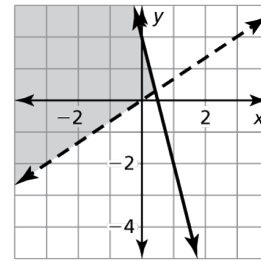


# 5.7

## Practice Worksheet #2

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



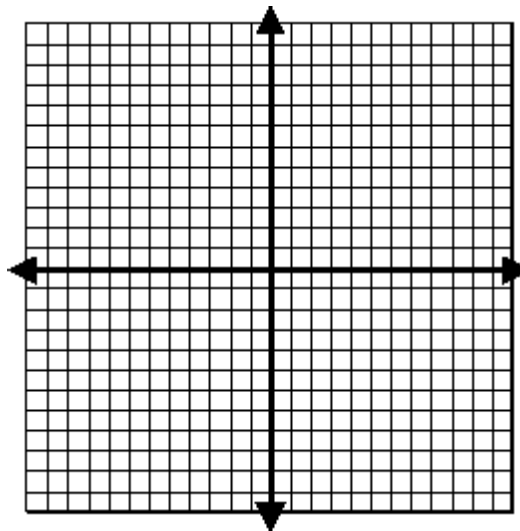
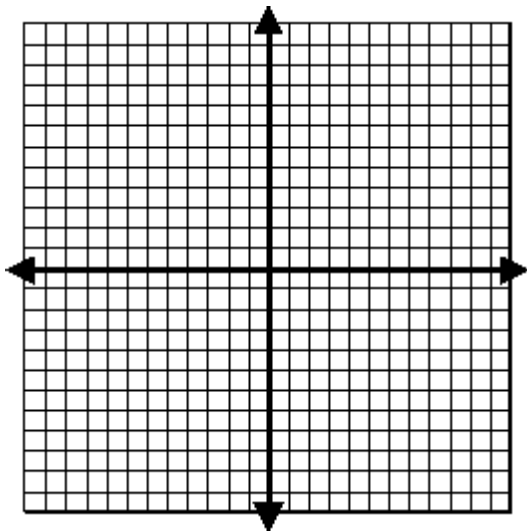
- |             |               |
|-------------|---------------|
| 1. $(2, 1)$ | 2. $(-3, -2)$ |
| 3. $(0, 2)$ | 4. $(-1, -4)$ |

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

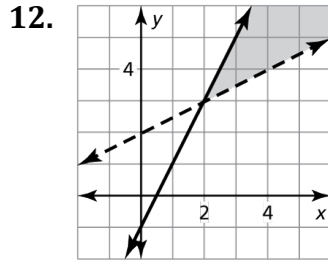
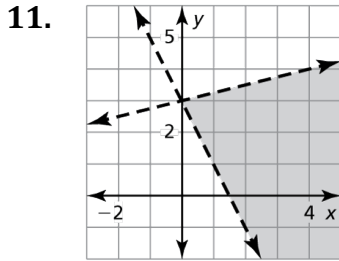
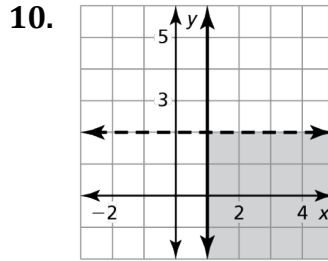
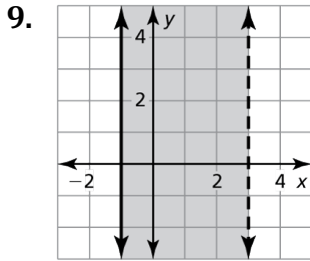
- |  |                                       |
|--|---------------------------------------|
| 5. $(2, -1)$ ; $y \geq 3$<br>$y < x + 1$ | 6. $(7, -4)$ ; $y < 0$<br>$y < x - 3$ |
|--|---------------------------------------|

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

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



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.

