1 Exercises

Exercise 1. Consider the following edge-weighted graph with 9 vertices and 19 edges. Note that the edge weights are distinct integers between 1 and 19.

![](image)

a. Complete the sequence of edges in the MST in the order that Kruskal’s algorithm includes them (by specifying their edge weights).

b. What is the total weight of the edges on the MST?

2 Solutions to Exercises

Solution 1.

a. 1 2 3 4 5 7 9 14

b. 45