

Name : _____

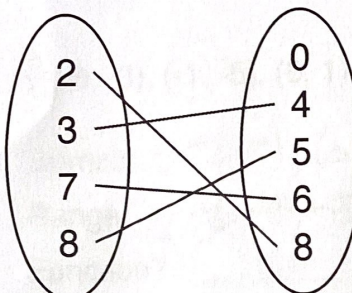
Score : _____

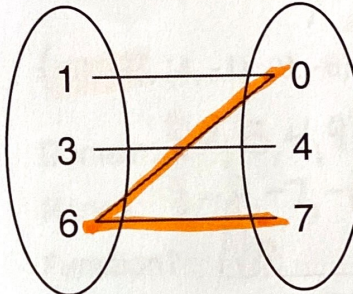
Teacher : _____

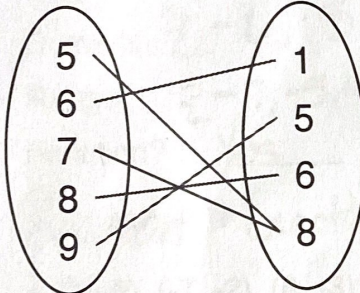
Date : _____

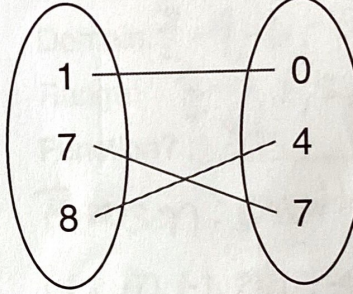
Domain and Range Mapping Diagrams

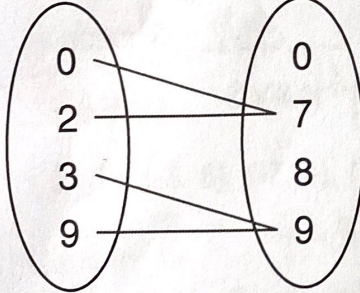
Determine whether each diagram depicts a function or not. Explain

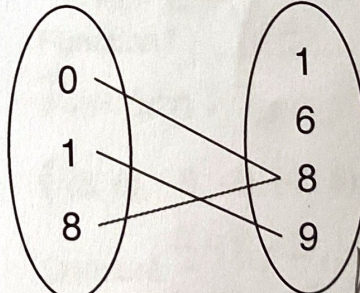
1)  Function: Yes
Reason: Each input has exactly one output.

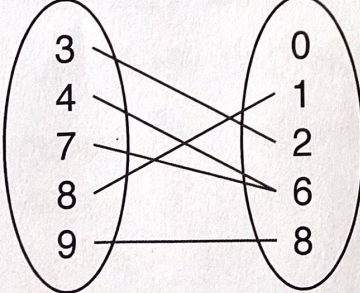
2)  Function: No
Reason: An input has more than one output.

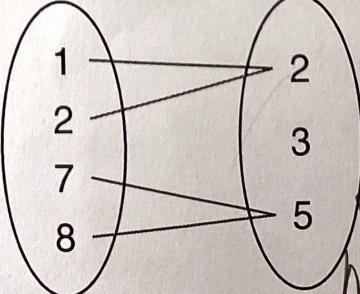
3)  Function: Yes
Reason: Each input has exactly one output.

4)  Function: Yes
Reason: Each input has exactly one output.

5)  Function: Yes
Reason: Each input has exactly one output.

6)  Function: Yes
Reason: Each input has exactly one output.

7)  Function: Yes
Reason: Each input has exactly one output.

8)  Function: Yes
Reason: Each input has exactly one output.



Name : _____

Score : _____

Teacher : _____

Date : _____

Ordered Pairs

Find the Domain and Range. Also, state whether each set of ordered pairs is a function or not.

Explain your function answer.

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

Domain: $\{-8, -1, 6, 9\}$

Range: $\{-6, -5, -3, 1\}$

Function? : Yes

Reason: Each input has exactly one

2) $\{(-6, -7), (9, 8), (-5, -7), (6, -5), (0, 4)\}$ *output 7*

Domain: $\{-6, -5, 0, 6, 9\}$

Range: $\{-7, -5, 4, 8\}$

Function? : Yes Each input has

Reason: exactly one output.

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

Domain: $\{-7, -3, 0, 2, 8\}$

Range: $\{-6, -5, -3, -2, -1\}$

Function? : Yes Each input has

Reason: exactly one output.

