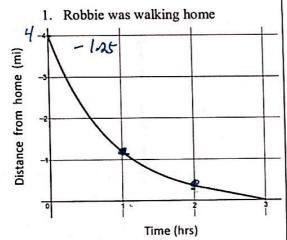
	nat we know about constant so far e the following two lines on the graph	6 -		
1.	Which line is not a function? /ineb	Distance 5		,
2.	Explain why your choice is not a function. More than one yealure on an x-value	home 3	Line	1
	K. W. and Carlotter	(mi) 2	Line b	
	Write the equation of the line. $\chi = 2$		3	1
4.	The graph is telling you that after two hours the person is and and and and and where the person is and and and and and and and where the person is and	is impossible o	1 2 3 4 Time (hrs)	5
5.	Which line is a function? /ine a	, is impossible o	Contract of the Contract of th	
6.	Write the equation of this line. U=5 The line you chose is a			
7.	and is neither increasing or decreasing so it is	stant		
8.	Be specific and explain what exactly is remaining of Distance or the dependent variable	onstant.		
9.	At what speed is the person driving in the constant fundament of the drawn of the speed is the person driving in the constant fundament.	nction? Explain	the distance	
10	Speed (miles per hour) is an example of a rate of charmany words per minute you can type. What other rate	The second secon		nple is

B. Constant Rates of Change For each graph below, identify the IV and DV and decide if the graph (DV) is constant.

Then, decide how you would describe the rate of change and find it for each hour. Use this to help you decide if the rate is constant.



IV: <u>Time</u> DV: <u>Distance</u>

Is the GRAPH (DV) constant? Explain.

10, because the miles from home

is changing

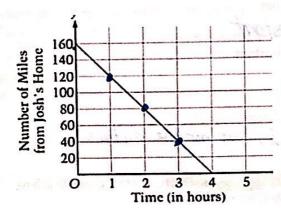
Rate of change used:

/// LCS

The 1st hour the distance changes by 2.75 mgh

No Decause his speed kept changing

2. Josh was driving home



IV: Time

Is the GRAPH (DV) constant? Explain.

No, because the miles from home

Rate of change dised: 11/1/CS/ 1/00/

The 1st hour the distance changes by 40 m/hr

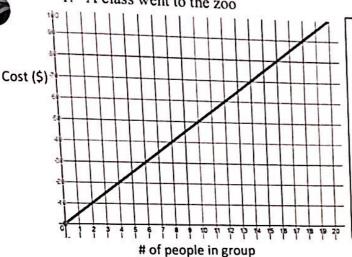
The 2nd hour the distance changes by 40 mi/h/

The 3rd hour the distance changes by 40 mi/h

Is the RATE constant? Explain. He some speed the whole time

C. Practice deciding if each rate is constant

1. A class went to the zoo



IV: #of people ingroup

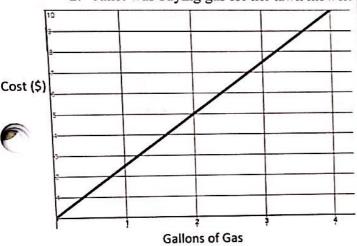
DV: Cost

Rate of change used: Lost/#of people

Is the RATE constant? Explain.

yes. Cost increase by the same

2. Janet was buying gas for her lawn mower.



IV: Gallons of Gas

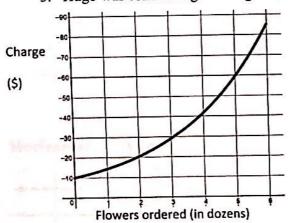
DV: Cost

Rate of change used: Los / gallon

Is the RATE constant? Explain.

yes

3. Hugo was considering ordering flowers for his wife.



IV: Flowers orders

DV: Charge

Rate of change used: change/flowers

Is the RATE constant? Explain.

No, The rate changes from each dozen of flowers ordered

4. What do the graphs with a constant RATE have in common?

When a graph is a straight line (which is indicated by a constant rate of change), we call it a linear function. This means that we can write a rule (or equation) for the line. As we go through this unit, we will practice writing rules for these functions when they are presented in different ways. One of the most important things in the equation will be the rate of change. Using the rates you made above as examples, write the rate of change for this generic graph. The rate in part B was

The rate in part C #1 was _ The rate in part C #2 was _ D.V. The rate in part C #3 was

Remember that in math we usually write rates as fractions. So the fraction would be:

I.V.