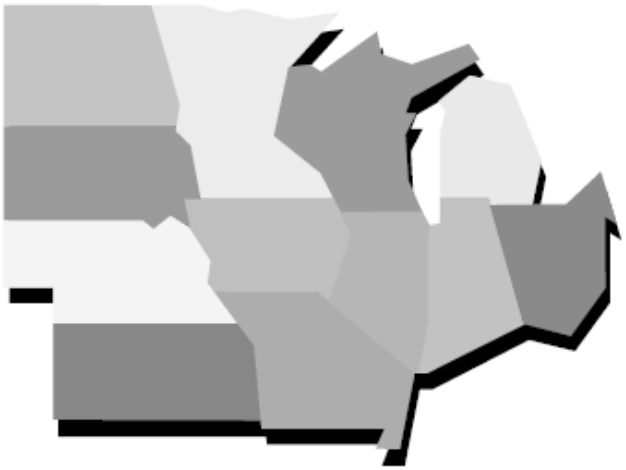
Graphs, Paths, & Circuits

1. Create a graph with five vertices and a bridge.

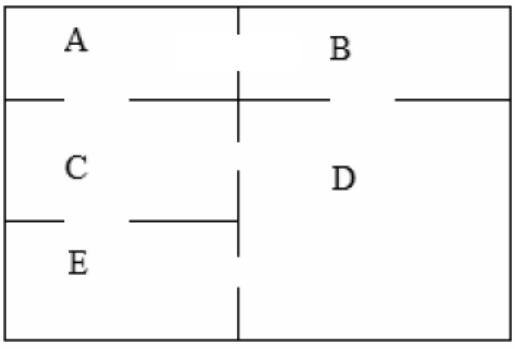
2. Represent the map below as a graph where each vertex represents a state and each edge represents a common border between states.



3. Draw a connected graph with all even vertices.

1. Create a graph with five vertices and one loop.

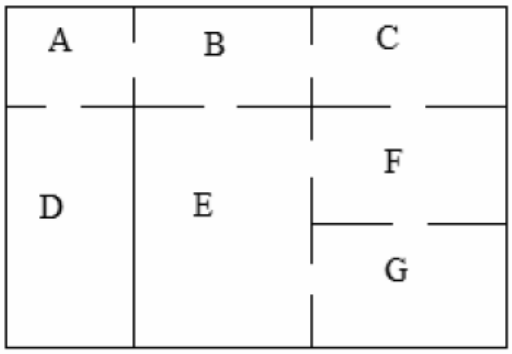
2. Represent the floor plan below as a graph where each vertex represents a room and each edge represents a doorway between rooms.



3. Draw a connected graph with all odd vertices.

1. Create a graph with six vertices, a bridge, and a loop.

2. Represent the floor plan below as a graph where each vertex represents a room and each edge represents a doorway between rooms.



3. Draw a connected graph with all even vertices.