

Name: _____
 Period ____

Date: _____
 Henderson - Math 8

Homework for Week 8

Monday: HW#8A

Solve each equation.

1.) $5x + 8 = 5x + 7$

$$\begin{array}{r} -5x \quad -5x \\ \hline 8 \neq 7 \end{array}$$

No Solution

2.) $2(3m + 1) = 6 - 6m$

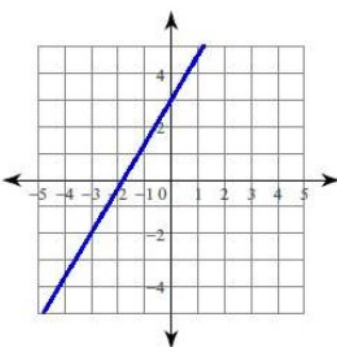
$$\begin{array}{r} 6m + 2 = 6 - 6m \\ +6m \quad \quad +6m \\ \hline 12m + 2 = 6 \\ -2 \quad -2 \\ \hline 12m = 4 \\ \frac{12}{12} \quad \frac{4}{12} \end{array} \quad m = \frac{1}{3}$$

3. $4x - 2 + 6x = 2x + 14$

$$\begin{array}{r} 10x - 2 = 2x + 14 \\ -2x \quad -2x \\ \hline 8x - 2 = 14 \\ +2 \quad +2 \\ \hline 8x = 16 \\ \frac{8x}{8} = \frac{16}{8} \\ X = 2 \end{array}$$

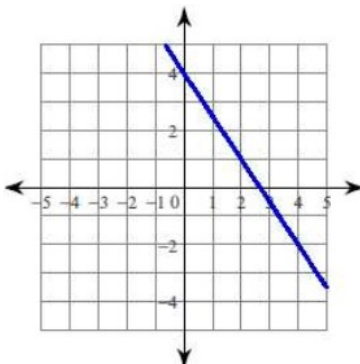
Write the type of slope shown in the graph.

4.)



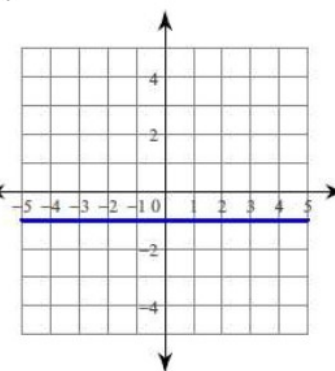
POSITIVE

5.)



NEGATIVE

6.)



ZERO

Identify the slope and y-intercept from the equation shown:

7.) $y = -6x + 5$

slope -6

y-intercept 5

8.) $y = 4 + 3x$

slope 3

y-intercept 4

9.) $5x - 7 = y$

slope 5

y-intercept -7

10.) $y = \frac{2}{3} - 4x$

slope -4

y-intercept $\frac{2}{3}$

Wednesday: HW#8C

Write the equation in slope-intercept form. ($y = mx + b$)

11. $y - 8x = 9$
 $+8x +8x$

$y = 8x + 9$

12. $2x + y = 7$
 $-2x -2x$

$y = -2x + 7$

13. $4y = 12x - 16$
 $\frac{4y}{4} = \frac{12x}{4} - \frac{16}{4}$

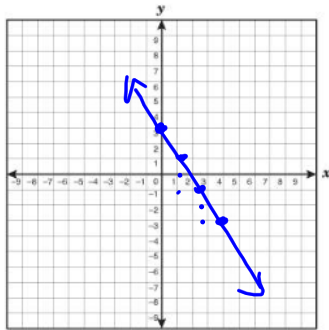
$y = 3x - 4$

14. $3x + 4 = -2y$
 $-\frac{3x}{2} - \frac{4}{2} = \frac{-2y}{-2}$

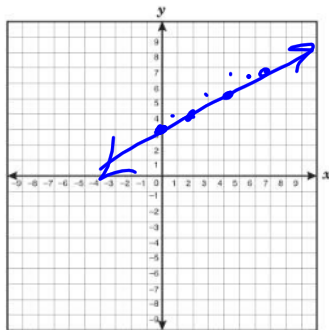
$-\frac{3}{2}x - 2 = y$

Graph the equations on the coordinate graph.

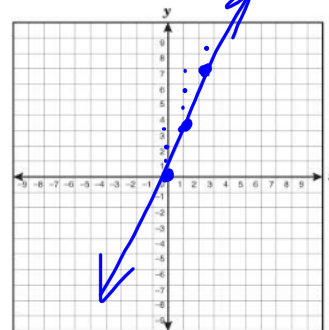
15.) $y = -2x + 3$



16.) $y = \frac{1}{2}x + 3$



17.) $y = 3x + 0$



Identify the slope and y-intercept of the following equations: Write in $y = mx + b$ form FIRST!!!

18.) $y = 2x + 5$

slope 2
 y-int 5

19.) $y = 7 - 5x$

slope -5
 y-int 7

20.) $4y = 12x - 32$
 $\frac{4y}{4} = \frac{12x}{4} - \frac{32}{4}$

$y = 3x - 8$
 slope 3
 y-int -8

21.) $5x = y - 3$
 $+3 +3$

$5x + 3 = y$
 slope 5
 y-int 3

22.) $y + 8x = 12$
 $-8x -8x$

$y = -8x + 12$
 slope -8
 y-int 12

23.) $-2y = 8x + 16$
 $-\frac{2y}{-2} = \frac{8x}{-2} - \frac{16}{-2}$

$y = -4x - 4$
 slope -4
 y-int 4