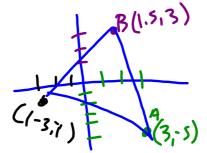
WEEK 9 Warm Up

1. Sketch a coordinate plane, then plot and label the ordered pairs.



2. Determine what quadrant each ordered pair is in.

Homework Questions?

On the top of your paper (by your name) rate yourself for this section:

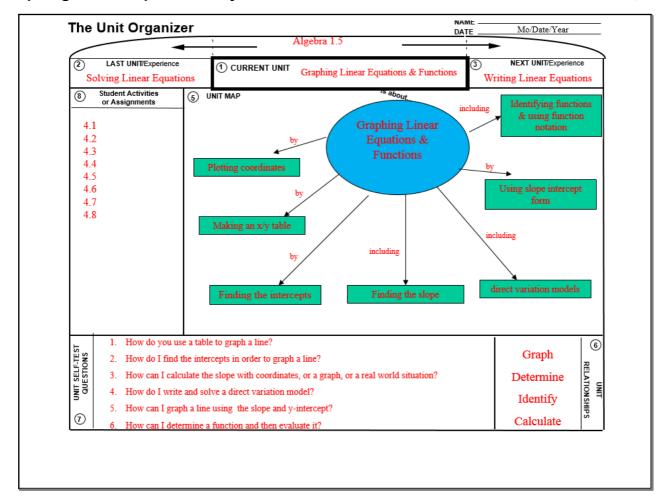
- 4 I can summarize the concepts and explain it to others
- 3 I can apply the concept to answer questions correctly
- 2 I can apply the concepts but with some mistakes
- 1 I need help and know how to apply the concept
- 0 I can't apply the concept, even with help

Rating of 0-2 is a warning signal to me that you need help

4.2 Graphing Linear Equations

Goals: • Graph a linear equation using a table of values.

EQ: What does function form mean?

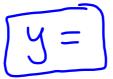


Vocabulary

Linear equation: makes a straight line

Solution of an equation: what makes it true

Function form:



(solve for y)

Graph of an equation:

set of all points that are solutions

Example 1: Check Solutions of Linear Equations

Determine whether the ordered pair is a solution of

$$2x + 3y = -6$$

$$2(3)+3(-4)=-6$$

$$-8+3=-6$$

$$-6=-6$$

$$-6=-6$$
No

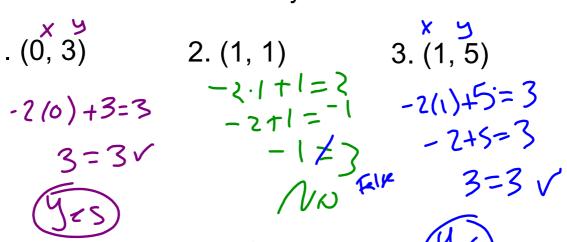
$$2(-4) + 3(1) = -6$$

 $-8 + 3 = -6$

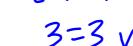


Try It

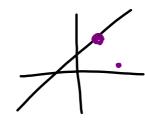
Determine whether the ordered pair is a solution of -2x + y = 3.



$$-2(1)+5=3$$







Example 2: Find Solutions of Linear Equations

Find three ordered pairs that are solutions of -5x + y = -2(x,4)

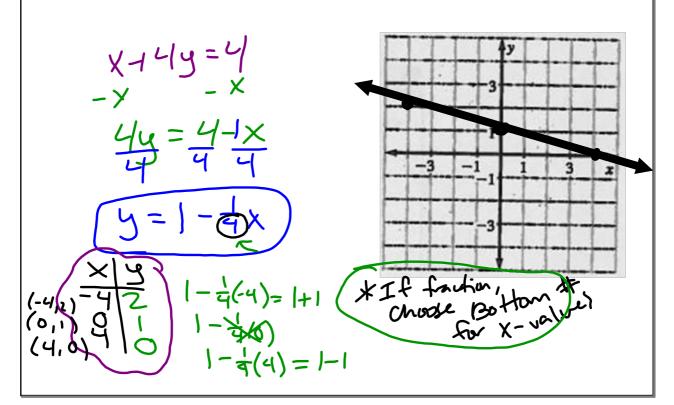
SUMMARY

Graphing a Linear Equation √ -

- STEP 1 Rewrite the equation in function form, if necessary
- STEP 2 Choose a few values of x and make a table of values.
- STEP 3 Plot the points from the table of values. A line through these points is the graph of the equation.

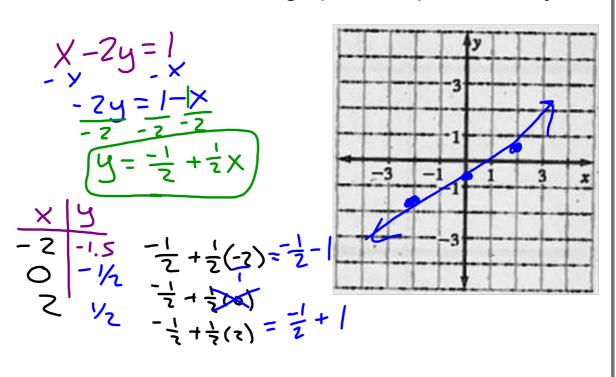
Example 3: Graph a Linear Equation

Use a table of values to graph the equation x + 4y = 4.



Try It Complete the following exercise.

4. Use a table of values to graph the equation x - 2y = 1



Ch.3 Test was out of 65 pts

42 V Needs to Retake

Summary

EQ: What does **function form** mean?

4.2 Homework

4.2 Graphing Linear Equations wkst #1-6