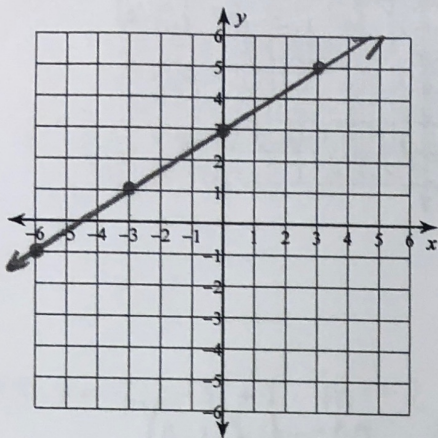


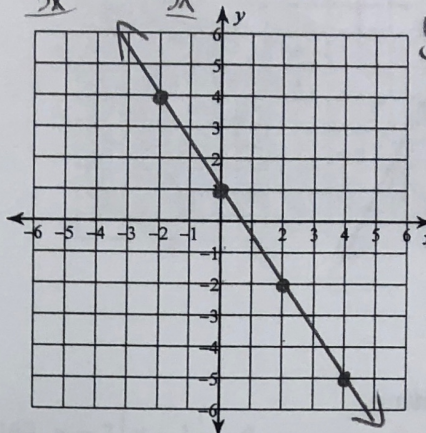
Graphing Inequalities Review

Sketch the graph of each line.

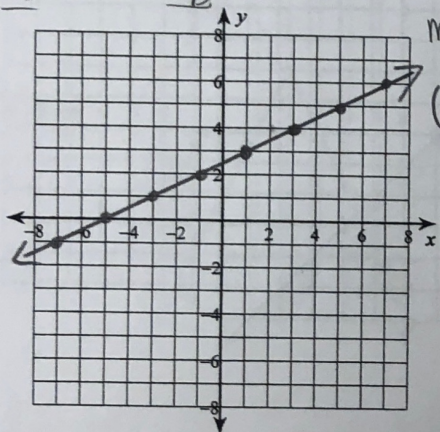
1) $y = \frac{2}{3}x + 3$ $m = \frac{2}{3}$ $b = 3$



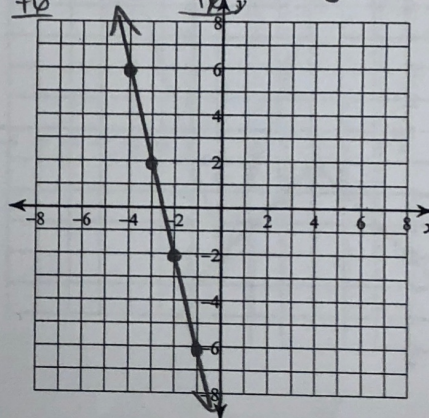
2) $3x + 2y = 2$ $\frac{2y}{2} = \frac{-3x+2}{2}$
 $\frac{-3x}{-3x} \quad \frac{-3x}{-3x}$ $y = -\frac{3}{2}x + 1$
 $m = -\frac{3}{2}$ $b = 1$



3) $y = \frac{1}{2}(x-1) + 3$ $y - 3 = \frac{1}{2}(x-1)$
 $\frac{-3}{-3} \quad \frac{-3}{-3}$ $m = \frac{1}{2}$

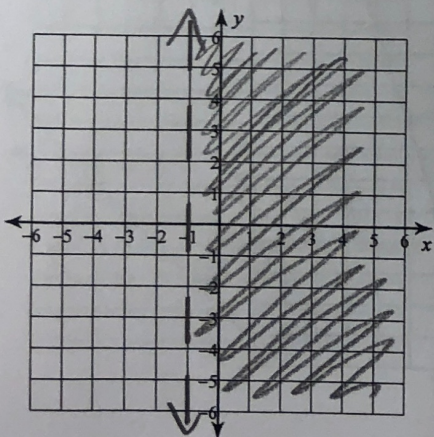


4) $y = -4(x+1) - 6$ $y + 6 = -4(x+1)$
 $\frac{+6}{+6} \quad \frac{+6}{+6}$ $m = -4$
 $(-1, -6)$

