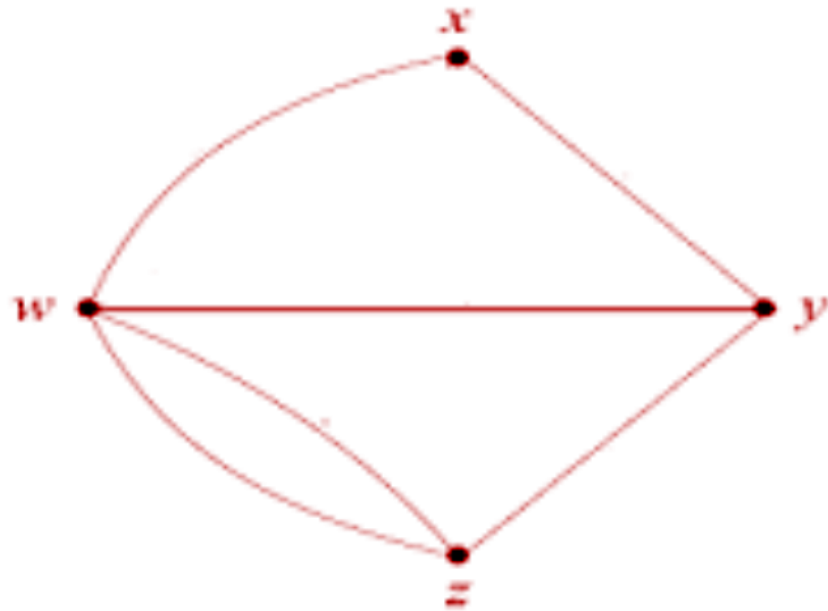


Question 1: Consider the following graph, G , with 4 vertices x , y , z and w .



1. Find the degree sequence of the graph G .
2. Draw two non-isomorphic spanning trees of G .
3. Let A be the adjacency matrix of G . Write down A .
4. What information does the sum of the elements in A tell you about G ?

Question 2:

1. Draw a binary search tree to store 14 records.
2. Find the maximum number of comparisons needed to find any existing records.