

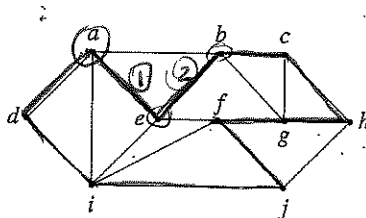
Hamiltonian Cycles

Worksheet 7

Name: _____

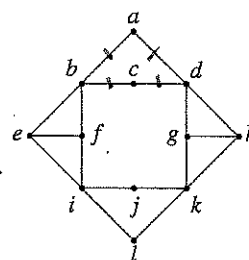
Date: _____

- Find a Hamiltonian cycle.



- Show that the following graph does not have a Hamiltonian cycle.

(a, b, c, d, a) is a circuit. Connecting it to the rest of the graph requires an additional edge to be added to either vertex b or d , which makes their degree > 2 .



- Determine whether the following graph has a Hamiltonian cycle. If it has, exhibit one. If not, give an argument that shows there is no Hamiltonian cycle.

