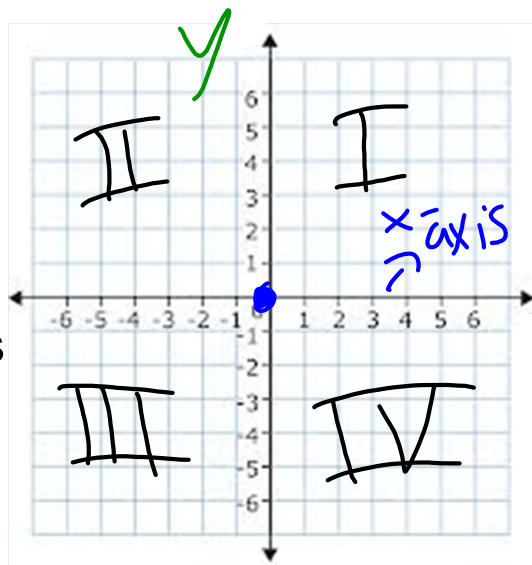


Do Now:**Draw and Identify:**

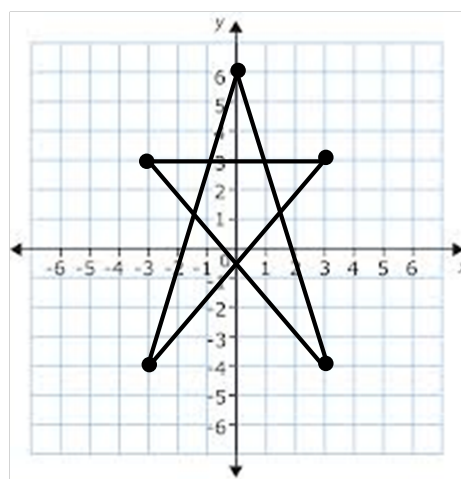
- 1) x-axis
- 2) y-axis
- 3) Origin (what are the coordinates?)
- 4) The Four Quadrants



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Homework Answers**Matching:**

- 1) y-axis
- 2) Origin
- 3) Quadrants
- 4) x-axis
- 5) Ordered Pair

**Graphing:**

- | | |
|-------|--------------|
| 1) IV | 4) III |
| 2) II | 5) On y-axis |
| 3) I | |

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Function Notation

Equations can be written in a form called function notation.
We use this as a quick way to evaluate functions for a given input.

example:

$$y = 2x - 8$$



$$f(x) = 2x - 8$$

This is read as f of $x = 2x - 8$

TEI Q2

Functions

 $y =$

x	0	1	2	3	4
f(x)	-2	0	2	4	6

Domain: set of all the first elements of the ordered pairs (x), the "input"

$$\text{Domain} = \{0, 1, 2, 3, 4\}$$



Range: set of all the second elements of the ordered pairs (f(x)), the "output"

$$\text{Range} = \{-2, 0, 2, 4, 6\}$$

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Relation: a set of ordered pairs (x, y)

