

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

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

1.  $(4, 5); \begin{cases} y \leq x + 2 \\ y \geq x - 1 \end{cases}$

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

3.  $(2, 3); \begin{cases} y < 5x - 3 \\ y \geq -x \end{cases}$

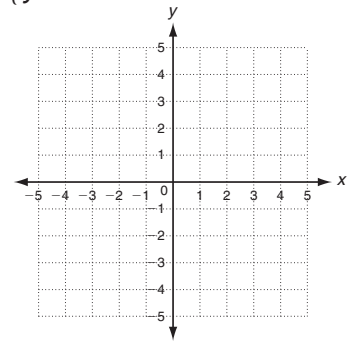
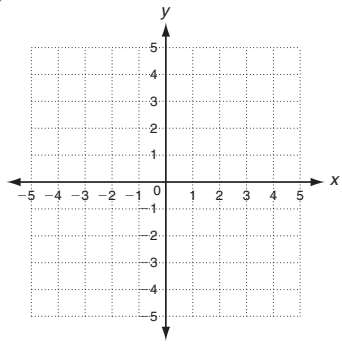
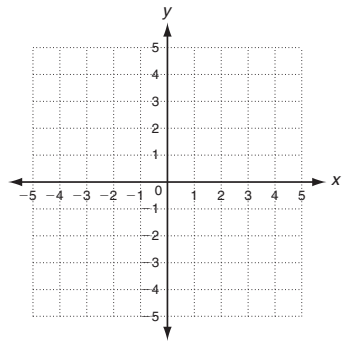
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Graph the system of linear inequalities. a. Give two ordered pairs that are solutions. b. Give two ordered pairs that are not solutions.

4.  $\begin{cases} y \geq x + 1 \\ y \leq -2x \end{cases}$

5.  $\begin{cases} y < 2x + 4 \\ y > x - 1 \end{cases}$

6.  $\begin{cases} y > -x \\ y > -x + 3 \end{cases}$



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

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

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

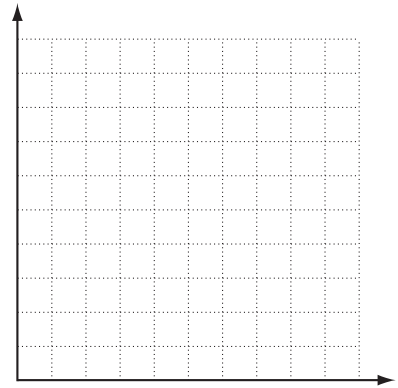
b. \_\_\_\_\_

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

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

7. Lou is buying macaroni salad and potato salad for a picnic. Macaroni salad costs \$4 per pound and potato salad costs \$2 per pound. Lou would like to buy at least 6 pounds of salads and wants to spend no more than \$20.

- a. Write a system of linear equations.  
 Let  $x$  = pounds of macaroni salad  
 Let  $y$  = pounds of potato salad



b. Graph the solutions of the system.

c. Describe all the possible combinations of pounds of salads that Lou could buy.

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

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