#1

domain: all different first-position values

{ a, b, c, d, f, g }

- no repeatitions
- preferably ordered

range: all different / distinct second-position values

{ 0, 5, 7, 8, 12 }

- no repeatitions
- preferably ordered

#2 yes

recal the definition of function as a relation:

a relation in which each member of the domain corresponds to exactly one member of the range is called a function.

#3 yes, it is a function

because for every value of x from the domain there is only one value for y.

#4 no, it is not.

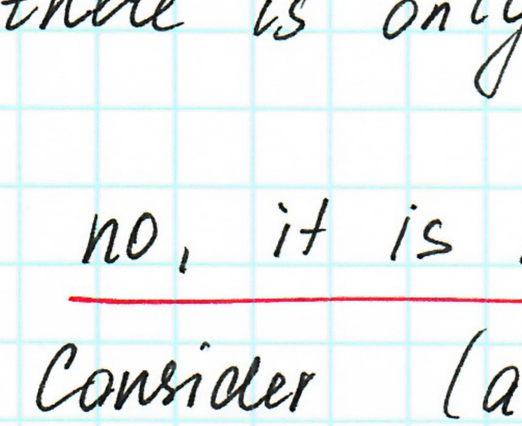
Consider (a, 3) and (a, 7) - two pairs from the relation

one value from the domain

two different values from the range

- the definition given in #2 is violated

#5



yes, it does, because

every vertical line intersects the graph in at most one point.