1. Which of the graphs below does **NOT** have a Hamiltonian path?

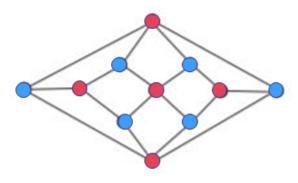
(3 points)

$$A.K_3$$

$$C. K_3^+$$

✓ E. All the above have H-paths

2. Consider the graph G=(V,E) with |V|=11 and |E|=18 below.



Which of the following is **NOT** a property of G?

(3 points)

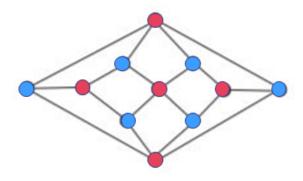
A. It is bi-partite.

B. It is planar with 9 regions.

√ C. It has a Hamiltonian cycle.

D. It does not have a K<sub>4</sub> subgraph.

3. Consider the graph G=(V,E) with |V|=11 and |E|=18 below.



Which of the following is a property of G? (3 points)

A. It is 4-regular.

B. It is complete.

√ C. It has a Hamiltonian path.

D. It has 8 components, i.e, K(G)=8.