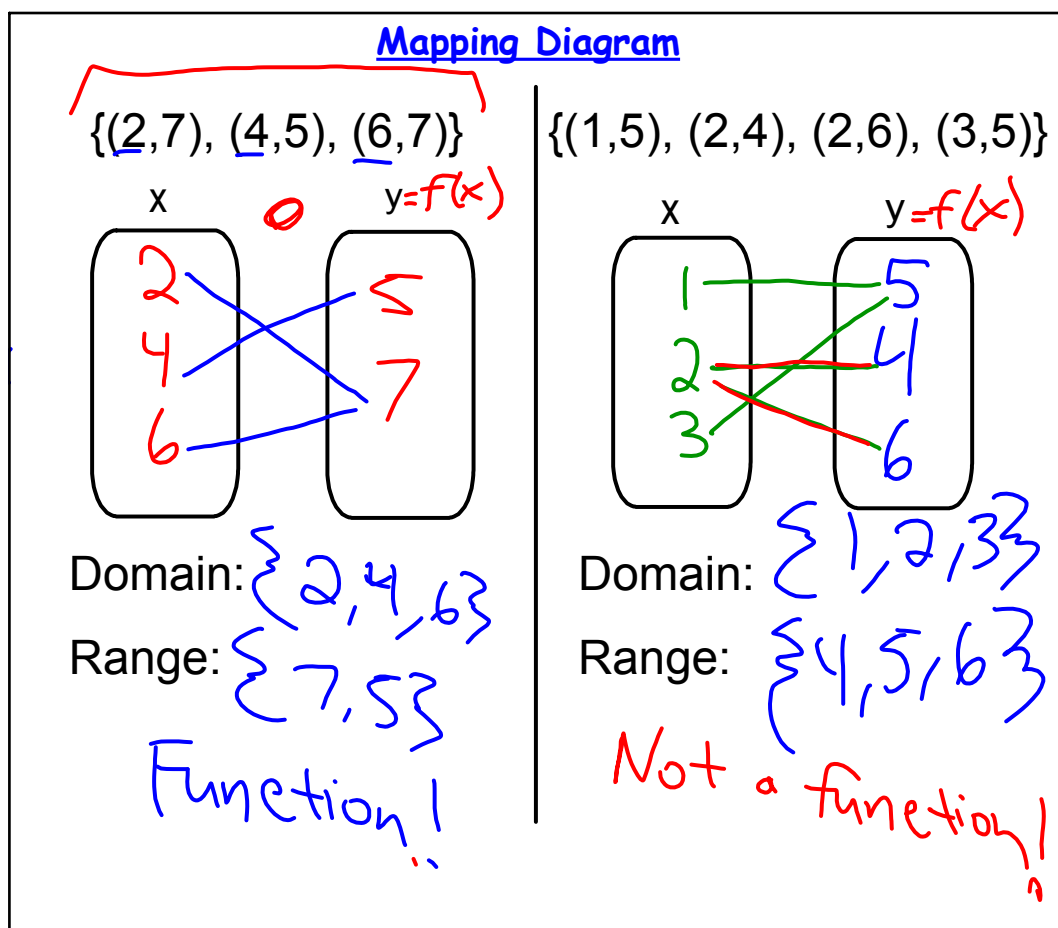
EX: $\{(1,2), (2,3), (3,4), (4,5)\}$

Function: a relation where every element of the domain is paired with one and only one element of the range

Each *input* has EXACTLY one *output*

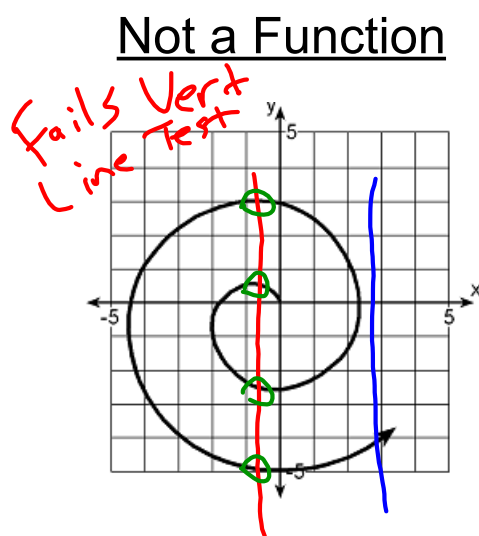
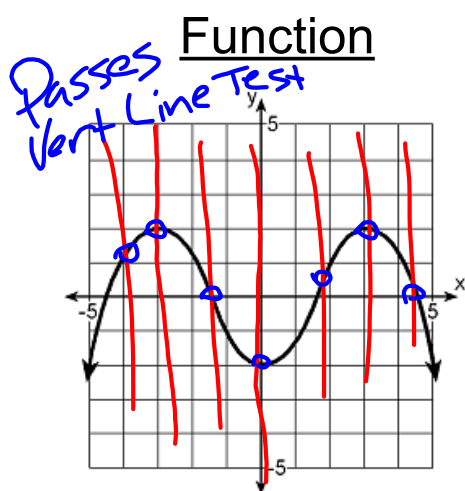
If the elements of the relation have repeated "x" values, it is NOT a function

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Vertical Line Test: If a vertical line passes through the graph MORE THAN ONCE, then the relation is NOT a function.



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To Recap:

What is the Domain?

Set of all the x-values in the ordered pair *or in Relation*

What is the Range?

Set of all the y-values in the ordered pair *or in Relation*

What are the 2 methods we learned to identify a function?

Mapping Diagram and Vertical Line Test

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