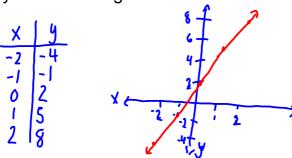


Does the table represent a linear relation?
 If so then write the equation that relates x to y.

a) _x	<u>y</u>	b) x	у	c) x	У
,1	21 17 ² -4	2	6) 43	<u>, 1</u>	5 7 1+2
2ر ۱	174 "	41 (3	6)+3	2رًا ا	7
4 > 3	13)-4	4 کی ب	12 +3	42 (7)	712+4
		ا کی ا	15 2+3	5 (ا	13 112
4=-41	(+25)	(4= 3)	δ	11-2×+-	3)
=4(2)+	25=-8+25	3(3)=	9	2(2)+3	= 4+5 = 7 _/

2. Make a table of values and graph the equation y= 3x + 2 using the x-values -2 to 2.



29. Here is a pattern made with toothpicks. The pattern continues.



- a) Write an equation that relates the number of toothpicks, N, to the figure number, n.
- b) How many toothpicks are needed for figure 80?

(a)
$$\frac{n}{1} \frac{N}{4} + 2$$

 $\frac{1}{2} \frac{4}{6} + 2$
 $\frac{1}{3} \frac{4}{8} + 2$
N= $\frac{1}{4} + 2$
 $\frac{1}{6} \frac{4}{1} + 2$

Check
$$2(2)+2=4+2$$

= 6 ×
 $2(3)+2=6+2$
= 8 ×