

0. Print your name: _____

1. Define the terms Hamiltonian and Eulerian for graphs.

2. Prove or disprove: Q_3 is Hamiltonian.

3. Suppose you are using Dijkstra's algorithm for shortest paths in Γ starting from a vertex v . And you have processed a subgraph S (so that its vertices have finite-valued labels on them). Explain what the next step is.