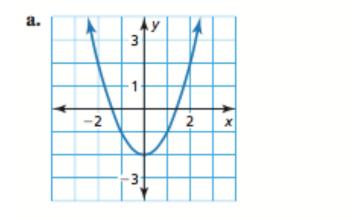
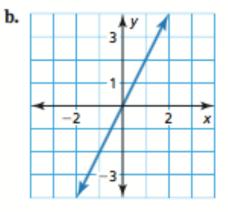
Name:		Date:	
3.2 Linear Function	<u>S</u>		
Essential Question:			
Remember a function is a	relation where every	is pared with c	one
A linear equation in two va	ariables, x and y, is an e	equation that can be written in	the form
where m	and b are	The graph of a linear equ	lation is a
Likewise, a	linear function is a funct	tion whose graph is a	line. A linear
function has a	rate of a	and can be represented by a l	inear equation in
variables. A	function does _	have a constant rate o	f change so its graph
is a line.			

EXAMPLE 1

Identifying Linear Functions Using Graphs

Does the graph represent a linear or nonlinear function? Explain.





EXAMPLE 2 Identifying Linear Functions Using Tables

Does the table represent a linear or nonlinear function? Explain.

a.	x	3	6	9	12
	у	36	30	24	18

b.	x	1	3	5	7
	у	2	9	20	35



EXAMPLE 3 Identifying Linear Functions Using Equations

Which of the following equations represent linear functions? Explain.

$$y = 3.8, y = \sqrt{x}, y = 3^x, y = \frac{2}{x}, y = 6(x - 1), \text{ and } x^2 - y = 0$$

Copy down the concept summary in the space below: