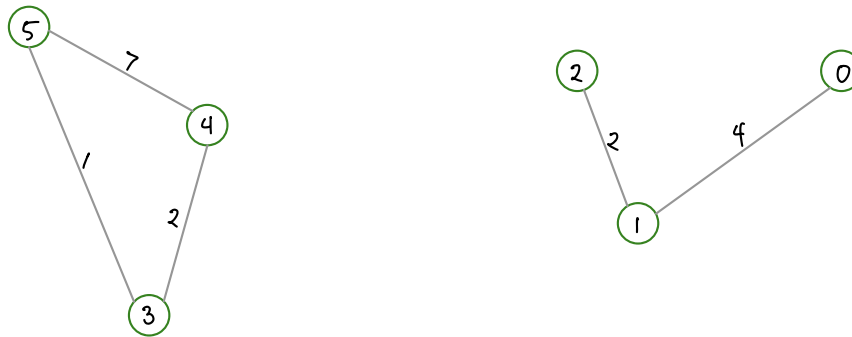


1. Explain what a minimum spanning tree is, with an example (a simple graph with 5 to 10 nodes is sufficient) **[0.2 pts]**
 - The example must include two figures (full graph; spanning tree)

Minimum spanning tree of a weighted, undirected graph is a subset of the edges that connects all the vertices without any cycles, and with the minimum possible total edge weight. In other words, it spans all nodes, forms a tree (no cycles) and has the least total edge weight among all such spanning trees.

Minimum Spanning Tree



Full Graph

