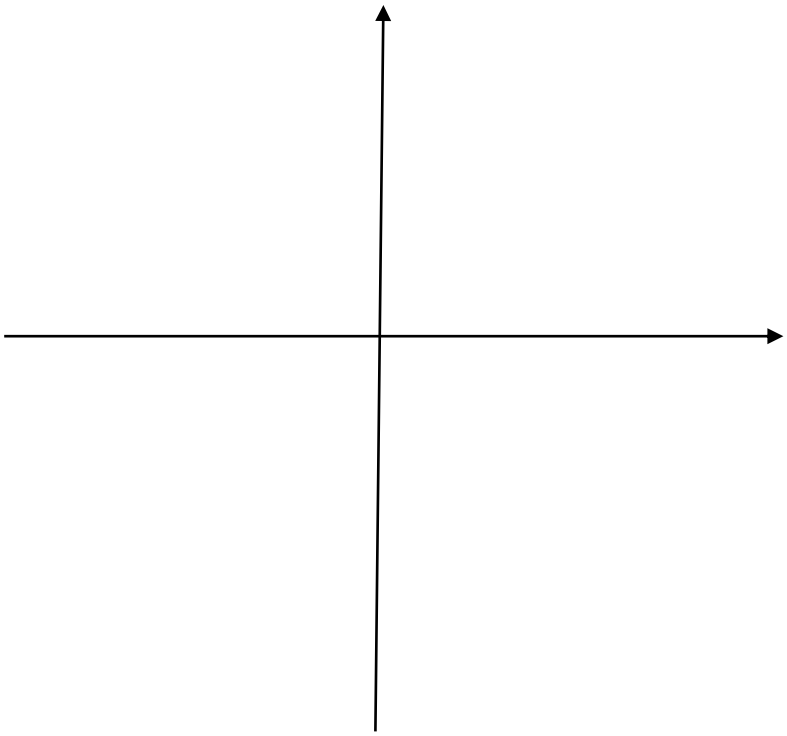
Intro to Functions, Domain, and Range

***xy*-plane**

The _____ shows sets containing _____ two variables _____.

The plotted _____ on the plane are called _____.

Ordered pair format: _____



domain : =

range : =

Start with a _____ of _____:

relation:

domain:

range:

relation:

domain:

range:

Relations → Functions

function : = a _____ such that every _____ in its _____

has _____

recall relations from above…

Do: determine whether or not each of the following relations are functions

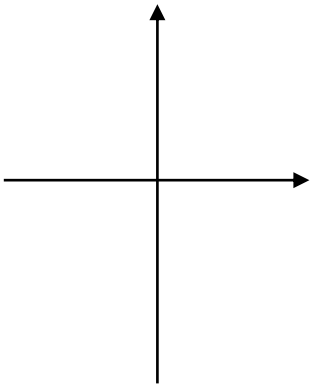
is is not a function:

is is not a function:

Function Notation

once a _____ is determined to be a _____, use the following notation:

example:



input the _____ into the _____ to determine the _____ of _____

above process is called _____ the function

Evaluating a Function

given:

determine

determine

plugging in a _____ variable:

negation:

inputting a binomial:

Do: given , evaluate the following:

$f(-5) =$

$f(-x) =$

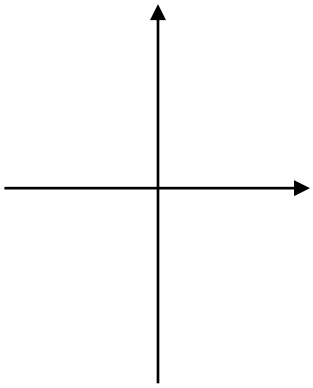
$f(x-4) =$

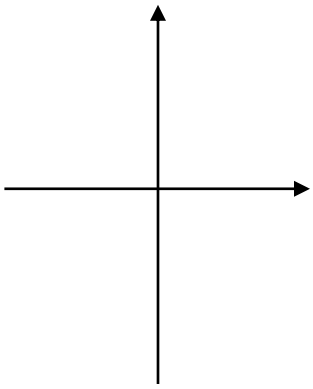
Vertical Line Test

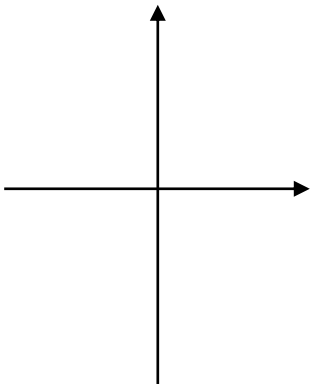
use to determine if a _____ represents a _____

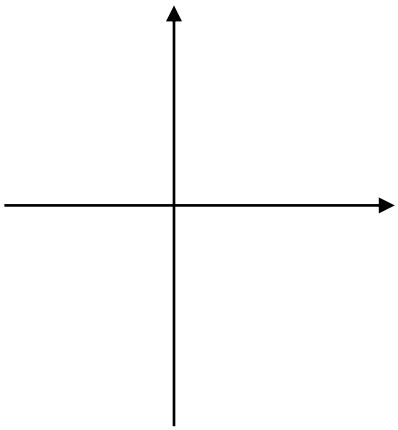
a graph is a _____ when _____ maps to _____

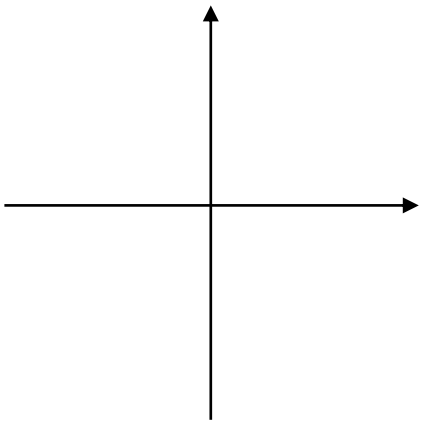
examples:



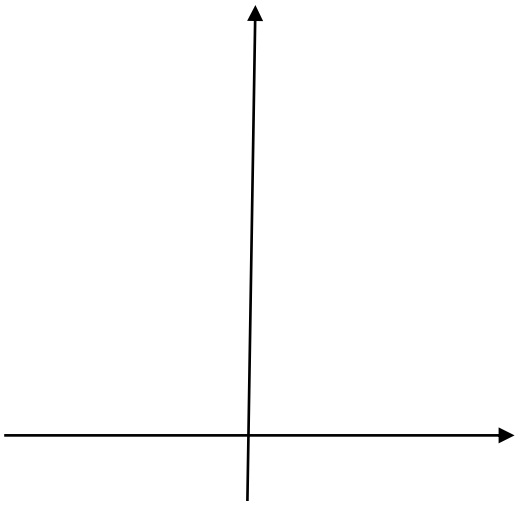








Identifying Domain and Range from a Graph



Compound Inequality Notation:

Interval Notation: