

Discrete Relations

Date _____ Period _____

Each set of ordered pairs represents a relation. Represent the relation as a table.

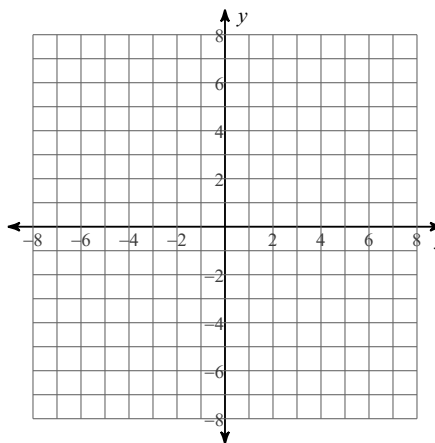
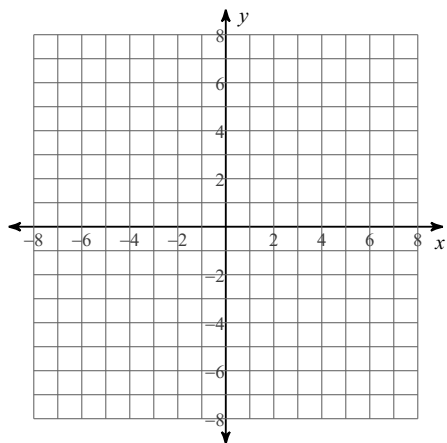
1) $\{(-7, 7), (-6, -5), (-1, 7), (1, -2), (6, -5)\}$

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

Each set of ordered pairs represents a relation. Represent the relation as a graph.

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

4) $\{(-1, -3), (0, 6), (4, -5), (5, 7), (6, -7)\}$

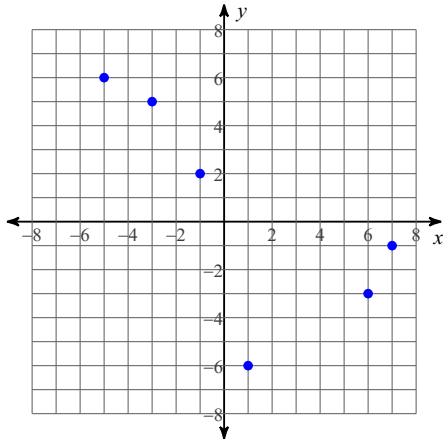
**Each set of ordered pairs represents a relation. Represent the relation as a mapping diagram.**

5) $\{(-5, -7), (-4, 0), (0, 7), (1, 2), (2, 1)\}$

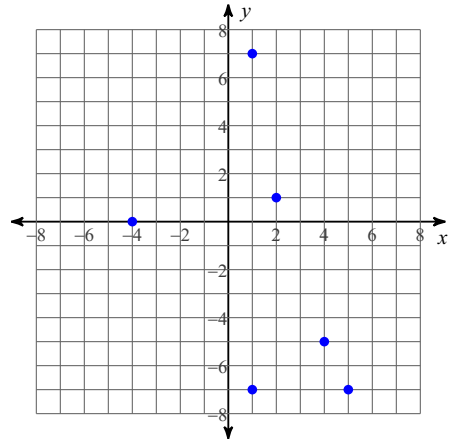
6) $\{(-4, 2), (-1, -4), (1, 1), (6, 6), (6, -3)\}$

Each graph represents a relation. Represent the relation as a table, a set of ordered pairs, and a mapping diagram. Then determine the domain/range and if the relation is a function.

7)



8)



Discrete Relations

Each set of ordered pairs represents a relation. Represent the relation as a table.

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

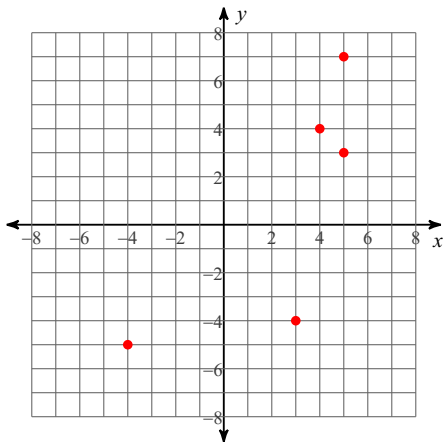
x	y
-7	7
-6	-5
-1	7
1	-2
6	-5

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

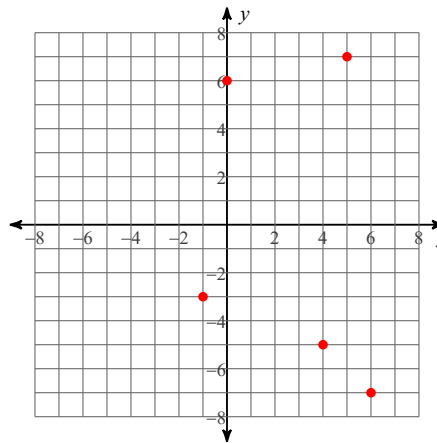
x	y
-7	6
-6	5
-6	0
-2	3
-1	1

Each set of ordered pairs represents a relation. Represent the relation as a graph.

