

7-3-14

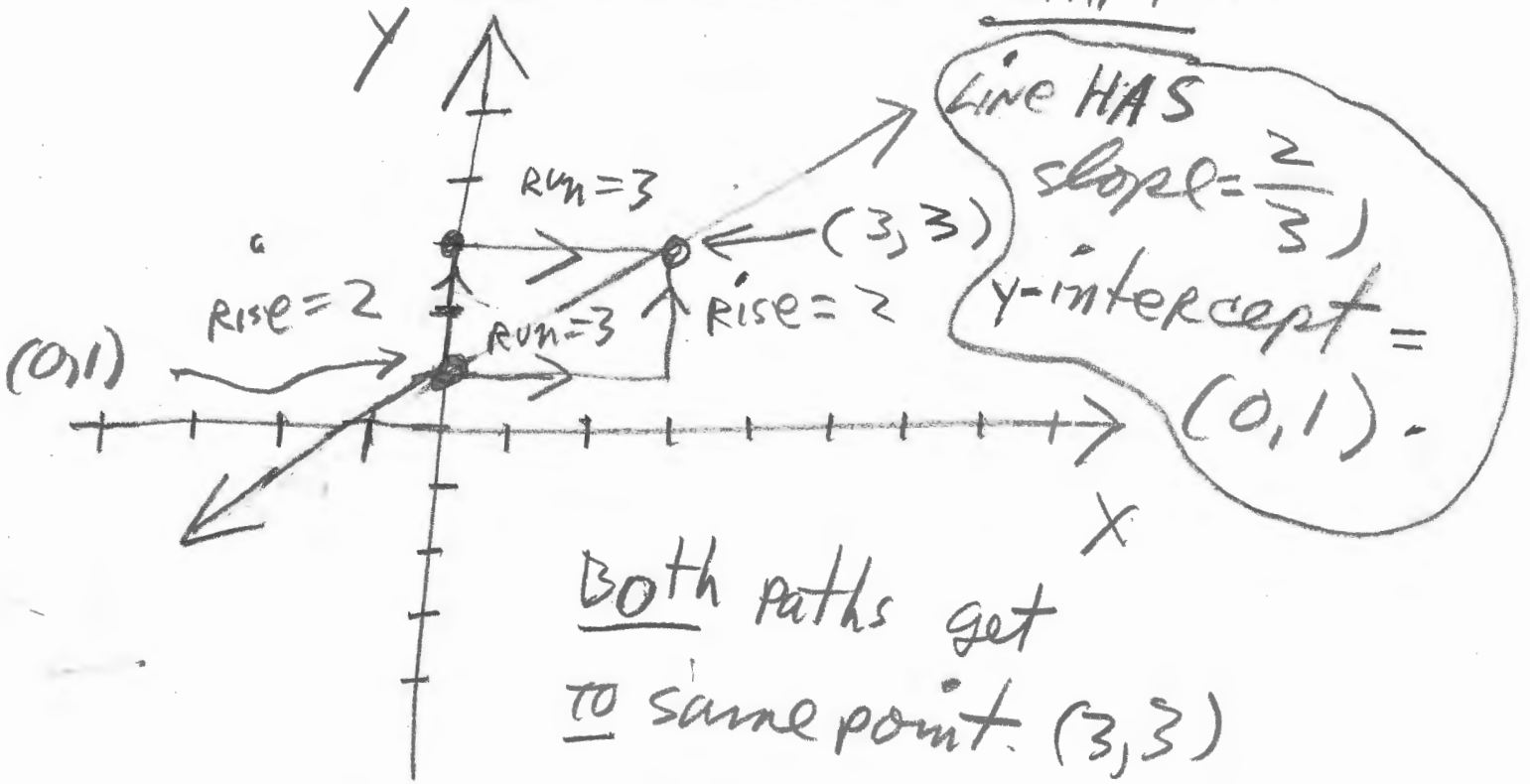
supplementary notes:

