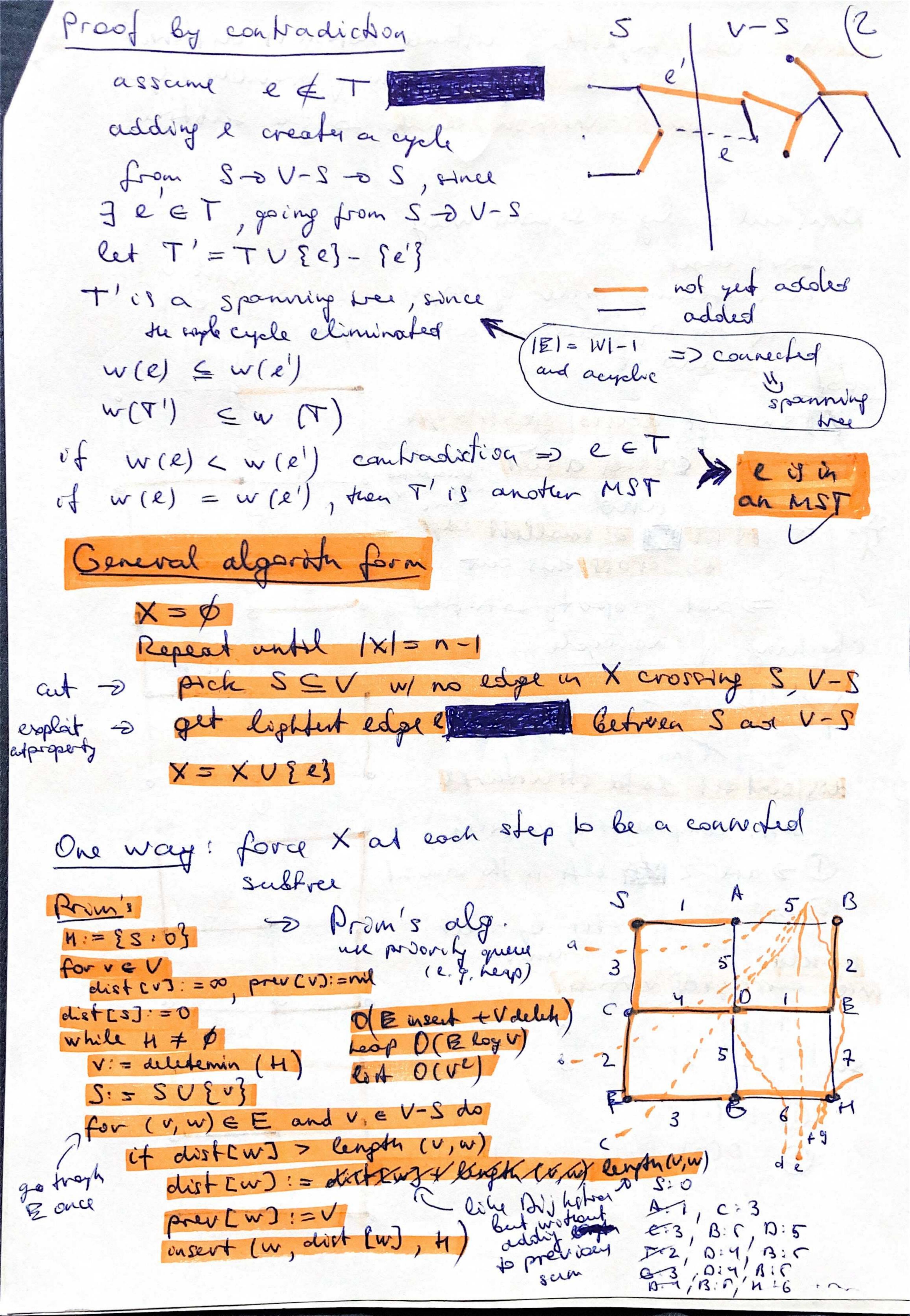


Graph Algs	
Minimum spanning trees # undirected grouph weighted edges Tree: connected and acyclic	
Lemmoi (LTR): any 2 of tun => 3rd 1) G 08 connected 2) G 08 acpelie 3) IEI = IVI-1	
De Panning tree ; given G: TCE E on all of V (vertices of G) Min spanning tree:	
Boxelne alp: Boxelne alp: for each spanning her calculate it keep the minimum	
2 o # spanny free! 3 3	
16 NZNS 16 NZNS 125 UCT J	
n n-2 X X X X x x x x x x x x x x x x x x x	se v-s
let SEV, such that no edge in X crosses from S let e be a min weight edge from Sto V-S	1.1 6 V-S
Then XUEE3 C T' for some MST T' - so can construct MST in a greedy f	Pashion



Dohe Bolkstra, distance noton is distance not pastu lengte (sem of previous edges) best connection length to the subtree Kraskal's alg: Second way 2 implicit sort edges in increasing order of edger if the edge does not add a eyeli 12000 Since it does not create a yel (no cycle = not with of the sees of cut disconnected and UN a smallett ledge 10 cross suis cut =) and property saks fred no cycle: dosjoint set data structures self: components of vertices Do are 2 ell in the same set Do replace 2 sty by their union union with arrays of verticus;