April 9th

DAMI) for subnel 1

and (2) > = 60 so the prefix for subnet is 32-6-26 for subnet 1 = 223. 1.170126 It has add different values from 0-63

for subnet 2

we need to have support of at least 12 interface and (24 > 12 so prefix for subnet 3 is 32-4=8, Aso subnet 3 = 223.1.17.191.128

Ans

subnet A - 214.97.255/24 (256 address)

a.) subnet B - 214.97.255 0/25 -214.97 35.0/21

Subnet 6 - 214.97.254.128 (24 (128 address)

subnet D - 214.97.254. DI31 (2 address)

subnot = - 214.99.254.2131 (2 address)

subnet F - 214 97.234.430 (4 oddress)

2

## Poute 1

longest prefix match	owlgoing Interface
00001110 01100001 111111	subnet A
00001110 0110000, 11111100	subnet D
1011111 10000110 011100001	subnet F

## Route 2

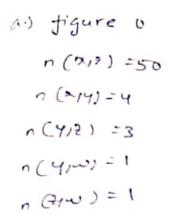
longes + pr	edix Match		outgoint Interface
00001110	01100001	110 011	subnet D
0 000 1110	0110 0001	LIIIIIII	subnet B
0001110	01100001	111111101	subnet E

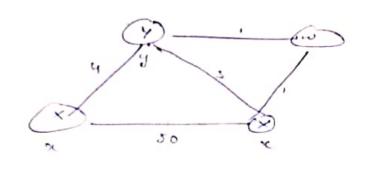
## Rocate 3

lorgest	prefix Match	outgoint Interjace
00001110	01100001 1111111	subnel F
0 0001110	0110001	subnet F
00011110	0110000   11111100	sub net c

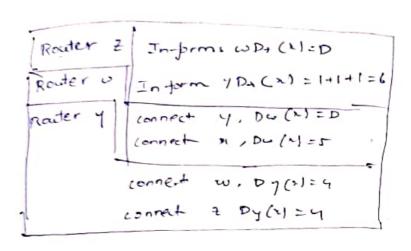
as unlimate destination and also labeling D.E.F for the upper right, bottom and upper left interior subnet respectively

ins Cost of the network links from given

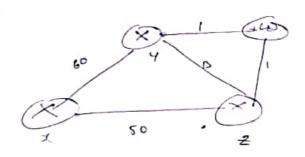




the distance value (0) to they tell each other as



p. )



considering that links blu is and y increased to 60.

Then there be a count-to-infinity problem even if poisoned reverse is used is used as routing averying process.

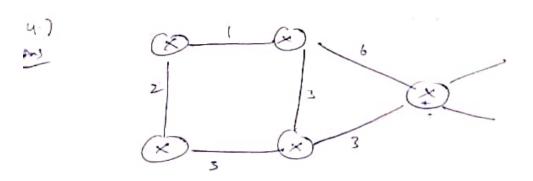
And the core of the count to-infinity problem is that if A tells B that it has a poth some where there is no way for B to know if the posts has B as a path of it

## Scanned with CamScann

Rating converging process Table follow link change occurs b/w to and ti

17359

loops continue, message exchange blu wy. t



slep	0-1	Darpal	P(4) P(4)	D(v)	P(v)	Pylecti	J. (1)
O	X	~	20	3/2	6,2	6,7	3,2
1	24	214	6 <b>,y</b>	3,2	6,2	·6, x	3,2
2	2 74	7,14	6.4	3,2	6, X	6,7	3,2
3	711110	211	6,7	3,1	6, X	6,2	3,2
4	740104	<del>?</del> ,∨	6,4	3,2	6, 2	6,2	3,2
5	2 1/10	7.1	6,4	3,2	6,2	6,1	3,2
	コンルルリ	3./	6,7	3,2	6/2	6, ×	3,2
6	- 00						