

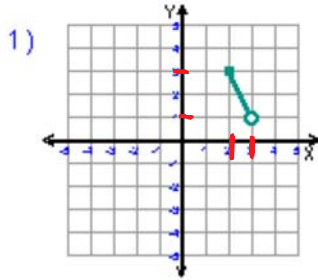
Name : Answer Key

Score : _____

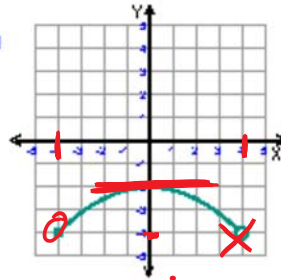
Teacher : _____

Date : _____

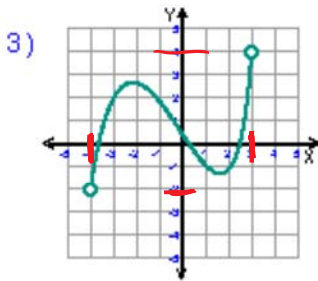
Domain and Range of Graphs



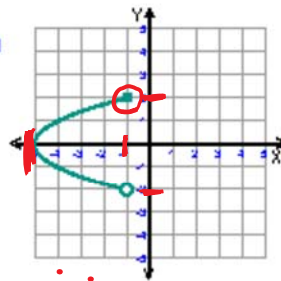
Domain: $2 < x < 3$
Range: $1 < y < 3$
Function: yes



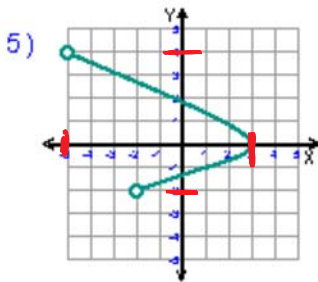
Domain: $-4 \leq x \leq 4$
Range: $-4 \leq y \leq -2$
Function: yes



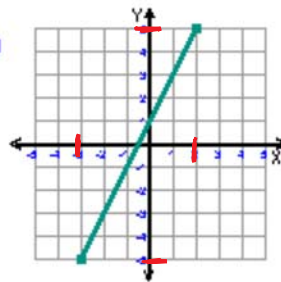
Domain: $-4 < x < 3$
Range: $-2 < y < 4$
Function: yes



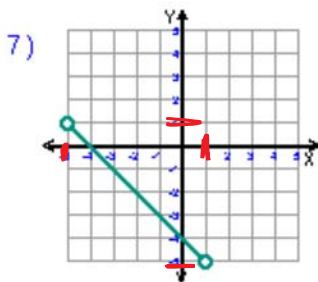
Domain: $-5 \leq x \leq -1$
Range: $-2 < y \leq 2$
Function: no



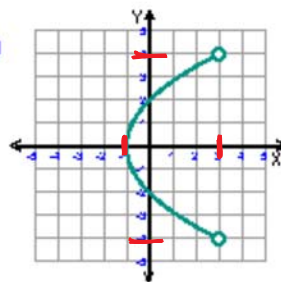
Domain: $-5 < x \leq 3$
Range: $-2 < y < 4$
Function: no



Domain: $-3 \leq x \leq 2$
Range: $-5 \leq y \leq 5$
Function: yes



Domain: $-5 < x < 1$
Range: $-5 < y < 1$
Function: yes



Domain: $-1 \leq x < 3$
Range: $-4 < y < 4$
Function: no

Ordered Pairs

Example: Find the Domain and Range.

$\{(1, 2), (2, 5), (3, 1), (1, 6), (4, 8)\}$

Domain = $\{1, 2, 3, 4\}$ Range = $\{1, 2, 5, 6, 8\}$

Find the Domain and Range for each set of ordered pairs.

