

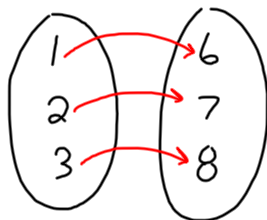
FUNCTIONS AND RELATIONS

JUNE 6/08

A RELATION IS ANY SET OF ORDERED PAIRS OF NUMBERS

$$(x, y)$$

MAPPING DIAGRAM



THE PAIRS

$$(1, 6)$$

$$(2, 7)$$

$$(3, 8)$$

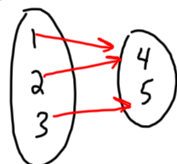
$$\{(1, 6), (2, 7), (3, 8)\}$$

ROSTER NOTATION

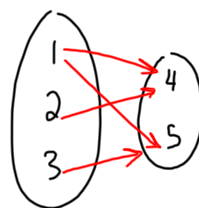
Jun 6-9:01 AM

A FUNCTION IS A TYPE OF RELATION IN WHICH ANY MEMBER OF THE DOMAIN (x) IS ASSIGNED EXACTLY ONE MEMBER OF THE RANGE (y)

Ex



FUNCTION



NOT A FUNCTION

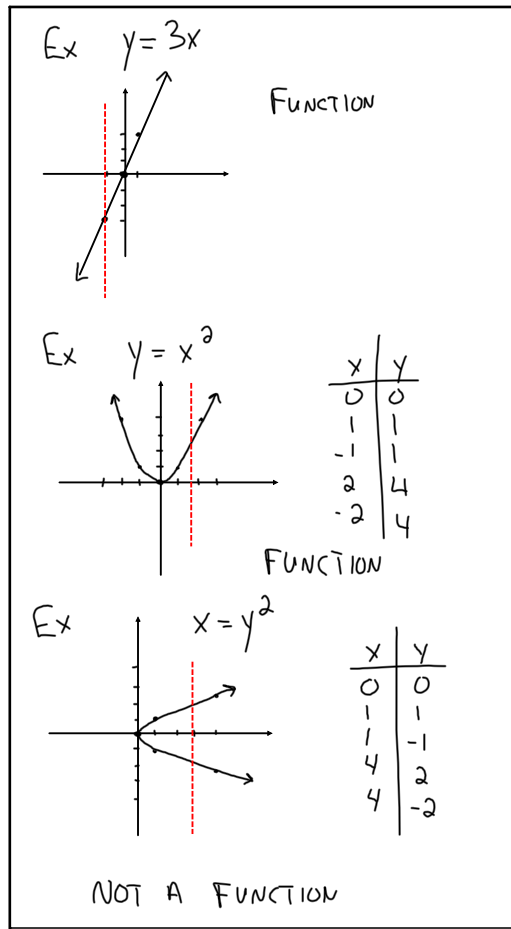
Ex. $\{(1, 2), (3, 4), (4, 4)\}$

FUNCTION

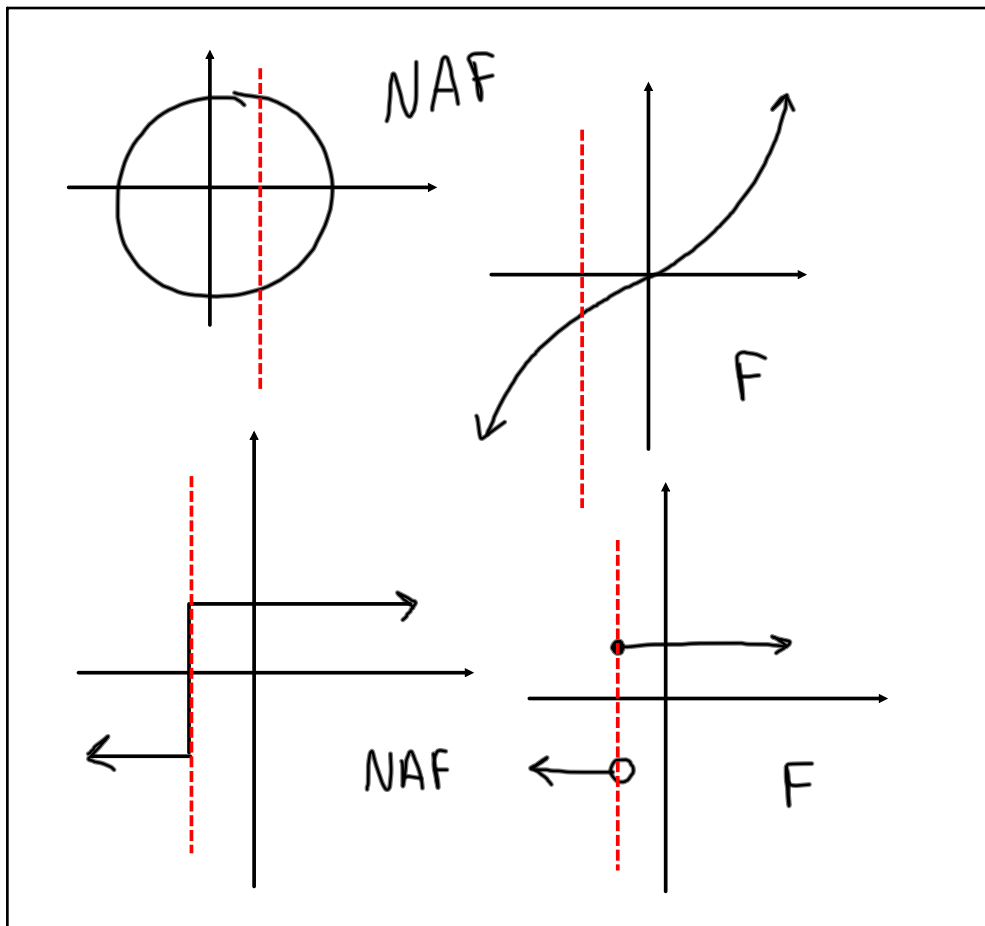
$$\{(1, 2), (1, 3), (2, 3)\}$$

NOT A FUNCTION

Jun 6-9:09 AM



Jun 6-9:16 AM



Jun 6-9:23 AM