"What is a Function?" Review

What defines a function?_____

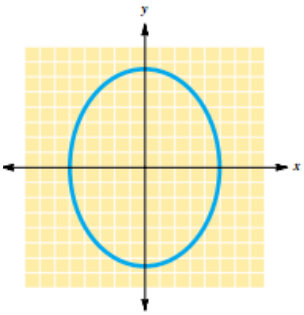
_____

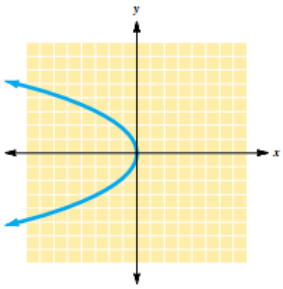
Determine whether the following are a function. Circle the items that are functions.

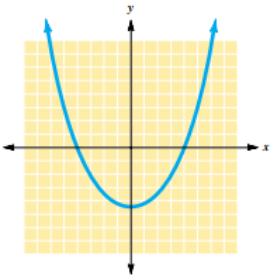
x	y
−3	0
−1	1
1	2
3	3

x	y
−2	−2
−1	−2
1	3
2	3

x	y
−2	0
−1	1
0	2
0	3







What is an easy way to remember if it's a function from a graph?_____

_____

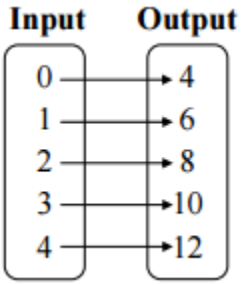
{(1, 3), (1, 2), (1, 1)}

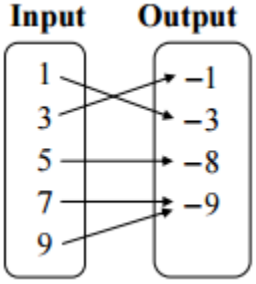
{(2, −1), (3, 4), (3, −1)}

{(1, 2), (1, 3), (2, 1), (3, 1)}

What is an easy way to remember if it's a function from a set of points?_____

_____

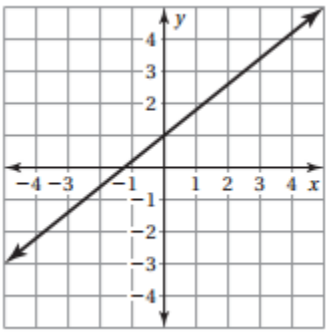


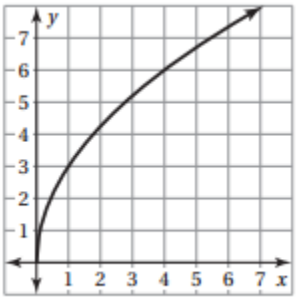


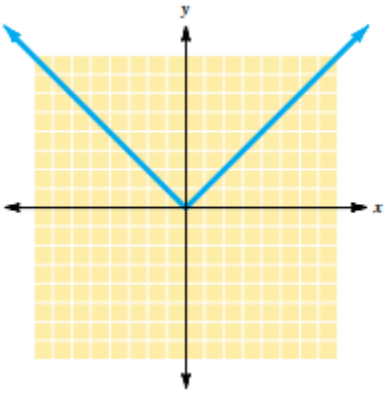
Explain two ways you can identify if a function is linear.

1.)
2.)

Circle the following graphs that represent a linear function and state why.







State if the following functions are linear or nonlinear. Explain.

Input, *x*	1	2	3	4
Output, *y*	0	3	8	15

Input, *x*	1	2	3	4
Output, *y*	−1	−3	−5	−7

The table shows the cost y (in dollars) for x theater tickets. Find the missing y-value that makes the table represent a linear function.

Tickets, *x*	2	4	6
Cost, *y*	26	?	78

Create a table that represents a linear expression. Explain what makes it a linear function.