

Algebra In-Class Rate of Change

Name:	

Period: ____

allows you to see the relationship between two quantities that are changing. If one quantity *depends* on the other, you can find rate of change by using this formula:

Rate of Change = _____ = ____

Cost of Renting a Computer		
Number of		
Days	Cost	
X	У	
1	60	
2	75	
3	90	
4	105	
5	120	

Use the data in the table to the left to answer the following:

1. Does cost depend on the number of days?

2. Is the change from one x value to the next the same for each consecutive day? _____

3. What is the change from one x value to the next?

4. Is the change from one y value to the next the same for each consecutive day? _____

5. What is the change from one y value to the next?

7. It costs \$_____ for each day a computer is rented after the first day.



The rate of change in the following table is constant. Find the rate of change.

Temperature increase			
Time	Temperature		
(hours)	(F)		
1	25		
5	35		
10	45		
15	55		

You can also use a graph to find a rate of change. Recall that the x variable (called the variable) is plotted on the horizontal axis and the y variable (also called the variable) is plotted on the vertical axis.

When finding a rate of change from a graph, we can use the following formula:

Rate of Change = _____