

Minimum Key ar j is t. So, S= {x, v, u, t} $A = \{xv, vu, tu\}$ Iteration 4

U X Y Z W V & U

Ky(u) 6 8 3

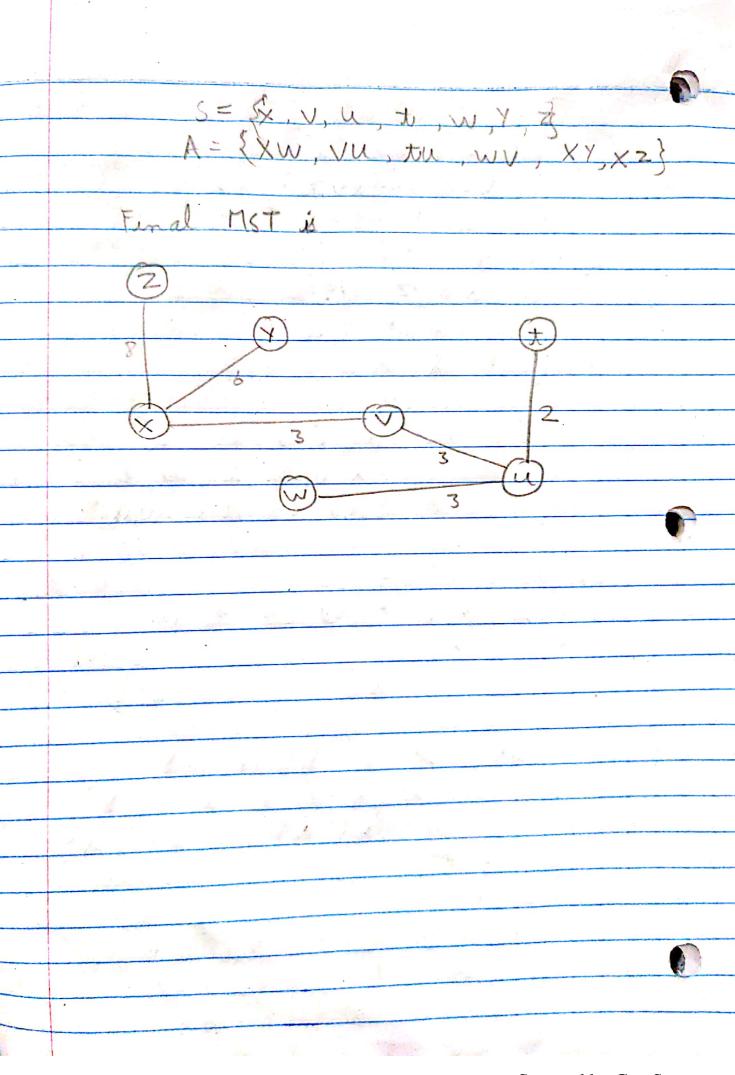
fred (u) X X U Minimum Key Cw is w ...
S, S = {x, v, u,t, w } A= {xv, vu, tu, wu} Herding 4

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Keylin 6 8

pred (in) X X Minimum Key (U) is Y

S = {x, v, u, t, w, Y} A = {xw, vu, tu, wu, xy} rations upx y z w v l u Iteration 5



Does there exist a set Union of size K? Vertex-(over & New Broblem Consider an instance of Vertex Cover probleme (n = (V, E).

Define S is such that it covers all the edges invident on each Vertex. Now, it can be seen that a strong size < K (=>) a vertex cover of size K So, this is a palynamial time reduction. This proves that the new-problem is NP-complete.