	Name			
	ALGEBRA II JOURNAL			
	Linear Equations			
1.	a) In a function, each is paired with			
	b) You can determine whether a <u>set of ordered pairs</u> is a function			
	c) You can determine whether a relation is a function <u>given its graph</u> by			
2.	a) The set of <i>x</i> -coordinates in a function is called			
	b) The set of <i>y</i> -coordinates in a function is called			
3.	a) The function notation " $f(x)$ =" represents the same thing as in regular notation.			
	b) If you find $f(7)$ and get a result of -3, what does that represent in terms of a graph?			
4.	Slope is defined to be			
5.	How can you most quickly find the slope of a line in each of the following situations?a) given an equation in slope-intercept form			
	b) a graph			
	c) given two points			
6.	Given a linear equation in standard form, the <i>x</i> -intercept can be found by			
7.	The best way to graph a line in the form $y = mx + b$ is			
	while the best way to graph a line in the form $Ax + By = C$			
	is			
8.	(b) When modeling a real world situation which contains an amount which varies over time and a			
	fixed amount which does not change, you should find its linear equation by			
	 (a) When modeling a real world situation which contain two sets of data, you should find its linear equation by			
9.	(a) The <i>r</i> value given when performing a linear regression is called the			
	and is used to describe			
10	. When an <i>x</i> -coordinate is placed in a greatest integer function, the resulting <i>y</i> -coordinate is determined by finding			
11	(a) When finding $f(\#)$ in a piecewise function, into how many of the pieces should you substitute the number?			
	(b) You can determine which of the pieces to substitute the number into by			

1.

2.

3.

4. 5.

6.

7.

8.

9.

12. Important Rules, Formulas, Etc.

List the following rules, formulas, or steps. <u>When giving formulas, be sure to</u> indicate what each part of the formula represents.

- a) Slope-intercept form of a line_____
- b) Point-slope formula _____
- c) Slope and equation of a horizontal line _____
- d) Slope and equation of a vertical line_____
- e) Slope of perpendicular lines ______ Slope of parallel lines ______
- f) List the transformation rules for graphing and write an example <u>equation</u> of each <u>by placing</u> $\underline{numbers}$ in the proper location in the function f(x) = |x|.

Transformation	Rule	Example using $ x $	
Move right <i>c</i> units			
Move down <i>c</i> units			
Change slope			L
Reflect over <i>y</i> -axis			$\neg U$
Move up <i>c</i> units			
Reflect over <i>x</i> -axis			
Move left <i>c</i> units			

g) Graph each of the following: f(x) = 6, f(x) = x, f(x) = |x|, and f(x) = [x].