Notes: Function or Not a Function????

Determine which of the relations below are functions. Circle the correct answer.

Sets of Coordinates:

1) {(−2, 7), (−1, 5), (0, 3), (1, 1), (2, 1)} — Function or Not a Function

2) {(−7, 20), (3, 5), (0, 5), (−2, 0), (6, −4), (−6, −9), (4, 4)} — Function or Not a Function

3) {(4, 8), (−3, −2), (9, 6), (2, −1), (−4, −5), (2, 7), (−8, 0)} — Function or Not a Function

Tables of Values:

4)

x	y
0	−19
1	−12
2	−4
3	3
4	13
5	27

Function or Not a Function

5)

x	y
−5	8
−3	8
−1	−2
1	−2
3	11
5	23

Function or Not a Function

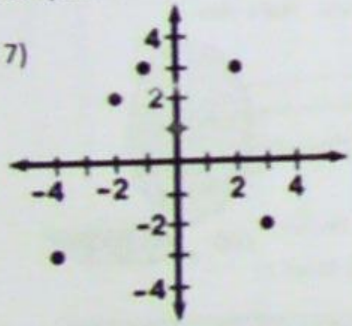
6)

x	y
−2	−7
−2	5
0	−16
2	0
2	6

Function or Not a Function

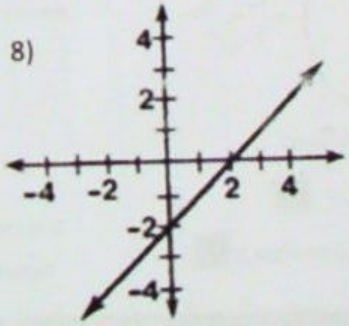
Graphs:

7)



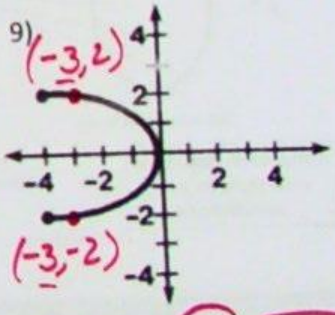
Function or Not a Function

8)



Function or Not a Function

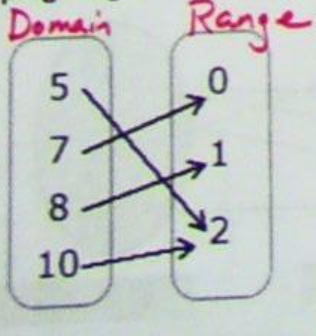
9)



Function or Not a Function

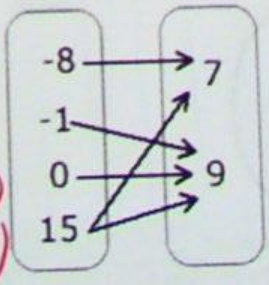
Mapping Diagrams:

10)



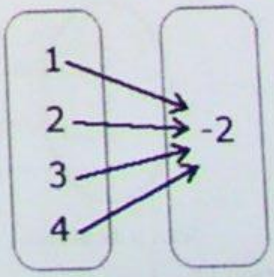
Function or Not a Function

11)



Function or Not a Function

12)



Function or Not a Function

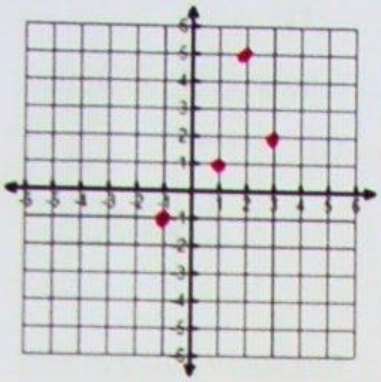
More Notes: Representing Relations

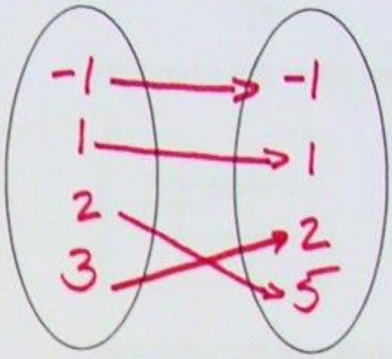
Express the relation as a table, a graph, and a mapping. Then determine the domain and range. Determine whether each relation is a function.

Least to Greatest

13) $\{(-1,-1),(1,1),(2,5),(3,2)\}$

x	y
-1	-1
1	1
2	5
3	2





Domain: $\{-1, 2, 3, 5\}$ (x's) Range: $\{-1, 1, 2, 5\}$ (y's) Function? Yes

Homework: Function or Not a Function???

Determine which of the relations below are functions. Circle the correct answer.

1) $\{(1, -2), (-2, 0), (-1, 2), (1, 3)\}$ Function or Not a Function

2) $\{(1, 1), (2, 2), (3, 5), (4, 10), (5, 15)\}$ Function or Not a Function

3) $\left\{\left(17, \frac{15}{4}\right), \left(\frac{15}{4}, 17\right), \left(15, \frac{17}{4}\right), \left(\frac{17}{4}, 15\right)\right\}$ Function or Not a Function

4)

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

Function or Not a Function

5)

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

Function or Not a Function

6)

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

Function or Not a Function

Homework is continued on the next page ⟹