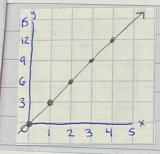


11

## **Example 1: Identify the Relationship in a Table of Values**

The pattern in the table of values represents a linear relation.

- a) Graph the ordered pairs in the table of values.
- b) What is the difference in value for consecutive A-values? for consecutive B-values?
- c) Describe in words the relationship between the values for A and B.
- d) What is an expression for B in terms of A?



C) B-value increase	by	3, while	A-valus
increase by 1.	10)		

BY

3

6

d) y= mx+ b m & Slope & Change Tox

b = y-intercept, y when x=0

Example 2: Use a	Table to Determine a	Lineau Delet
For each + 11	a de l'illie d	rillear relation

For each table of values below, answer the following questions:

- a) What is the pattern in the values for the first variable in each table?
- b) What is the difference in consecutive values for the second variable in each table? Is the difference within each table the same?
- c) Graph each set of ordered pairs. Which relations are linear?
- d) How does your answer in part c) compare with your answer in part b)?

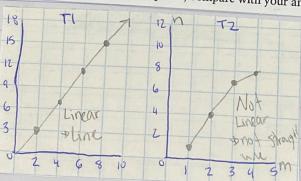


Table 1 +2						
x	2	4	6	8		
у	3	7	11	15		
Table 2						
m	1	2	3	4		
n	1	4	7	8		
000						
+ 612	+	2 +	> -	+1		

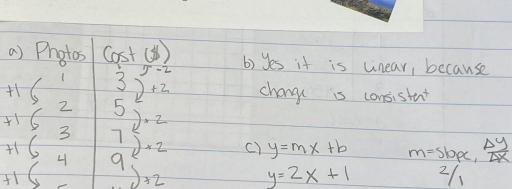
DX

y=mx+b

## Example 3: Use a Table of Values in Solving a Problem

Photo World charges \$3 for the first enlargement and \$2 for each additional enlargement.

- a) Make a table of values showing the cost in relation to the number of enlargements for one to five enlargements.
- b) Is this a linear relation? Why?
- c) What is an expression for the cost in relation to the number of enlargements?
- d) What is the cost of 15 enlargements?



$$d_{3}y = 2x + 1$$

$$y = 2(15) + 1$$

$$y = 30 + 1$$

$$y = 33$$