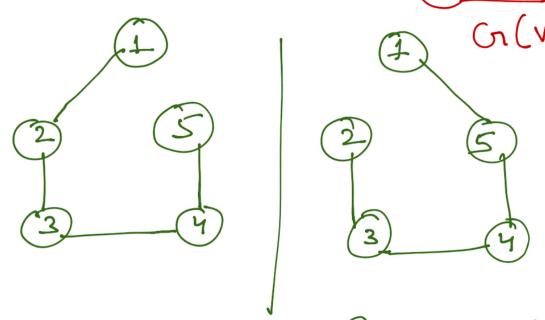
MST

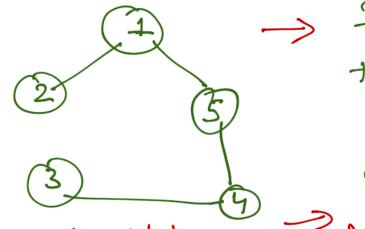
Let MST le G'(V', E')

$$V' = V$$

$$E' \subset E$$

$$E' = |V| - L$$





> If costs is given to these edges, MST will be the one with least cost

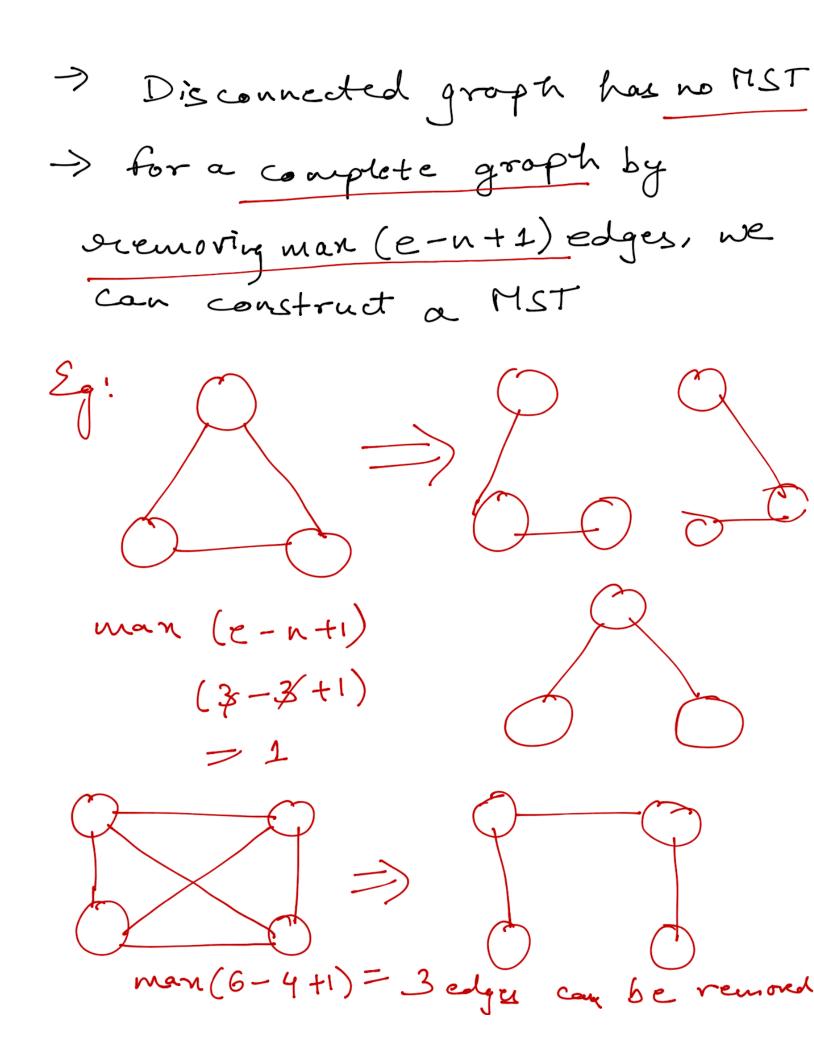
2 it should be connected No cycle Pn MST

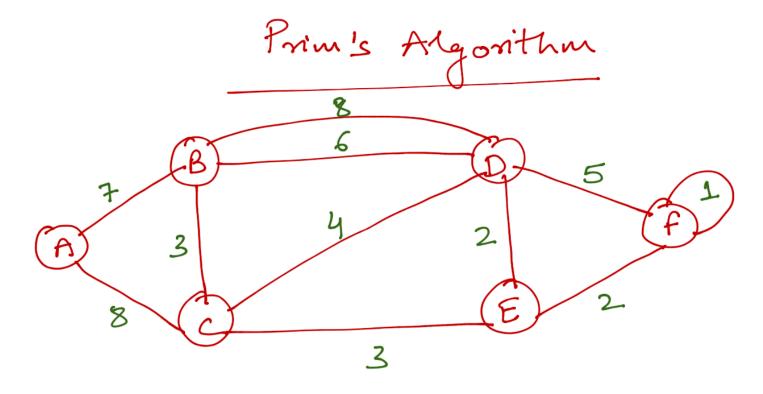
Properties

- 1. Remove one edge from MST, it will become disconnected
- 2. Adding one edge will create
- 3. If each edge has a distinct wt, then only one unique MST
- 4. A complete (each verten conn. to every other verten) undirected

groph, can have no. of MST's

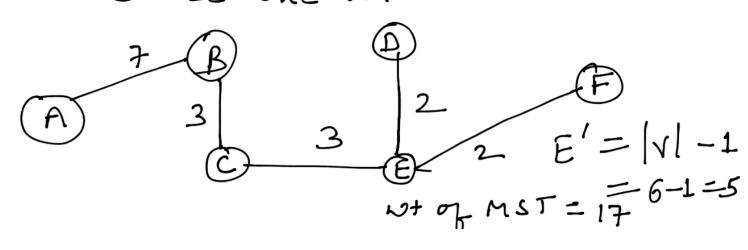
5. Every connected undirected
graph has at least one MST.



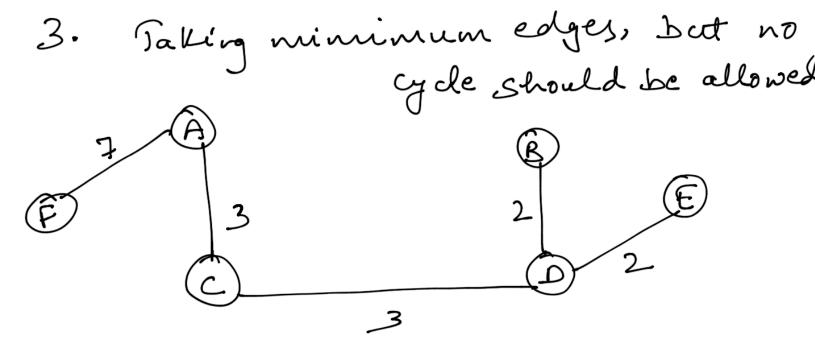


1. Remove all loops & parallel edges (based on cast, remove)

2. Choose any node as stanting node, check incident edges, & chose one with minimum cost.



Koruskal's Algorithm for MST parallel all loops & ivorder of Edges AB, BC, AF, FC BD, DE, AC, CD, BE,



$$E^{1} = |v| - 1$$

= 6 - 1
= 5