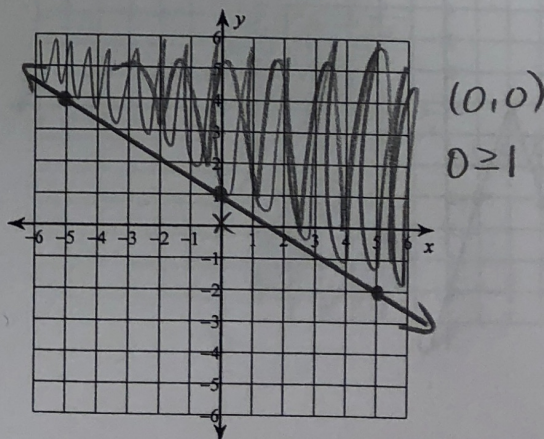


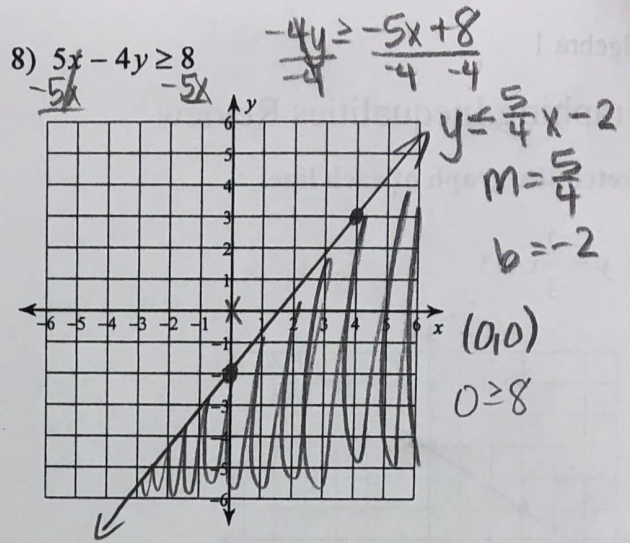
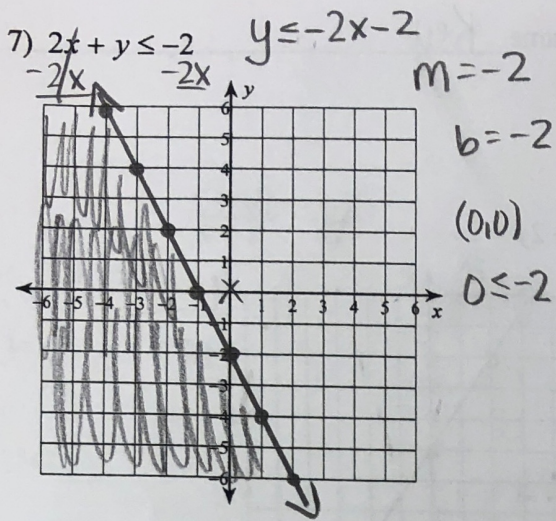
Sketch the graph of each linear inequality.

