Assignment 9

1. For each of the given graphs, find the cycle covering problem and determine the minimum weight cycle covering.

2. Consider the weighted complete graph on 5 vertices, where the weight of each edge is equal to the product of its end vertices. Find the minimum weight cycle covering of this graph.

3. Suppose that a graph has 10 vertices and 15 edges. What is the maximum number of vertices in a cycle covering of this graph?

4. In a weighted tree, how many edges must be removed to obtain a forest consisting of connected components?

5. For a given undirected graph with n vertices and m edges, what is the complexity of finding the minimum weight cycle covering?