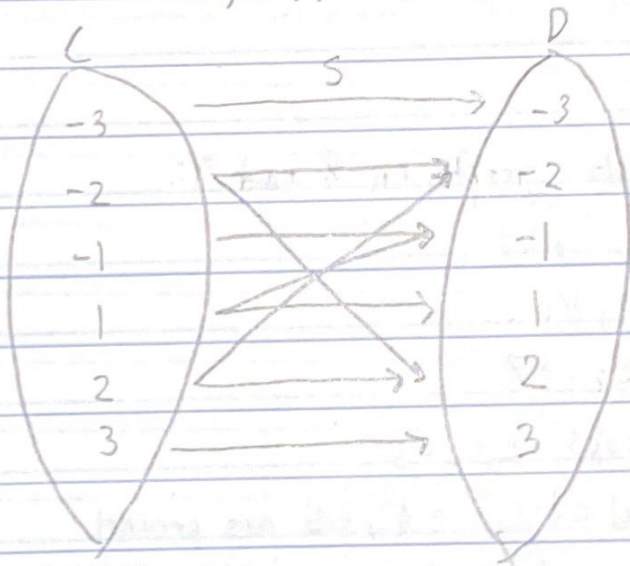


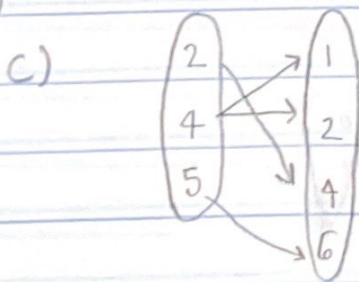
c)  $C = D = \{-3, -2, -1, 1, 2, 3\}$

Co-domain of  $S$  is  $D = \{-3, -2, -1, 1, 2, 3\}$

d)  $S = \{(1,1), (1,-1), (2,2), (3,3), (-1,-1), (-1,-1), (2,-2), (-2,2), (-2,-2), (-3,-3)\}$

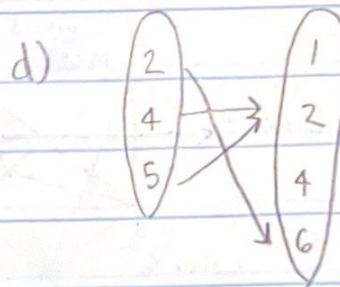


15)

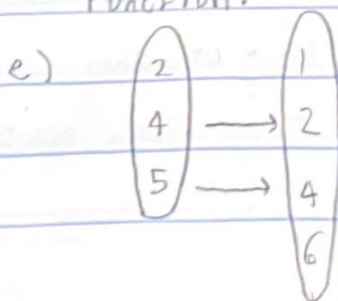


\* the 4 goes to 1 & 2

So (c) is not a function.



\* it is a function with a many to one so it is a function.



\* for the value of 2 in

the domain there is no value

in the range. So (e) is not a function.