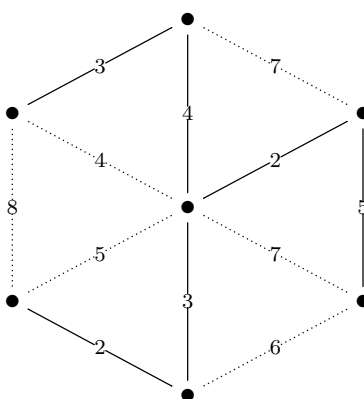




Given a graph  $G$  with weighted edges, a *minimum spanning tree* is a spanning tree with minimum weight, where the weight of a spanning tree is the sum of the weights of its edges. There may be more than one minimum spanning tree for a graph, since it is the weight of the spanning tree that must be minimum.

For example, here is a graph  $G$  of weighted edges and a minimum spanning tree  $T$  for that graph. The edges of  $T$  are drawn as solid lines, while edges in  $G$  but not in  $T$  are drawn as dotted lines.



Prim's algorithm or Kruskal's algorithm can compute the minimum spanning tree of a graph.