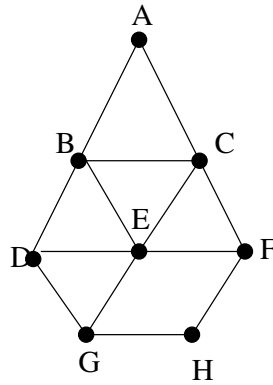


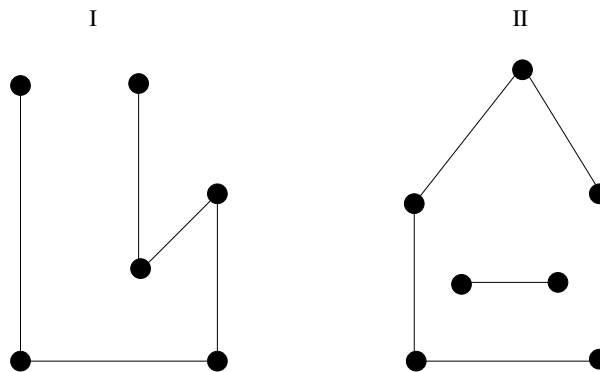
Quiz 1
Friday, Jan. 26.

NAME _____

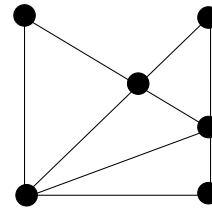
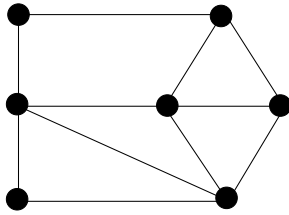
1. What is the valence of the vertex E in the following graph?



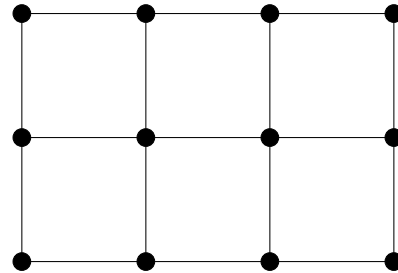
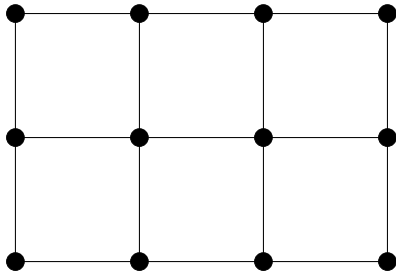
2. Is graph I connected? And graph II?



3. For each of the graphs below, state whether it has an Euler circuit. If the answer is yes, draw such a circuit (use arrows and number the sequence of edges in the order traveled).



4. Find an efficient eulerization of the following graph; draw a circuit that reuses 5 edges. (Use the left-hand graph to draw the Eulerization, and the right-hand graph to draw the circuit that reuses 5 edges)



5. Same question, except that this time you must draw a circuit that reuses 2 edges.

