

Date:

Title:

(A) **Fast Five**

⇒ Complete the following tables & graphs

(i) (a) Equation: $y = 2x - 3$ (b) Data Table (c) Graph

x	-2	-1	0	2	4
y					

(d) Determine the slope of the line

(e) Determine the y-intercept

(ii) (a) Equation: $y = -x + 4$ (b) Data Table (c) Graph

x	-3	-2	0	1	3
y					

(d) Determine the slope of the line

(e) Determine the y-intercept

(iii) (a) Equation: $y = \frac{1}{2}x + 1$ (b) Data Table (c) Graph

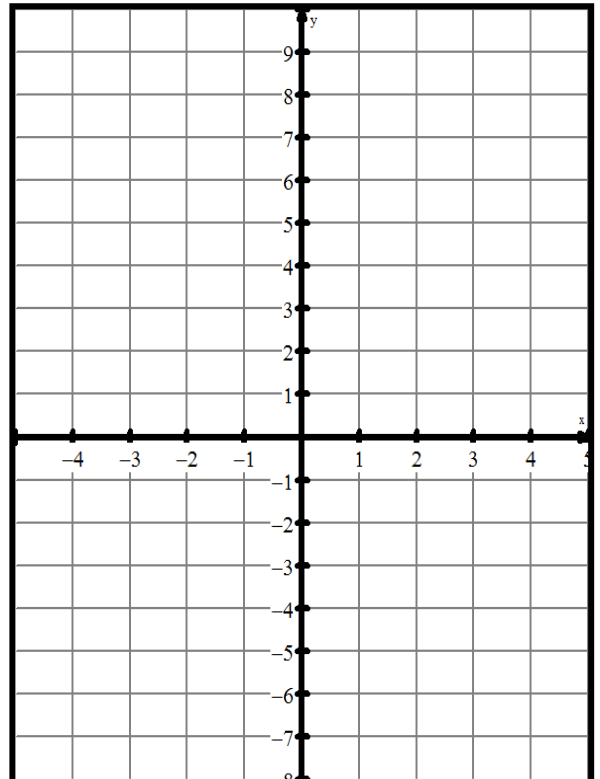
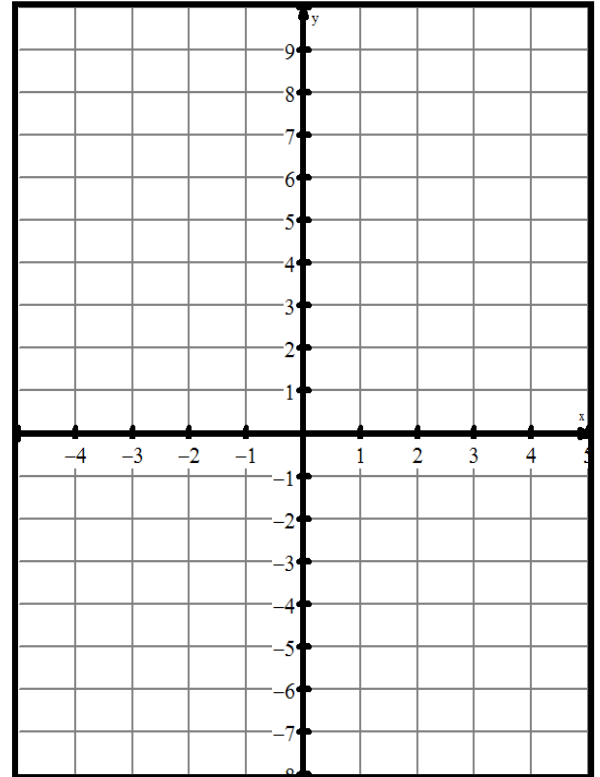
x	-4	-2	0	2	4
y					

(d) Determine the slope of the line

(e) Determine the y-intercept

⇒ What are the “formulas” we use to determine the slope of a linear relation?

⇒ What IS slope?



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- ⇒ Recall that one of our key ideas in the definition of mathematics was “interrelationships between numbers”
- ⇒ Recall that equations are ways of a mathematical way of showing/writing the relationships between variables
- ⇒ If the pattern in the numbers/variables is CONSTANT, then the data shows a LINEAR RELATIONSHIP, which we summarize using a LINEAR EQUATION

(B) **Explorations/Development**

- ⇒ Can we perform this skill with equations, data tables & graphs if we change it as follows:

- ⇒ (a) Given the data table, now graph and write the equation

- ⇒ Question 1.

x	-4	-2	0	1	3
y	-4	0	4	6	10

Equation #1 is _____.

- ⇒ Question 2.

x	-6	-3	0	3	6
y	4	3	2	1	0

Equation #2 is _____.

- ⇒ (b) Given the graph, complete a table and determine the equation

- ⇒ Question 1.

x					
y					

Equation #1 is _____.

- ⇒ Question 2.

x					
y					

Equation #2 is _____.

(C) **Classwork**

- Internet Resource → <http://www.teacherweb.com/NY/Arlington/AlgebraProject/2L4WritingEquationsofLines.pdf>

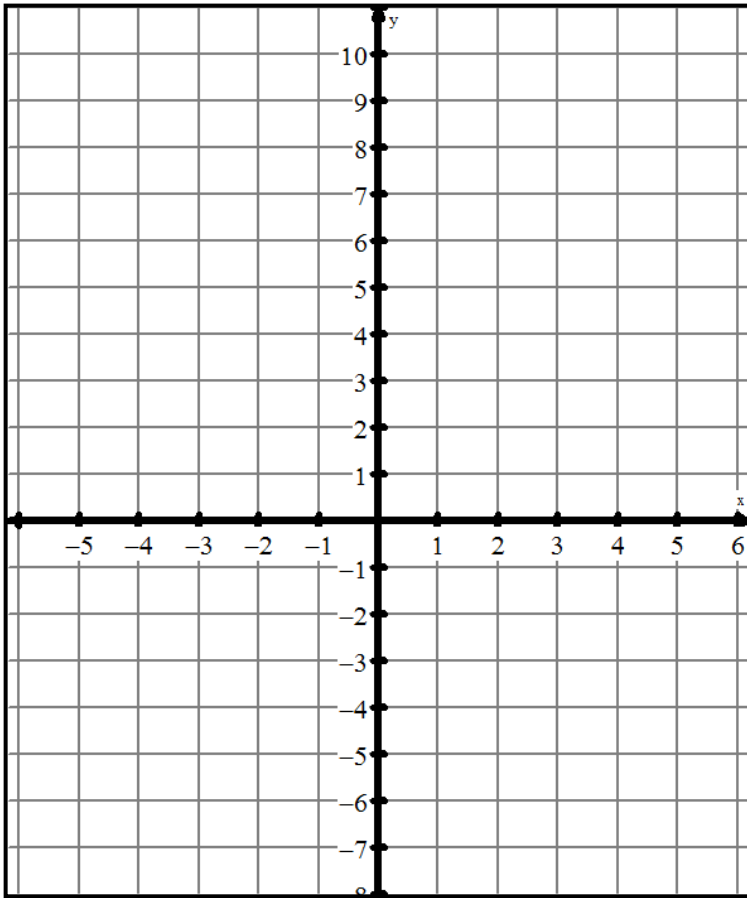
(D) **Homework/Resources**

- HOMEWORK:
- Help from PurpleMath with slope → <http://www.purplemath.com/modules/sloggrph.htm>
- Practice from MathisFun.com → http://www.mathisfun.com/quiz/linear_equation_test.html

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- Graph for Part B EXPLORATIONS, question (a)



Question (b)

