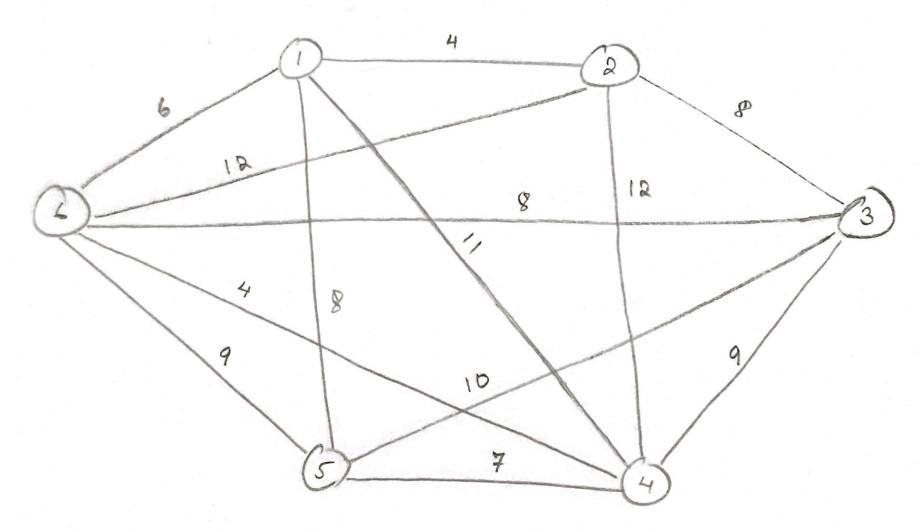
Bustoling a graph normal provided adjency



Moro by definetion we know measurem spenning tree:

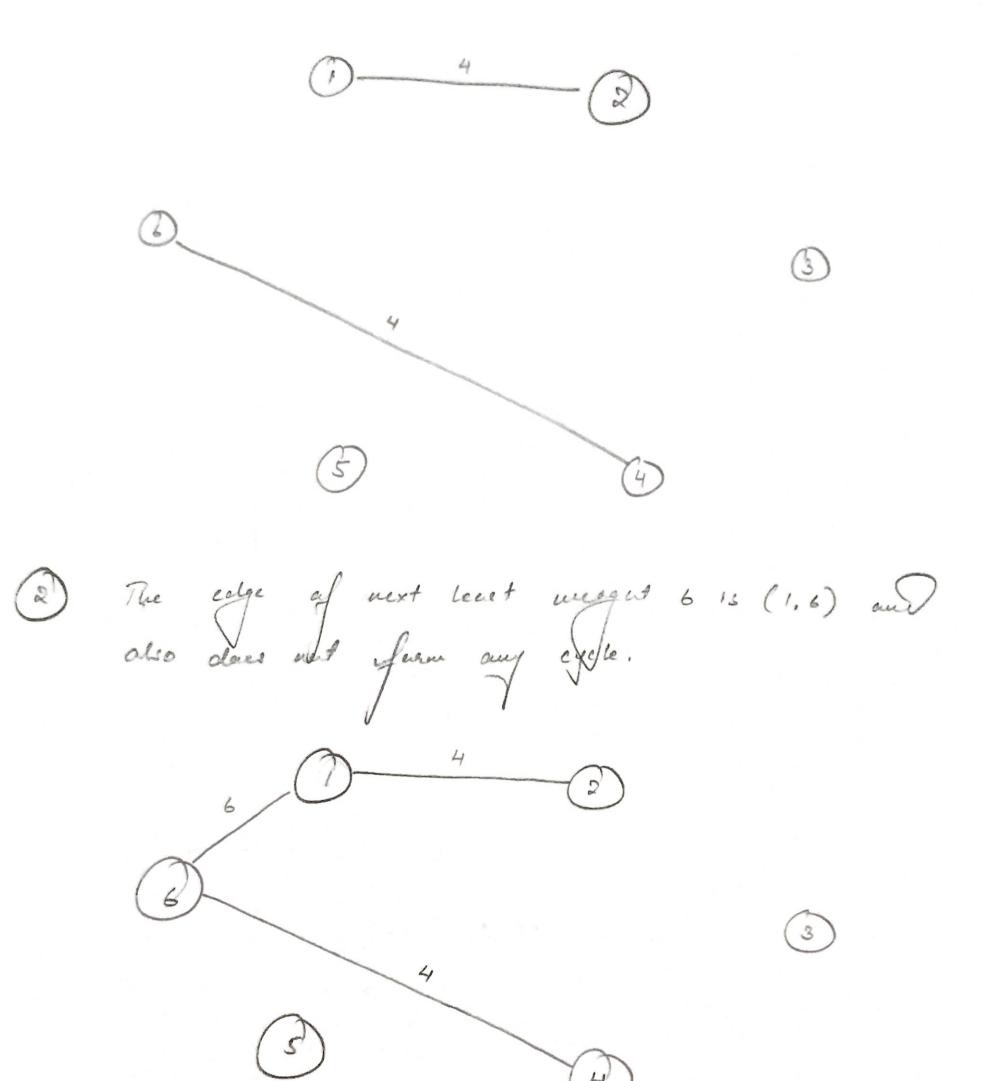
A tree with a needstand quagh is a sub-graph of

graph that is connected and has no excle and has

the last presible annound of edges.

Next page

Daw, lesing Knus kalis afgerthm: 1 Then we take the next edge of least weight. If the edge forms a cycle them we obsugged that edge and than take the next level weight The proves well run and finelly step of ealges taken are increlent on every wester of the graph. Now steps to building minimum spanning hes been shown below; We take the edge neith least needy lit which are between the puirs: (1,2), (4,6). We consider these because they do not your any cycle and requesend the level



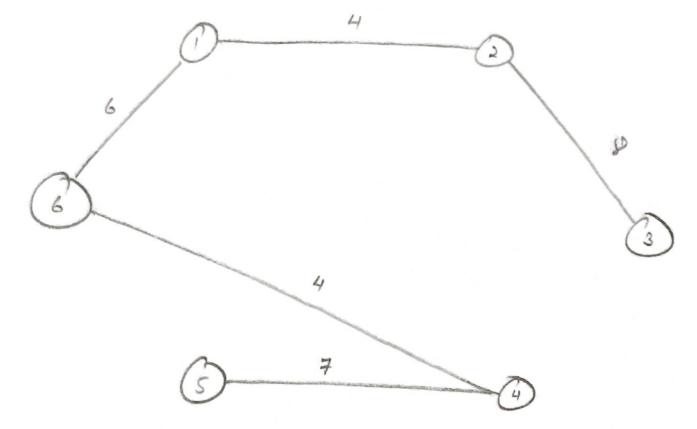
The edge of the next least wedged 7 10 (4,5) Now the edges of the next least weight 8 are

(1.5), (2.8) and (3.6) of which (1.5) will form

a cycle (1-5-4-6-1) and adding both (2.3) and (3.6) together well also gives us a eyele.

if here add any one of them at (2,3)

them no eyele is farmed.



Conclusion:

involent an all vertices of the quaph.

So, the network cannerty del the Jurilages together can be made by constructing noads between uslages: (3,2), (2,1), (1,6), (6,4), (4,5)

Also tatel minimum cost for cannerting the buildings: 8+4+6+4+7: 129