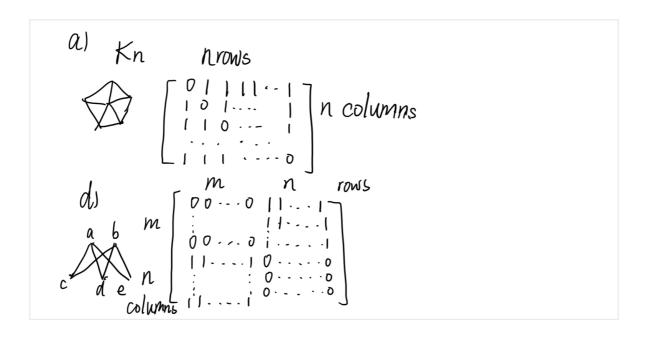
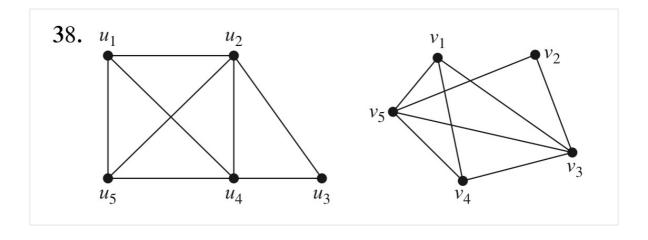
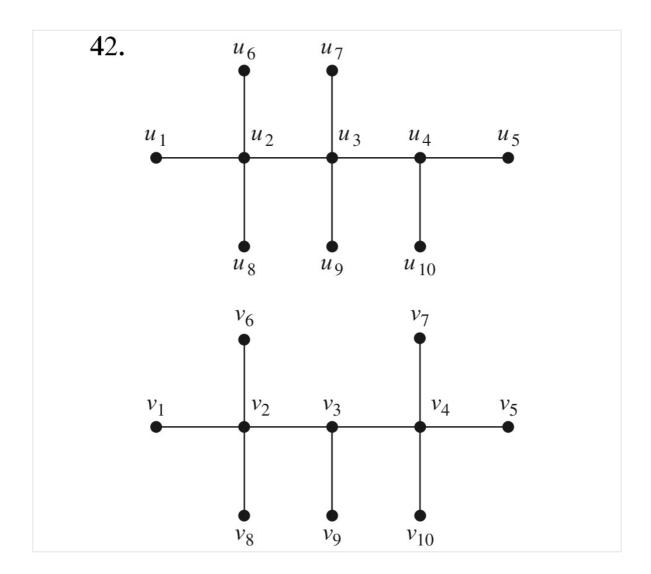
- *32. Find an adjacency matrix for each of these graphs.
 - a) K_n b) C_n c) W_n
- d) $K_{m,n}$
- e) Q_n



In Exercises 34–44 determine whether the given pair of graphs is isomorphic. Exhibit an isomorphism or provide a rigorous argument that none exists.

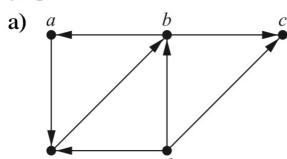


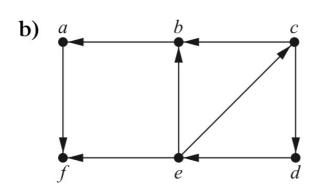


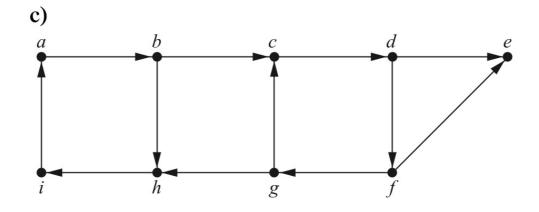
38. yes.
$$f(u_1) = V_1$$
 $f(v_2) = V_3$ $f(v_4) = V_3$ $f(v_4) = V_4$

the adjacency matrices of G and H. it follows that $f(v_4) = V_5$ it follows that $f(v_4) = V_5$ it follows that $f(v_4) = V_5$ is and $f(v_4) = V_5$ it follows that $f(v_4) = V_5$ is connected with $f(v_4) = V_5$ in $f(v_4) = V_5$ in

14. Find the strongly connected components of each of these graphs.

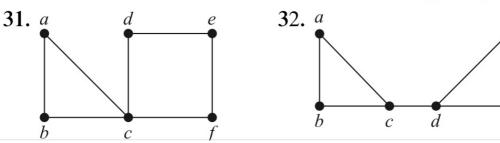


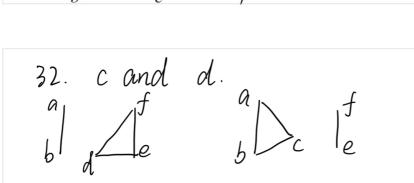




*30. Show that in every simple graph there is a path from every vertex of odd degree to some other vertex of odd degree.

In Exercises 31–33 find all the cut vertices of the given graph.





34. Find all the cut edges in the graphs in Exercises 31–33.

