

**LESSON** **6-6** **Practice C**  
**Solving Systems of Linear Inequalities**

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

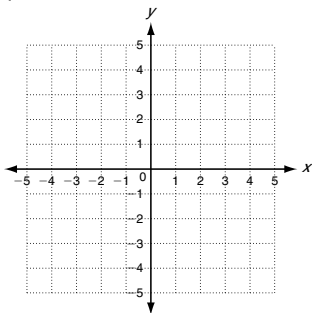
1.  $(-2, 3); \begin{cases} y \leq x + 5 \\ y > -2x - 1 \end{cases}$

2.  $(-3, 3); \begin{cases} y < -x + 1 \\ y > x - 4 \end{cases}$

3.  $(-1, -2); \begin{cases} y > x - 2 \\ y < 3x \end{cases}$

Graph the system of linear inequalities. a. Give two ordered pairs that are solutions. b. Give two ordered pairs that are not solutions.

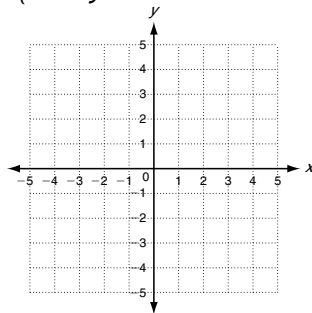
4.  $\begin{cases} y \leq 3x + 2 \\ y \geq -x \end{cases}$



a. \_\_\_\_\_

b. \_\_\_\_\_

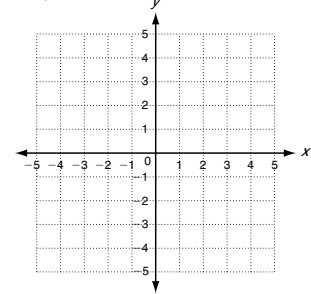
5.  $\begin{cases} y > \frac{1}{3}x - 2 \\ x + y > -3 \end{cases}$



a. \_\_\_\_\_

b. \_\_\_\_\_

6.  $\begin{cases} 3x - 2y < 8 \\ y - 1 \leq \frac{3}{2}x \end{cases}$



a. \_\_\_\_\_

b. \_\_\_\_\_

7. Dennis works at a frozen yogurt store in the summer. He needs to order boxes of small cups and boxes of large cups. The storage room can hold up to 10 more boxes of cups. Each box of small cups costs \$100 and each box of large cups costs \$150. A maximum of \$1200 is budgeted for cups.

a. Write a system of linear equations.

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b. Graph the solutions of the system.

c. Describe all the possible combinations of boxes of cups that Dennis can order.

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d. List two possible combinations. \_\_\_\_\_

