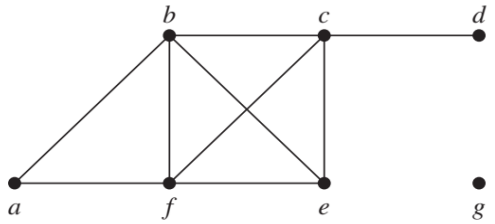
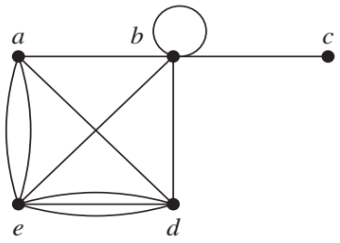
What are the degrees and neighborhoods of the vertices in the graphs G and H?



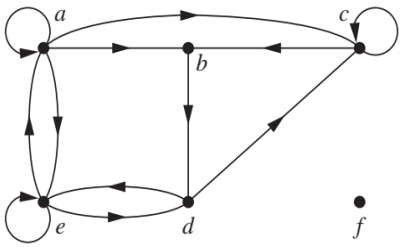
G



H

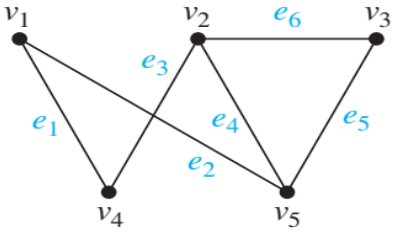
How many edges are there in a graph with 10 vertices each of degree six?

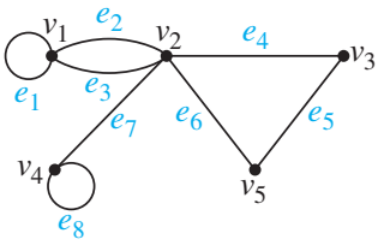
Find the in-degree and out-degree of each of the vertices in the graph G.



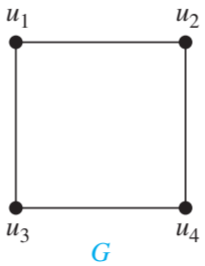
G

Represent the graphs shown below with incidence matrices.

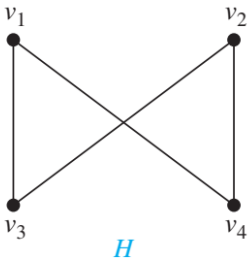




Show that the graphs $G = (V, E)$ and $H = (W, F)$ are isomorphic.

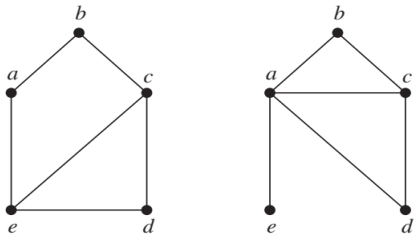


G

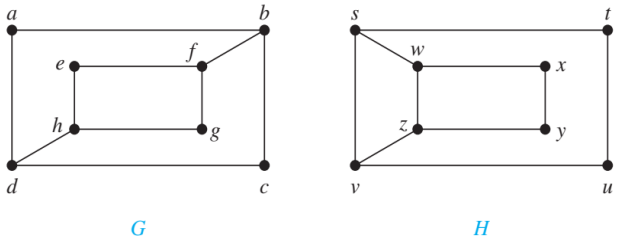


H

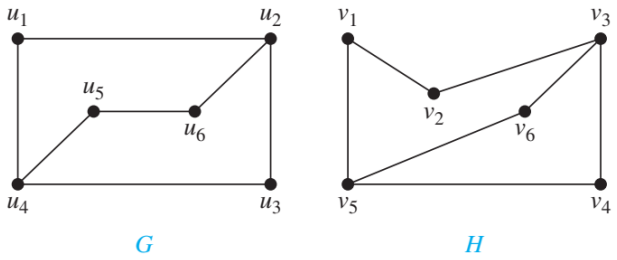
Show that the graphs displayed are not isomorphic.



Determine whether the graphs G and H are isomorphic.



Determine whether the graphs G and H are isomorphic.



Find the cut vertices and cut edges in the graph G_1