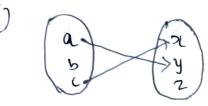
Tutorial - 2

and state whether or not each of the following diagrams defines a function from A = &a,b,c}

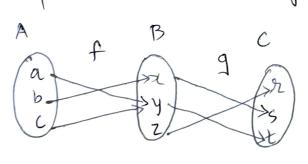




2 Ans: 10 No 3 No 3 Yes. }

Q.2 Slaetch the grouph of @ fine = x2+x-6 (b) g(n) = x3 - 32 - 21+3

Q.3 Let, the functions $f: A \rightarrow B$ and $g: B \rightarrow c$ be defined by the following figure. Find the composition function got: $A \rightarrow C$.



 $\begin{cases} Avs! & got(a) = t \\ gof(b) = s \\ gof(c) = t \end{cases}$

Q.4 Determine if each function is one-to-one:

@ To each person on the earth assign the number which corresponds to his age.

(3) To each country in the world assign the latitude and longitude of its capital.

1 To each book written by only one authors.

Drovench wouldry in the world which was a prome minister assign its prome minister 2 pms & riv & yes O NO Q Yes 3

following functions are one Q.5 Cheek whether the to one or onto. A = Sa, b, c, dy, B = Ss, t, uy, c = S1, 23. Let, f: A > B, g: B>c, h: c→A, f= &(a,s), (b, u), (c,t), (d,u), 9= {(S,17, (t,17, (4,27), h= {(1,6), (2,0)}. «Spus: f-outo, g-outo, h-one to onez. Q-6 Define the following terrors: a) Injective b) surjective c) Bycefive.

Q.7 Fund@L7.5], L-7.5], L-18]

B[7.5], [-7.5], [-18]