4) $\{(4, 2), (-3, 6), (-7, 4), (5, 0), (-4, 5)\}$

Domain: $\{-7, -4, -3, 4, 5\}$

Range: $\{0, 2, 4, 5, 6\}$

Function? : Yes Each input has

Reason: exactly one output.

5) $\{(5, -1), (-5, -1), (3, 5), (-4, 2), (-7, -8)\}$

Domain: $\{-7, -5, -4, 3, 5\}$

Range: $\{-8, -1, 2, 5\}$

Function? : Yes Each input has

Reason: exactly one output.

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

Domain: $\{0, 3, 4, 9\}$

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

Function? : No An input has

Reason: more than one output.

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

Domain: $\{-9, -6, -5, 3, 7\}$

Range: $\{-7, 1, 2, 8, 9\}$

Function? : Yes Each input has

Reason: exactly one output.

8) $\{(-2, -7), (-1, 2), (7, -4), (-3, -3), (2, -9)\}$

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

Range: $\{-9, -7, -4, -3, 2\}$

Function? : Yes Each input has

Reason: exactly one output.

9) $\{(3, 6), (-8, -2), (-2, 5), (1, -6), (4, 3)\}$

Domain: $\{-8, -2, 1, 3, 4\}$

Range: $\{-6, -2, 3, 5, 6\}$

Function? : Yes Each input has

Reason: exactly one output.

10) $\{(4, 5), (-4, 4), (2, -1), (-5, 5), (-2, 0)\}$

Domain: $\{-5, -4, -2, 2, 4\}$

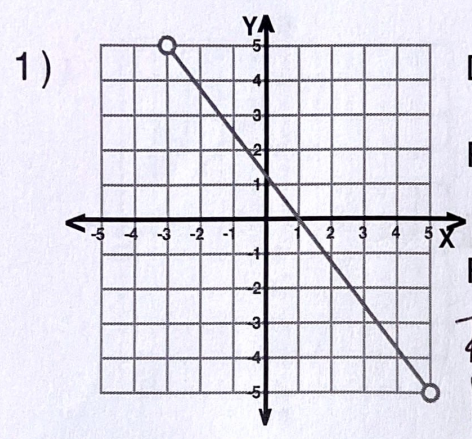
Range: $\{-1, 0, 4, 5\}$

Function? : Yes Each input has

Reason: exactly one output.



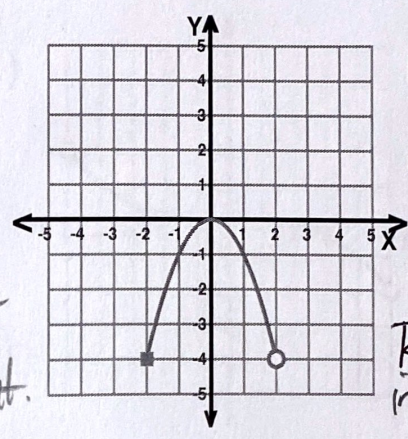
Domain and Range of Graphs



Domain: $-3 < x < 5$ 2)

Range: $-5 < y < 5$

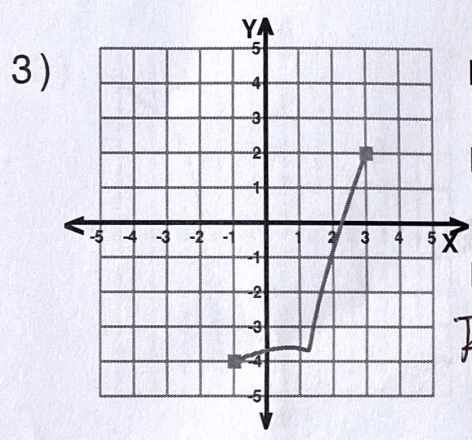
Function: Yes
Reason: Each input has exactly one output.



Domain: $-2 \leq x \leq 2$

Range: $-4 \leq y \leq 0$

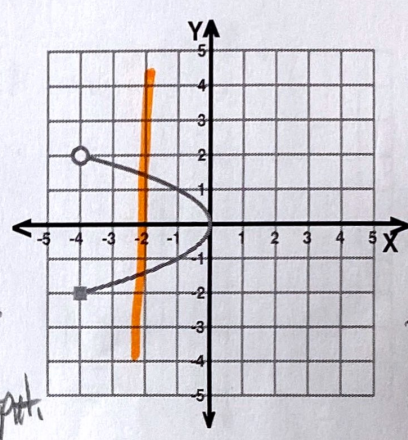
Function: Yes
Reason: Each input has exactly one output.



