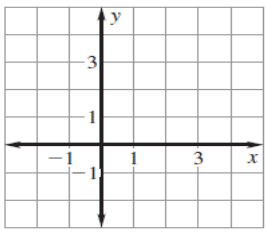
9. $x + y > 1$

$x \leq y$



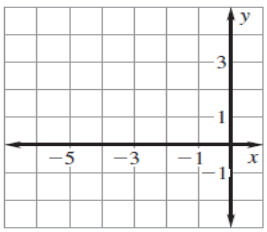
10. $x \geq y + 2$

$2x + y < 4$



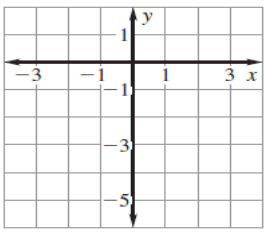
11. $y \geq 2$

$x + y \leq -3$



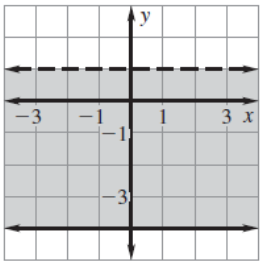
12. $x \leq -y$

$2x - y < 4$

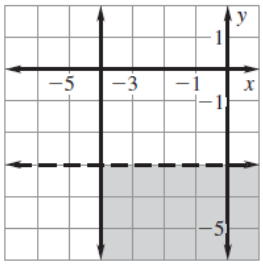


Write a system of inequalities for the shaded region.

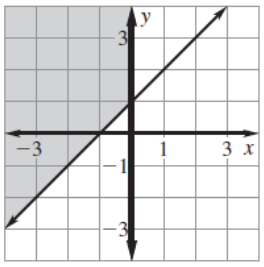
13.



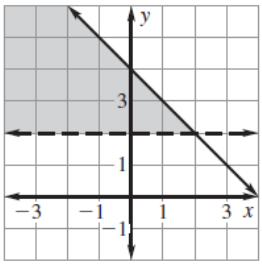
14.



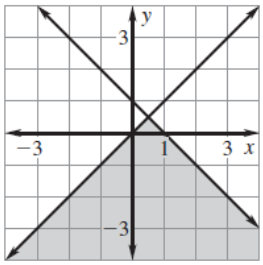
15.



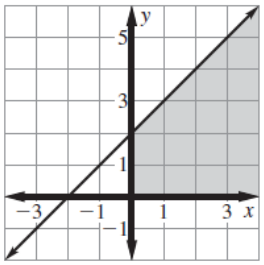
16.



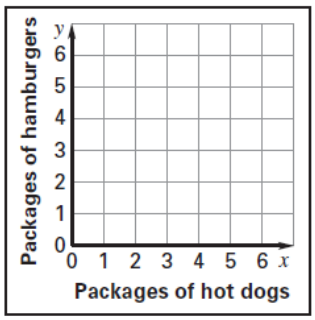
17.



18.



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.



a. 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.

b. Graph the system of inequalities.

c. Identify two possible combinations of packages of hot dogs and hamburgers you can buy.