5) $x > -1$

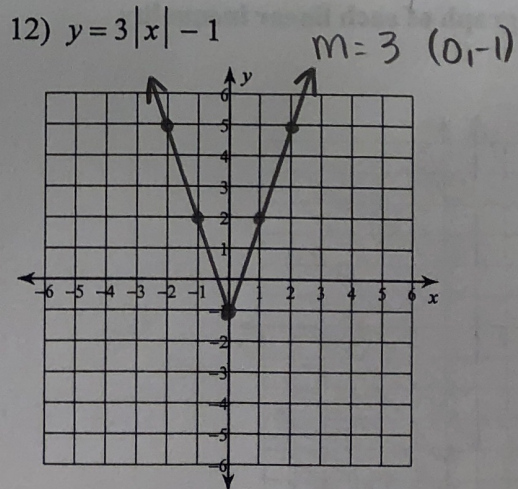
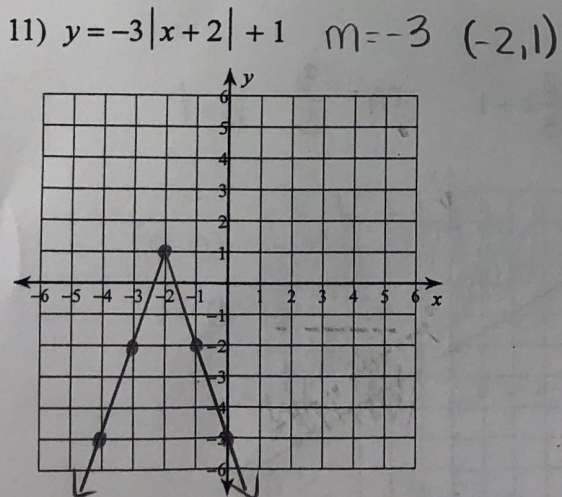
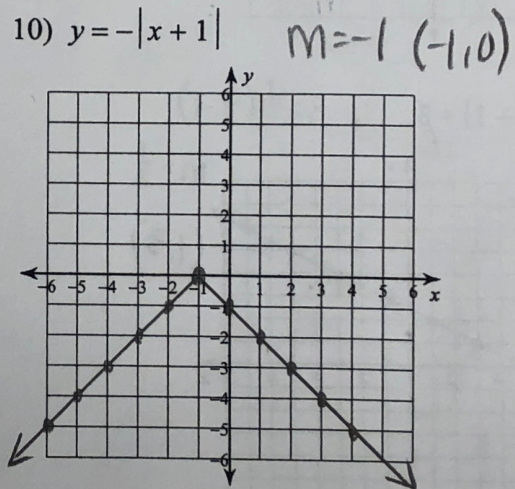
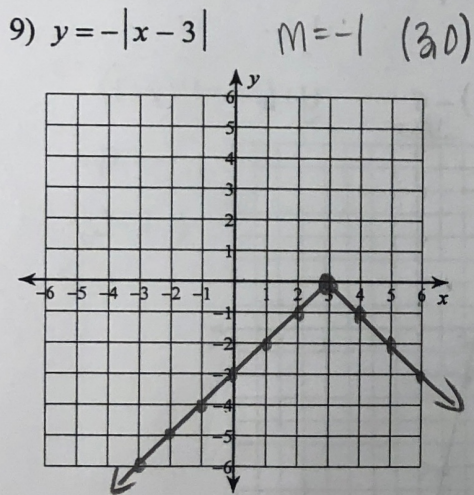


6) $y \geq -\frac{3}{5}x + 1$ $m = -\frac{3}{5}$ $b = 1$

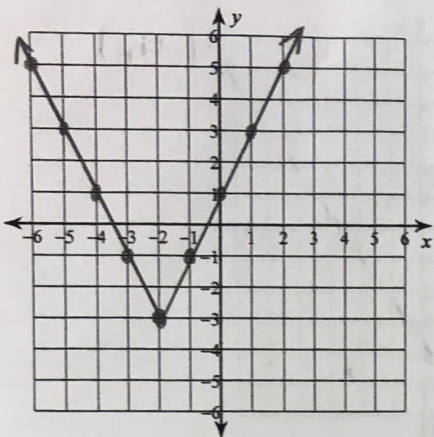




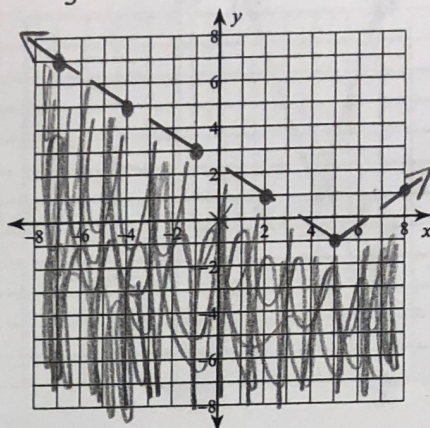
Graph each equation.



