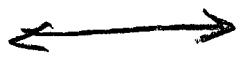


Algebra Weos. 1-16-13

CLASS NOTES

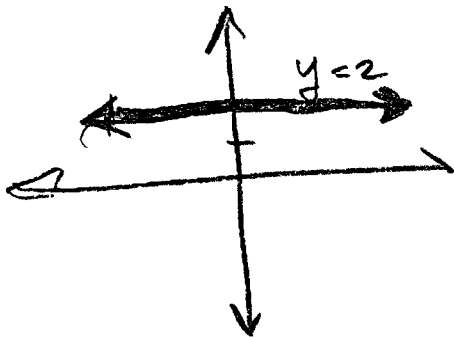
Horizontal



$$m = 0$$

* EOL $y = \text{CONSTANT}$

(ex) $y = 2$



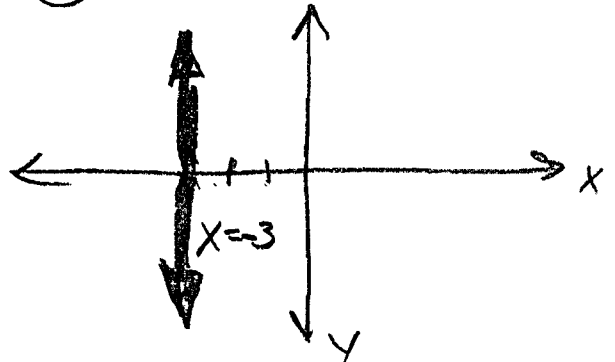
Vertical



$m = \text{undefined}$

* EOL $x = \text{CONSTANT}$

(ex) $x = -3$



Quiz 1 and OBC1 Review

$$\textcircled{2} \quad (-5, -1) \quad // \quad \text{to} \quad y = -\frac{4}{5}x - 1$$

x, y

$$* \quad m_{//} = -\frac{4}{5}$$

$$y = (m)x + (b)$$

$$-1 = \left(-\frac{4}{5}\right)(-5) + b$$

$$-1 = 4 + b$$

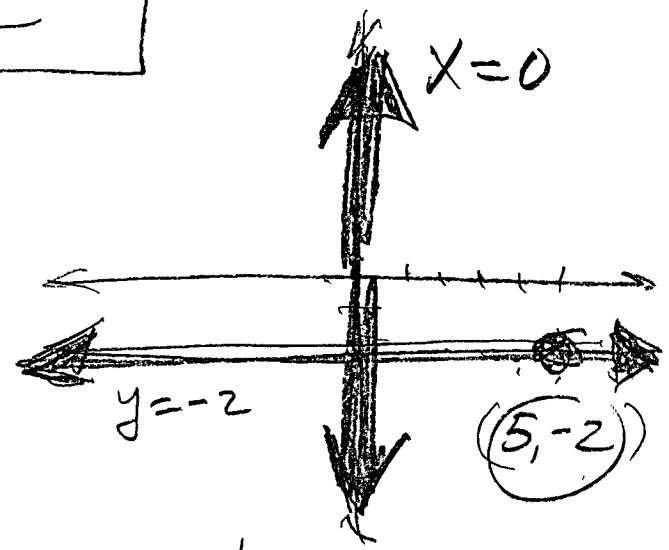
$$-4 \quad -4$$

$$* \quad -5 = b$$

$$\boxed{y = -\frac{4}{5}x - 5}$$

⑧ through $(5, -2)$ \perp to $X=0$
 ID2 x, y

$$y = -2$$



⑩ Graph
 ID1

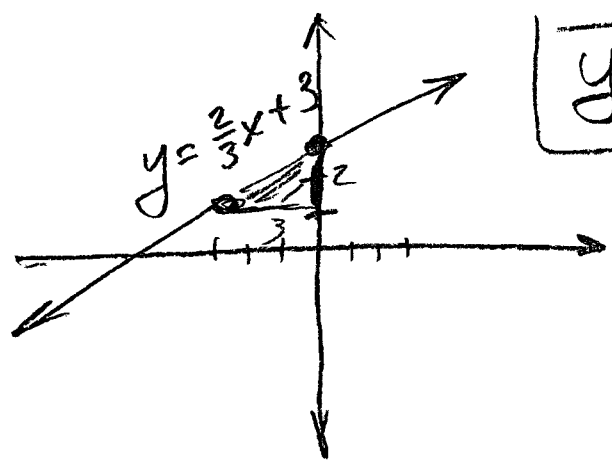
$$9 + 2x = \frac{3y}{3}$$

$$y = mx + b$$

$$3 + \frac{2}{3}x = y$$

$$y = \frac{2}{3}x + 3$$

$\frac{2}{3}$ (0, 3)



⑤ through $(1, -3)$ \perp to $y = \frac{1}{2}x + 3$
 x, y

ID1

$$m_{\perp} = -2$$

$$y = mx + b$$

$$-3 = -2(1) + b$$

$$-3 = -2 + b$$

$$+2 \quad +2$$

$$-1 = b$$

$$y = -2x - 1$$

⑦

ID1

$(-2, 4)$
 x, y

\perp to $y = \frac{1}{2}x + 2$

$$m_{\perp} = -2$$

$$y = mx + b$$

$$4 = (-2)(-2) + b$$

$$4 = 4 + b$$

$$-4 \quad -4$$

$$0 = b$$

$$y = -2x$$

⑧

ID1

 $(-4, 5)$ x, y \perp to $y = \frac{1}{2}x + 3$

$$m_{\perp} = -2$$

$$y = mx + b$$

$$5 = -2(-4) + b$$

$$5 = 8 + b$$

$$-8 \quad -8$$

$$-3 = b$$

$$y = -2x - 3$$

$$\textcircled{11} \quad y = -2|x+3| - 3$$

parent $y = |x|$

$$y = a|x-h| + k$$

