Name: _____ Date: _____

Go to www.hendersonmath.com *for a tutorial on how to complete.* Henderson – Math 8

Homework for Week 6

**Monday: HW#6A**

**Solve for x.**

1) $2.4(x + 3) - 5.2 = -16$

$2.4x + 7.2 - 5.2 = -16$

$2.4x + 2 = -16$

$-2 \quad -2$

$2.4x = -18$

$\frac{2.4x}{2.4} = \frac{-18}{2.4}$

$x = -7.5$

2) $\frac{1}{2}(4x - 12) = 2x + 16$

$2x - 6 = 2x + 16$

$-2x \quad -2x$

$-6 \neq 16$

No Solution

3) $5x + 4 = 18 - 2x$

$+2x \quad +2x$

$7x + 4 = 18$

$-4 \quad -4$

$7x = 14$

$\frac{7x}{7} = \frac{14}{7}$

$x = 2$

4) $4 - 2(3x + 5) = 4x + 4$

$4 - 6x - 10 = 4x + 4$

$-6x - 6 = 4x + 4$

$+6x \quad +6x$

$-6 = 10x + 4$

$-4 \quad -4$

$-10 = 10x$

$\frac{-10}{10} = \frac{10x}{10}$

$x = -1$

**Tuesday: HW#6B**

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

5) **A** ( 4, -5)

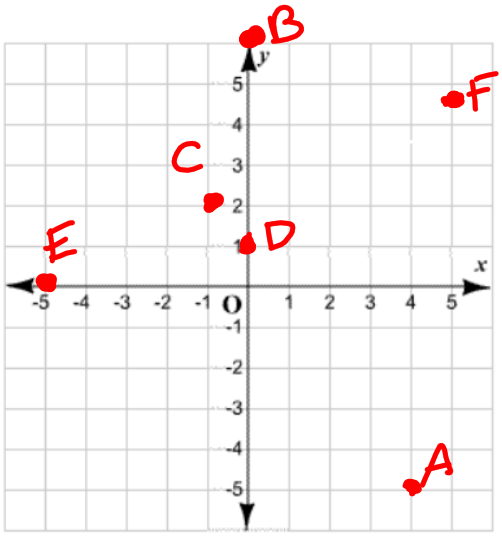
6) **B** (0, 6)

7) **C** (-1, 2)

8) **D** (0, 1)

9) **E** (-5, 0)

10) **F** (5, 4.5)



**Wednesday: HW#6C**

**Solve the following equations:**

11.) $6a + 10 = 4a$

$-6a \quad -6a$

$10 = -2a$

$\frac{10}{-2} = \frac{-2a}{-2}$

$-5 = a$

12.) $5p + 2 = 4p - 1$

$-4p \quad -4p$

$1p + 2 = -1$

$-2 \quad -2$

$p = -3$

13.) $3 - \frac{2}{9}w = \frac{1}{3}w - 7$

$+\frac{2}{9}w \quad +\frac{2}{9}w$

$3 = \frac{5}{9}w - 7$

$+7 \quad +7$

$\left(\frac{9}{5}\right)10 = \frac{5}{9}w\left(\frac{9}{5}\right)$

$w = 18$

14.) $-10y + 18 = -3(5y - 7) + 5y$

$-10y + 18 = -15y + 21 + 5y$

$-10y + 18 = -10y + 21$

$+10y \quad +10y$

$18 \neq 21$ No Solution

15) $8(4x - 5) - 7x = 5(5x - 8)$

$32x - 40 - 7x = 25x - 40$

$25x - 40 = 25x - 40$

$-25x \quad -25x$

$-40 = -40$ Infinite Solutions

**Thursday: HW#6D**

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

| Minutes | Number of bacteria |
|---|---|
| 3 | 12 |
| 4 | 16 |
| 6 | 24 |
| 10 | 40 |