secs. 3.5, 3.6

3.5

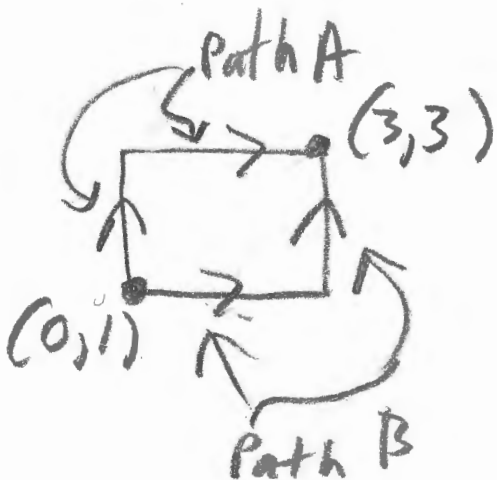
MY EXAMPLE

GRAPH



Both paths get
to same point. $(3, 3)$

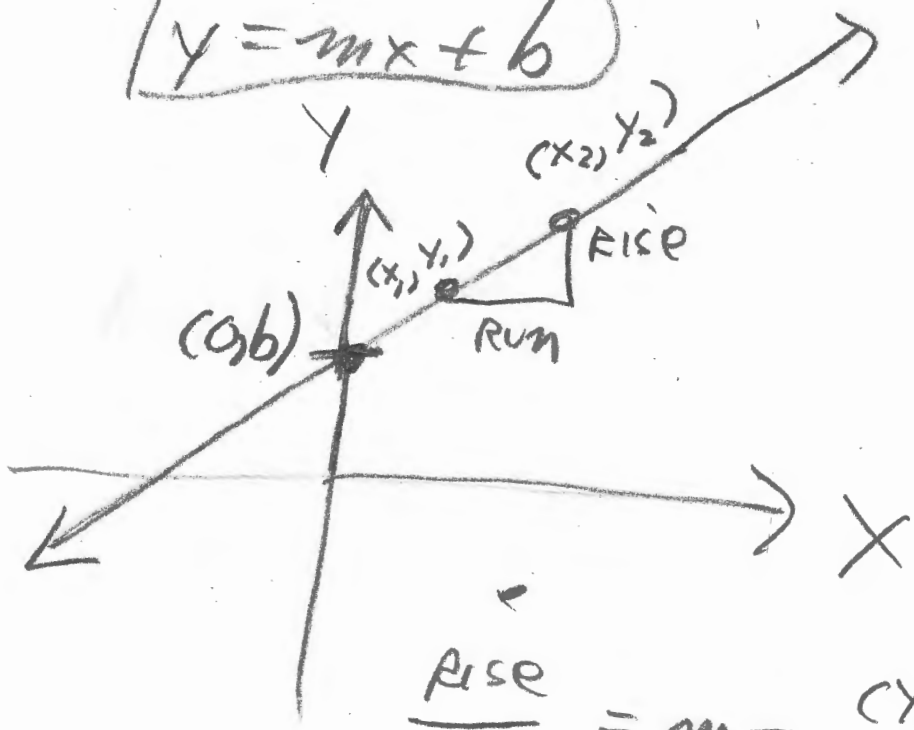
from $(0, 1)$



3.6

slope-intercept form.

