The table shows the average temperature (°F) for five months in a certain city. Find the rate of change for each time period. During which time period did the temperature increase at the fastest rate?

Month:	2	4	5	8	9
Temp ( <sup>°</sup> F)	54	62	67	76	78



Anne was reading a book. She wrote down what page she was on at various times:

- Was she reading at a constant rate?
- If so, what is the rate?

Rate of Change=

Time	Page
1:45	0
1:50	15
2:00	45
2:03	54
2:19	102



• If not, when was she reading faster or slower?

A Nachvilla Fire Department tenken truck had access to a certain number of cellans of y	votor (

A Nashville Fire Department tanker truck had access to a certain number of gallons of water at a recent fire. After several hours the firefighter realized he did not record the initial amount of water as he was required, but he knew the truck used water at a constant rate. He recorded the following information:

# of hours at the	0	3	5	8	?
scene					
# of gallons	?	336,000	240,000	96,000	0
remaining					

- How many gallons per hour does the truck use?
- How much water did the truck have originally?
- How long will it take the truck to run out of water?

Here is an x/y table. Is the rate of change constant? Show using the numbers in the table, then verify with the graph.

х	У	
1	10	
5	16	
6	17.5	
8	23.5	
11	28	



Here is an x/y table. Is the rate of change constant? Show using the numbers in the table, then verify with the graph.

X	у
1	1
2	4
3	9
4	16
5	25



Do the points on the graph have a constant rate of change? If so, what is this rate? Make an x/y table to help you with your calculations.



The table shows the number of bikes made by a company for certain years. Find the rate of change for each time period. During which time period did the number of bikes increase at the fastest rate?

Year	1	2	5	7	11
Bikes	32	35	47	47	61