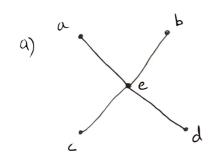
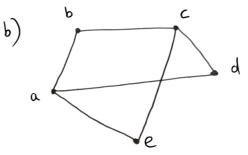
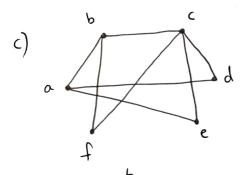
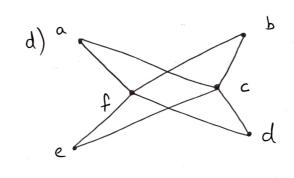
- (1) Draw the following graphs:

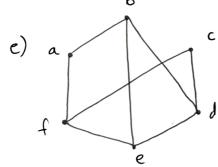
 a) K_7 b) C_7 c) $K_{1,8}$ d) $K_{4,4}$
- 2 Determine whether the following graphs are bypartite or not



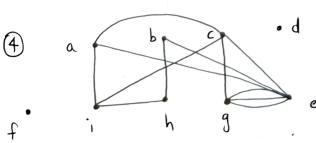








(3) For what values of n are these graphs bipartite
a) Kn b) Cn c) Wn



Find a) the subgraph induced by weetices a, b, c, and f.
b) the new graph oftained by contracting the edge connecting b and f.

- (5) How many vertices and edges do these graphs have?

 a) Kn b) (n c) Wn d) Km,n
- 6 How many edges does a graph have if its clegree requence (degrees of neutrices of the graph) is the following

 a) 4, 3, 3, 2, 2

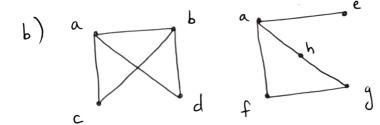
 b) 5, 2, 2, 2, 1
- Find union of the following gaphs

 a) f

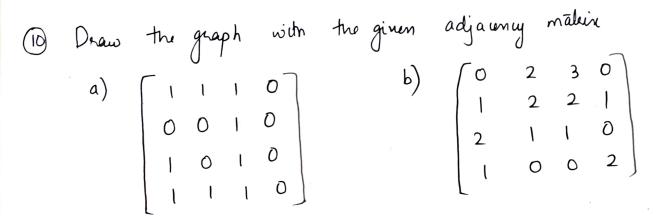
 e

 d

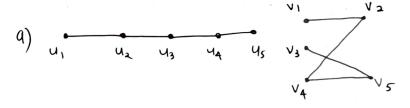
 d

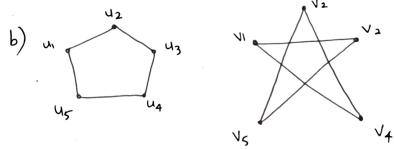


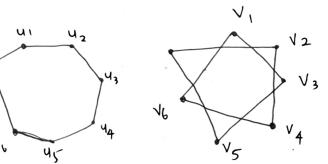
- (8) Represent the following using an adjacency list a) a b c b) a
- 9 Represent the following using adjacency matrix

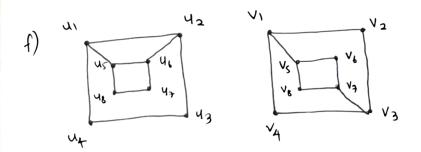


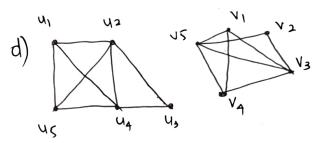
(1) Determine whether the following are isomorphic. If yes, define the isomorphism and if no, explain why.

