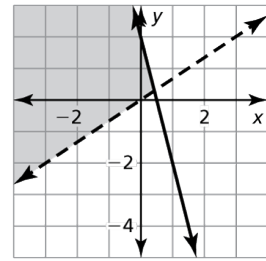


5.7 Practice Worksheet #2

In Exercises 1–4, tell whether the ordered pair is a solution of the inequality whose graph is shown.



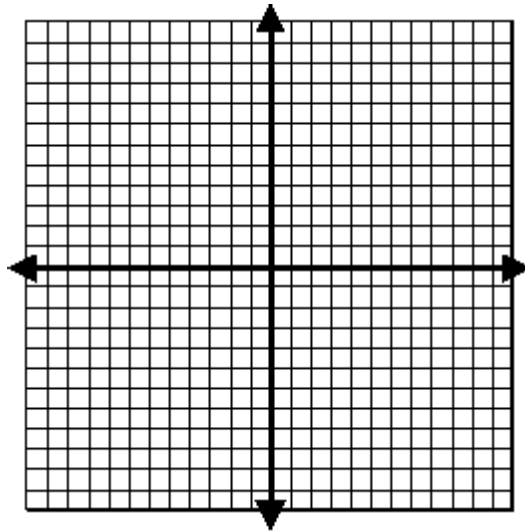
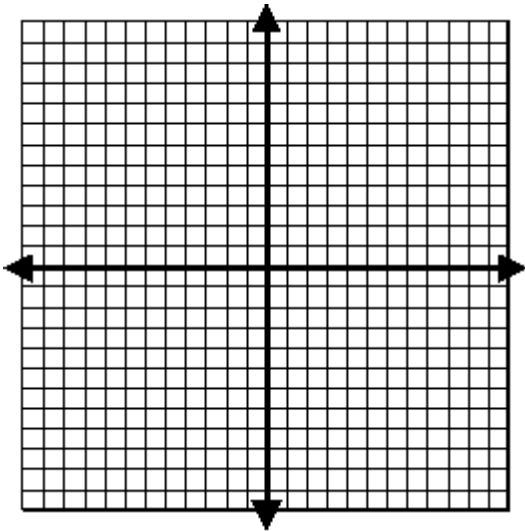
- 1. $(2, 1)$
- 2. $(-3, -2)$
- 3. $(0, 2)$
- 4. $(-1, -4)$

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

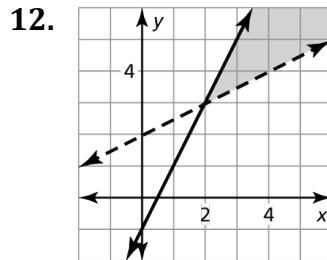
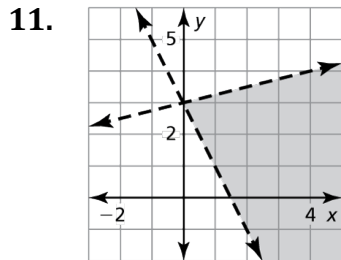
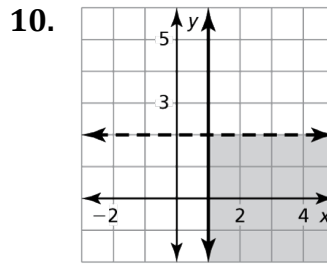
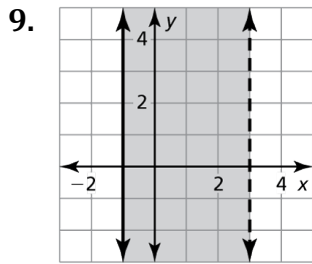
- 5. $(2, -1)$; $y \geq 3$
 $y < x + 1$
- 6. $(7, -4)$; $y < 0$
 $y < x - 3$

In Exercises 7 and 8, graph the system of linear inequalities.

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



In Exercises 9 - 12, write a system of linear inequalities represented by the graph.



13. 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.

