

# Graphing Linear Inequalities

1.

2.

3.

4.

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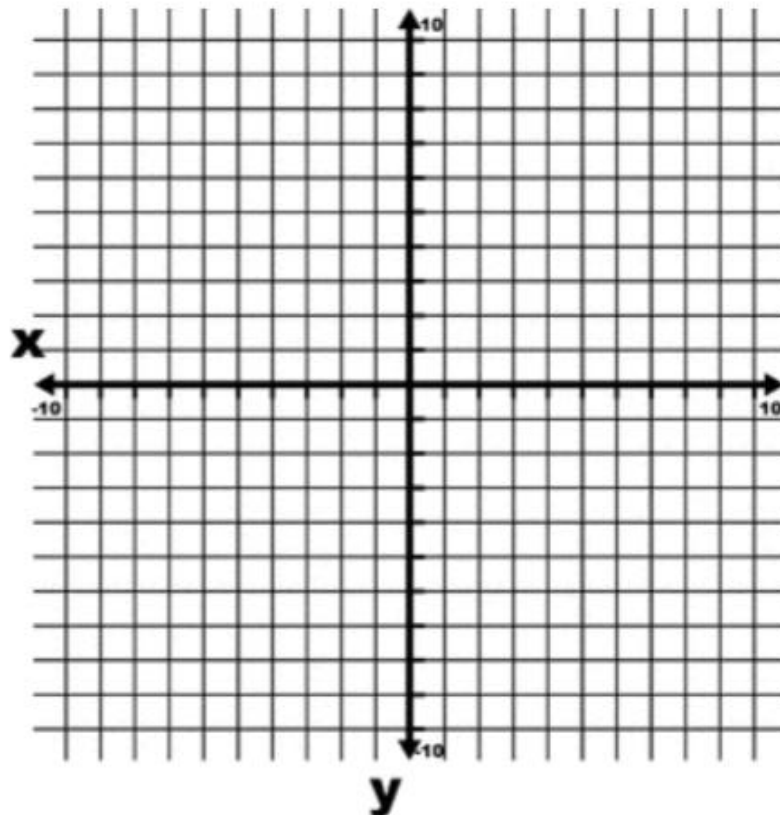
SOLID LINE

DASHED LINE

SHADE ABOVE

SHADE BELOW

Example: Graph  $2x - 3y < 12$



## Graphing Inequalities Practice

Date \_\_\_\_\_ Period \_\_\_\_\_

**Check to see if the given point is a solution to the inequality**

1)  $x + 2y \leq 12$ , (2,5)

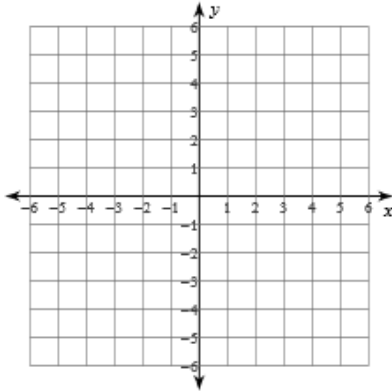
2)  $5x - 2y \geq 27$ , (2, -8)

3)  $y < 11x + 3$ , (0,3)

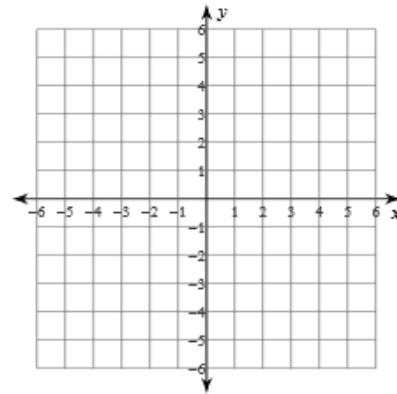
4)  $y > -2x - 10$ , (-5, 1)

