

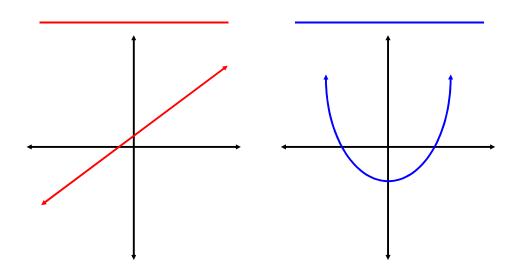
Linear vs Non-Linear Relationships Graphs, Tables & Equations

Today's Learning Targets:

8.8 I can give examples of relationships that are non-linear functions.

₋ınear	•		
	Tables have a	pa	ttern
	Graphs make a	line	
	Equations are	and do not have	·
Non-L	inear Tables do not have a		pattern
	Graphs do not make _		_line
	Equations are	and have	

GRAPHS



TABLES

Is each table linear or non-linear?

X	у	X	у	X	у	<u>x</u>	У	<u>x</u>	У
-2 -1 0 1 2	5 2 1 2 5	-3 0 1 2 3	9 0 1 4 9	1 2 3 4 5	4 1 -2 -5 -8	0 1 2 3 4	1 3 9 27 81	0 1 2 3 4	0 2 8 18 32
linear linear or or non-linear non-linear		0	ear r inear	0	ear r linear	0	ear r linear		

Linear Equations y = mx + b

y =	
y =	·
	When graphed,
y =	

Non-Linear Equations

<i>y</i> =	
y =	•
<i>y</i> =	When graphed,
<i>y</i> =	•

Write the equation for the linear table.

<i>y</i> =	X	
------------	---	--

$$y = X$$

X	у
2	1
6	7
8 10	10 13