

HW: Graphing Linear Equation Slope - Intercept Form

Name: Key
Math 7H - Jan. 3

Glue on page 75
Created for you by Ms. Notsoubaris

Directions: Use the linear equation in the form $y = mx + b$ to graph each line. Then state the type of slope.

$$y = mx + b$$

slope (m) $\frac{\text{rise}}{\text{run}}$

y-intercept (b)

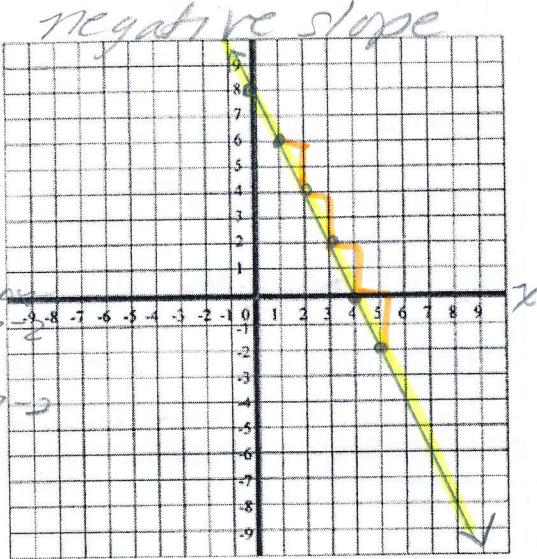
1) $y = -2x + 8$

$$y = mx + b$$

$$m = \frac{-2}{1} \downarrow$$

$$b = 8$$

x	y
0	8
1	6
2	4



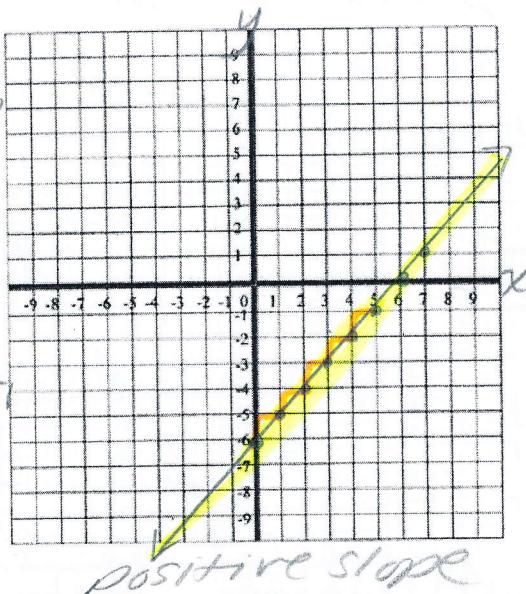
2) $y = x - 6$

$$y = mx + b$$

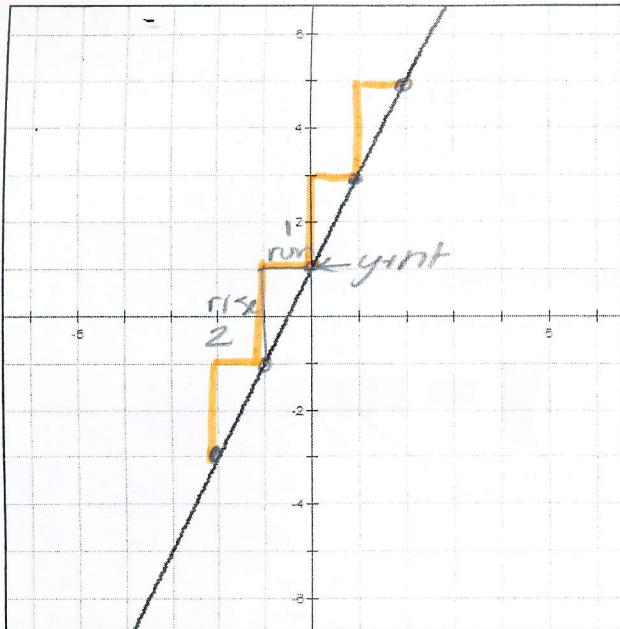
$$m = 1 \uparrow$$

$$b = -6$$

x	y
0	-6
1	-5
2	-4



3)

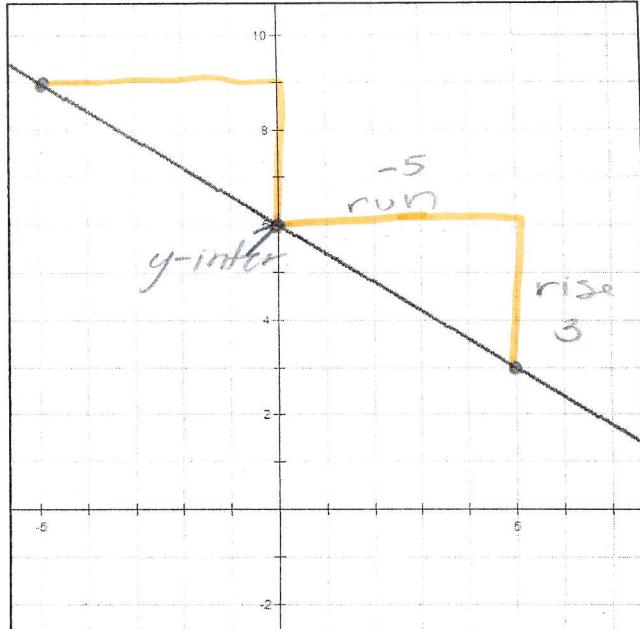
Slope type positive

Find the slope (m) $\frac{2}{1}$

Find the y-intercept (b) 1

Write the linear equation $y = 2x + 1$

4)

Slope type negative

Find the slope (m) $-\frac{3}{5}$

Find the y-intercept (b) 6

Write the linear equation $y = -\frac{3}{5}x + 6$

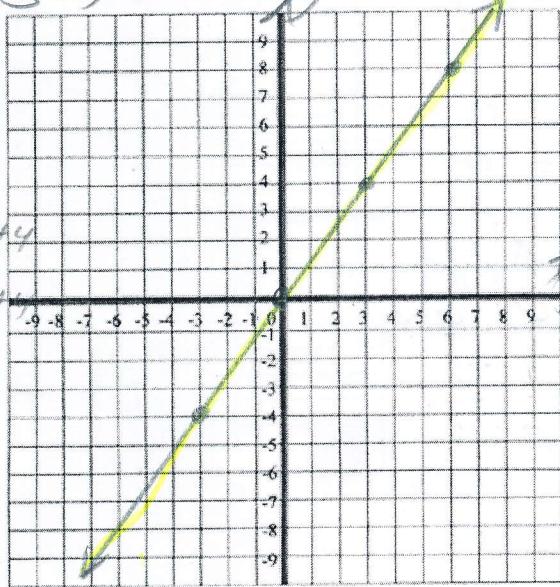
DIRECTIONS: Use the linear equation in the form $y = mx + b$ to graph each line. Then state the type of slope.

5) $y = \frac{4}{3}x$

$y = mx + b$
 $m = \frac{4}{3} \rightarrow$

$b = 0$

x	y
0	0
3	4
6	8



6) $y = -\frac{5}{3}x + 6$

$y = mx + b$
 $m = -\frac{5}{3} \downarrow \rightarrow$

$b = 6$

x	y
0	6
3	1
6	-4

