Guided Notes 2: Section 3.3 (Part1)

I. **Vocabulary (Fill in the definition)**

A) Independent Variable:

B) Dependent Variable:

Complete the following statements

C) The value of the _____ _____ depends on, or is a function of the value of the _____ _____.

II. **Identify the Dependent and Independent Variables in each of the following (Complete the statements by filling in the blanks):**

A) In winter, more electricity is used when the outside temperature goes down, and less is used when the outside temperature rises.

So, the _____ depends on the _____.

Dependent:

Independent:

B) The cost of shipping a package is based on its weight.

The _____ depends on the _____.

Dependent:

Independent:

C) The faster Tom walks, the quicker he gets home.

The _____ depends on the _____.

Dependent:

Independent:

D) Reflect:

1) Give a situation where "time" is the dependent variable and "distance" is the independent variable.

2) Example A, how do we know that the amount of electricity used is not the independent variable?

III. **Functional Notation (Complete the Table)**

The dependent variable	is		
	is	a function of	x
Y	=		

IV. **Write an equation in function notation.**

A) Amanda baby sits and charges $5 per hour.

(Fill in the chart)

Time worked in Hours (x)				
Amount Earned in Dollars (y)				

The _____ is $5 time the _____.

B) Define Function Rule:

C) Write an equation using two variables to show this relationship.

Amount earned is $5 times the number of hours worked.

_____ = _____ x _____

D) Write the equation in function notation.

E) Reflection:

1) Can y be used instead of f(x) in function notation? If so, tell why. If not, give an example of a function not written in function notation and the same function written in function notation.