**Sketch the graph of each linear inequality.**

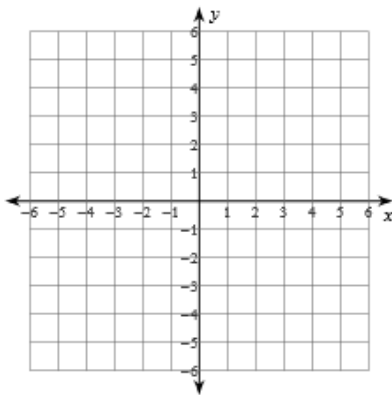
5)  $y \geq -\frac{4}{5}x - 3$



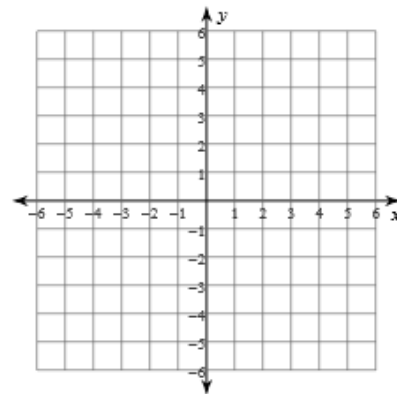
6)  $y > 6x + 2$



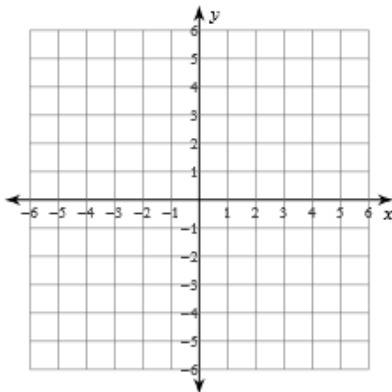
7)  $y \leq -\frac{1}{5}x - 1$



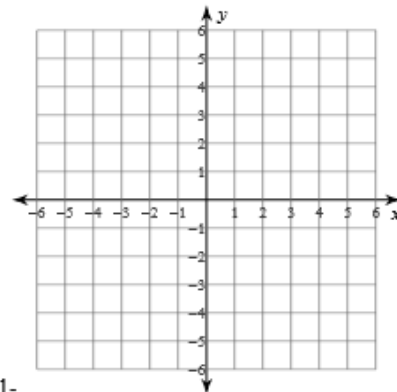
8)  $y \leq -2x$



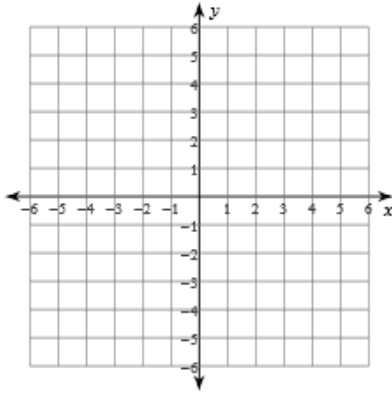
9)  $y \geq \frac{5}{3}x$



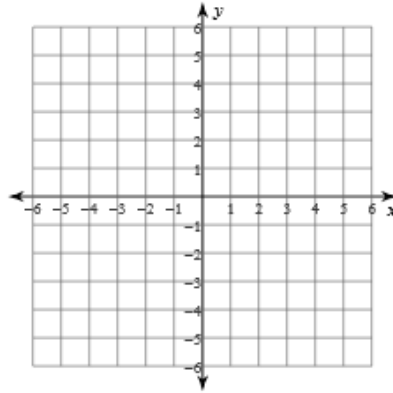
10)  $y < \frac{2}{5}x + 1$



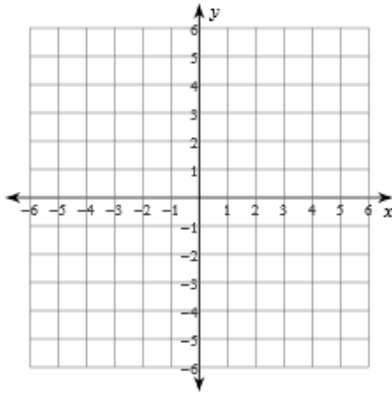
11)  $2x + y \geq 2$



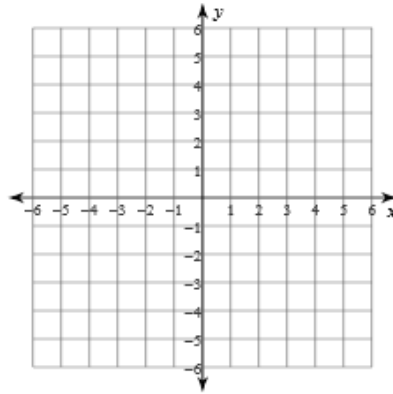
12)  $y < 2$



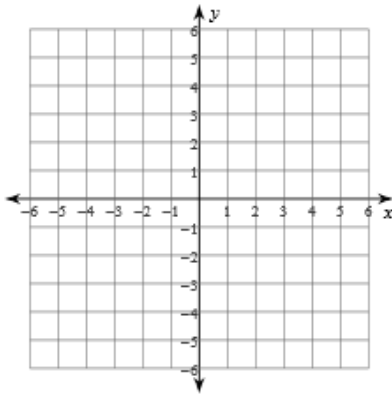
