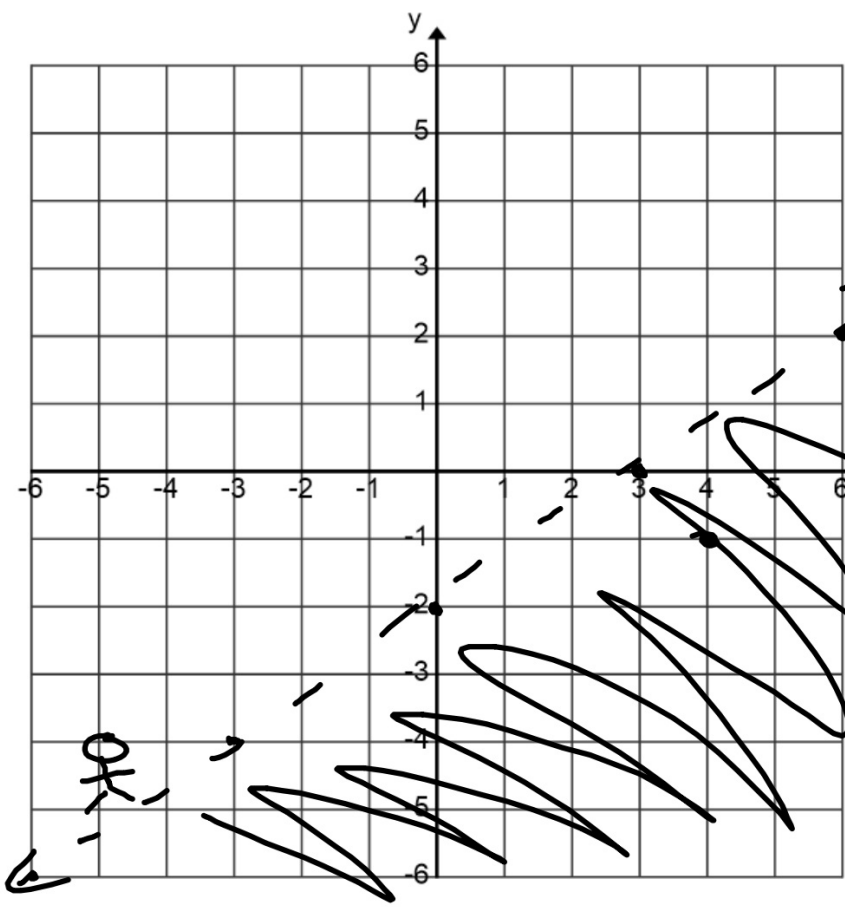


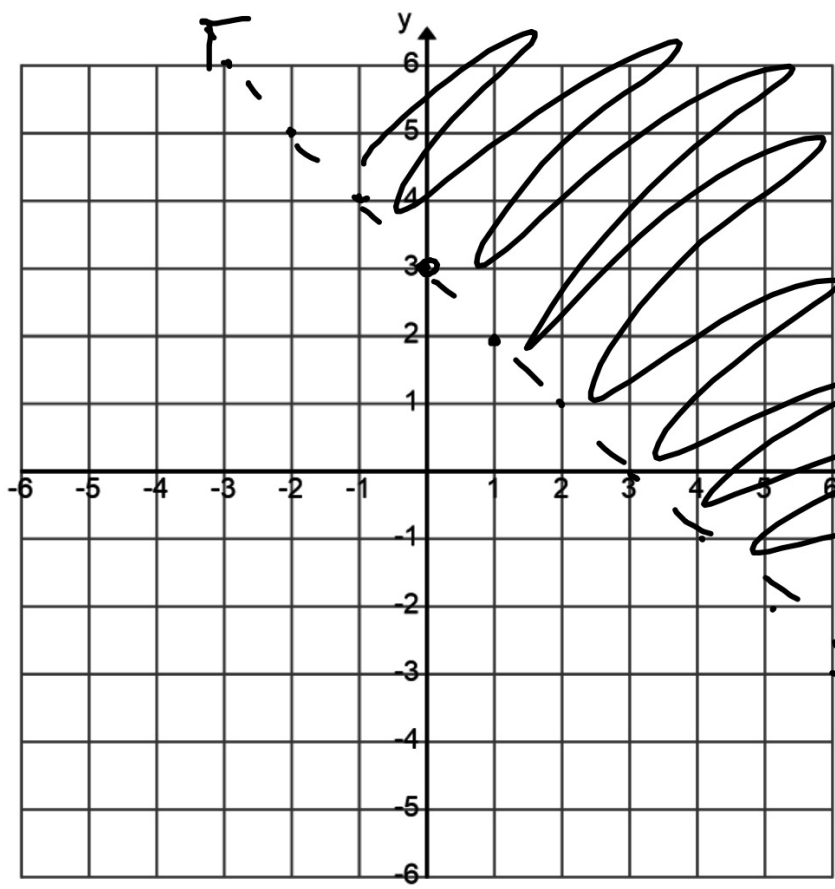
slope y-int.
↓ ↓
 $y = 2x + 3$

x	y
1	5
3	9
-1	1
0	3



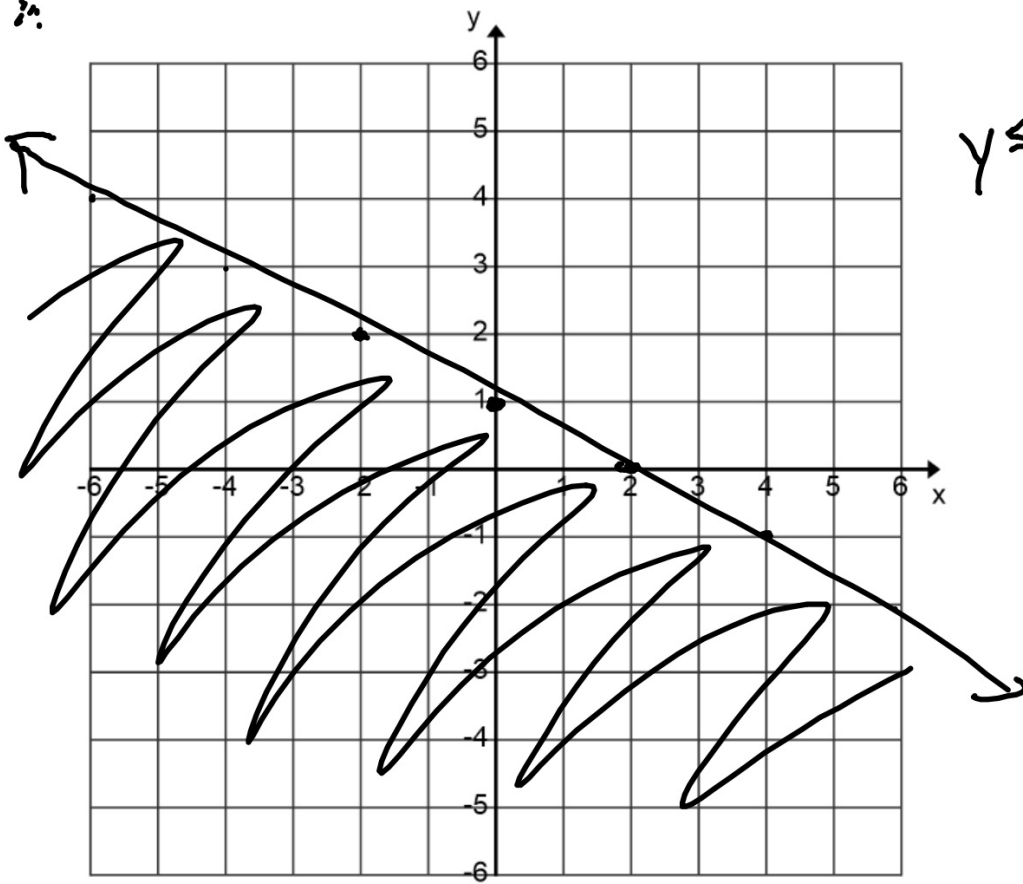
$$y < \frac{2}{3}x - 2$$

- V
^ V



$$y > -x + 3$$

2a.



$$y \leq -\frac{1}{2}x + 1$$

$$\textcircled{3} \quad y \leq \frac{1}{3}x - 1$$

$$\textcircled{4} \quad y \leq 3x + 1$$

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

$$\textcircled{6} \quad y > -\frac{1}{2}x - 3$$

$$\textcircled{7} \quad y \leq -x + 3$$

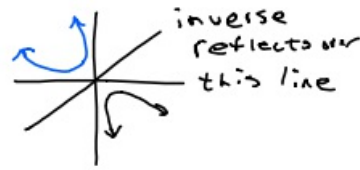
$$\textcircled{8} \quad y < -2x - 4$$

10-14-19 3rd Trig

① $f(x) = 3x - 4$

Find the inverse of this function.

