TUTORIAL 8

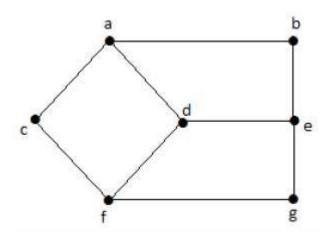


Figure 1

- 1. Write matrix $D = d_{ij}$ for figure 1, such that d_{ij} is the topological distance between i and j.
- 2. List the vertex and edges of the following graph

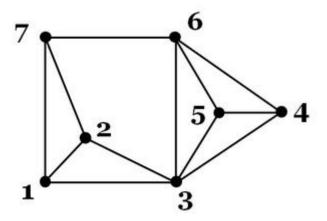


Figure 2

3.
$$\begin{pmatrix} 1 & 0 & 1 & 0 & 0 & 1 \\ 1 & 1 & 0 & 0 & 0 & 0 \\ 1 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 & 1 & 1 \\ 0 & 0 & 0 & 0 & 1 & 1 \end{pmatrix}$$

- i. Draw a graph based on the given adjacency matrix
 - ii. State the value for indeg and outdeg for each node.