Lesson 4.1 Defining Functions

A **function** is a relationship between two variables which results in only one output value for each input value. If one input has more than one output, then a function does not exist.

input	output
3	−2
4	−3
5	−1

This table represents a function because for every input variable, there is one and only one output variable.

input	output
3	10, 20
6	15

This table does not represent a function because one of the input variables has more than one output variable.

Decide if each table represents a function by stating *yes* or *no*.

a

b

c

1.

input	output
−9	c
−5	c
1	b
6	a

input	output
2	4
4	6
6	8

input	output
−4	0
−1	6, −6
0	4

_____   _____   _____

2.

input	output
2	17, −7
3	−13
7	−27
8	−43

input	output
1	c
5	a
8	b

input	output
13	14, 5
16	7
18	13

_____   _____   _____