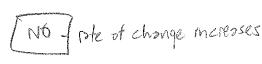
Chapter 4 Midterm Review

Does the data in the chart represent a linear function? Explain.

1.)			
	Χ	Υ	
	0	5	+3
	1	8 .	
	2	11	1 3
	7	4.6	13

YES-	Constant	nde	of	Change

J			
	Х	Υ	
	3	11	+7
	4	18	+9
	5	27	+ (1
	.6	38	' {1

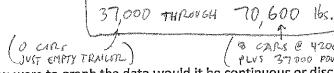


- 3.) The total weight W, in pounds, of a tractor-trailer capable of carrying 8 cars depends on the numbers of cars, c, on the tractor-trailer. When there are no cars on the trailer, it weighs 37,000 pounds. Each car weighs 4200 pounds.
 - a.) Write a function of the weight of the tractor-trailer with any given number of cars being carried. W = 4200c + 37000

b.) What is the domain of the function? INTESMES O THROVER 8

{0,1,2,3,4,5;6,7,8}

c.) What is the range?



(& CAR'S @ 4200 FOUNDS) PLVS 37000 POUND TRAILIR)

WEIGHT JUMPS 4200 165 FOR GACH ADDITIONAL CAR

- d.) If you were to graph the data would it be continuous or discrete? Explain why you chose your answer. DISCRETE:
- 4.) The length of a shoebox is 7 inches more than the width. The perimeter of the shoebox is 38 inches. Write an equation that can be used to find width using this information.

