Lesson 1.6 Functions Notes

PART A: Definitions, Functions, and Mapping

Relation: _____.

Examples:

Domain:_____.

The x-values!!!!!!

Examples:

Range:_____. _.

The y-values!!!!!!

Examples:

Mapping the domain and range of a relation

1. Find the domain and range.
2. Put the domain in a column on the left and the range in a column on the right.
3. Use arrows to show what number or numbers the domain is paired with the range.

With the relation: {(,   ), (,   ), (,   )} the mapping is:

Domain   Range

Function:_____. _____

_____.

{(1, 5), (3, 4), (5, -2), (7, 0)} is a function.

Not a Function: One input gives more than one output.

Examples:

Vertical-Line Test: ___

_____

_____

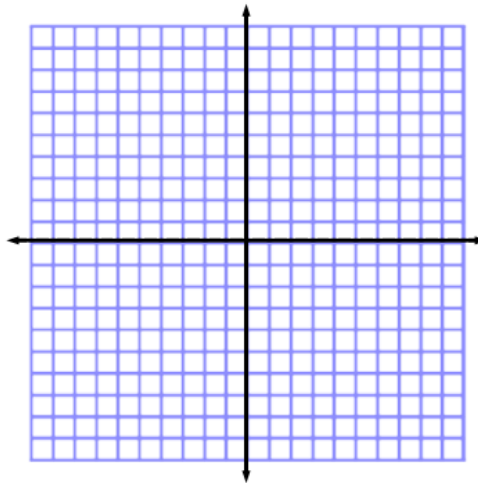Find the mapping of the domain and range of the relation, graph the relation, then determine if it is a function.
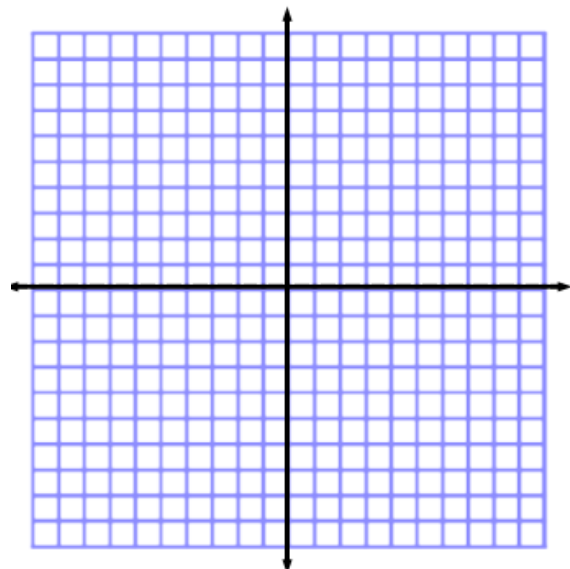
$\{(0, 1), (1, 3), (5, 0)\}$

Domain: Range:

Function?

Lesson 1.6 Functions Notes

PART B: Creating Graphs from Tables & Determining if it is a Function!

EX #1

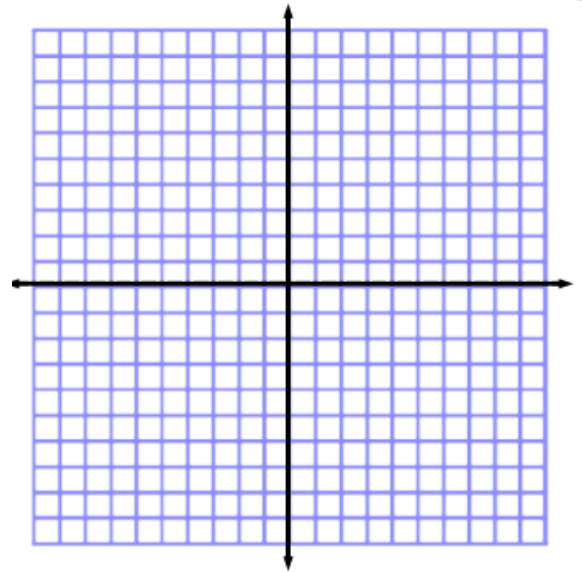**Determine if the relationship represents a function.**

$y = x - 1$

Lesson 1.6 Functions Notes Part B continued:

EX #2

Determine if the relationship represents a function.

$y = x^3$
Make an input-output table and use it to graph $y = x^3$.

EX #3

Determine if the relationship represents a function.

x	0	1	2	3
y	0	1	2	3

EX #4

Determine if the relationship represents a function.

x	2	3	3	2
y	3	4	5	6