Relations, Functions, and One-To-One Functions

Determine whether the following a functions, one to one functions, or not a function. 1. $\{(2,4),(1,2),(0,0),(-1,2),(-2,4)\}$ 2. $\{(2,2),(1,1),(0,0),(1,-1),(2,-2)\}$

Function, not 1-1

Not a function

3. {(1,2),(3,4),(4,3),(2,1)}

1-1 Function

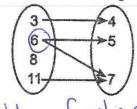
4. {(0,2), (3,4), (0,8), (5,6)} Not a function

5. {(3,-2), (-2,3), (4,-1), (-1,4)}

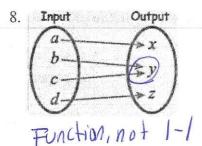
1-1 Function

6. $\{(1,0), (2,0), (3,0), (4,0)\}$ Function, not 1-1

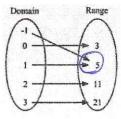
7. Domain Range



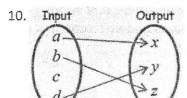
Not a function



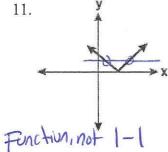
9.

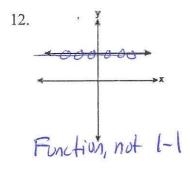


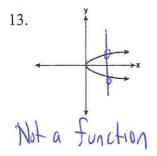
Function, not 1-1



1-1 Function







15. A mapping is shown in the diagram below.

This mapping is

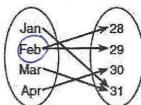
- 1) a function, because Feb has two outputs, 28 and 29
- 2) a function, because two inputs, Jan and 4) Mar, result in the output 31



14.

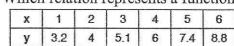
- not a function, because Feb has two outputs, 28 and 29
- not a function, because two inputs, Jan and Mar, result in the output 31

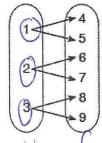
Function



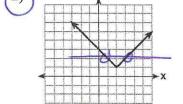
1-1

16. Which relation represents a function that is not one to one?





3) $y = 3\sqrt{x+1} - 2$



4)

