

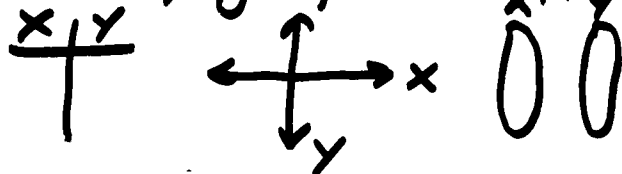
1.
BE-1A Monday 1-14-08 Copy for notes:

INTRO. TO CH 4-4 "EQUATIONS AS RELATIONS"

RECALL, A RELATION IS A SET OF ORDERED PAIRS. THE FIRST VALUE IN AN ORDERED PAIR IS THE X or domain.

THE SECOND VALUE IS THE Y or range.

THE 2 VARIABLES, X AND Y, IN A RELATION CAN BE SHOWN IN A TABLE, GRAPH, OR MAPPING.



* AN EQUATION WITH 2 VARIABLES IS ANOTHER WAY TO EXPRESS A RELATION

(EX) $y = 2x$

HOW DO YOU GET A RELATION?

PICK A DOMAIN, FIND ITS Y

Ex) Here is a relation $y = 2x$

2.
2a

Suppose I pick the following domain (the x values), $x = \{1, 2, 3\}$

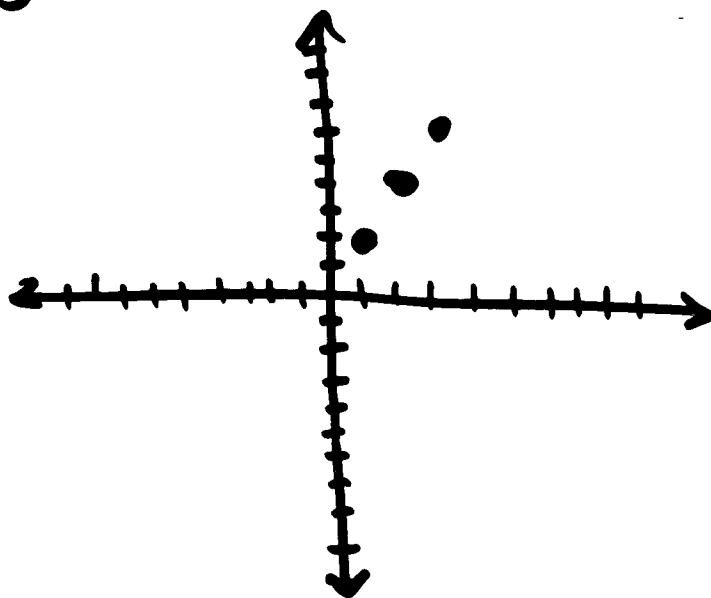
Show the relation in a table.

x	y $2x$
1	$2(1) = 2$
2	$2(2) = 4$
3	$2(3) = 6$

or

x	y
1	2
2	4
3	6

A graph?



Summary

An Equation, if it has 2 variables,
is another way to express a
relation.

(set of ordered pairs)

You can get the ordered pairs
if you know the x values (domain),
put the x into the equation
(substitute)
to find the y it goes with.

Pick an X , find the Y

$\uparrow$ $\uparrow$

independent dependent
variable variable.