

Bellwork:

Write the equation of the line in (1) point slope form and (2) slope intercept form for each situation:

A. Slope = 3 Point (-2,5)

B. Points (-2,7) and (12, 0)

A. $y - 5 = 3(x + 2)$ ^{Point-}
slope

$$y - 5 = 3x + 6$$

$+5$ $+5$

$y = 3x + 11$

 slope-intercept

B. $m = \frac{0 - 7}{12 - (-2)} = \frac{-7}{14} = -\frac{1}{2}$

$(-2, 7)$

$$y - 7 = -\frac{1}{2}(x + 2)$$

$$y - 7 = -\frac{1}{2}x - 1$$

$$\begin{array}{c} +7 \qquad \qquad +7 \\ \hline y = -\frac{1}{2}x + 6 \end{array}$$

$$(12, 0) \quad \downarrow \quad \downarrow$$
$$y - 0 = -\frac{1}{2}(x - 12)$$

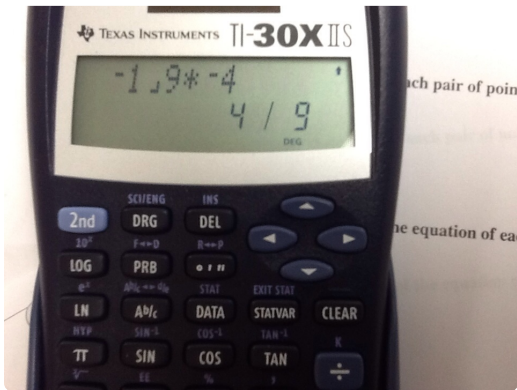
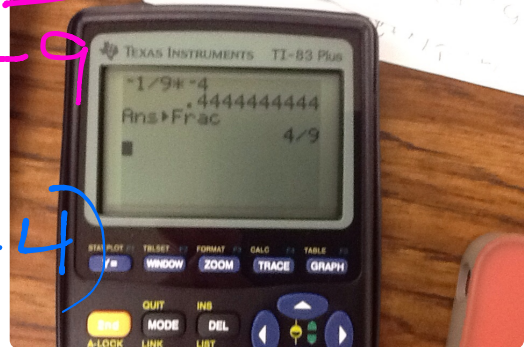
$$y = -\frac{1}{2}x + 6$$