1) $\{(3, 2), (5, 7), (1, 4), (9, 2), (3, 7)\}$

Domain : $\{1, 3, 5, 9\}$

Range : $\{2, 4, 7\}$

2) $\{(6, 2), (3, 5), (9, 0), (5, 7), (8, 1)\}$

Domain : $\{3, 5, 6, 8, 9\}$

Range : $\{0, 1, 2, 5, 7\}$

3) $\{(1, 9), (2, 7), (5, 4), (7, 12), (3, 9)\}$

Domain : $\{1, 2, 3, 5, 7\}$

Range : $\{4, 7, 9, 12\}$

4) $\{(0, 2), (3, 3), (8, 7), (2, 2), (3, 9)\}$

Domain : $\{0, 2, 3, 8\}$

Range : $\{2, 3, 7, 9\}$

5) $\{(11, 3), (6, 5), (7, 1), (9, 7), (8, 3)\}$

Domain : $\{6, 7, 8, 9, 11\}$

Range : $\{1, 3, 5, 7\}$

6) $\{(6, 1), (9, 2), (6, 8), (9, 7), (8, 3)\}$

Domain : $\{6, 8, 9\}$

Range : $\{1, 2, 3, 7, 8\}$

7) $\{(1, 9), (0, 8), (3, 0), (4, 9), (7, 7)\}$

Domain : $\{0, 1, 3, 4, 7\}$

Range : $\{0, 7, 8, 9\}$

8) $\{(9, 9), (7, 4), (1, 2), (2, 6), (5, 0)\}$

Domain : $\{1, 2, 5, 7, 9\}$

Range : $\{0, 2, 4, 6, 9\}$

9) $\{(1, 1), (2, 3), (3, 4), (4, 2), (5, 1)\}$

Domain : $\{1, 2, 3, 4, 5\}$

Range : $\{1, 2, 3, 4\}$

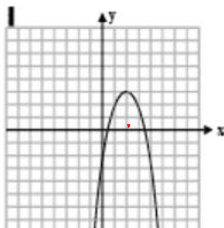
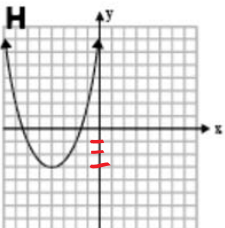
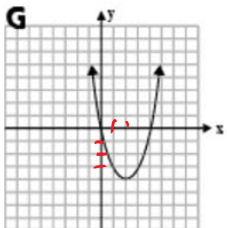
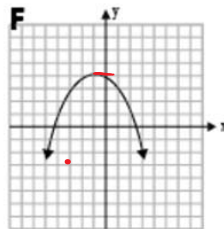
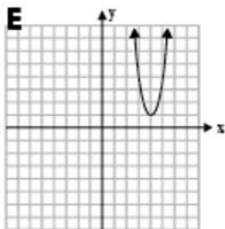
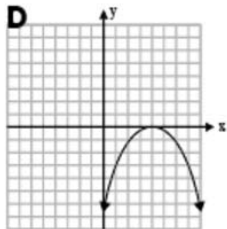
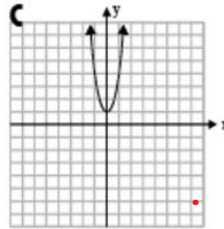
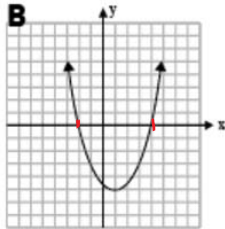
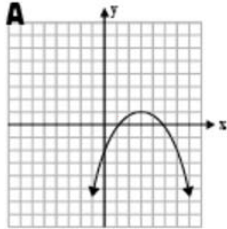
10) $\{(8, 4), (6, 2), (1, 9), (3, 8), (0, 7)\}$

Domain : $\{0, 1, 3, 6, 8\}$

Range : $\{2, 4, 7, 8, 9\}$

WHO AM I?

Parabolas. Identify all the possible answers for each clue.



(name) _____

CLUES

My axis of symmetry is $x = 2$.