Domain: $-1 \leq x \leq 3$ 4)

Range: $-4 \leq y \leq 2$

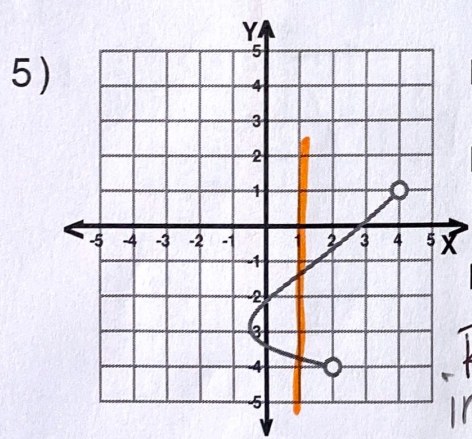
Function: Yes
Reason: Each input has exactly one output.



Domain: $-4 \leq x \leq 0$

Range: $-2 \leq y < 2$

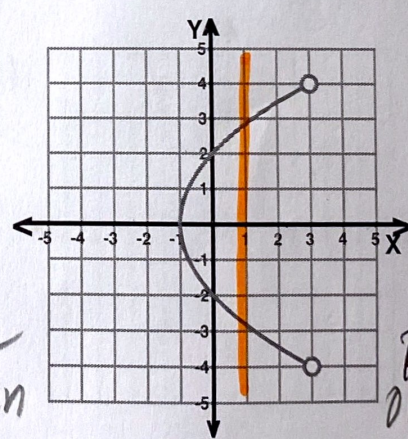
Function: No
Reason: At least one input has more than one output.



Domain: $-0.5 \leq x < 4$ 6)

Range: $-4 < y < 1$

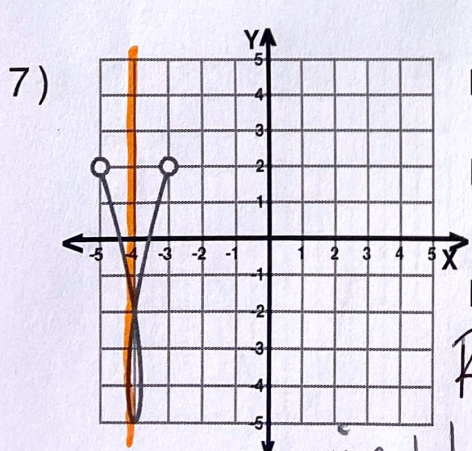
Function: No
Reason: At least one input has more than one output.



Domain: $-1 \leq x < 3$

Range: $-4 < y < 4$

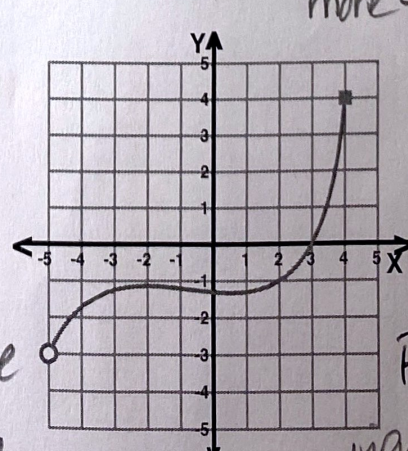
Function: No
Reason: At least one input has more than one output.



Domain: $-5 < x < -3$ 8)

Range: $-5 \leq y < 2$

Function: No
Reason: At least one input has more than one output.



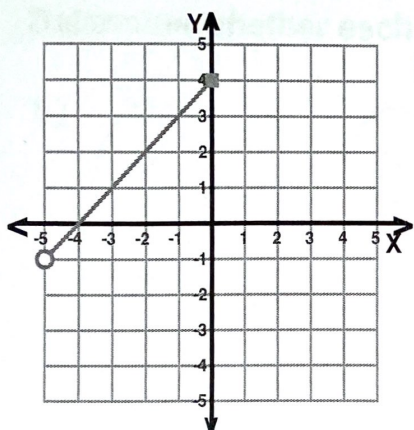
Domain: $-5 < x \leq 4$

Range: $-3 < y \leq 4$

Function: Yes
Reason: Each input has exactly one output.

