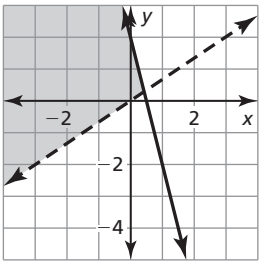
Name _____ Date _____

5.7 Practice A

In Exercises 1–4, tell whether the ordered pair is a solution of the system of linear inequalities.



1. $(2, 1)$

2. $(-3, -2)$

3. $(0, 2)$

4. $(-1, -4)$

In Exercises 5 and 6, tell whether the ordered pair is a solution of the system of linear inequalities.

5. $(2, -1)$; $y \geq 3$
$y < x + 1$

6. $(7, -4)$; $y < 0$
$y < x - 3$

In Exercises 7–12, graph the system of linear inequalities.

7. $y > 2$
$x < -3$

8. $y \geq 1$
$y < 4$

9. $y \geq -2x$
$y > 1$

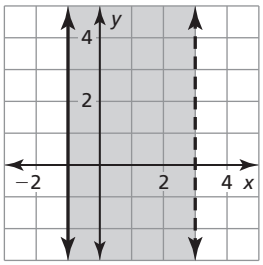
10. $y \leq x + 2$
$y > x - 2$

11. $y < 2x$
$y < x + 1$

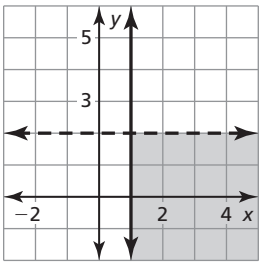
12. $3x + y \leq 0$
$-2x + y > -1$

In Exercises 13 and 14, write a system of linear inequalities represented by the graph.

13.



14.



15. You can spend at most \$60 on beads. A bag containing red beads costs \$2 per bag. A bag containing blue beads costs \$3 per bag. You need more bags of blue beads than bags of red beads.

a. Write and graph a system of linear inequalities that represents the situation.

b. Identify and interpret a solution of the system.

c. Use the graph to determine whether you can buy 9 bags of red beads and 12 bags of blue beads.