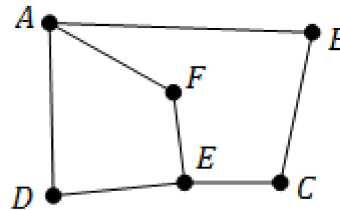


Section 06-04 - Sample Quiz - Hamilton Circuits & Paths

Multiple Choice

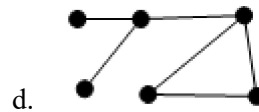
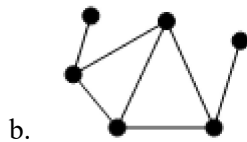
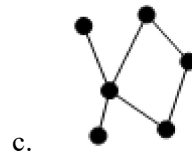
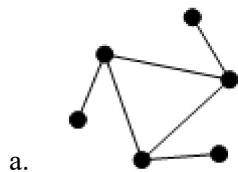
Identify the choice that best completes the statement or answers the question.

- _____ 1. **Hamilton Circuits & Paths**
 Which of the below descriptions shows a possible HAMILTON PATH?



- | | |
|-------------|-------------|
| a. EFADECBA | c. ADEFBC |
| b. FECBAD | d. ADECBAFE |

- _____ 2. **Hamilton Circuits & Paths**
 Which is the only graph below that has a Hamiltonian Path?



- _____ 3. **Hamilton Circuits & Paths**
 Which of the BEST describes a Hamiltonian Circuit.

- | | |
|--|---|
| a. A path that uses each <u>edge</u> of a graph exactly once and ends at a vertex <u>different</u> from the starting vertex. | c. A path that uses each <u>edge</u> of a graph exactly once and ends at the starting vertex. |
| b. A path that uses each <u>vertex</u> of a graph exactly once and ends at a vertex <u>different</u> from the starting vertex. | d. A path that uses each <u>vertex</u> of a graph exactly once and ends at the starting vertex. |

Name: _____

ID: A

4. **Hamilton Circuits & Paths**

Which graph below has a Hamiltonian Circuit?

