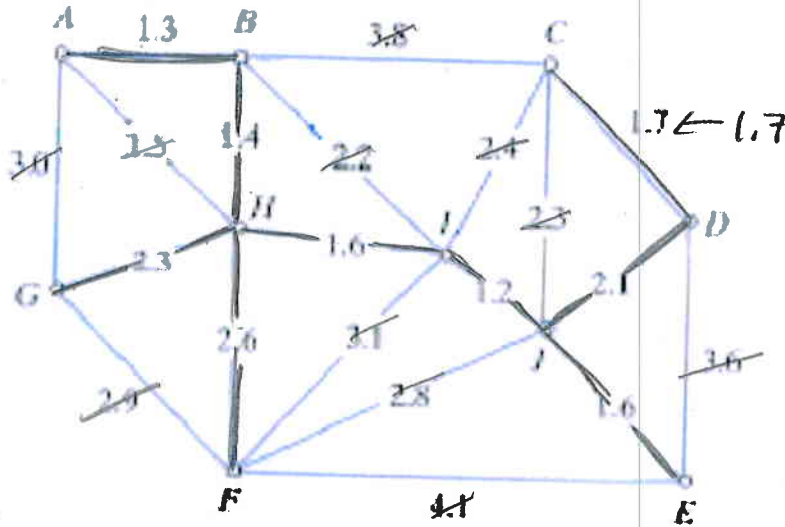


1. Use Kruskal's algorithm on the graph below to find the minimal spanning tree. Use the same method to find the minimal spanning tree for the data in the table. Give the weight of both trees.

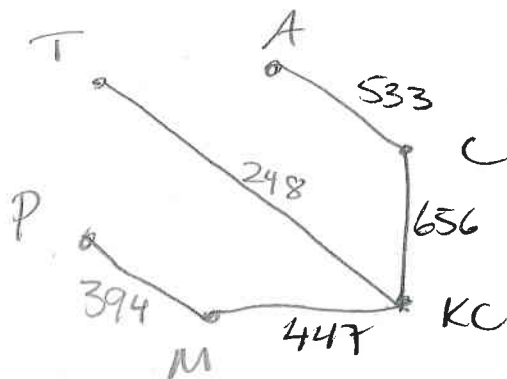


a.

$$1.2 + 1.3 + 1.4 + 1.6 + 1.7 + 2.1 + 2.3 + 2.6 = 15.8$$

b.

	Atlanta	Columbus	Kansas City	Minneapolis	Pierre	Tulsa
Atlanta	-	533	798	1068	1361	772
Columbus		-	656	713	1071	802
Kansas City			-	447	592	248
Minneapolis				-	394	695
Pierre					-	760
Tulsa						-



$$= 2278$$