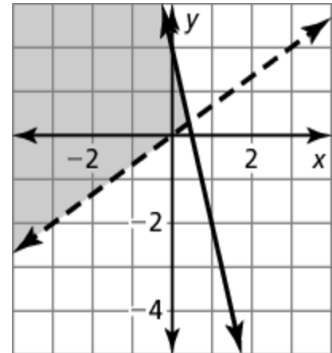


5.7

Practice A

In Exercises 1–4, tell whether the ordered pair is a solution of the system of linear inequalities. Plot your coordinate labeled as proof of your work.



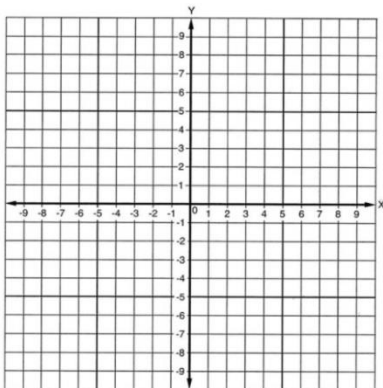
- 1. A (2, 1)
- 2. B(-3, -2)
- 3. C (0, 2)
- 4. D (-1, -4)

In Exercises 5 and 6, tell whether the ordered pair is a solution of the system of linear inequalities. Show all work for full credit.

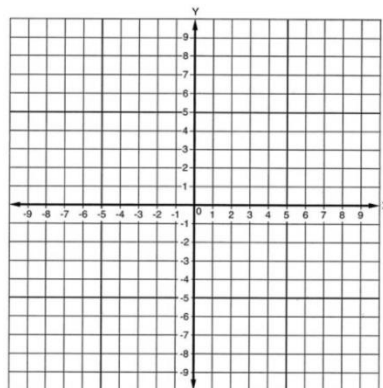
- 5. $(2, -1); y \geq 3$
 $y < x + 1$
- 6. $(7, -4); y < 0$
 $y < x - 3$

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

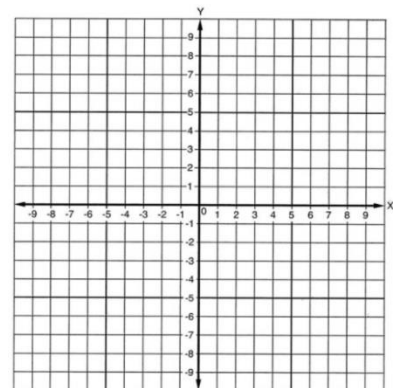
7. $y > 2$
 $x < -3$



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

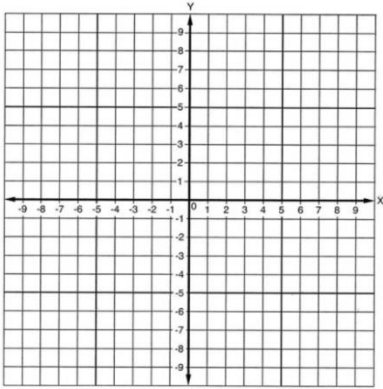


9. $y \geq -2x$
 $y > 1$



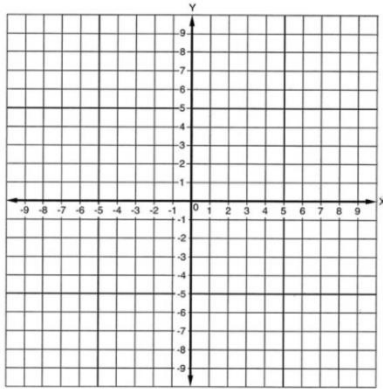
10. $y \leq x + 2$

$y > x - 2$



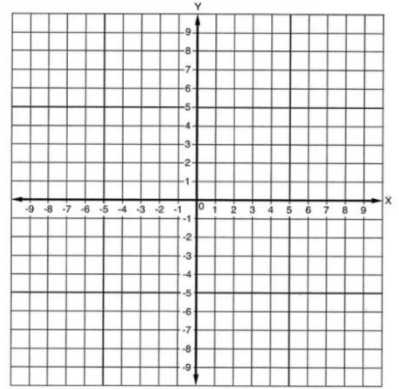
11. $y < 2x$

$y < x + 1$



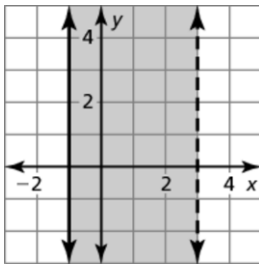
12. $3x + y \leq 0$

$-2x + y > -1$

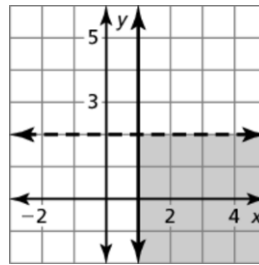


In Exercises 13 and 14, write a system of linear inequalities represented by the graph.

13.



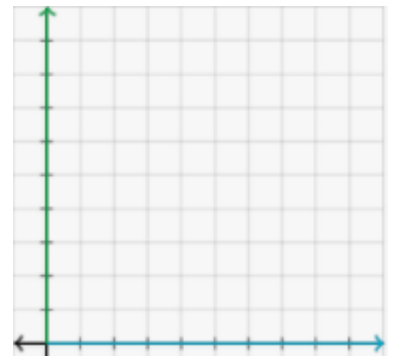
14.



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. Define your variables.

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



c. Identify your coordinate solution, **and** then interpret a solution of the system in a complete sentence.

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