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

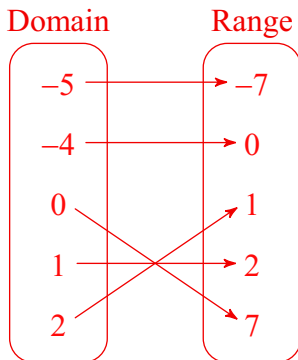


- 4) $\{(-1, -3), (0, 6), (4, -5), (5, 7), (6, -7)\}$

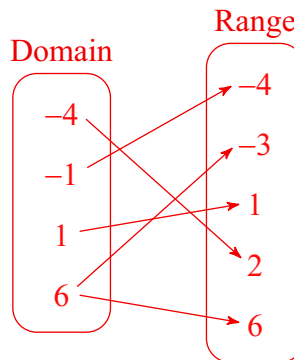


Each set of ordered pairs represents a relation. Represent the relation as a mapping diagram.

- 5) $\{(-5, -7), (-4, 0), (0, 7), (1, 2), (2, 1)\}$

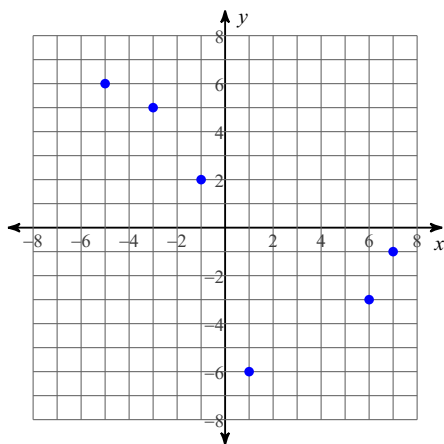


- 6) $\{(-4, 2), (-1, -4), (1, 1), (6, 6), (6, -3)\}$

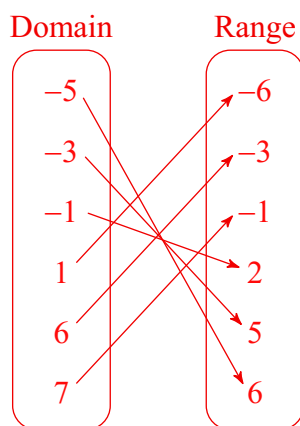


Each graph represents a relation. Represent the relation as a table, a set of ordered pairs, and a mapping diagram. Then determine the domain/range and if the relation is a function.

7)

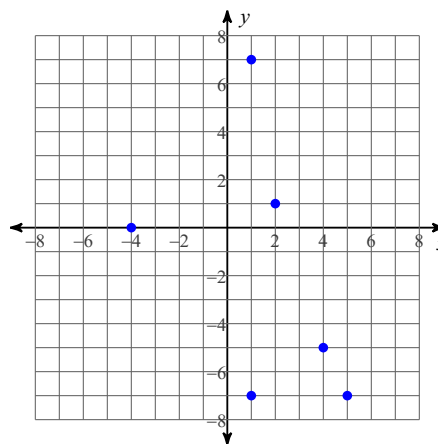


x	-5	-3	-1	1	6	7
y	6	5	2	-6	-3	-1

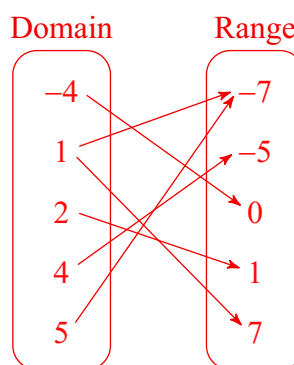


$\{(-5, 6), (-3, 5), (-1, 2), (1, -6), (6, -3), (7, -1)\}$
 Domain: $\{-5, -3, -1, 1, 6, 7\}$
 Range: $\{-6, -3, -1, 2, 5, 6\}$
 The relation is a function.

8)



x	-4	1	1	2	4	5
y	0	7	-7	1	-5	-7



$\{(-4, 0), (1, 7), (1, -7), (2, 1), (4, -5), (5, -7)\}$
 Domain: $\{-4, 1, 2, 4, 5\}$
 Range: $\{-7, -5, 0, 1, 7\}$
 The relation is not a function.