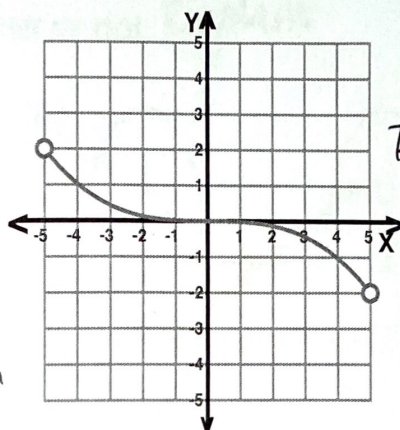
Identifying Functions From Graphs

1)



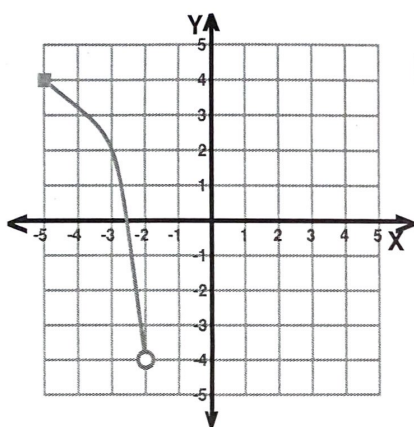
Function: Yes
 Reason:
 Each input (x)
 has exactly
 one output (y).

2)



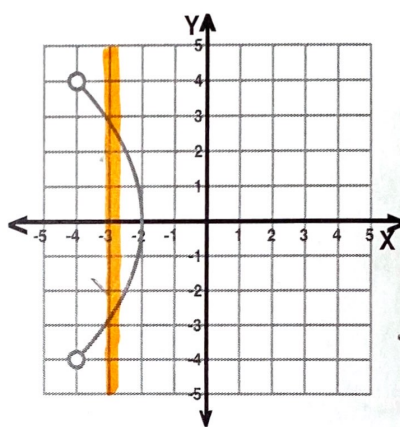
Function: Yes
 Reason:
 Each input
 has exactly
 one output.

3)



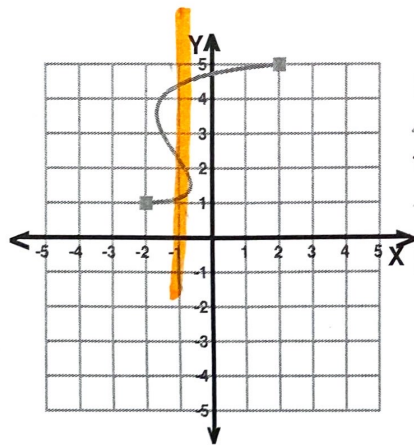
Function: Yes
 Reason:
 Each input has
 exactly one
 output.

4)



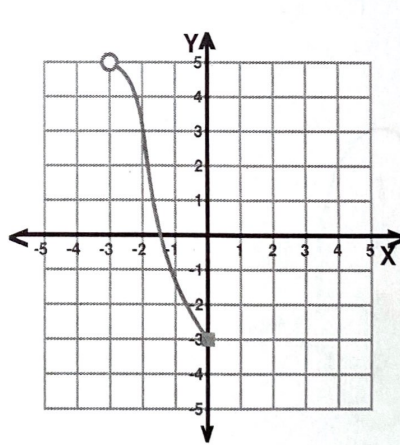
Function: No
 Reason:
 At least one input
 have more
 than one
 output.

5)



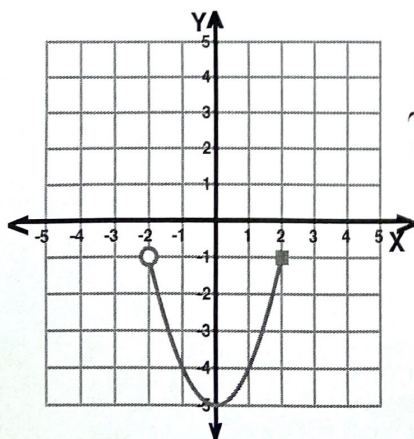
Function: No
 Reason:
 At least one input
 have more
 than one
 output.

6)



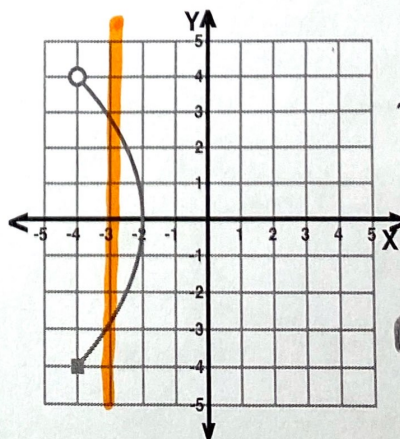
Function: Yes
 Reason:
 Each input
 has exactly
 one output.

7)



Function: Yes
 Reason:
 Each input
 has exactly
 one output.

8)



Function: No
 Reason:
 At least one
 input has
 more than
 one output.

