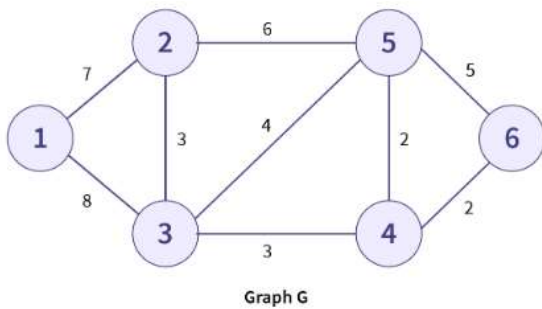
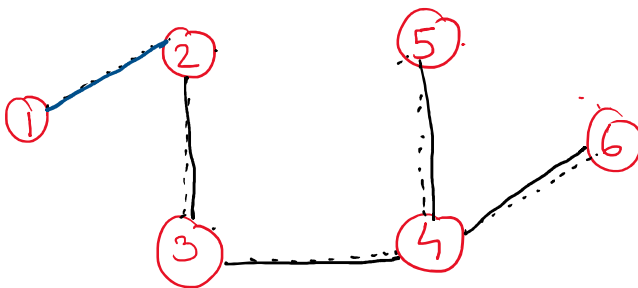
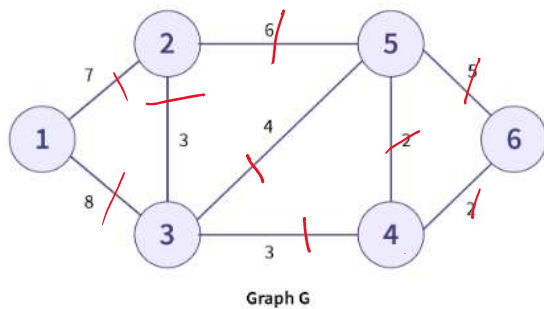


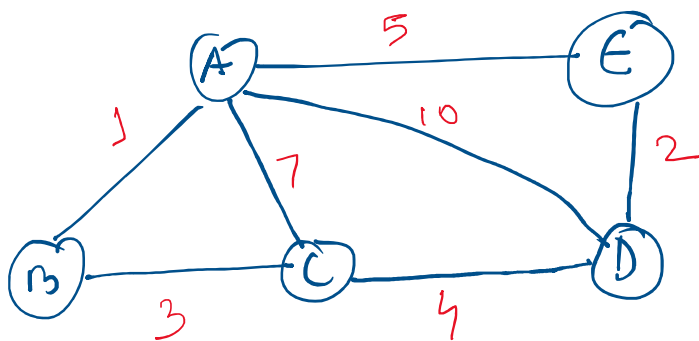
Kruskal's algorithm is a greedy algorithm in graph theory that is used to find the Minimum spanning tree.



- ✓ Sort all the edges of the graph in ascending order of their weights.
- ✓ Check the edge with minimum weight, if including it in the answer forms a cycle discard it, otherwise include it in the answer.
- Repeat the above step until we have chosen  $V - 1$  edges.



Node A	Node B	Weight
4	6	2 ✓
4	5	2 ✓
2	3	3 ✓
3	4	3 ✓
3	5	4 ✗ CYCLE.
5	6	5 ✗ CYCLE.
2	5	6 ✗ cycle.
1	2	7 ✓
1	3	8
		<u>17</u>



Solve by  
Kruskal to find  
MST?