$$y = -\frac{1}{2}x + 6$$

$$\textcircled{\text{II}} (4, -3) (-5, -2)$$

$$m = \frac{-2 - (-3)}{-5 - 4} = \frac{1}{-9}$$

$$y + 3 = \frac{-1}{9}(x - 4)$$



$$y + 3 = -\frac{1}{9}x + \frac{4}{9}$$

$-3 \qquad \qquad \qquad -3$

$$y = -\frac{1}{9}x - \frac{23}{9}$$

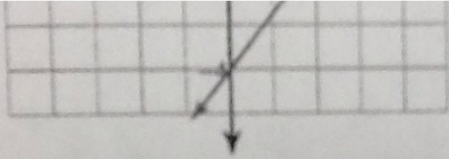
Use other point $(-5, -2)$

$$y + 2 = -\frac{1}{9}(x + 5)$$

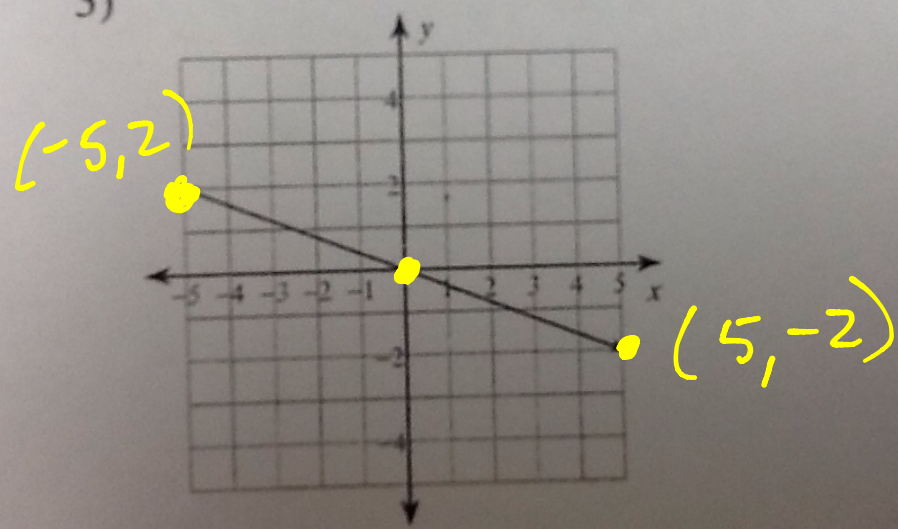
$$y + 2 = -\frac{1}{9}x - \frac{5}{9}$$

$$\begin{array}{r} -2 \\ -2 \end{array}$$

$$y = -\frac{1}{9}x - \frac{23}{9}$$



3)



Quiz

2, 6, 18

Bellwork

$$y = mx + b$$

Write the equation of the line in (1) point slope form and (2) slope intercept form for each situation:

A. Slope = m Point (x_1, y_1)

B. Points $(-2, 7)$ and $(12, 0)$

$$y - y_1 = m(x - x_1)$$

$$A. \quad y - 5 = 3(x + 2)$$

$$y - 5 = 3x + 6$$
$$+5 \qquad \qquad +5$$

$$y = 3x + 11$$

$$B. \quad \frac{0 - 7}{12 - (-2)} = \frac{-7}{14} = -\frac{1}{2} \text{ OR } -0.5$$

$$(12, 0) \quad (-2, 7)$$

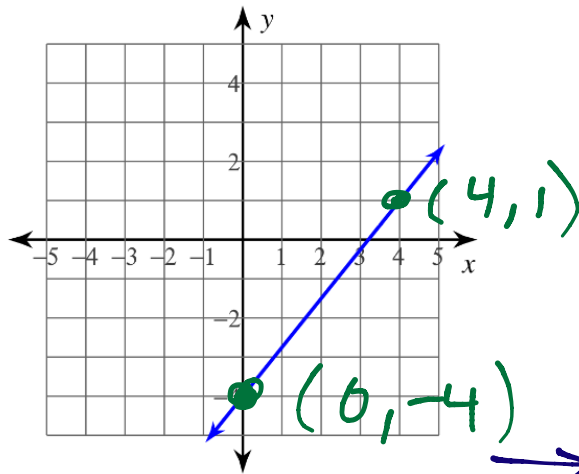
$$y - 0 = -\frac{1}{2}(x - 12) \quad \text{p/s form}$$

$$\underline{y = -\frac{1}{2}x + 6} \quad \text{slope intercept}$$

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1)

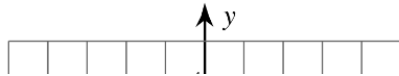


$$m = \frac{5}{4}$$

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

→ y-intercept

3)



$$\textcircled{5} \quad -5, -5 \quad m = \frac{9}{5}$$

$$y + 5 = \frac{9}{5}(x + 5)$$

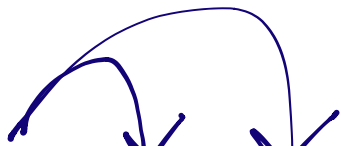
$$y + 5 = \frac{9}{5}x + 9$$

$\begin{array}{ccc} -5 & & -5 \end{array}$

$$y = \frac{9}{5}x + 4$$

$$\textcircled{13} \quad (-4, -4) \quad (5, -5)$$

$$m = \frac{-5 - (-4)}{5 - (-4)} = \frac{-1}{9}$$



$$y + 4 = -\frac{1}{9}(x + 4) \quad \text{P/S form}$$

$$y + 4 = -\frac{1}{9}x - \frac{4}{9}$$

-4 -4

$$y = -\frac{1}{9}x - \frac{40}{9}$$