13) $y = 2|x+2| - 3$ $m = 2$ $(-2, -3)$

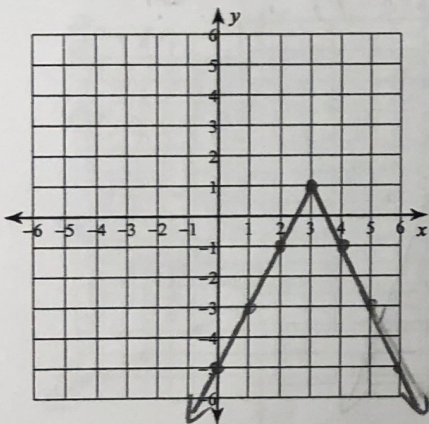


14) $y < \frac{2}{3}|x-5| - 1$ $m = \frac{2}{3}$ $(5, -1)$

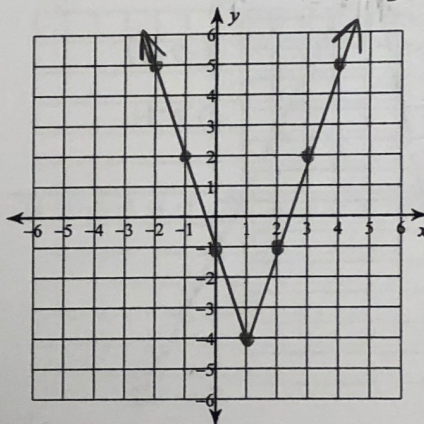


$(0, 0)$
 $0 < \frac{10}{3} - 1$
 $0 < \frac{7}{3}$

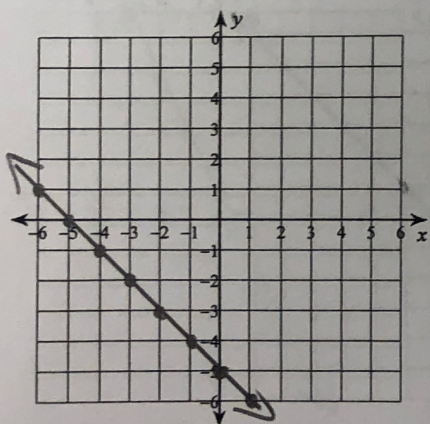
15) $y = -2|x-3| + 1$ $m = -2$ $(3, 1)$



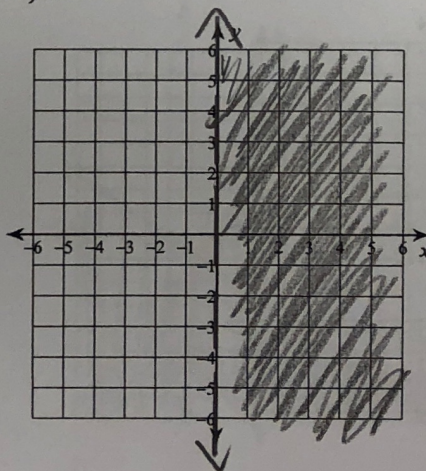
16) $y = 3|x-1| - 4$ $m = 3$ $(1, -4)$



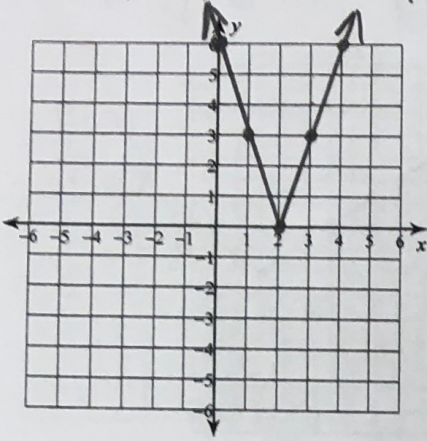
17) $y = -x - 5$ $m = -1$ $b = -5$



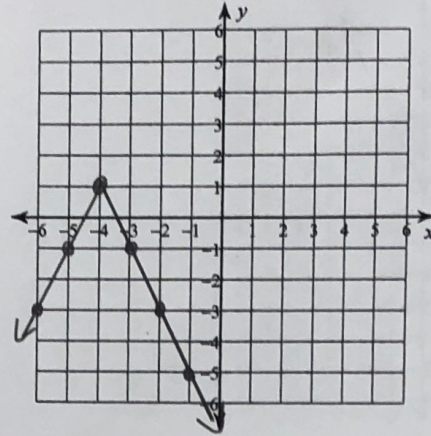
18) $x > 0$



19) $y = 3|x - 2|$ $m = 3$ $(2, 0)$

