LESSON 3-4

Functions

Know it! Note

Lesson Objectives

Represent functions with tables, graphs, or equations

Vocabulary

function (p. 134) _____

_____

input (p. 134) _____

_____

output (p. 134) _____

_____

domain (p. 134) _____

range (p. 134) _____

vertical line test (p. 135) _____

_____

_____

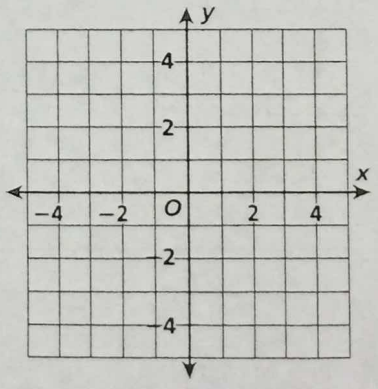
Additional Examples

Example 1

Make a table and a graph of $y = 3 - x^2$.

Make a table of inputs and outputs. Use the table to make a graph.

x	$3 - x^2$	y
−2		
−1		
0		
1		
2		



Example 2

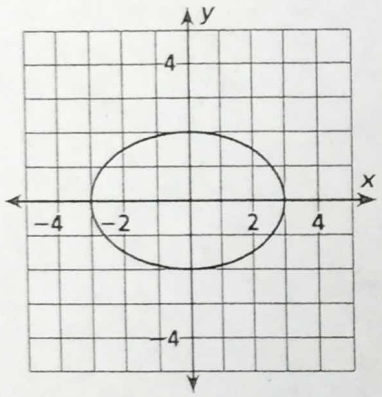
Determine if each relationship represents a function.

A.

x	2	3	3	2
y	3	4	5	6

The input $x = 2$ has [ ] outputs, $y =$ [ ] and $y =$ [ ].
The input $x = 3$ also has more than one output. The relationship is [ ].

B.



The input $x = 0$ has [ ] outputs, $y =$ [ ] and $y =$ [ ]. Other x-values also have more than one y-value. The relationship is [ ].

Try This

1. Make a table and a graph of $y = x + 1$.

x	$x + 1$	y
−1		
0		
1		
2