

Name: _____
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Date: _____
Henderson - Math 8

Homework for Week 5

Monday: HW#5A

Solve the following equations:

$$\begin{array}{r} 1.) \quad 2x - 8 = 2(x - 8) \\ 2x - 8 = 2x - 16 \\ -2x \quad -2x \\ \hline -8 = -16 \end{array}$$

No Solution

$$\begin{array}{r} 2.) \quad 6x + 9 = 5x \\ -6x \quad -6x \\ \hline 9 = -1x \\ -1 \quad -1 \\ \hline -9 = x \end{array}$$

$$\begin{array}{r} 3.) \quad 4 + 5x = 13x \\ -5x \quad -5x \\ \hline 4 = 8x \\ \frac{4}{8} \quad \frac{8x}{8} \\ \hline 0.5 = x \end{array}$$

$$\begin{array}{r} 4.) \quad \frac{1}{2}(6x + 12) = 24 \\ 3x + 6 = 24 \\ -6 \quad -6 \\ \hline 3x = 18 \\ \frac{3x}{3} = \frac{18}{3} \end{array}$$

$$x = 6$$

$$\begin{array}{r} 5.) \quad 2x + 4 = 2x + 4 - 8x \\ 2x + 4 = -6x + 4 \\ +6x \quad +6x \\ \hline 8x + 4 = 4 \\ -4 \quad -4 \\ \hline 8x = 0 \\ \frac{8x}{8} = \frac{0}{8} \end{array} \quad x = 0$$

$$\begin{array}{r} 6.) \quad 0.2(x + 1) = -36 \\ 0.2x + 0.2 = -36 \\ -0.2 \quad -0.2 \\ \hline 0.2x = -36.2 \\ \frac{0.2x}{0.2} = \frac{-36.2}{0.2} \end{array}$$

$$x = -181$$

Tuesday: HW#5B

Graph the coordinates on the grid below and label it with the correct letter:

7) **A** (0, -2)

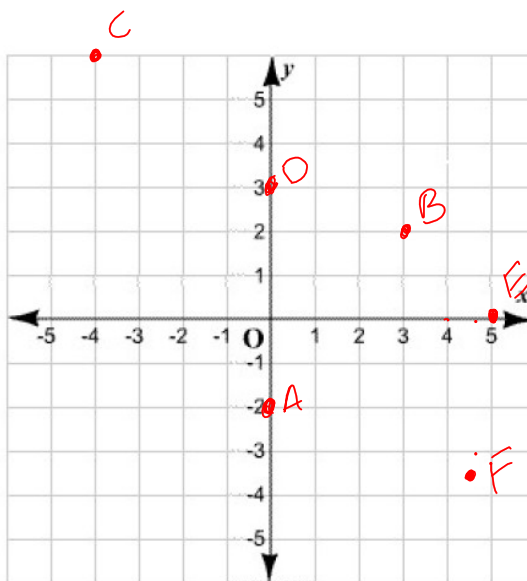
8) **B** (3, 2)

9) **C** (-4, 6)

10) **D** (0, 3)

11) **E** (5, 0)

12) **F** (4.5, $-3\frac{1}{2}$)



Wednesday: HW#5C

Tell whether the equation has one solution, no solution, or infinite solutions.

13) $2x + 7 = 2x + 7$

~~2x~~ ~~-2x~~

Infinite
Solutions

14) $2x + 8 = 10$

$$\begin{array}{r} -8 \quad -8 \\ \hline 2x = 2 \\ \frac{2x}{2} = \frac{2}{2} \end{array}$$

$x = 1$
one sol.

15) $3m + 5 = 3m - 7$

~~3m~~ ~~-3m~~

$$5 = -7$$

No Solution

15) $2(4x - 5) = 8x + 10$

$$\begin{array}{r} 8x - 10 = 8x + 10 \\ -8x \quad +8x \\ \hline -10 = 10 \end{array}$$

No Solution

16) $6 - 2x = 2x + 6$

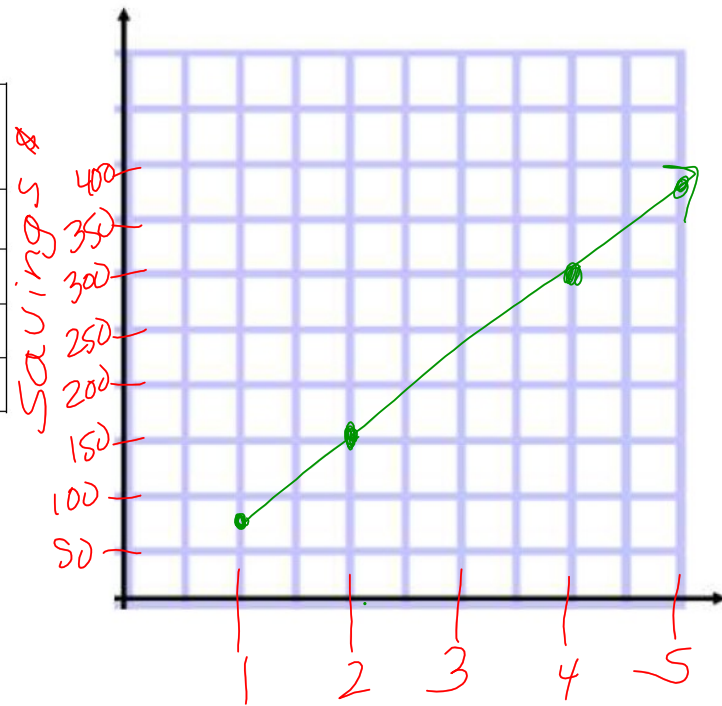
$$\begin{array}{r} +2x \quad +2x \\ \hline 6 = 4x + 6 \\ -6 \quad -6 \\ \hline 0 = 4x \\ \frac{0}{4} = \frac{4x}{4} \\ \boxed{0 = x} \end{array}$$

one solution

Thursday: HW#5D

17) Construct and **label** a line graph from the data table:

Number of Weeks	Savings
1	75
2	150
4	300
5	375



of weeks