

Name: _____
 Period _____

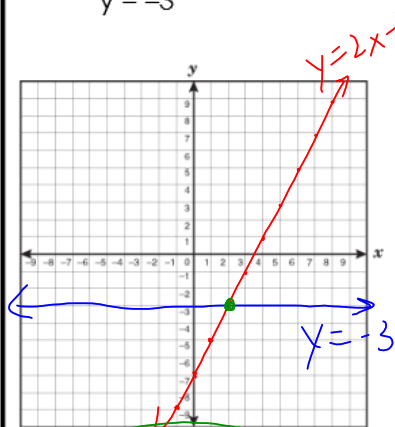
Date: _____
 Henderson - Math 8

Homework for Week 13

Tuesday: HW# 13A (go to www.khanacademy.org or www.hendersonmath.com for review)

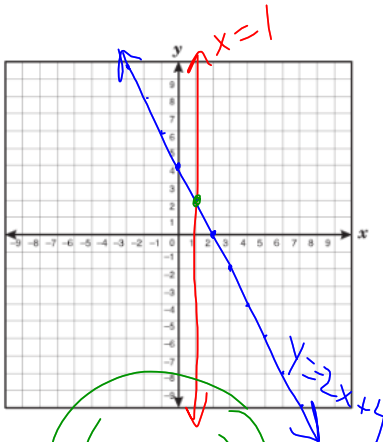
Find the solution to the system of equations graphically:

1.) $y = 2x - 7$
 $y = -3$



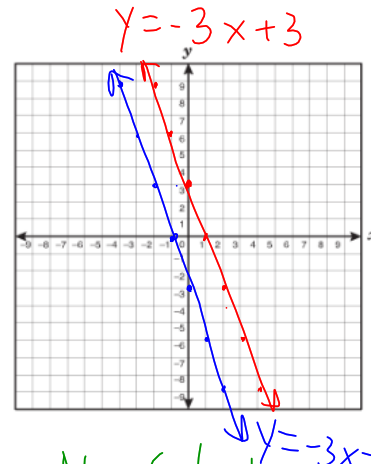
$(2, -3)$

2.) $x = 1$
 $y = -2x + 4$



$(1, 2)$

3.) $y = -3x - 3$
 $3x + y = 3$ (rewrite!!)



No Solution

Write the $y = mx + b$ equation for each function:

4.) $4x - 2y = 8$

$$\begin{array}{r} -4x \quad -4x \\ \hline -2y = -4x + 8 \\ \hline -2 \quad -2 \quad -2 \end{array}$$

$y = 2x - 4$

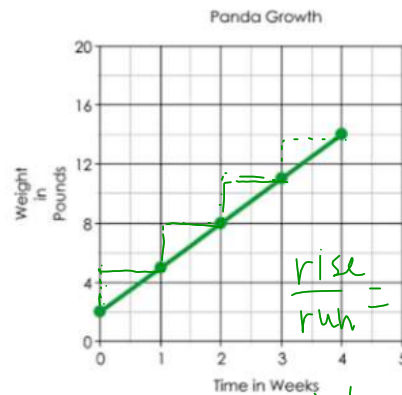
5.)

X	Y
0	-2
3	-6
6	-10

$m = -\frac{4}{3}$
 $b = -2$

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

6.)



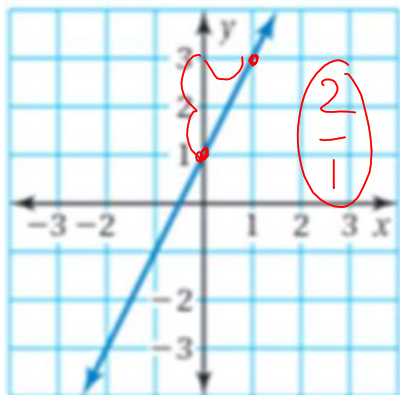
$\frac{\text{rise}}{\text{run}} = \frac{3}{1}$
 $y\text{-int} = 2$

$y = 3x + 2$

Wed: HW#13B (go to www.khanacademy.org or www.hendersonmath.com for review)

7.) Which function has the greatest rate of change? A, B, or C?

A.



B.

X	Y
-4	2
-2	1
0	0
2	-1

$+2 \left(\begin{matrix} -4 \\ -2 \end{matrix} \right) - 1$

$\begin{pmatrix} -1 \\ 2 \end{pmatrix}$

C. $y = 5x - 3$

function C has the greatest r.o.c.

Thursday: HW#13C (go to www.khanacademy.org or www.hendersonmath.com for review)

8.) Find the rate of change for the following data:

(3, 12) and (5, 12)

$$\frac{12 - 12}{5 - 3} = \frac{0}{2} = 0$$

Answers

8) Zero

9) -2

10) C

11) one

12) none

13) infinite

9.) Identify the rate of change in the following linear equation:

$$-6y = 12x + 7$$

$$y = -2x - \frac{7}{6}$$

10.) Which of the following is NOT a linear equation?

a) $y = 6x + 7$

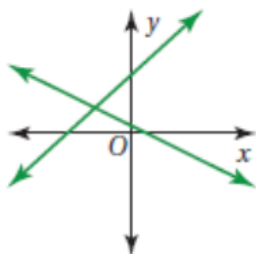
b) $y = \frac{x}{2} - 9$

c) $y = \sqrt{x} + 2$

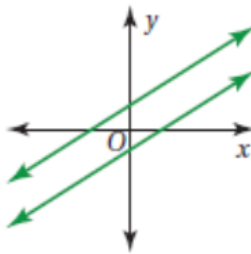
d) $8x + 2y + 12 = 0$

Name how many solutions in each system. (ONE, INFINITE, or NONE)

11.



12.



13.

