Slope Intercept Quiz Review

Given each equation of a line, find the slope and y-intercept.

$$1. y = \frac{1}{4}x$$

Slope: $\frac{1}{4}$

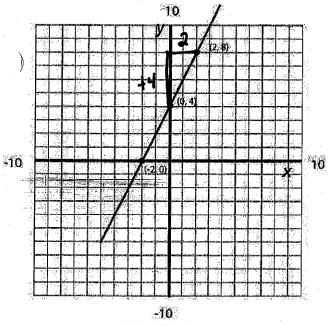
2.
$$y = -5x - 6$$

Slope: _-5

y-intercept: __6

Using the graphs below, write the equation of the line.

3.

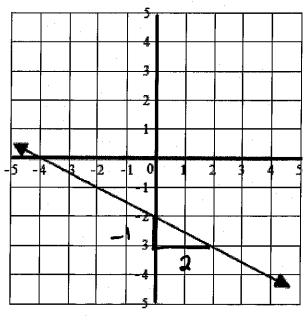


GOOD GRAPH of y = 2x + 4

Slope =
$$\frac{4}{a}$$
 = 2

y-intercept = 4

$$\int_{0}^{1} uation = \frac{U = 2x + 4}{1}$$



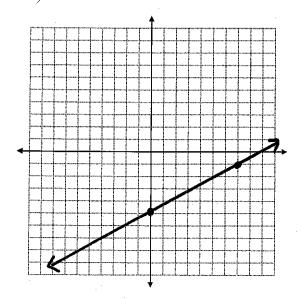
Slope =
$$\frac{1}{3}$$

y-intercept =
$$\frac{-2}{2x-2}$$

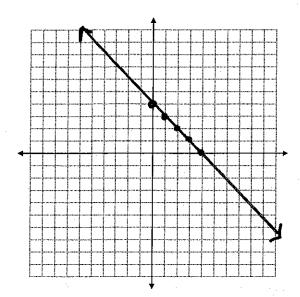
Equation = $\frac{y=-\frac{1}{2}x-2}{}$

Graph-each line on the graph provided.

$$y = \frac{4}{7}x - 5$$



6.
$$y = -x + 4$$



Using the tables below, find the slope, the y-intercept, and the equation of each line.

7.

	X	 y.	
. 3	/ 0	-5 ·	+6
47	3	1	
+ 3	6	7.	7+4
+3	4 9	13	7+6

Slope:
$$\frac{6}{3} = 2$$

Equation:
$$y = 2x - 5$$

8.

Slope:
$$\frac{-4}{1} = -4$$

Equation:
$$y = -4x + 6$$

- y=4x-1. Show your work and write yes or no on the blank provided.
 - () a. (0, 4) H = H(v) -1 H = 0-1 H ≠ -1

1a. No

b. (2,7) 7 = 4(2) -1 7 = 8 -1 7 = 7 1b. Yes

c. (-1, -5) -5 = 4(-1)-1 -5 = -4-1 -5 = -5

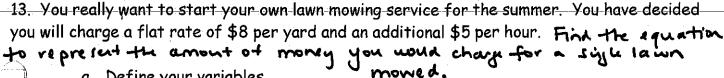
- 1c. Yes
- =10. Find the solution for the equation below when x = -3. Make sure your answer is an ordered pair.

$$y = -2x + 6$$
 $y = -2(-3) + 6$
 $y = +6 + 6$
 $y = 40 + 6$

10. (13/6) (-3,12)

- For #'s 3 and 4, find the slope of the line through each pair of points.
- 11. (-4, 1) $(-4, 3)_{\times}$ $\frac{4}{5}$ $\frac{4}{5$
- 11. undefined

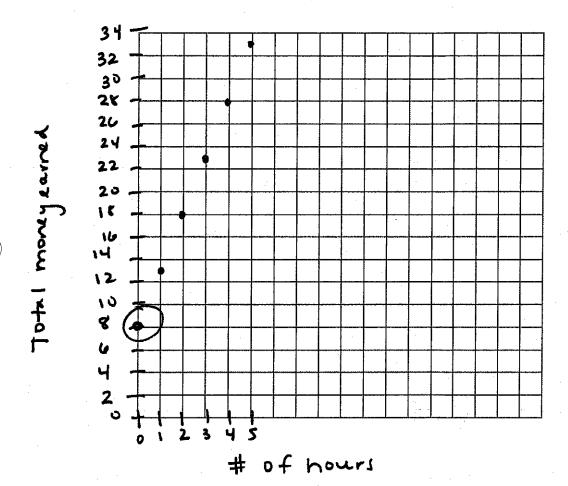
- 12. (0,-2) (7,2) (0,-2) (7,2) (7,2) (7,2) (7,2) (7,2) (7,2)(7,2)
- 12. <u>4</u> 7



a. Define your variables

b. Write an equation to represent the situation.

c. Graph the equation.



d. Circle the y-intercept on the graph.

e. What is the slope and what does it represent in this situation.

this represents \$5 earned every