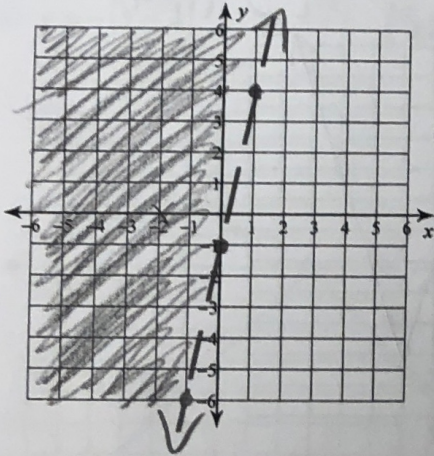


20) $y = -2|x + 4| + 1$ $m = -2$



$(-4, 1)$

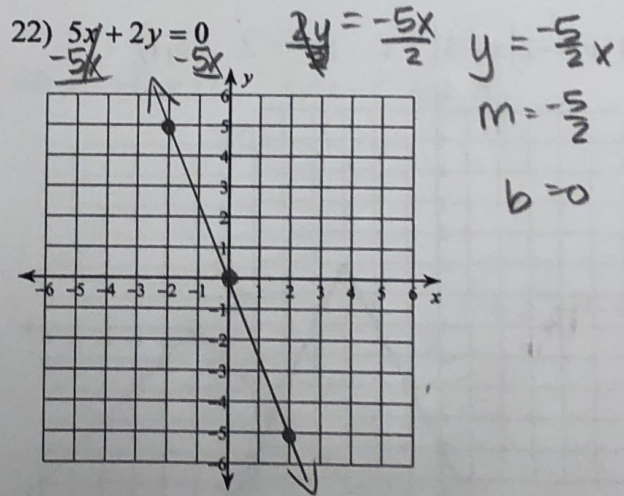
21) $y > 5x - 1$ $m = 5$ $b = -1$



$(-2, 0)$

$0 > -1$

22) $5x + 2y = 0$



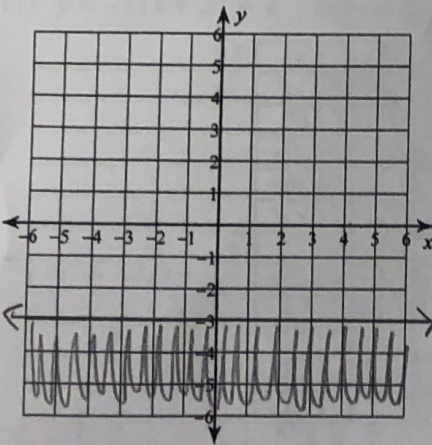
$2y = -\frac{5x}{2}$

$y = -\frac{5}{2}x$

$m = -\frac{5}{2}$

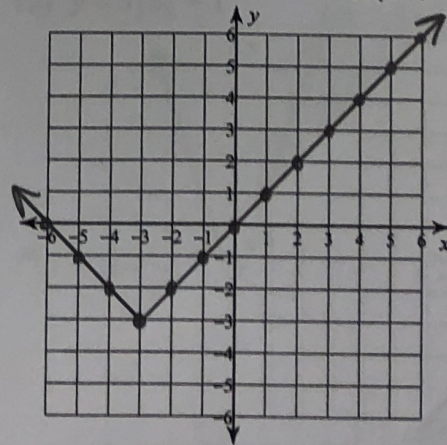
$b = 0$

23) $y \leq -3$



24) $y = |x + 3| - 3$

$m = 1$ $(-3, -3)$

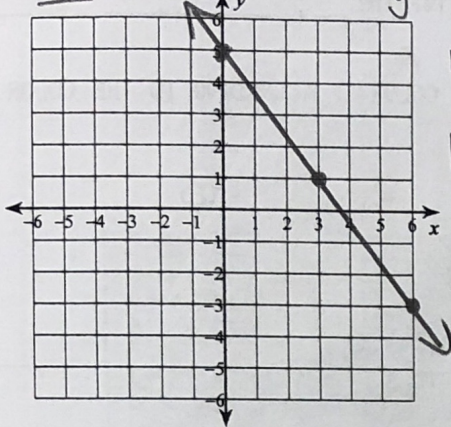


$$25) 4x + 3y = 15$$

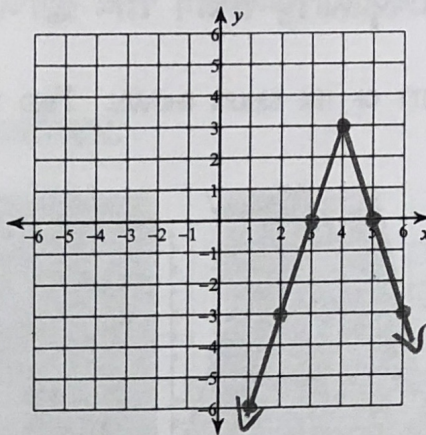
$$\frac{By}{B} = \frac{-4x + 15}{3} \Rightarrow y = -\frac{4}{3}x + 5$$

