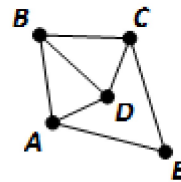
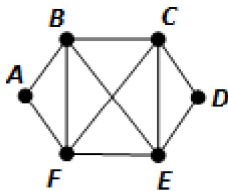


**Section 06-03 - Sample Quiz - Euler Circuits & Paths**

**Multiple Choice**

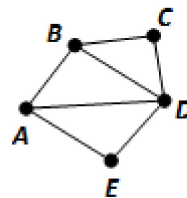
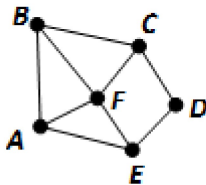
Identify the choice that best completes the statement or answers the question.

- \_\_\_\_\_ 1. **Euler Circuits & Paths**  
Which graph below has an EULER CIRCUIT?



a.

c.

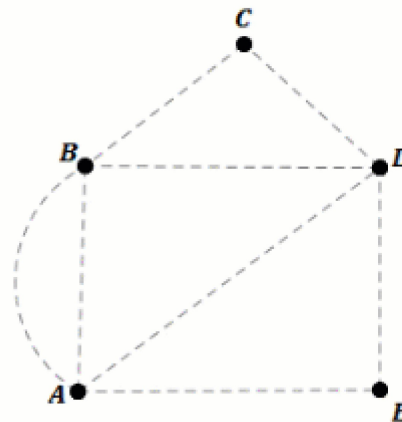


b.

d.

- \_\_\_\_\_ 2. **Euler Circuits & Paths**  
Which best describes the following **Route** on the graph?

**AEDABCDA**



- a. Euler Path  
b. Euler Circuit

- c. Hamilton Path  
d. Hamilton Circuit

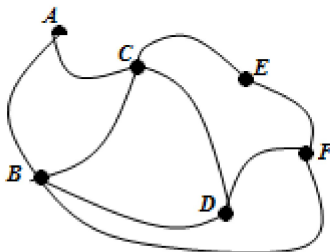
3. **Euler Circuits & Paths**

Which of the following BEST describes an **EULER PATH**?

- a. A path that goes through every VERTEX once and starts and ends at the same vertex.
- b. A path that goes through every EDGE once and starts and ends at the same vertex.
- c. A path that goes through every VERTEX once and starts and ends at different vertices.
- d. A path that goes through every EDGE once and starts and ends at different vertices.

4. **Euler Circuits & Paths**

Which vertices are the starting and ending points of an Euler path of the following graph?



- a. Vertex A and Vertex B
- b. Vertex B and Vertex C
- c. Vertex D and Vertex F
- d. Vertex A and Vertex E

5. **Euler Circuits & Paths**

Which graph below represents the map shown at the right (i.e. doorways become edges)?