13)  $2x - y \geq -4$



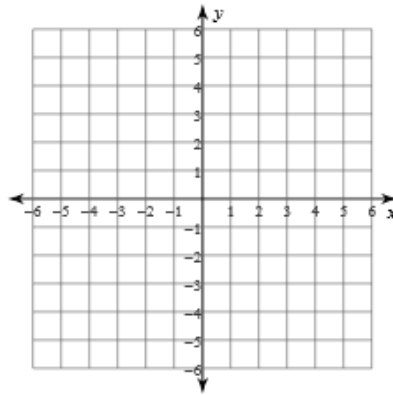
14)  $3x + 5y \geq 20$



15)  $x - 3y \leq -12$



16)  $9x - 4y > -16$

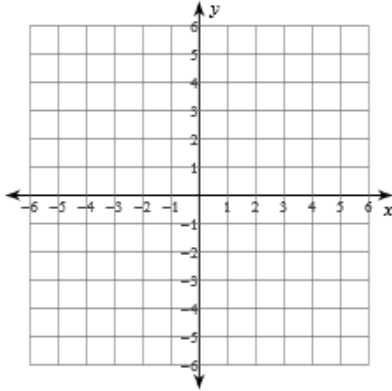


## Graphing Inequalities Practice

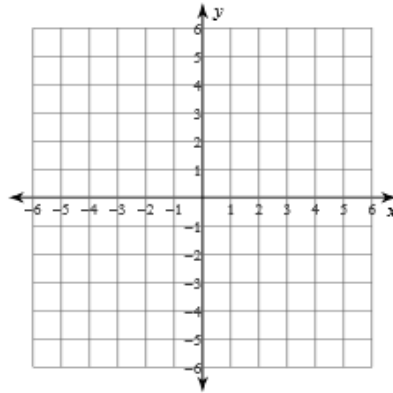
Date \_\_\_\_\_ Period \_\_\_\_\_

Write the linear inequality.

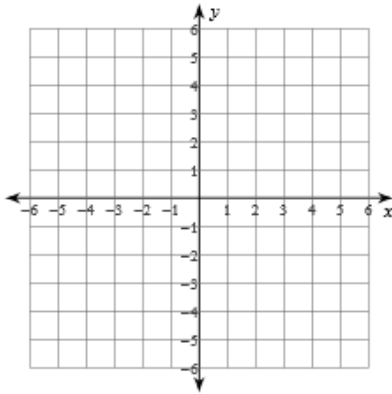
1)  $y < -x + 1$



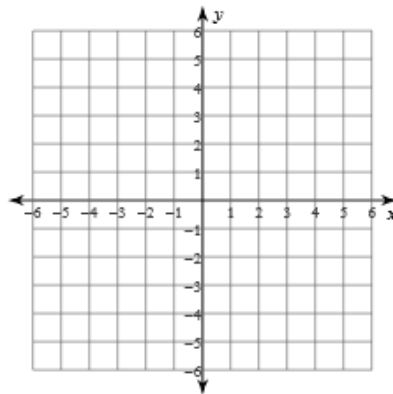
2)  $y \geq \frac{2}{5}x - 3$



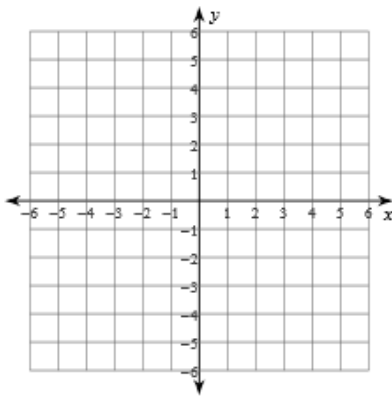
3)  $y \geq 5x$



4)  $y > -\frac{3}{4}x + 2$



5)  $y < -4$



6)  $x + 2y \leq 8$

