

Name: _____
 Period _____

Date: _____
 Henderson - Math 8

Homework for Week 17

Monday: HW#17A

Identify if the relation shown is a FUNCTION or NOT a FUNCTION.

1.)

X	Y
0	7
2	7
4	7

Function

X	Y
4	8
-2	2
-2	-1

Not a Function

X	Y
6	12
7	14
8	12

Function

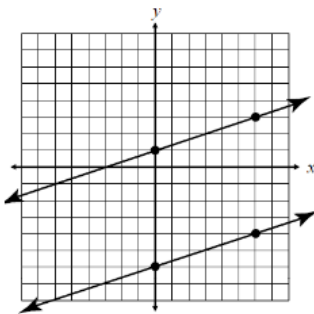
X	Y
3	0
6	8
-3	16

Function

Tuesday: HW#17B

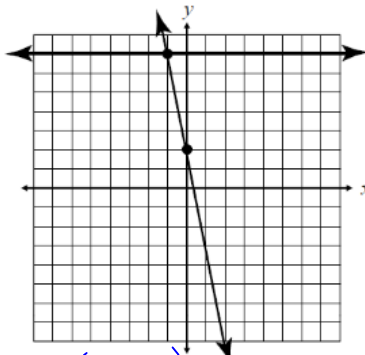
Identify the solution to the system of equations.

2.)



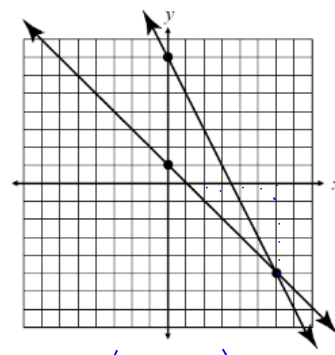
No Solution

3.)



$(-1, 7)$

4.)



$(6, -5)$

Find the rate of change from the given points.

5.) $(5, 6)$ $(3, 9)$

$$\frac{9-6}{3-5} = \left(\frac{3}{-2}\right)$$

6.) $(-4, 7)$ $(-4, 2)$

$$\frac{2-7}{-4-(-4)} = \frac{-5}{0}$$

undefined

7.) $(6, -3)$ $(1, -3)$

$$\frac{-3-(-3)}{1-6} = \frac{0}{-5}$$

(0)

Wednesday: HW#17C

Use **ANY** algebraic method to solve the system of equations. Show **ALL** work.

elimination

8.) $-2x + y = 5$ Keep
 $-(-x + y = 4)$ change

$$\begin{array}{r} -2x + y = 5 \\ +x - y = -4 \\ \hline -1x = +1 \\ \hline -1 \quad -1 \\ \hline X = -1 \end{array}$$

$$\begin{array}{r} -2(-1) + y = 5 \\ 2 + y = 5 \\ -2 \quad -2 \\ \hline y = 3 \end{array}$$

elimination

9.) $2x + y = 11$
 $+ 4x - y = 1$

$$\begin{array}{r} 6x = 12 \\ \hline 6 \quad 6 \\ \hline X = 2 \end{array}$$

$$\begin{array}{r} 2(2) + y = 11 \\ 4 + y = 11 \\ -4 \quad -4 \\ \hline y = 7 \end{array}$$

Substitution

10.) $y = 3x$
 $y = -2x + 10$

$$\begin{array}{r} 3x = -2x + 10 \\ +2x \quad +2x \\ \hline 5x = 10 \\ \hline 5 \quad 5 \\ \hline X = 2 \end{array}$$

$y = 3(2)$
 $y = 6$

Thursday: HW#17D

Solve each equation.

11. $-41 = -\frac{2}{5}(45x + 60) + x$

$$\begin{array}{r} -41 = -18x - 24 + x \\ \hline -41 = -17x - 24 \\ +24 \quad +24 \\ \hline -17 = -17x \\ \hline -17 \quad -17 \\ \hline X = 1 \quad \checkmark \end{array}$$

12. $2(8n + 5) - 3 = 4(4n - 1) + 11$

$$\begin{array}{r} 16n + 10 - 3 = 16n - 4 + 11 \\ \hline 16n + 7 = 16n + 7 \\ \text{match!!} \end{array}$$

Infinite Solutions