TASK 3: Linear Relations - Part 3 (Sec 4.3, 4.4 & 4.5) Week 13 Name:

Wednesday, May to Monday June

The following is to be completed and passed in by **June th**.

- **Please note**: I will be collecting your work at the end of the task and expect to see the following (you will be marked on this):
  - Each section of work (mini-lesson, examples, sets of questions/answers, etc.) must be properly labeled.
  - Work showing that you tried each of the examples requested
  - Answers for each question (not just the final answers!! Show work where possible!)
  - It should be clearly visible that your work was corrected and some questions were done over.
- It is necessary that you stay on task and not be disruptive during class time. There will be "guided learning" going on throughout each class (I will be working with a few students at a time, going over class material). The rubric below (#1 specifically) will reflect your effort to cooperate. This is very necessary in order for guided learning to take place.

➔ **Day 1**

- **Mini-Lesson #1: Horizontal, Vertical & Oblique Lines**
- **Complete the following:**
  - Page 178 – 180 #4, 5, 6 & 7
  - Graphing Linear Equations (oblique lines) & Graphing Horizontal Vertical Lines Worksheet

➔ **Day 2**

- **Mini-Lesson #2: Matching Equations to Graphs**
- **Complete the following:**
  - Questions From the Textbook: Page 188 – 190 #3, 4 & 5

➔ **Day 3**

- **Mini-Lesson #3: Interpolation & Extrapolation**
- **Complete the following:**
  - Questions From the Textbook: Page 196 – 198 #4, 5, 6, 7 & 8

➔ **Day 4**

- **Four Quadrant Graping Puzzle (Art Project)**
- **Tidy up all of TASK sheet to pass in**

When you are all done, please make sure to double check to make sure you have done everything your task required. Once you are all done this, you can make sure everything is in order, and then pass it all in, stapled (including the rubric).

Task #3 Rubric: Linear Relations Week 13 (Part3- Section 4.3 – 4.5)

Please make sure to go through the "Checklist" below before handing in your task!

Item	Description	Checklist ✓	Evaluation
1. Work ethic	**Worked quietly and independently without disrupting other students. Stayed on task and used class time effectively.**		/5
2. Section 4.3: Another Form of a Linear Relation	Mini Lesson #1: **Horizontal, vertical & Oblique Lines**		/5
	Textbook Questions Pg. 178 – 180 #4, 5, 6 & 7 **Worksheets: Graphing Linear Equations** (Oblique lines) **Graphing Horizontal & Vertical Lines**		/15
	Marked and corrected Practice questions. Incorrect questions were redone correctly.		/5
3. Section 4.4: Matching Equations to Graphs	Mini Lesson #2: **Matching Equations to Graphs**		/5
	Textbook Questions Pg. 188 – 190 #3, 4 & 5		/10
	Marked and corrected Practice questions. Incorrect questions were redone correctly.		/5
4. Section 4.5 Using Graphs to Estimate Values	Mini Lesson #3: **Interpolation & Extrapolation**		/5
	Textbook Questions Pg. 196 – 198 #4, 5, 6, 7 & 8		/10
	Marked and corrected Practice questions. Incorrect questions were redone correctly.		/5
5. Review	**Four Quadrant Graphing puzzle (Art Project)**		/15
6. Math Activity	**Edition 2 or Edition 3 Activity** **Or another math game**		/5
7. Organization of the week's work	**The student's work is organized; it is easy to follow and text questions/answers are properly numbered and mini-lessons labeled.**		/5
8. Completion of task	**Task was FULLY completed and passed in on or before due date specified.** **Test for this TASK will be on Tuesday June 5th**		/5
		Total:	**/100**

TASK 3 – Worksheet: Graphing Linear Equations (Oblique Lines) Name: _____

Date: _____

To graph a linear relation from an equation, first create a table of values, then plot the data in the table on a coordinate grid.

- To graph y = -4**x** + 6:

  Create a table of values.

  Choose 3 values for **x**, then calculate the corresponding values of y.

