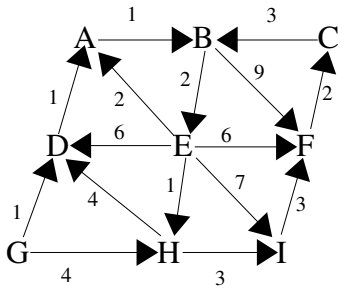
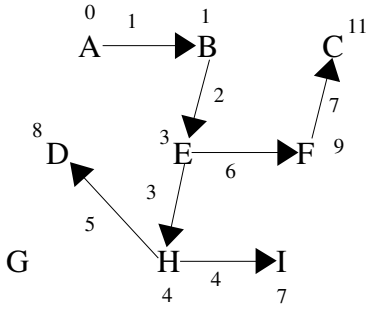
Solution for Quiz 5-2, Version C:

1.

(a)

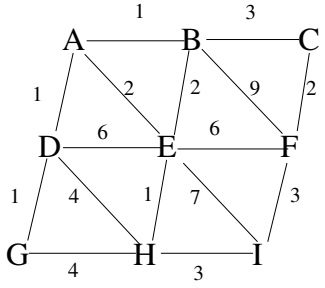


(b)

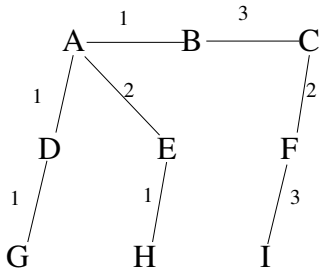


2.

(a)



(b)



weight of the tree: 14

(c)

No, cannot find another mininum weight spanning tree.

When use Kruskal's algorith to find the MST, every time only the edge with miminum weight was chosen. So the MST is unique when no two edges in a graph have the same weight.

Also, when no two edges in a graph have the same weight, the MST is unique no matter which algorithm is used to find MST.