G, I

In my equation, $a > 0$.

I have no zeros.

C, E

My range is $y \leq 0$.

D

My zeros are at $x = -2$, and $x = 4$.

B

My maximum value is $y = 4$.

F

I have a minimum value.

B, C, E, G, H

My range is $y \geq -3$.

H

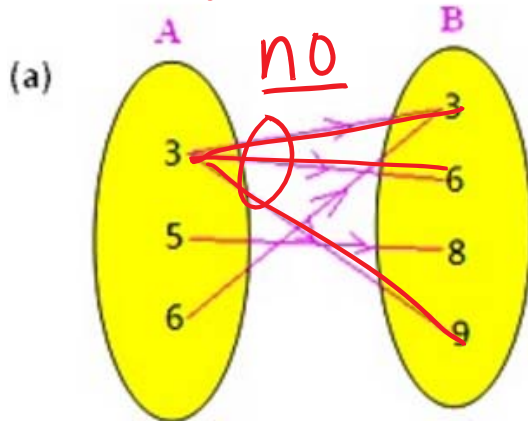
My domain is all real numbers.

A, B, C, D, E, F, G, H, I

Find the Domain and Range of the mapping diagrams shown below.

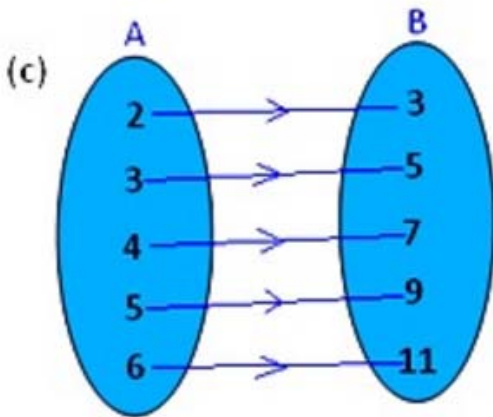
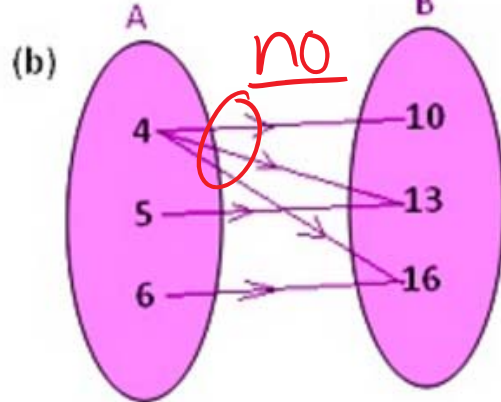
Then say if it is a function or not.

$$D: \{3, 5, 6\}$$
$$R: \{3, 6, 8, 9\}$$



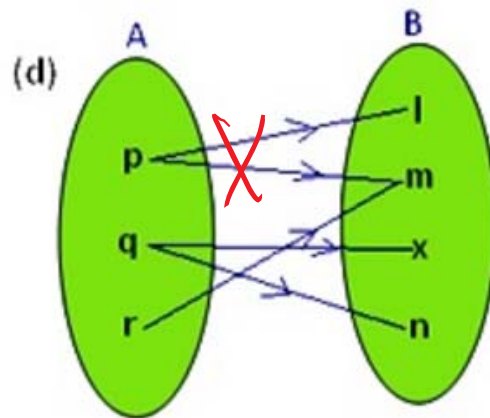
$$(3, 3)$$
$$(3, 6)$$
$$(3, 8)$$
$$(3, 9)$$
$$(5, 8)$$
$$(6, 9)$$

$$D: \{4, 5, 6\}$$
$$R: \{10, 13, 16\}$$



$$D: \{2, 3, 4, 5, 6\}$$
$$R: \{3, 5, 7, 9, 11\}$$

yes



$$D: \{p, q, r\}$$
$$R: \{l, m, x, n\}$$

no