

8-6

Slope-intercept form

$$y = 2x + 1$$

m	b
2	1

$$y = \frac{1}{3}x - 3$$

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

$$y = -2x + 1$$

-2	1
----	---

$$y = mx + b$$

Slope \uparrow

\uparrow y-intercept

$$y = \frac{3}{5}x - 7$$

$$y = mx + b$$

$$5x + y = 3 - 5x$$

$$-5x$$

$$y = 3 - 5x$$

$$y = -5x + 3$$

$$7x + 7y = 28$$

$$-7x$$

$$\frac{7y}{7} = \frac{28 - 7x}{7}$$

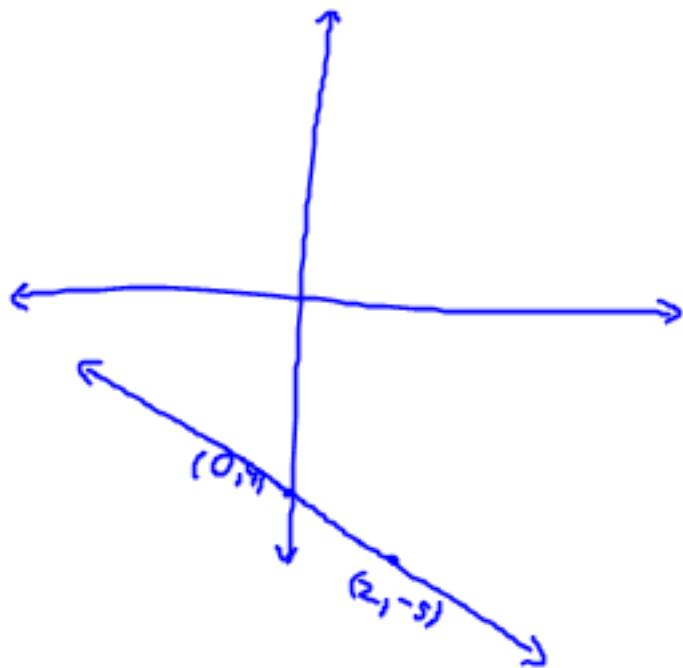
$$y = 4 - x$$

$$y = -x + 4$$

$$y = -\frac{1}{2}x - 4$$

$$m = -\frac{1}{2} \quad b = -4$$

$$\frac{-1}{2} \quad \frac{\text{rise}}{\text{run}}$$

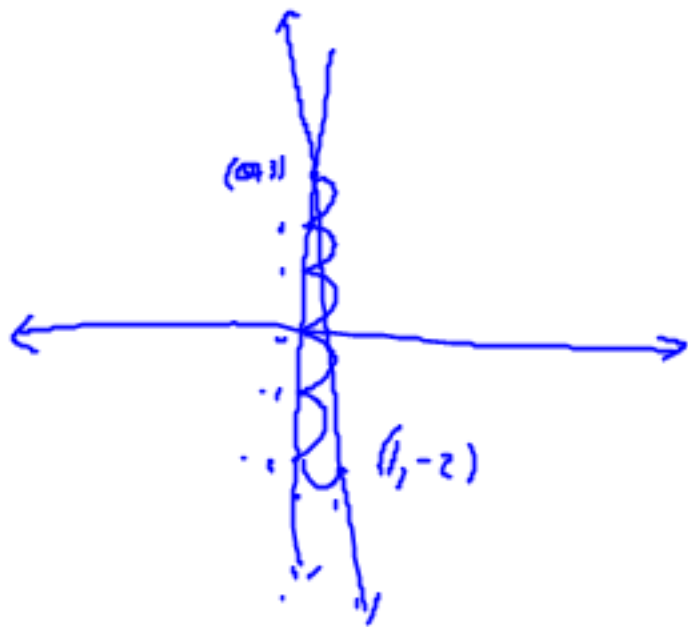


$$y = -5x + 3$$

$$m = -5 \rightarrow \frac{-5}{1}$$

$$b = 3$$

$$(0, 3)$$



pg. 400

20-31