What is the value of the expression when x = 4 and y = -2?

$$\frac{x^2}{2} + xy^3$$

$$\frac{4^{2}}{2} + (4)(-2)^{3}$$

 $8 + (4)(-2)^{3}$
 $8 + (-8)$
 $8 + -32$
 -24

Warm-up
Warm-up
Warm-up
Warm-up
Warm-up
Warm-up

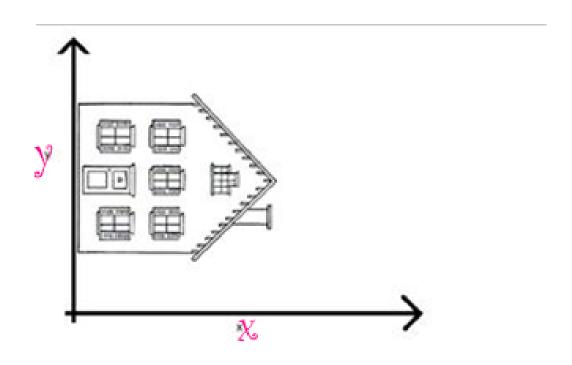
Equations and their Graphs Getting more in depth about lines.

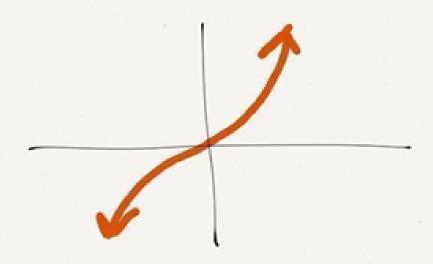
Domain and Range

Dominio y Rango

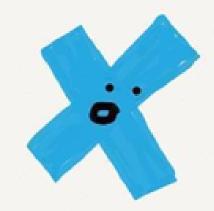
Domain (Dominio): the x-values

Range (Rango): the y-values





and in that moment, I swear we were infinite



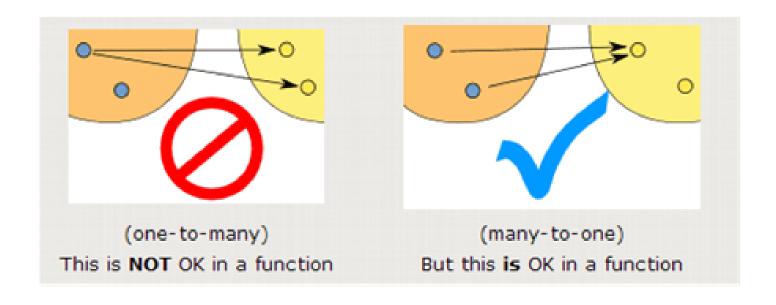


Function Notation - notación de función

For an equation in x and y, f(x) replaces y and is read "f of x."

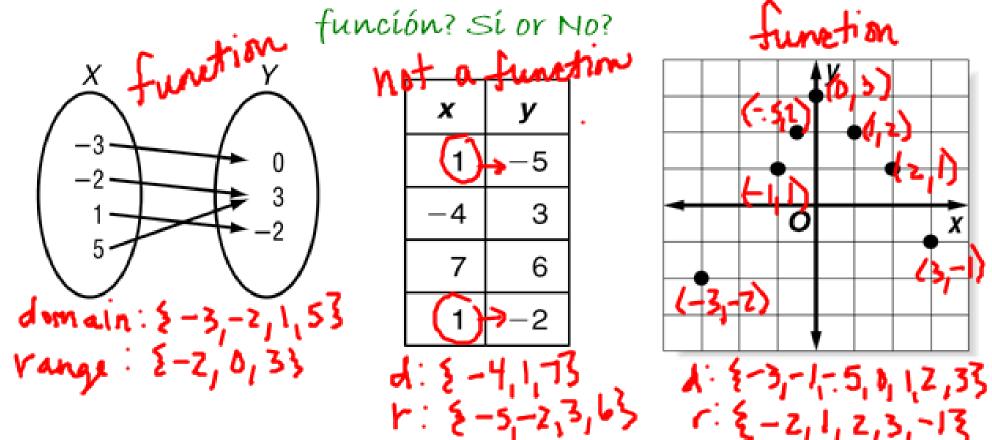
Function - función

A relationship between the input and the output such that for each input there is one and only one output.



To determine if a relation is a function, each input (x) can have exactly one output (y).

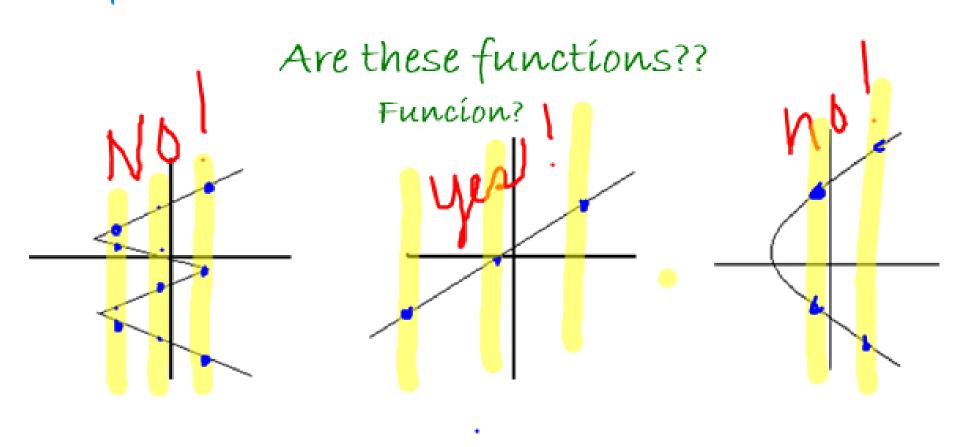
Are these functions??



What is the domain?

Range?

To determine if a graph is a function, draw a vertical line. If your line will always touch exactly one point on the graph, then it is a function.



Are these functions???

