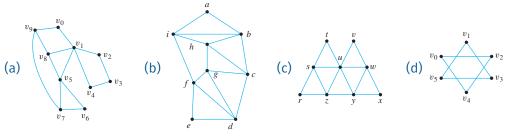
Discuss with your partner(s)

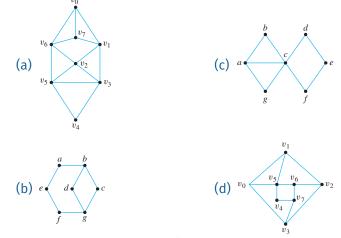
- In the Petersen graph, find

 (a) a trail of length 5
 (b) a path of length 9
 (c) cycles of length 5, 6, 8, and 9
- 2. Prove that if G has an Euler circuit, then every vertex of G has even degree.
- 3. For each graph, find an Euler circuit or explain why one does not exist.



Epp, Section 10.2

- 4. For each graph in #3, find an Hamiltonian circuit or explain why one does not exist.
- 5. For each graph, find an Hamiltonian circuit or explain why one does not exist.



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