

Please have your homework on your desk. Calculator? Yes!

Date:

TSW graph linear equations.

QRQ3:

Solve for x

$$y = mx + b$$

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

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

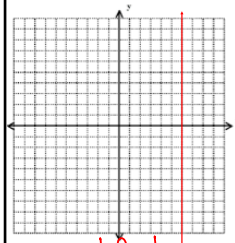
Solve & Graph

$$-7x > x + 16$$

$$\frac{-x}{-8} > \frac{x}{-8} + \frac{16}{-8}$$

$$x < -2$$

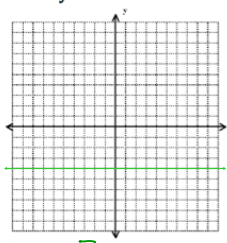
Ex1 $x = 6$



Slope is undefined

V U X = #
vertical
cannot find

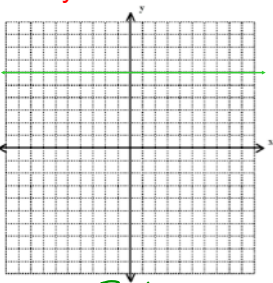
Ex2 $y = -4$



Slope is zero

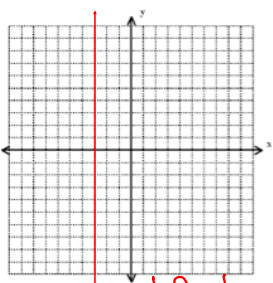
H O Y = #
horizontal
no slope

Ex3 $y = 6$



Slope is zero

Ex4 $x = -3$



Slope is undefined

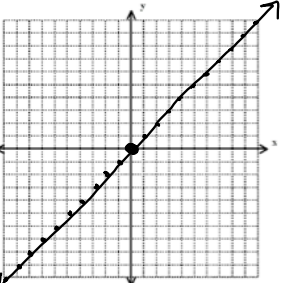
Slope-Intercept Equation: $y = mx + b$

m is the slope b is the y-intercept