Substitute **x** = -1

$y = -4(-1) + 6$
$y = 4 + 6$
$y = 10$

Substitute $x = 0$

$y = -4(0) + 6$
$y = 0 + 6$
$y = 6$

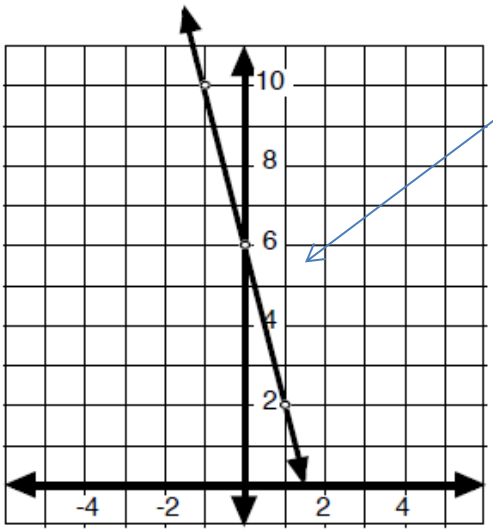
Substitute $x = 1$

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

Write the values of **x** and y in a table.

x	y	
-1	10	**(-1, 10)**
0	6	**(0, 6)**
1	2	**(1, 2)**

Plot the points on a coordinate grid. Since the data is not discrete, join the points.



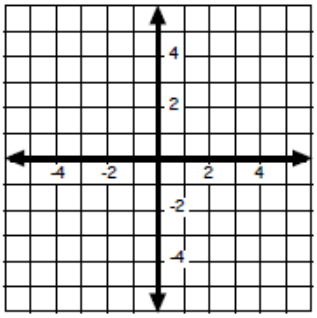
This is called an oblique line (it's slanted)

Check your Understanding:

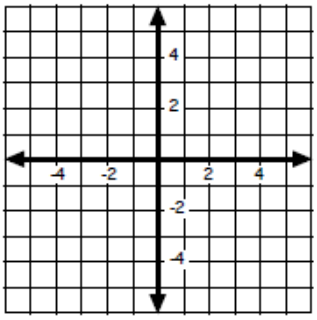
1. Use a table of values for each linear relation, then graph the relation (use values -1, 0 & 1)