$$y = mx + b$$



$$\frac{\text{Rise}}{\text{Run}} = m = \frac{(y_2 - y_1)}{(x_2 - x_1)}$$

NOTE: set $x = 0$

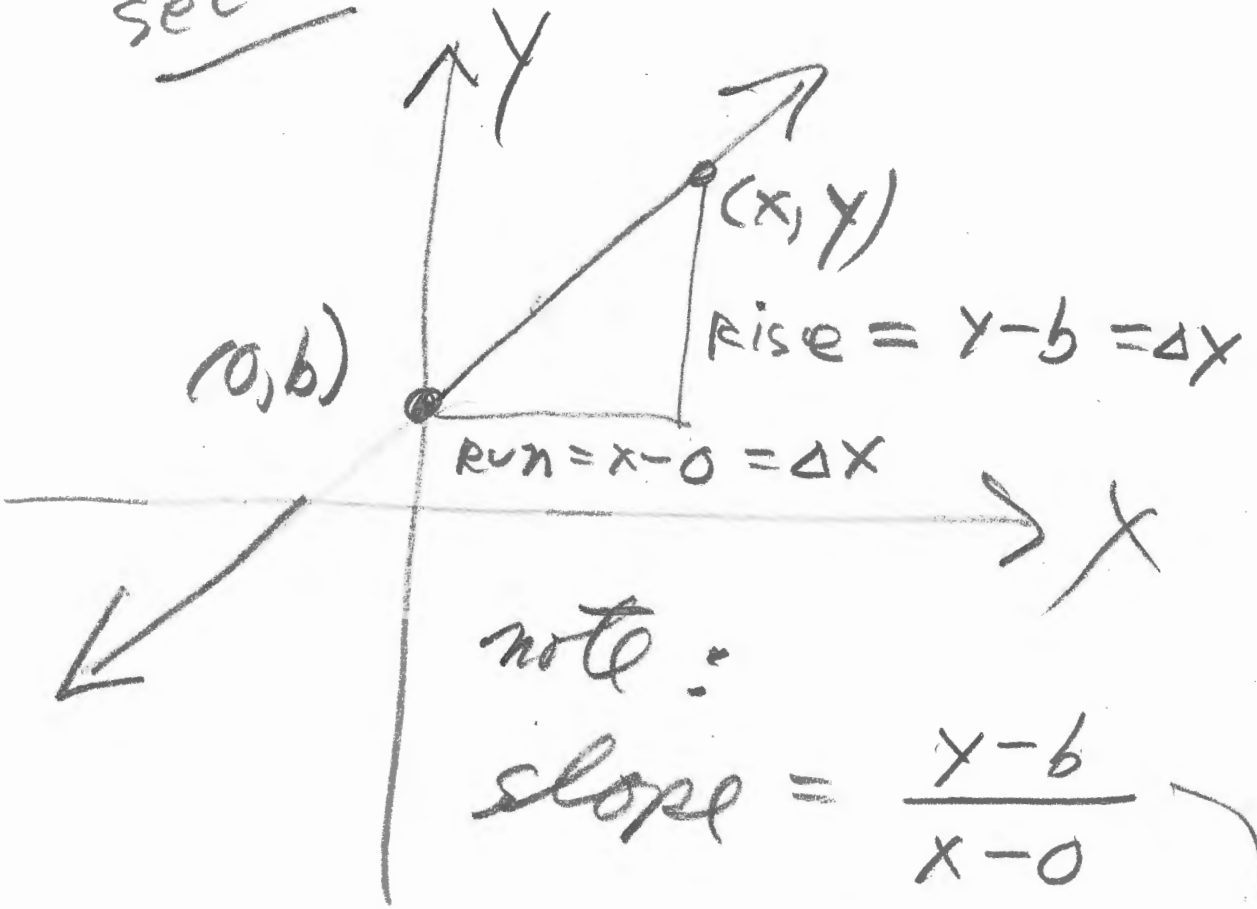
$$y = m \cdot 0 + b$$

$$y = 0 + b$$

$$y = b \Rightarrow (0, b) = y\text{-intercept}$$

sec 3.6

(3)



note:

$$\text{slope} = \frac{y-b}{x-0} = \frac{\Delta y}{\Delta x}$$

$$m = \frac{y-b}{x}$$

CLEAR FRACTION!