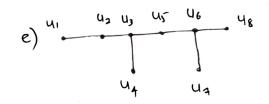


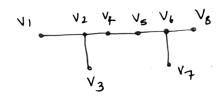


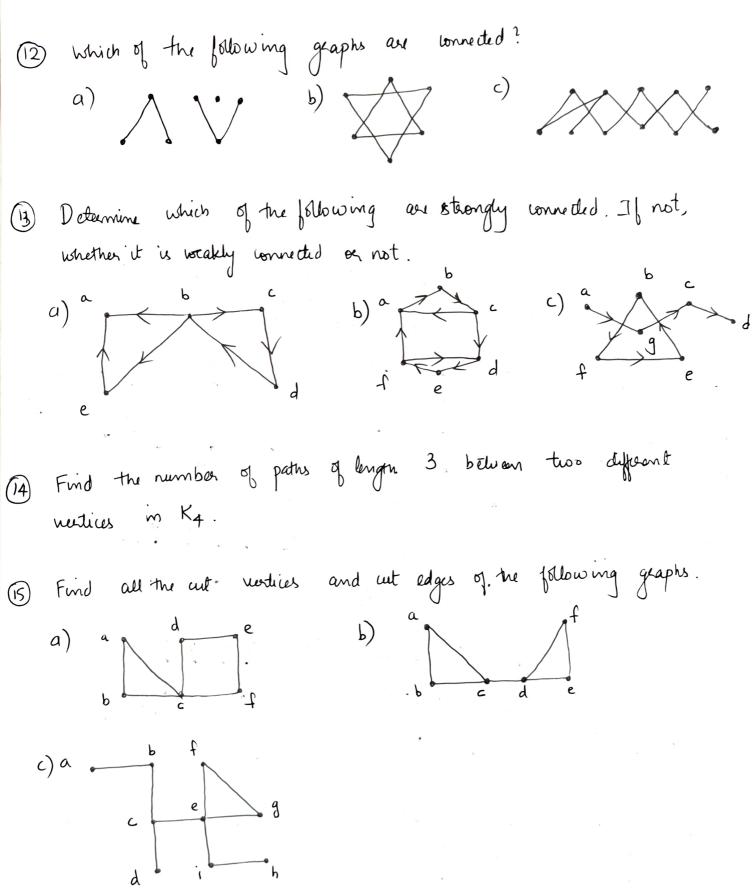


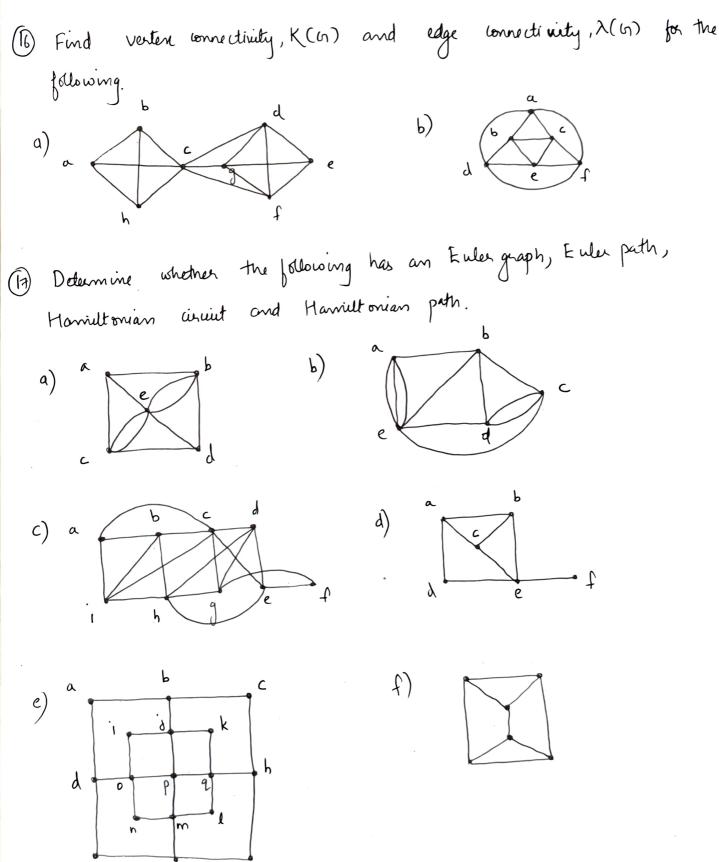












e

