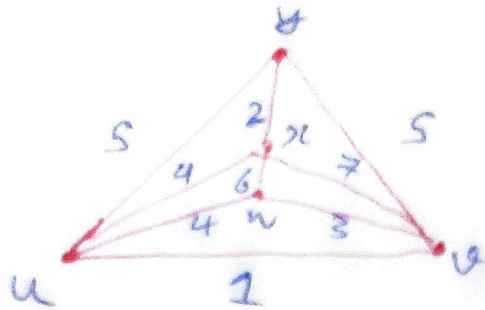


Q)



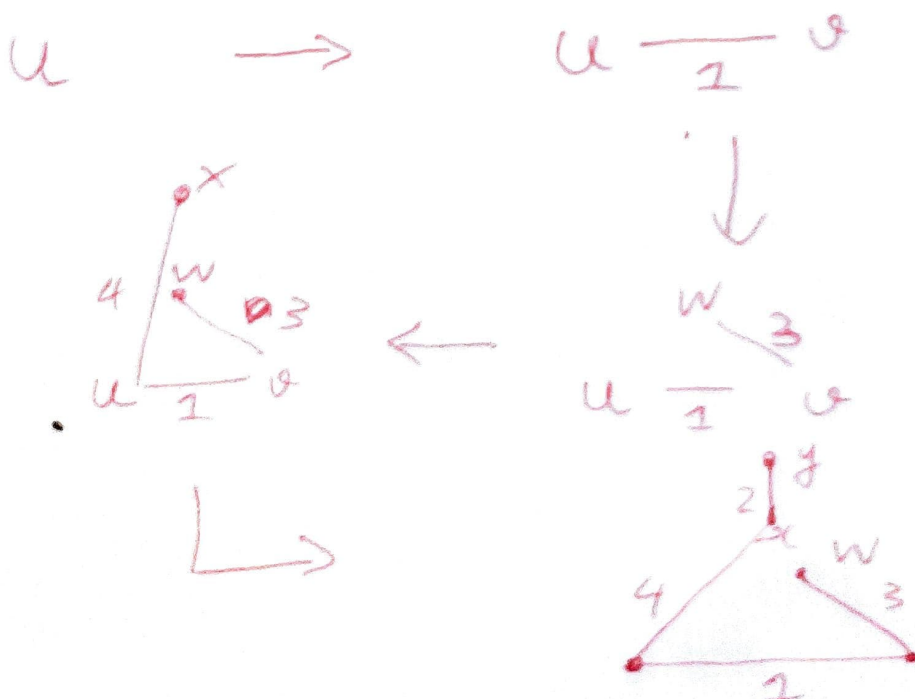
Ayan Malhotra
26/7/MC/030

→ To apply Prim's algo to find Min. spanning tree

	u	v	w	x	y
u	—	1	4	4	5
v	1	—	3	7	5
w	4	3	—	6	∞
x	4	7	6	—	2
y	5	5	∞	2	—

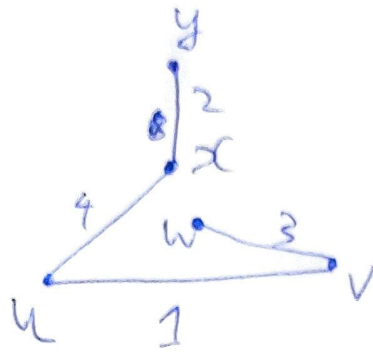
→ We start with vertex u

⇒ select closest neighbour : v



•) So minimum spanning tree is

:



$$\text{Total distance} = 1 + 2 + 3 + 4 = \underline{10}$$