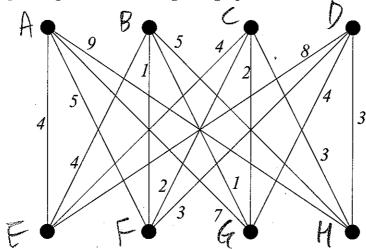
Name_Solution

Mathematics 2602 Quiz 9 Prof. Margalit 9 November 2011

Find a minimal spanning tree for the weighted graph shown.



Let A-H denote the vertices

If we use Kruskal's algorithm, we take the smallest available edges While avoiding a cycle: we take BF, BG, CG (could have taken CF

DH, CH, BE, AE > MN (This is not the only answer)

It we use Prim's algorithm, we choose a vertex and then Increase the fize of the tree optimally.

If we choose A Lyou could choose something else)

A. A. A. B. E. A. B. A. B. E. F. G. E. F. G

Either way, you should get a tree of weight 18.