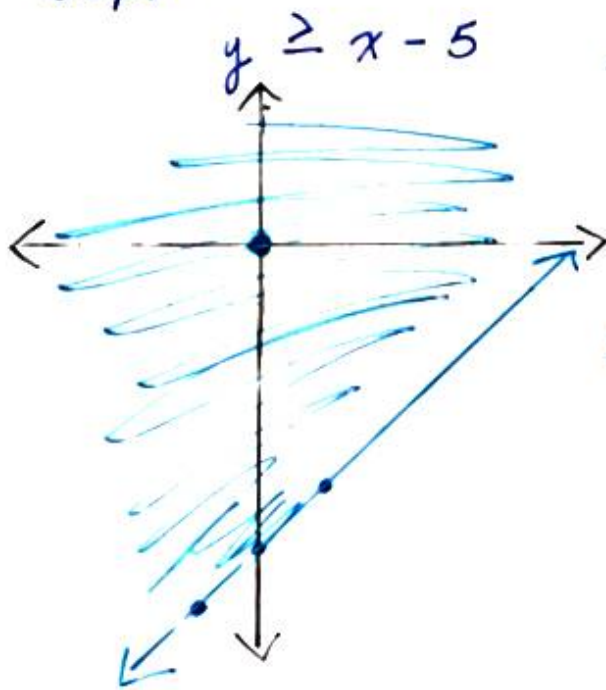


Graph:



x	y
-1	-6
0	-5
1	-4

(0,0)

$$0 \geq 0 - 5$$

$$0 \geq -5$$

$$\textcircled{4} \quad \begin{aligned} 2x + y &\geq 1 && \rightarrow y \geq -2x + 1 \\ x - y &\geq -2 && \rightarrow -y \geq -x - 2 \rightarrow y \leq x + 2 \end{aligned}$$

$$y \geq -2x + 1$$

x	y
-1	3
0	1
1	-1

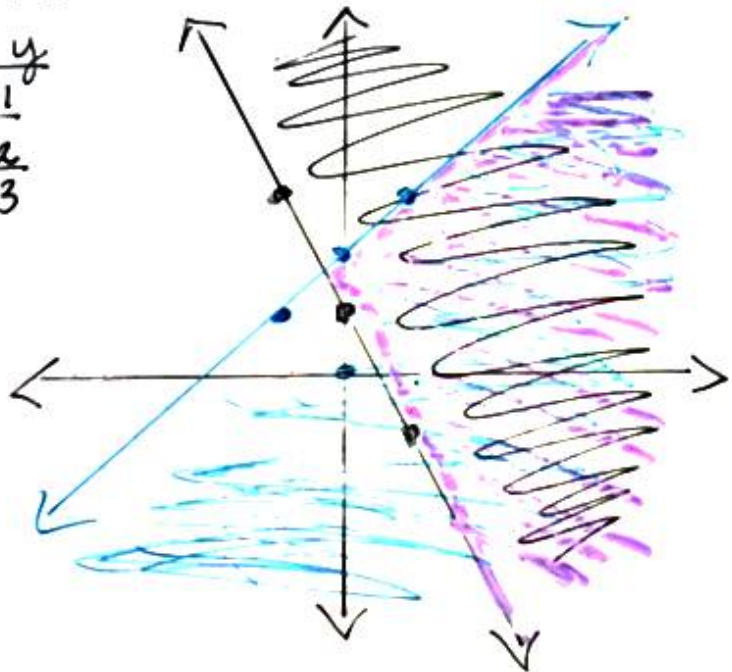
$$y \leq x + 2$$

x	y
-1	1
0	2
1	3

$$\begin{aligned} (0,0) \quad 0 &\geq -2(0) + 1 \\ &0 \geq 1 \end{aligned}$$

$$0 \leq 0 + 2$$

$$0 \leq 2$$



Steps to graph inequalities

1. Put inequality in slope-intercept form
2. Choose values for x

x	y
-1	
0	
1	

(fraction choose the denominator)
3. Solve for the y -values
4. Choose solid or dashed line
 $\leq \geq$ or $< >$
5. Plot your points and graph line.
6. Choose a point not on your line and plug in your values $(0, 0)$
7. If the inequality is true, shade where that point is. If the inequality is false, shade the other area.

p. 59 4-9 all p. 60 choose 1