$$m = -\frac{4}{3}$$

$$b = 5$$



$$26) y = -3|x - 4| + 3 \quad m = -3 \quad (4, 3)$$

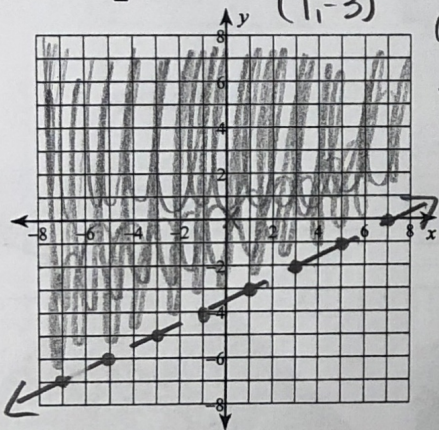


$$27) y + 3 > \frac{1}{2}(x - 1) \quad m = \frac{1}{2}$$

$$(1, -3)$$

$$(0, 0)$$

$$3 > -\frac{1}{2}$$

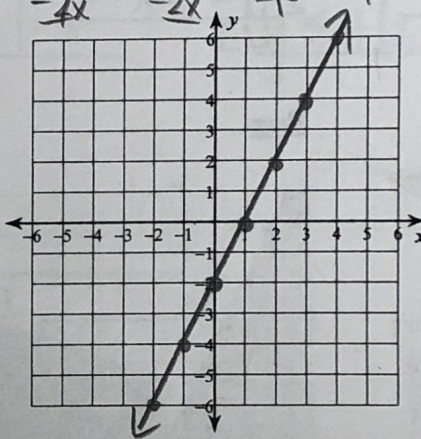


$$28) 2x - y = 2 \Rightarrow y = -2x + 2$$

$$y = 2x - 2$$

$$m = 2$$

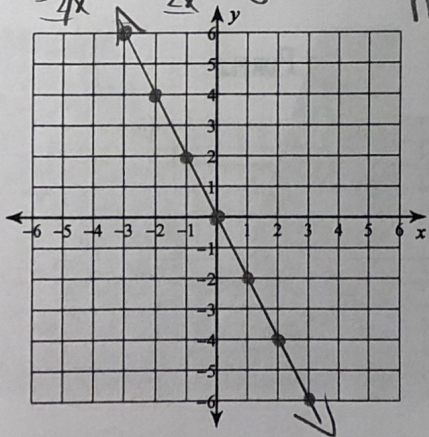
$$b = -2$$



$$29) 2x + y = 0 \Rightarrow y = -2x$$

$$m = -2$$

$$b = 0$$



$$30) y + 2 \leq -\frac{2}{3}(x + 1) \quad m = -\frac{2}{3} \quad (-1, -2)$$

$$(0, 0)$$

$$2 \leq -\frac{2}{3}$$