$$mx = y - b$$

$mx + b = y$

$$y = mx + b$$

(19.) $y = -\frac{2}{7}x + 5$

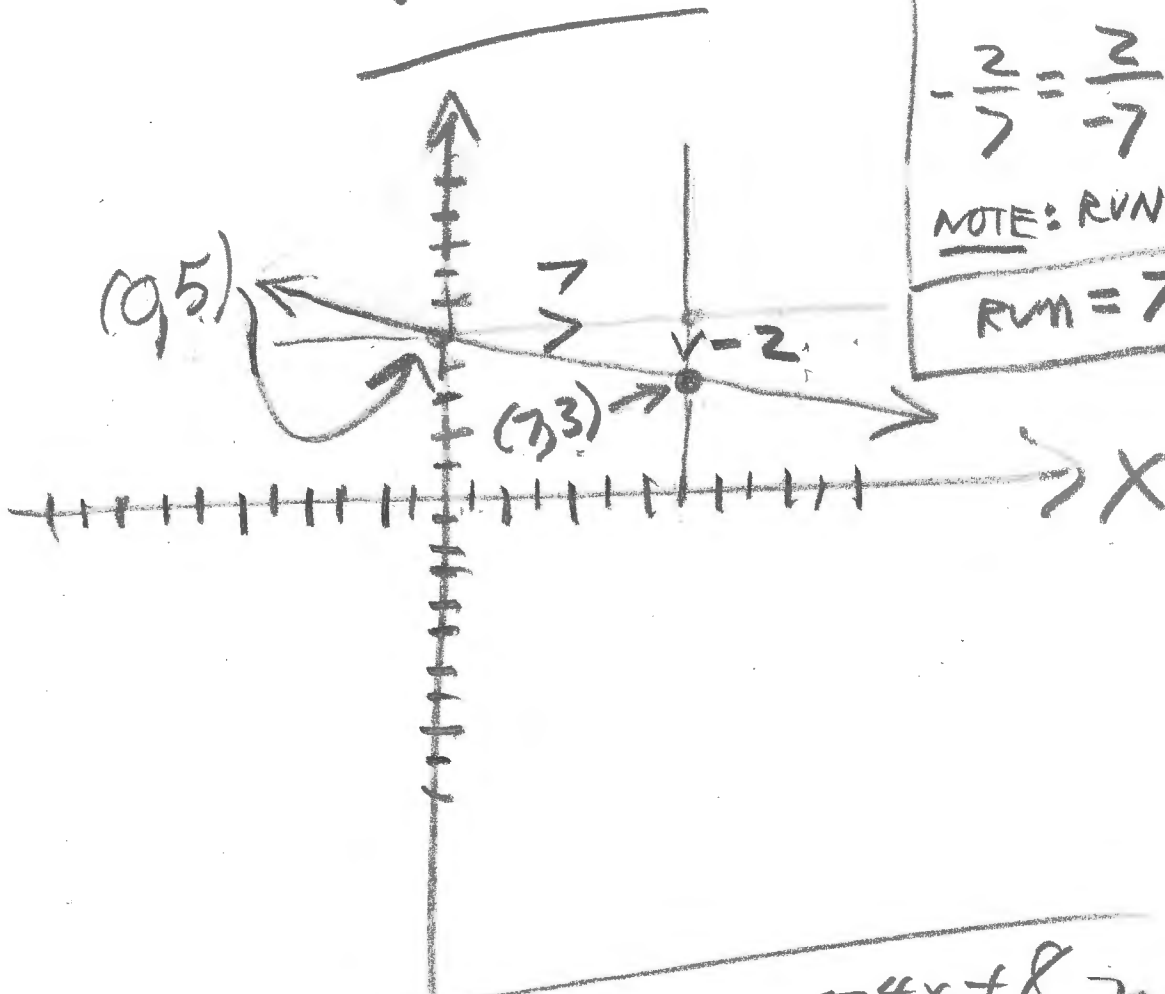
graph it:

$$m = \frac{\text{RISE}}{\text{RUN}} = \frac{-2}{7}$$

$$-\frac{2}{7} = \frac{2}{-7} = \frac{-2}{7}$$

NOTE: RUN > 0

RUN = 7 > 0



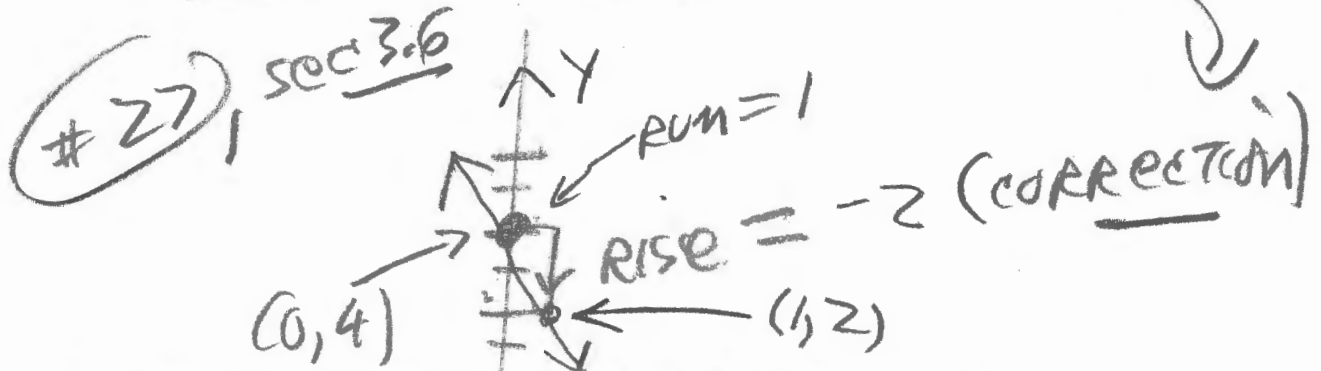
(27.) -5003.6

$$2y = -4x + 8$$

$$\frac{2y}{2} = \frac{-4x + 8}{2}$$

$$y = -2x + 4$$

Correction:



$$\text{slope} = \frac{\text{RISE}}{\text{RUN}} = \frac{-2}{1}$$

← DROP SECOND

↑ RUN FIRST