

A function

Example of a function: $(1, 2), (-2, 5), (3, 4), (0, 2)$

The domain

Non-example of a function: $(2, 6), (-1, 4), (2, 5), (0, 3)$

Functions

Give the domain and range of the relation.

x	y
5	11
10	21
0	0
-7	-13

- a. D: $\{-7, 0, 5, 10\}$; R: $\{-13, 0, 11, 21\}$
- b. D: $\{-7, 5, 10\}$; R: $\{-13, 11, 21\}$
- c. D: $\{-13, 0, 11, 21\}$; R: $\{-7, 0, 5, 10\}$
- d. D: $\{5, 10, -7, 11, 21, -13\}$; R: $\{0\}$

Give the domain and range of the relation.

x	y
1	3
6	13
0	0
-7	-13

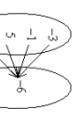
- a. D: $\{-13, 0, 3, 13\}$; R: $\{-7, 0, 1, 6\}$
 b. D: $\{-13, 3, 13\}$; R: $\{-7, 1, 6\}$
 c. D: $\{-7, 0, 1, 6\}$; R: $\{-13, 0, 3, 13\}$
 d. D: $\{0\}$; R: $\{1, 6, -7, 3, 13, -13\}$

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Identify the mapping diagram that represents the relation and determine whether the relation is a function.

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

a. 

c.

b. 

d. The relation is not a function.



The relation is a function.

The relation is not a function.

Give the domain and range of the relation. Tell whether the relation is a function.

x	y
0	-5
1	-2
2	1
3	4

- a. D: $\{-5, -2, 1, 4\}$; R: $\{0, 1, 2, 3\}$
 b. D: $\{-5, -2, 1, 4\}$; R: $\{0, 1, 2, 3\}$
 c. D: $\{0, 1, 2, 3\}$; R: $\{-5, -2, 1, 4\}$
 d. D: $\{0, 1, 2, 3\}$; R: $\{-5, -2, 1, 4\}$

The relation is not a function.

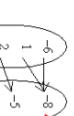
The relation is not a function.

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Identify the mapping diagram that represents the relation and determine whether the relation is a function.

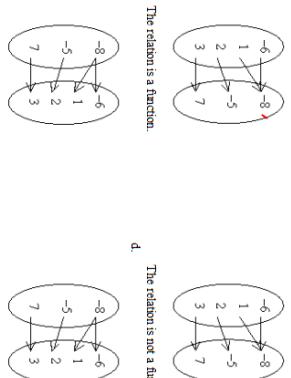
$$\{(-8, -6), (-5, 2), (-8, 1), (7, 3)\}$$

a. 

c.

b. The relation is a function.

d. The relation is not a function.



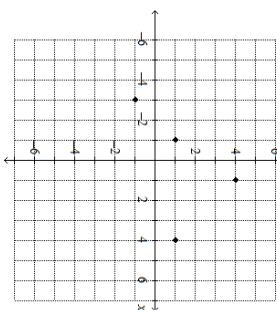
The relation is a function.

The relation is not a function.

Identify the domain and range of the relation.

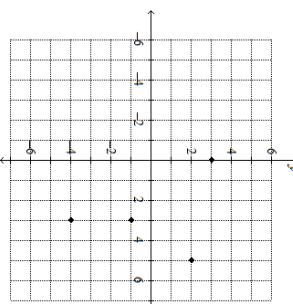
$$\{(-4, 2), (-7, -6), (-4, 10), (10, -8)\}$$

Use the vertical line test to determine whether the relation is a function.



Use the vertical line test to determine whether the relation is a function.

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



Use the vertical line test to determine whether the relation is a function.