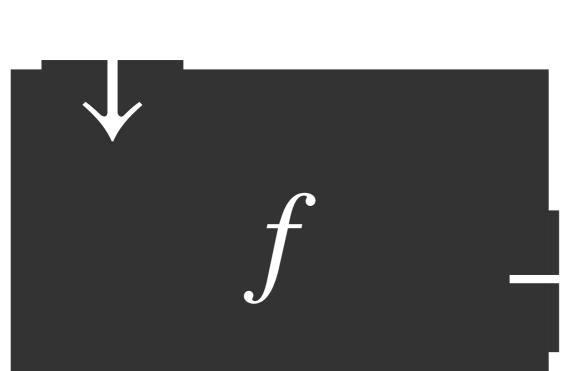


### functions



## functions

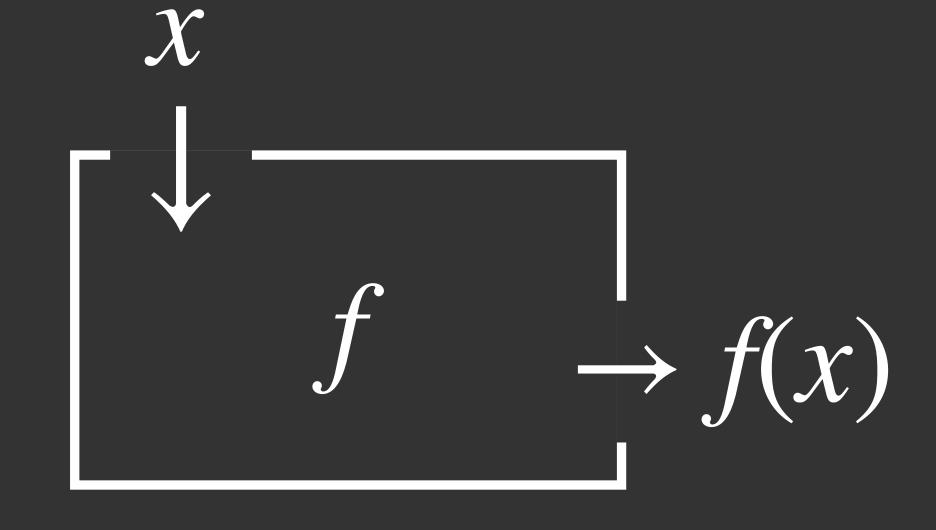
#### input-output

we define the function f as  $f(x):A\to B$  which often is read as as "f maps A into B" which often is y=f(x) we assign this value to a variable y as in y=f(x)

what is the rule we follow to obtain f(x)?

- computational
- table
- algorithm
- verbal or text





Note: a function must be single valued and can't give back 2 or more results for the same input So ''f(16) = 4 or -4'' is not right!

# domain, range and codomain