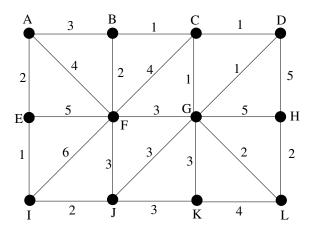
Collected Homework: Kruskal's and Prim's Algorithms

MATH 313: Graph Theory

Part of the assignment due March 8, 2019 at 3:00pm Name (Print):



(a) Use **Kruskal's** algorithm to find a minimal spanning tree of the above weighted graph. (i) List the edges **in the order they are selected**, (ii) sketch the minimal spanning tree you obtain, and (iii) give the total weight of the minimal spanning tree.

(b) Use **Prim's** algorithm to find a minimal spanning tree of the above weighted graph. (i) Make it clear where you are beginning. (ii) List the edges **in the order they are selected**, (iii) sketch the minimal spanning tree you obtain, and (iv) give the total weight of the minimal spanning tree.