a) $y = 4x$

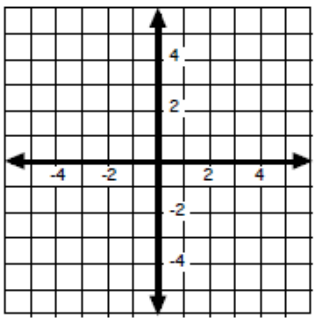
x	y
-1	4 (-1) = -4
0	4(0) =
1	4(1) =



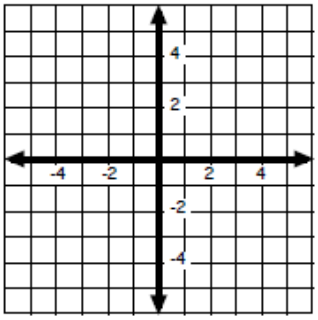
b) $y = x - 2$



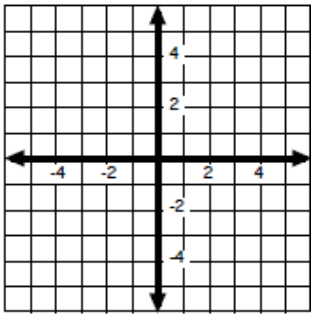
c) $y = x + 2$



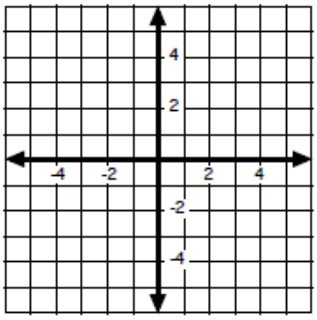
d) $y = 2x + 3$



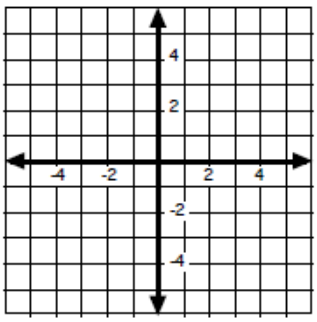
e) $y = -2x + 3$



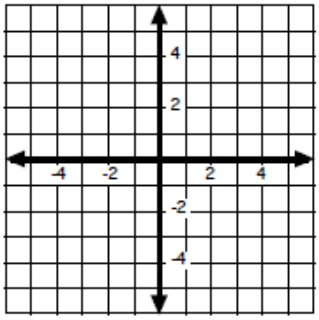
f) $y = 4 - x$



g) $y = -3x + 4$



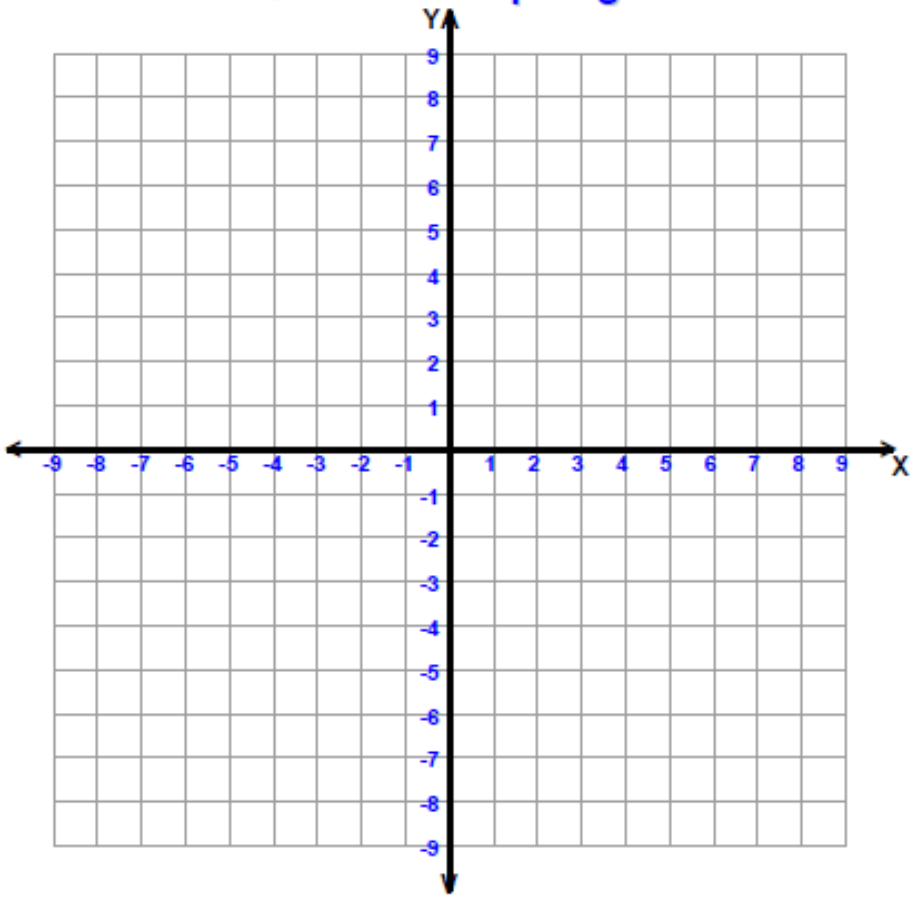
h) $y = 1 - 5x$



TASK 3 – Worksheet: Graphing Puzzle (Art Project) Name: _____

Period: _____

Four Quadrant Graphing Puzzle



Connect each sequence of points with a line.

(6,2) , (5,2) , (5,3) , (-2,3) , (-2,-2) , (6,-2) , (6,-9) , (-3,-9) , (-3,-7)
(-2,-7) , (-2,-8) , (5,-8) , (5,-3) , (-3,-3) , (-3,4) , (6,4) , (6,2) End of Sequence

What is the shape ? _____