$f^{-1}(x)$



$$y = 3x - 4$$

$$x = 3y - 4$$

$$\begin{array}{r} +4 \qquad +4 \\ \hline \frac{x+4}{3} = \frac{3y}{3} \end{array}$$

$$f^{-1}(x) = \frac{x+4}{3}$$

② Find the inverse function to

$$f(x) = x^2 + 3$$

$$y = x^2 + 3$$

$$x = y^2 + 3$$

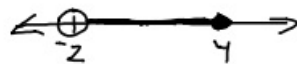
$$\begin{array}{r} -3 \qquad -3 \\ \hline \sqrt{x-3} = \sqrt{y^2} \end{array}$$

$$y = \pm \sqrt{x-3}$$

$$f^{-1}(x) = \pm \sqrt{x-3}$$

Interval notation

③ $-2 < x \leq 4$



$$\left(-2, 4 \right] \quad (-2, 4]$$

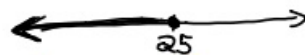
↑ starts ends
lower larger
#

④ $x \geq 2$

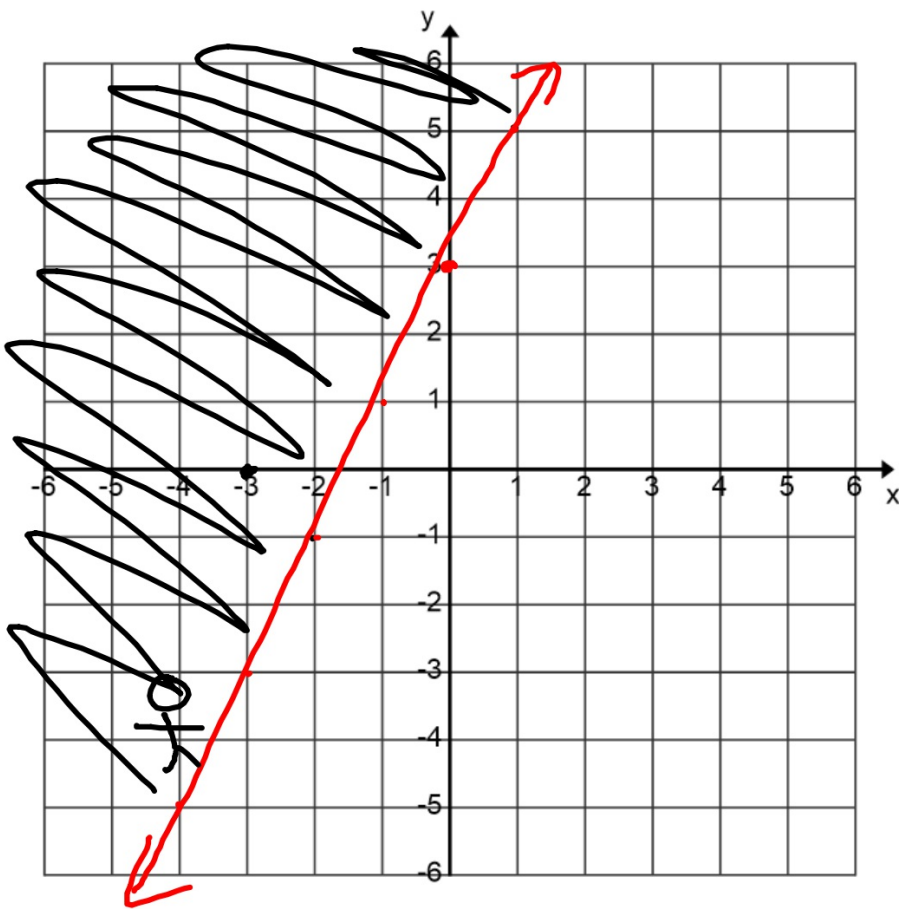


