Chapter 1 Test results

Ways to show relations

Ordered Pairs

(3,9)

(-1,5)

(-1,2)

(x,y)

(INPUT, OUTPUT)

Table

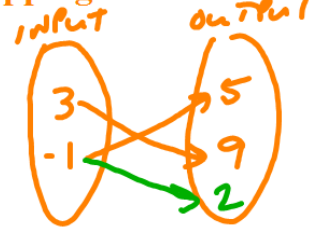
vert

x	y
3	9
-1	5
-1	2

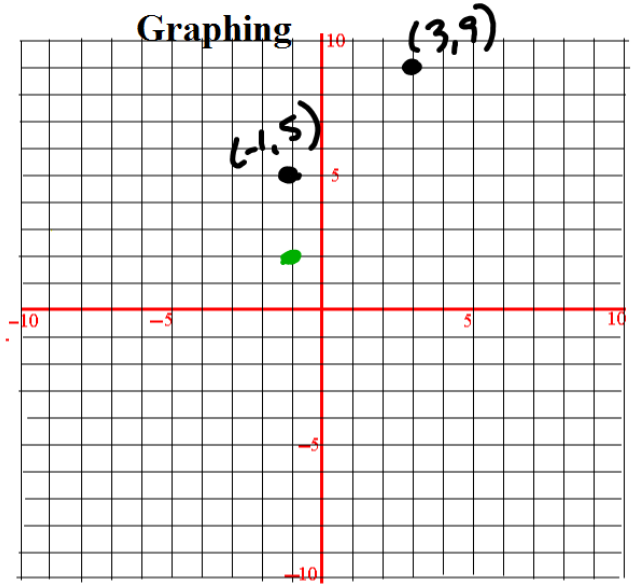
horiz

x	3	-1	-1
y	9	5	2

Mapping



Graphing



Domain/Range lists

x y

INPUT OUTPUT

D: {3, -1}

R: {5, 9, 2}

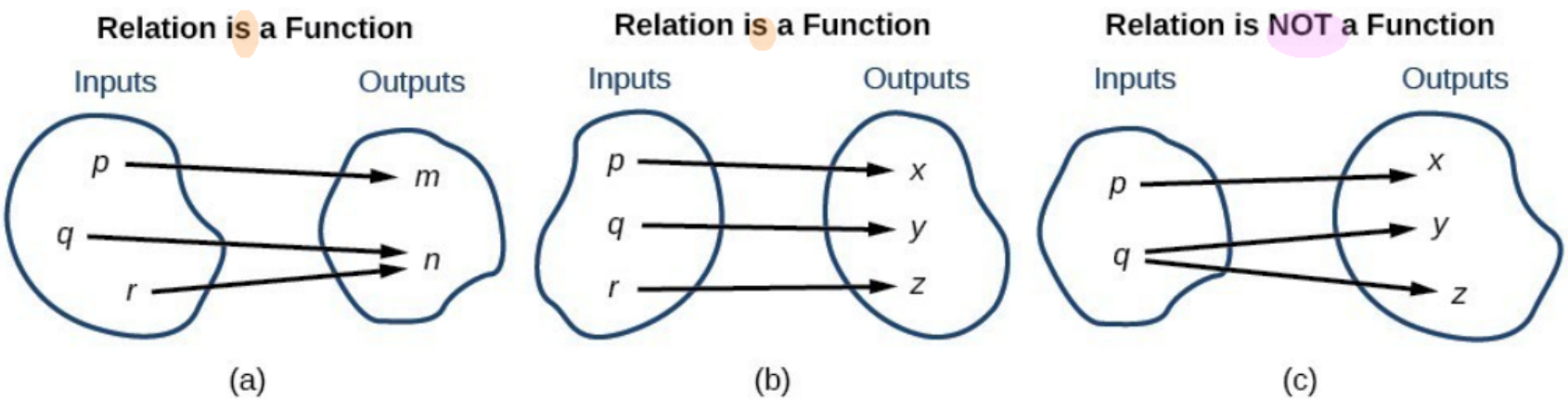
2.1: Relations & Functions

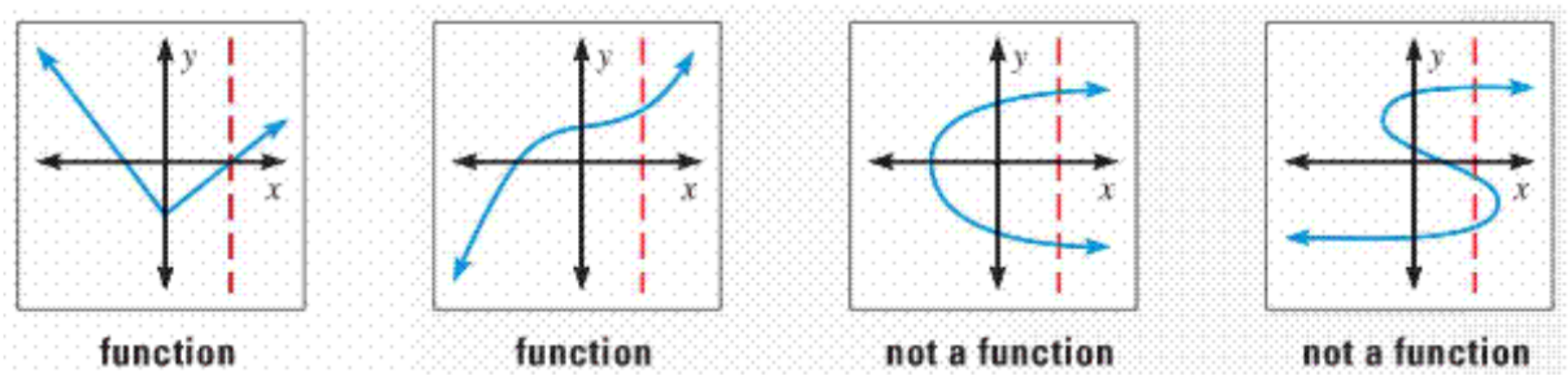
Train	Destination
A	Office
B	800's
C	400's
D	600's
E	Resource Center
F	Office

yes

Functions are special kinds of relations

~ Functions can't have the same train go to 2 different destinations
~ or an arrow can't hit the target in 2 different spots





Instead of a list of ordered pairs, functions can be defined using equations

$$y = 2x + 5$$

$$f(x) = 2x + 5$$

$$y = -3x + 7$$

$$g(x) = -3x + 7$$

$$x = 2$$

$$g(2)$$

Function Notation

~ "names" the functions and

~ tell what variable is being used

$f(x) = -4x$ $\qquad$ $g(x) = 7x - 1$ $\qquad$ $h(x) = 2x^2 + 3$

$g(2) = 13$

$f(x,y) = 2xy + 5$

$f(2,1) =$

Math Practice:

p64(11-29,35)

ignore directions for one-to-one/onto/both/neither