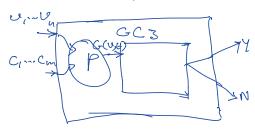
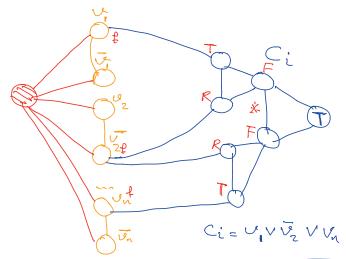
Graph Colomby by 3 ENP-Complete (GC3)

Colors# {Red, True, false }

QGC3 GNP VO(n+m)

② Reduction
3SAT≤p GC3





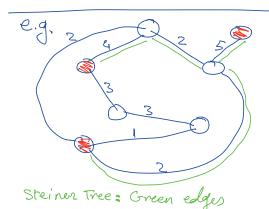
Min. Steiner Tree Given a weighted Graph G (V,6) and a Set SCV, Find the Tree w/t min weight that includes all nodes in S Min Spanning Tree

Given a weighted graph G(V,E)

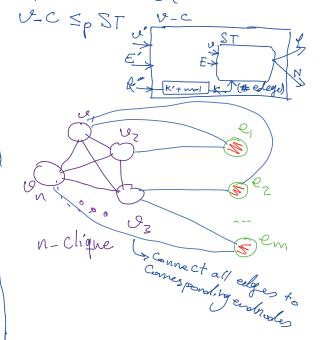
find Spanning Tree (That Contains

all nodes, and has the

min weight)



Step 2: Reduction



Steiner Tree GNP_Complete Step1: STENP

Given a certificate (Tree)
Check if it includes all modes
in S, [Tree] < K