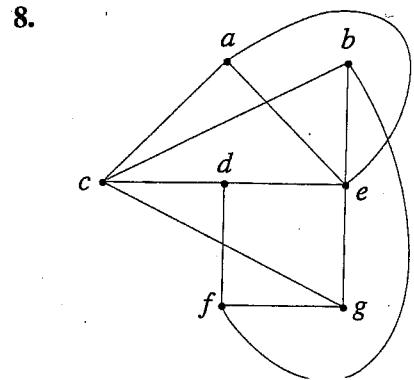
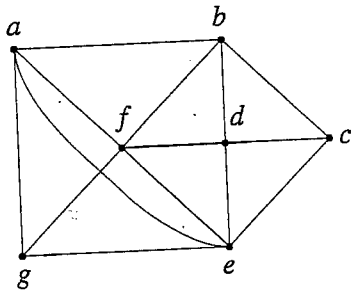
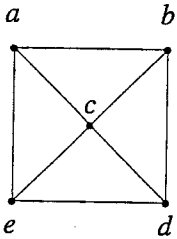
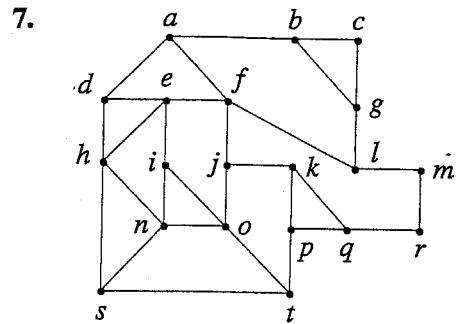
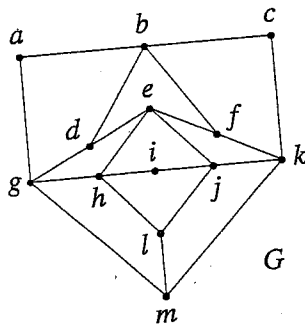
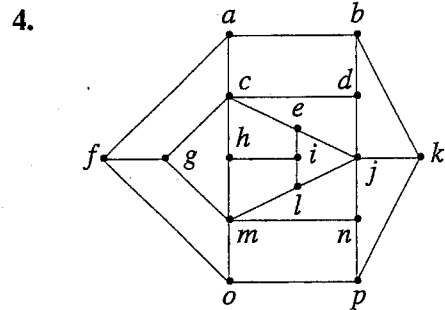
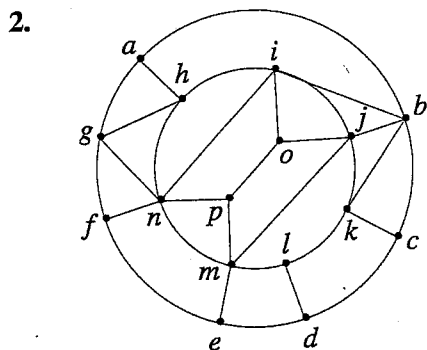
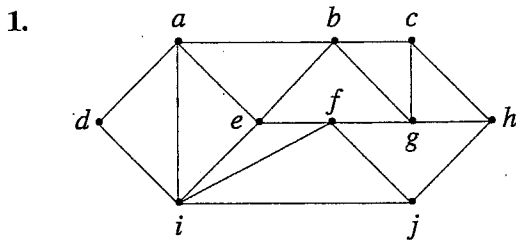


**FIGURE 6.3.5**  
A graph with no Hamiltonian cycle.

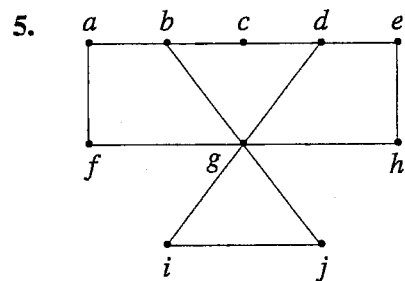


**FIGURE 6.3.6**  
A graph with a Hamiltonian cycle.

Find a Hamiltonian cycle in each graph.



$V=16$   
 $E=27$



Determine whether or not each graph contains a Hamiltonian cycle. If there is a Hamiltonian cycle, exhibit it; otherwise an argument that shows, there is no Hamiltonian cycle.

Show that none of the graphs contains a Hamiltonian cycle.