$$\left[2, \infty \right)$$

⑤ $x \leq 25$



$$\left(-\infty, 25 \right]$$



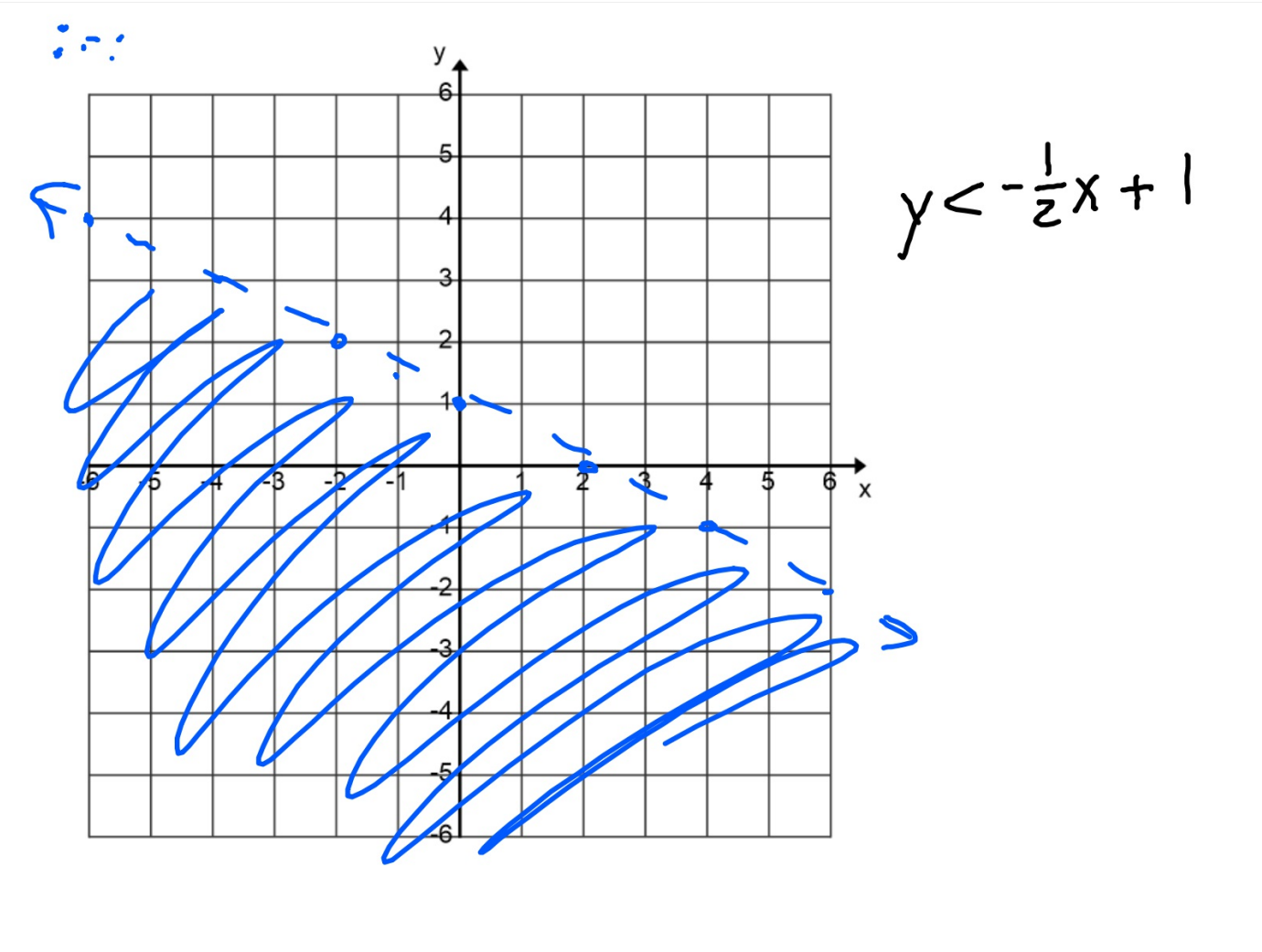
. 2x,

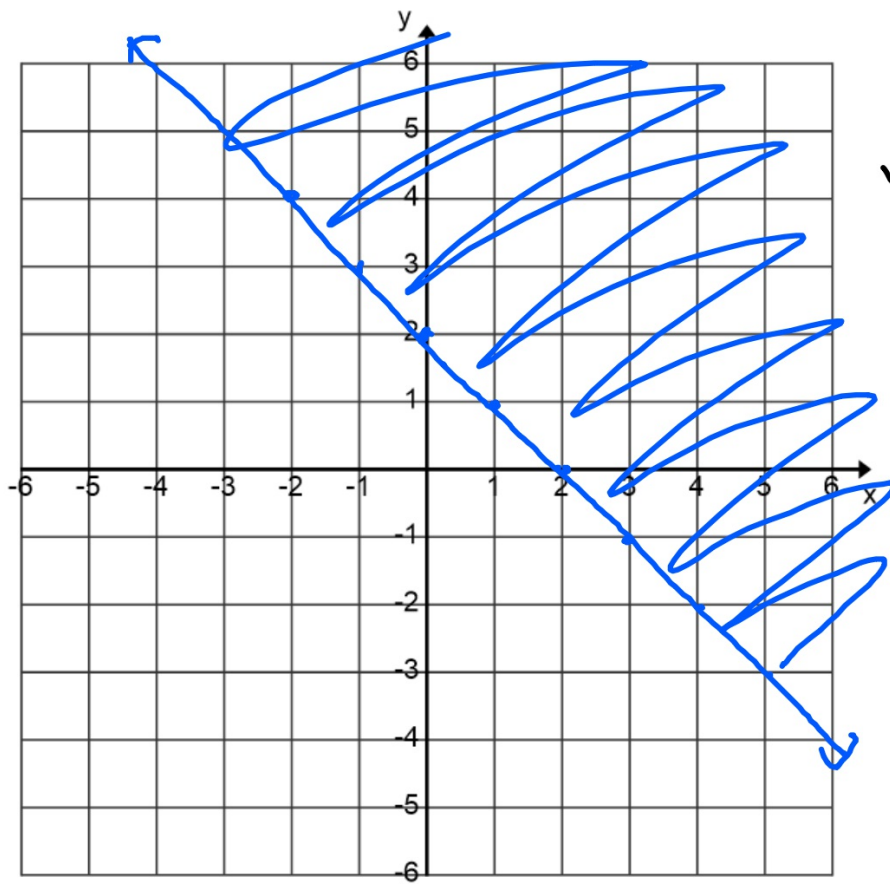
$$y = 2x + 3$$

↑ slope ↑ y-int.

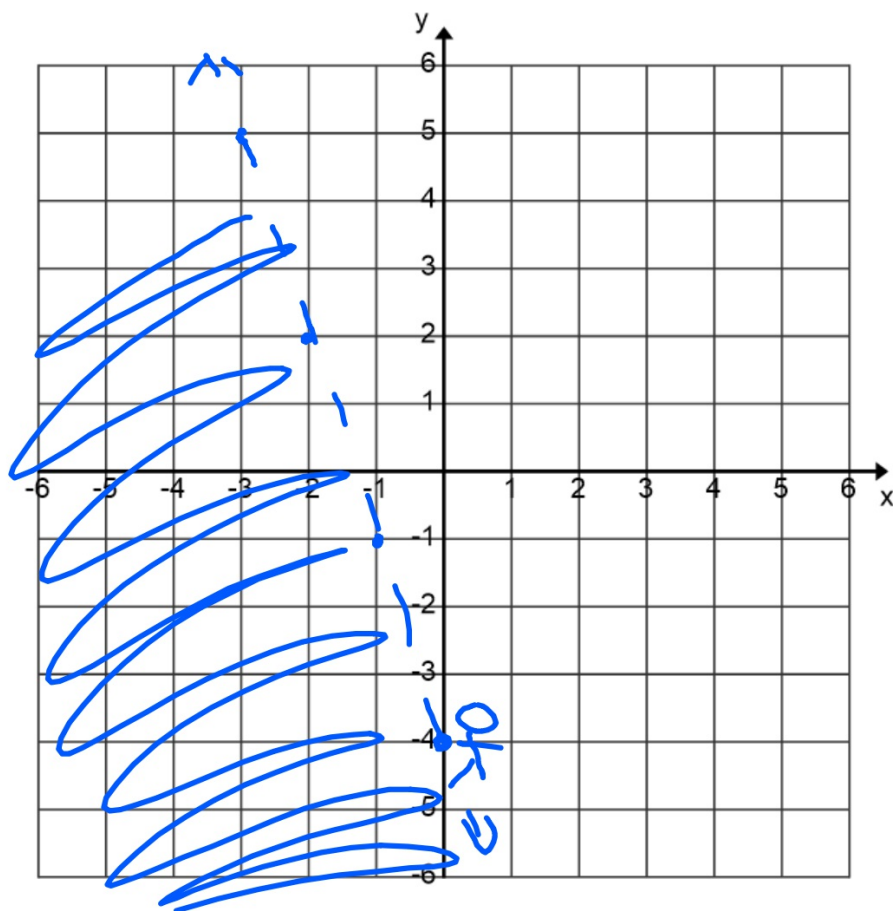
x	y
1	5
-2	-1
0	3

10 >
 < 8





$$y \geq -x + 2$$



$$y < -3x - 4$$