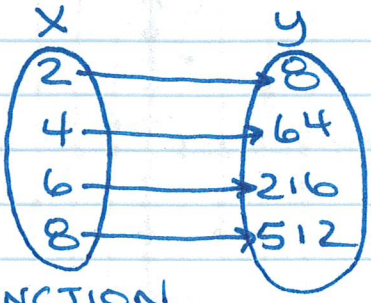
Flight Function Notes

Relation: A set of #s (inputs) being paired with a set of #s (outputs)

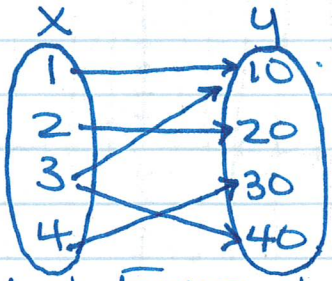
Function: A relation where each input has exactly one output.

Mapping Diagrams:



Function

Each input has exactly 1 output



Non-Function

The input value of 3 has 2 outputs

Tables:

x	y
3	-8
4	-20
6	-53
13	-70

Function

Each input has exactly 1 output

x	y
-2	13
-1	7
0	4
-1	12

Non-Function

The input value of -1 has 2 output values

Ordered Pairs:

(1,5), (2,-3), (3,8)

Function

Each input has exactly 1 output

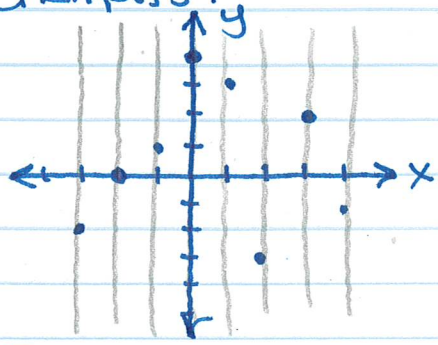
(0,4), (-2,-5), (0,-4)

Non-Function

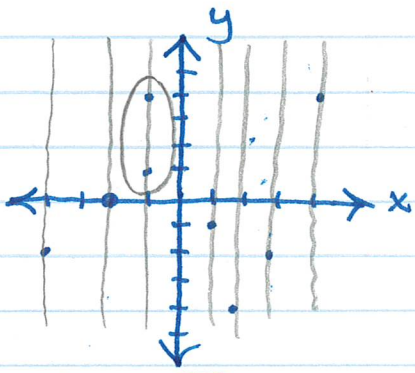
The input of 0 has 2 different outputs

THE VERTICAL LINE TEST (VLT): IF A VERTICAL LINE CAN BE DRAWN THROUGH A GRAPH & THE LINE TOUCHES THE GRAPH IN MORE THAN 1 PLACE, IT IS NOT A FUNCTION.

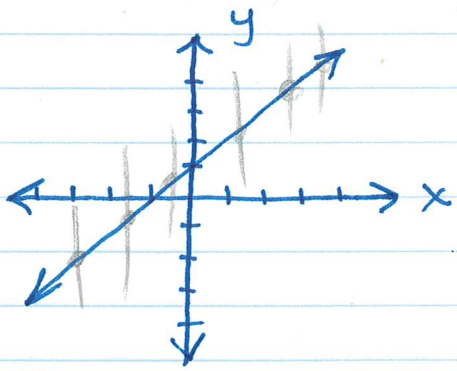
GRAPHS:



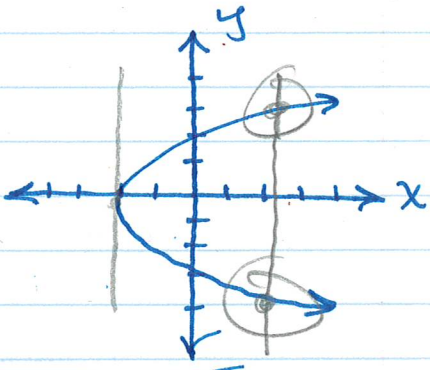
FUNCTION
THIS RELATION PASSES THE VLT.



NON-FUNCTION
THIS RELATION FAILS THE VLT.



FUNCTION
THIS RELATION PASSES THE VLT.



NON-FUNCTION
THIS RELATION FAILS THE VLT.