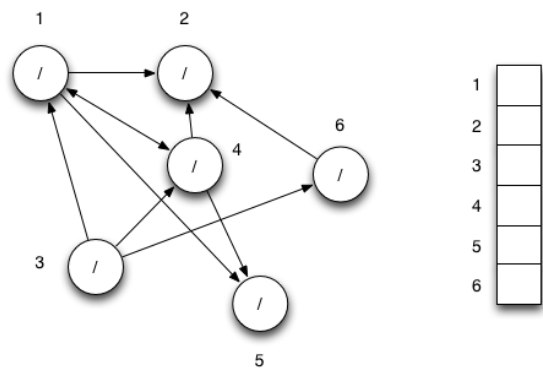
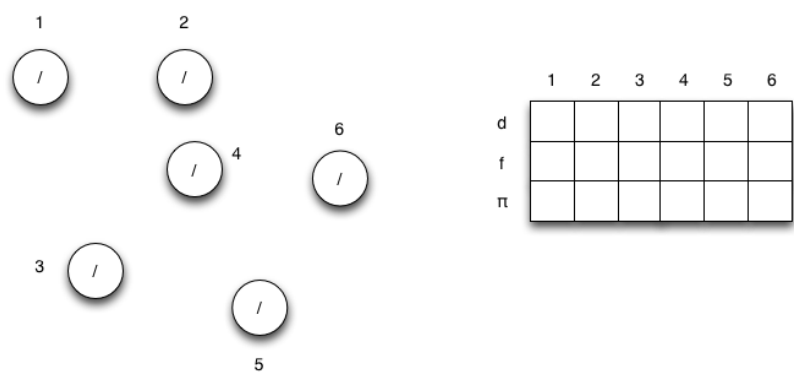


For the following graph,

(a) Give an *adjacency list* representation for the graph. Order the lists by increasing vertex indices.



(b) Perform a DFS using vertex 1 as the source. (For any new trees, start at the next smallest available vertex index).



(c) Draw the final depth first forest labeling each edge from the original graph.