m is $\frac{\text{rise}}{\text{run}}$ Start the graph at $(0, b)$

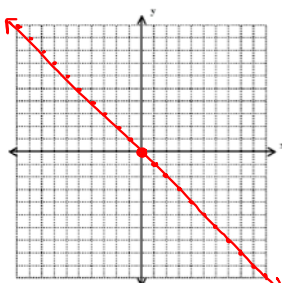
Positive Slope
Negative Slope

Ex5 $y = x + 0$

$$m = \frac{1}{1} \rightarrow b = (0, 0)$$


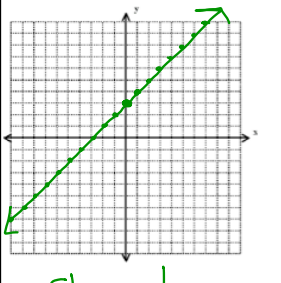
slope = $\frac{1}{1}$

Ex6 $y = -x$

$$m = \frac{-1}{1} \rightarrow b = (0, 0)$$


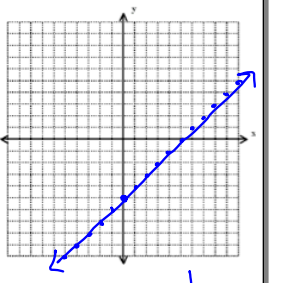
slope = $-\frac{1}{1}$

Ex7 $y = x + 3$

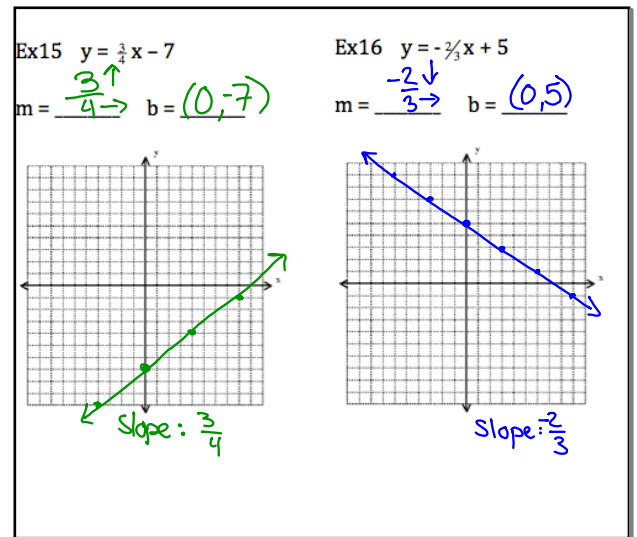
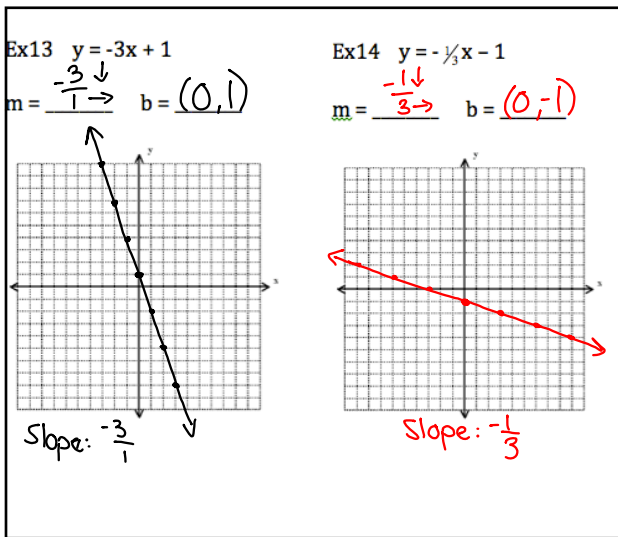
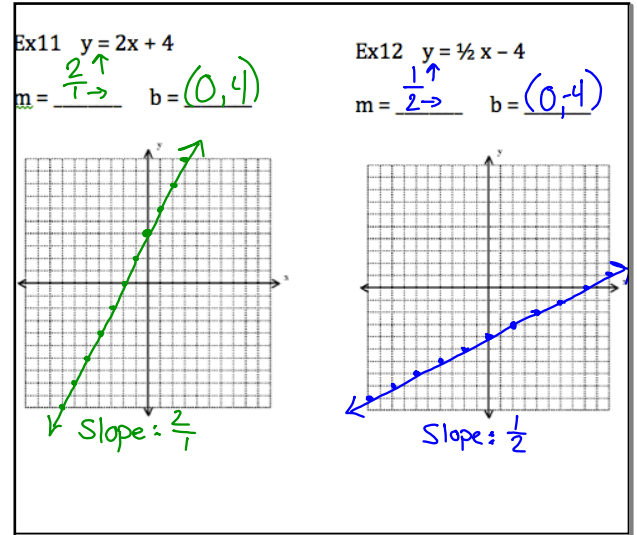
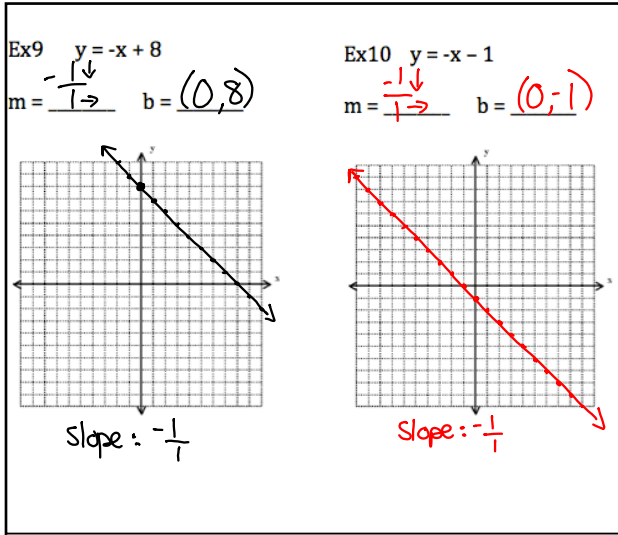
$$m = \frac{1}{1} \rightarrow b = (0, 3)$$


Slope: $\frac{1}{1}$

Ex8 $y = x - 5$

$$m = \frac{1}{1} \rightarrow b = (0, -5)$$


Slope: $\frac{1}{1}$



Open Notes Quiz?

After Quiz:
 Complete Handout on Graphing