Name: Ananya Prasad reg No: 20BCE10093

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[(+187, (d, 8) (n) P)

1 (witheck reflexive:

(x,x) fr and Ris reflexive

in theck anti-symmetric:

if (8,x) & R, -then,

taking inverse, t f(x) = f + (y)

· · · (4,2) = + 4 4 = 2

Hence, it is anti-symmetric

(iii) creax for transitive:

her (7,4) & R or K1 be a natural humber.

he (y, z) ER and k2 EN

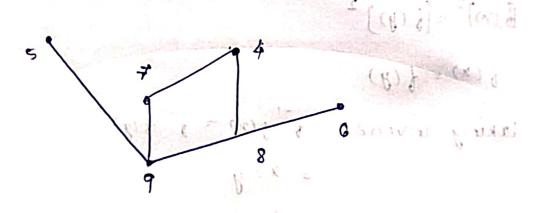
and kiki=k ... keN.

Hence the relation is transduce.

hom i, ii & ii ; it is a partial order relation.

2)
$$A = \{ (x,y) : +(y) = k+(y), k \in N \}$$
 $P = \{ (x,y) : +(y) = k+(y), k \in N \}$
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(B) \$ 1 : (A) B : L = { (4,4), (5,5), (6,6), (7,4), (7,4), (8;4), (8,6), (8,8), (9,9), (9,8) (9,7) (9,6), (9,5) }



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x 8 991 + xxx4).

(x) (A - (x)) = A) (c

and , a 3 (x 18) \$

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