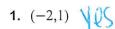
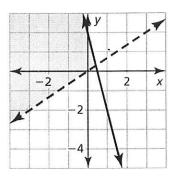
5.7 Systems of Linear Inequalities ws

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





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

5.
$$(2, -1)$$
; $y \ge 3$ $(2, -1)$ $(2, -1)$ $(2, -1)$ $(2, -1)$ $(2, -1)$ $(2, -1)$ $(2, -1)$ $(2, -1)$

6.
$$(7, -4)$$
; $y < 0$ $-4 < 0$ $\sqrt{}$

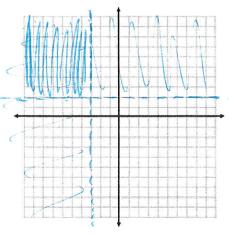
In Exercises 7-12, graph the system of linear inequalities.

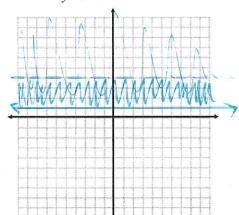
7.
$$y > 2$$

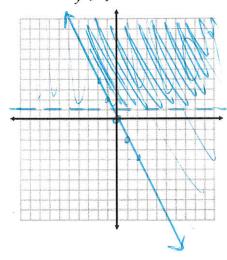
$$x < -3$$

8.
$$y \ge 1$$



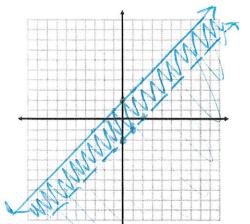






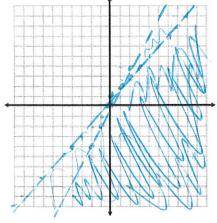
10.
$$y \le x + 2$$

$$y > x - 2$$

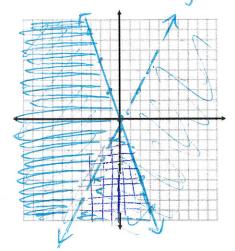


11.
$$y < 2x$$

$$y < x + 1$$

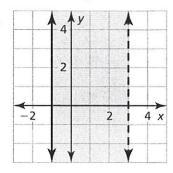


12.
$$3x + y \le 0$$
 $y \le -3x$
 $-2x + y > -1$ $y > 2x - 1$

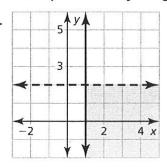


In Exercises 13 - 15, write a system of linear inequalities represented by the graph.

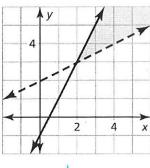
13.



14.

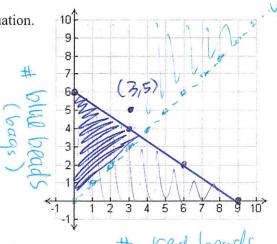


15.



16. You can spend at most \$18 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.

(2,3)

2 bags of red beads of 3 bags of blue beads are under 18 à gives more islue than red.

red beads (bugs)

c. Use the graph to determine whether you can buy 3 bags of red beads and 5 bags of blue beads. (3,5) (5

No, not a solution