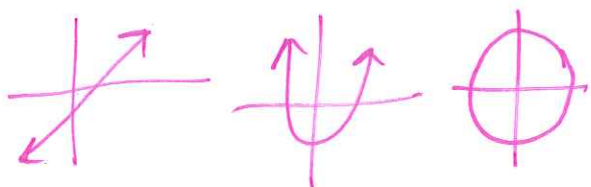


relation FUNCTION

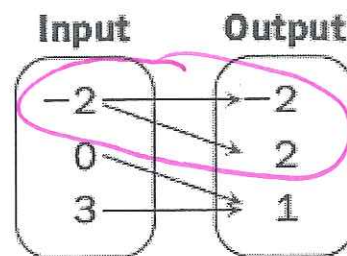
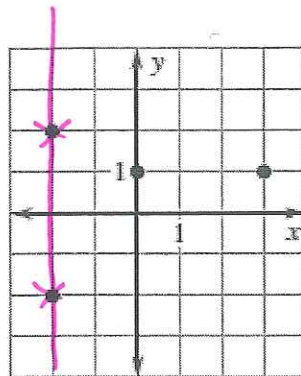
Domain Range

A mapping, or pairing, of input values with specific outputs



$(-2, 2)$
 $(-2, -2)$
 $(0, 1)$
 $(3, 1)$

x	y
-2	2
-2	-2
0	1
3	1



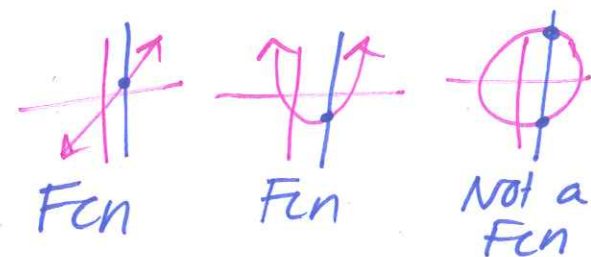
A relation for which each input has exactly ONE unique output.

* x's cant cheat

Passes the vertical line test (VLT).

Not a fcn, x's cheat, Fails VLT

D: $\{-2, 0, 3\}$ R: $\{-2, 1, 2\}$



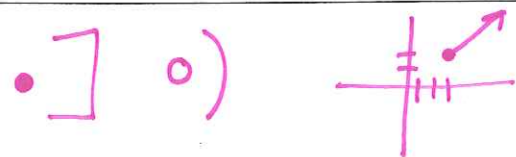
D DOMAIN

I INPUT

X X-VALUES

I INDEPENDENT

(Left → Right)



Interval Notation:

D: $[3, \infty)$

R: $[2, \infty)$

Set Builder Notation:

D: $\{x \mid x \geq 3\}$

R: $\{y \mid y \geq 2\}$



D: $(-\infty, 3)$

R: $(-\infty, 2)$

D: $\{x \mid x < 3\}$

R: $\{y \mid y < 2\}$

R

RANGE

O

OUTPUT

Y

Y-VALUES

D

DEPENDENT

(Bottom → Top)