

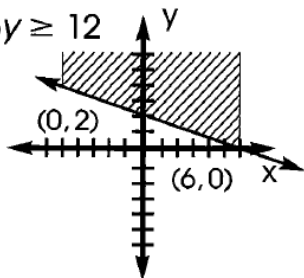
Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

### Graphing Linear Inequalities

Graph each inequality, recalling that  $\leq$  and  $\geq$  require a solid line which includes the values on the line, while  $<$  and  $>$  require a dashed line, excluding the values on the line.

**Example 1:**  $2x + 6y \geq 12$

x	y
0	2
6	0

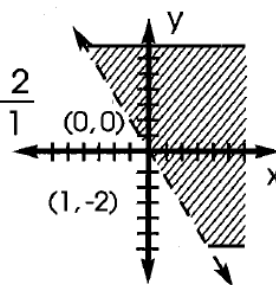


**Example 2:**  $y > -2x$

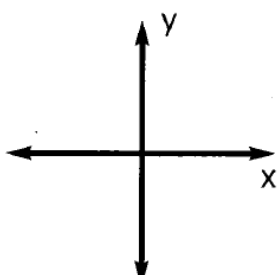
$$m = \frac{-2}{1} \text{ Down 2 Right 1}$$

y - int (0,0)

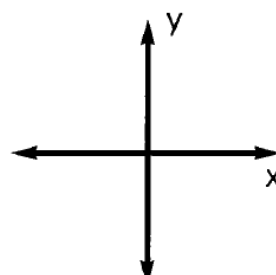
**Note:** Dashed line



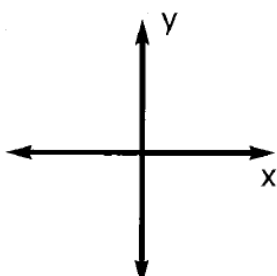
1.  $y > x + 1$



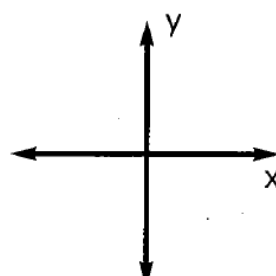
2.  $3x - y \leq 6$



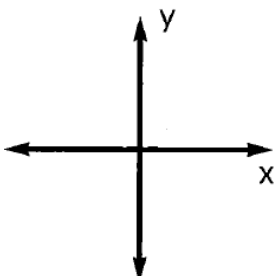
3.  $y + 5 \leq 0$



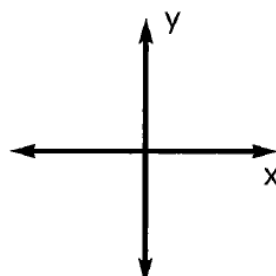
4.  $y \geq 2x - 3$



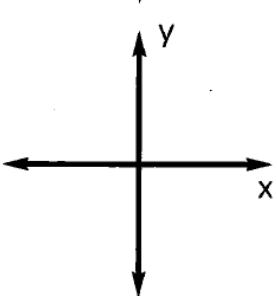
5.  $x + y < 3$



6.  $2x + y > 8$



7.  $y < -\frac{1}{2}x + 1$



8.  $3x - 4y \leq 12$

