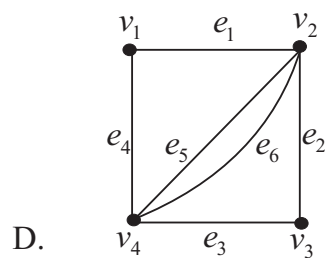
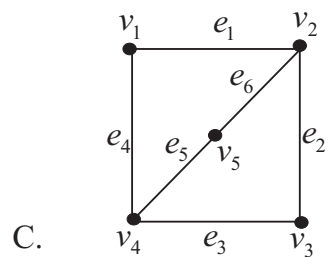
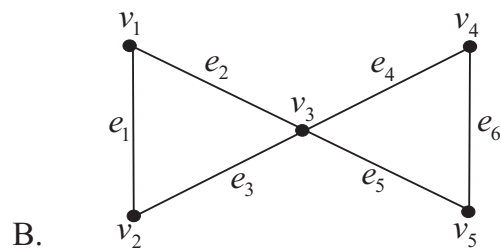
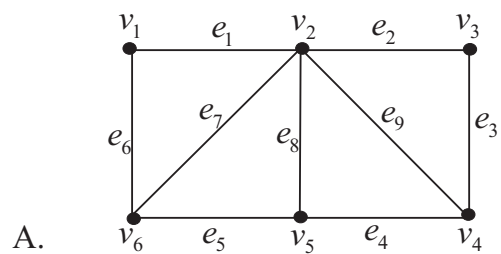
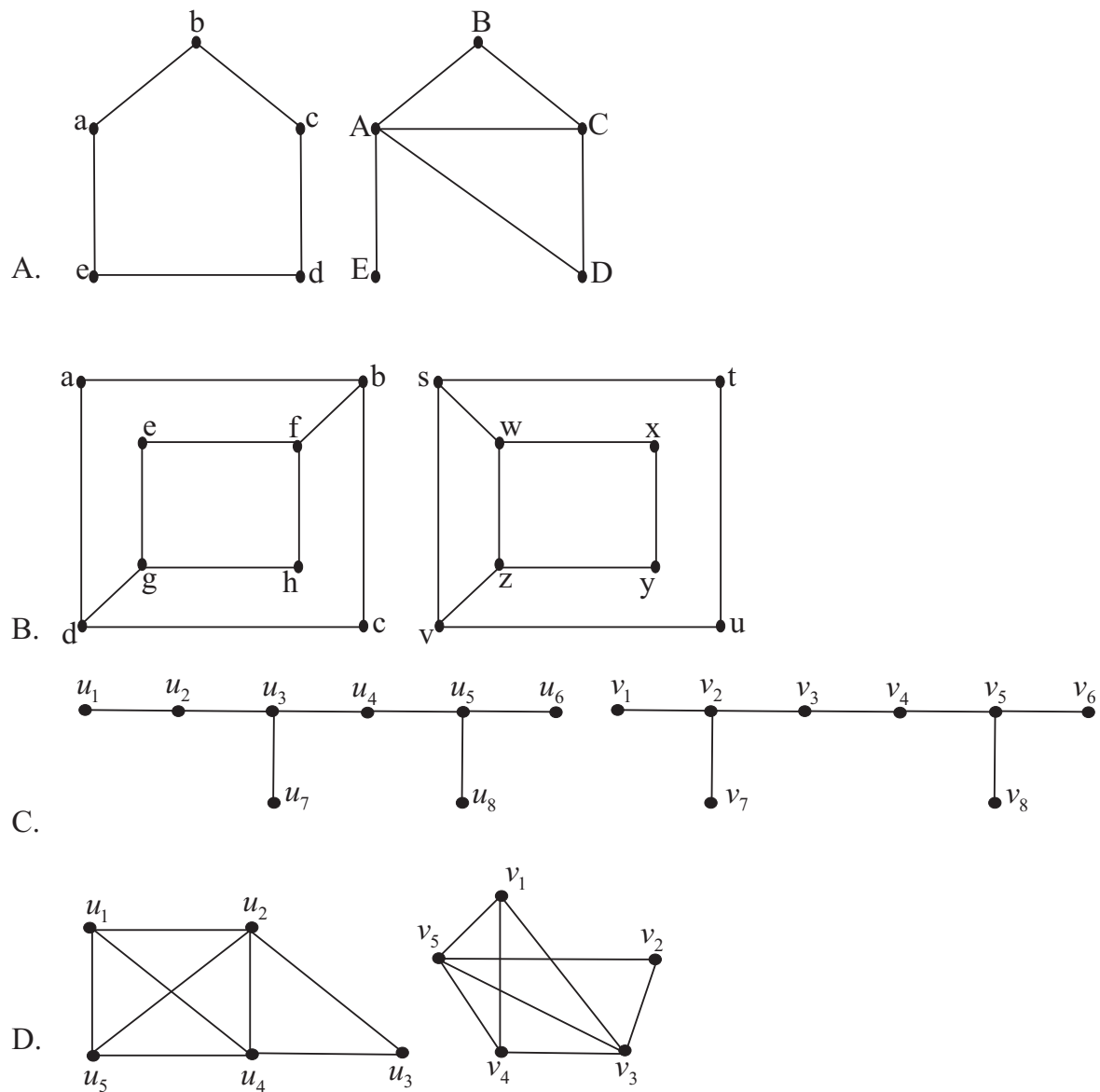


1. Which of the following graph is Hamiltonian but not Eulerian?



**ANSWER: A**

2. Which of the following graphs are isomorphic?



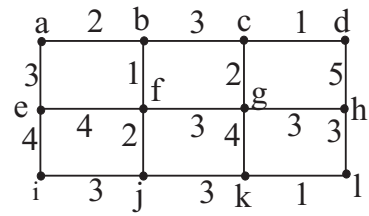
**ANSWER: D**

3. If all the vertices of an undirected graph are each of odd degree  $k$ , then the number of edges of the graph is a multiple of

- A.  $k$
- B.  $k^2$
- C.  $k^3$
- D.  $k^4$

**ANSWER: A**

4. The total length of the minimum spanning tree for the following graph is



A. 20

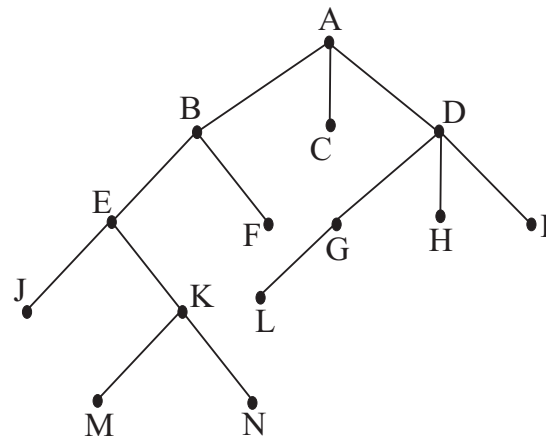
B. 24

C. 28

D. 32

**ANSWER: B**

5. The preorder traversal for the following graph is



A. ABEKMNJFCDGLHI

B. ABEJKNGLHIFCD

C. ABEJKNMFCDGLHI

D. AEBJKMNCDFGLHI

**ANSWER: C**

6. The value of the prefix expression  $+- \uparrow 32 \uparrow 234$  is

A. 2

B. 3

C. 4

D. 5

**ANSWER: D**