

## 5.7 Practice B

In Exercises 1 and 2, tell whether the ordered pair is a solution of the system of linear inequalities.

1.  $(2, 0)$ ;  $y > x - 5$   
 $y \leq 2x + 1$

2.  $(1, 4)$ ;  $y < 2x + 2$   
 $y \geq -3x + 4$

In Exercises 3–8, graph the system of linear inequalities.

3.  $x + y \leq 2$   
 $y \leq 1$

4.  $3x + y > 4$   
 $y < -3x + 1$

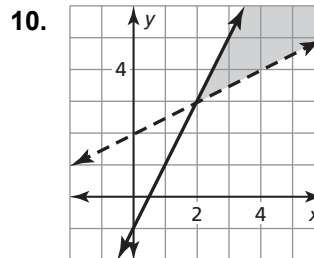
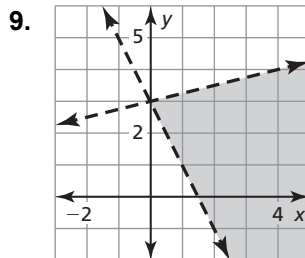
5.  $x - y < 3$   
 $-x - y \geq -1$

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

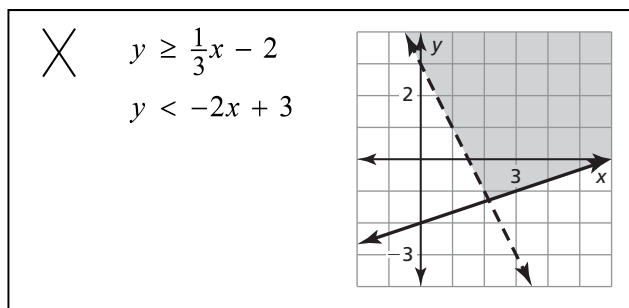
7.  $x > -2$   
 $y < 3$   
 $y \geq 2x - 1$

8.  $x + y > 4$   
 $x - y < -1$   
 $y > 7$

In Exercises 9 and 10, write a system of linear inequalities represented by the graph.



11. Describe and correct the error in graphing the system of inequalities.



12. The points  $(1, 2)$ ,  $(5, 5)$ ,  $(1, 6)$  are the vertices of a shaded triangle.

- Write a system of linear inequalities represented by the shaded triangle.
- Find the area of the triangle.