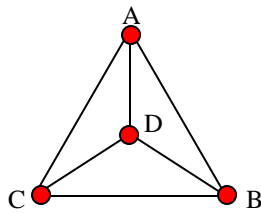
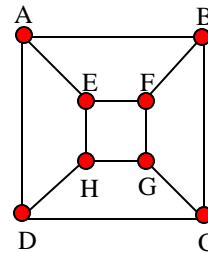


Tutorial Sheet 16 (Eulerian & Hamiltonian Graphs)

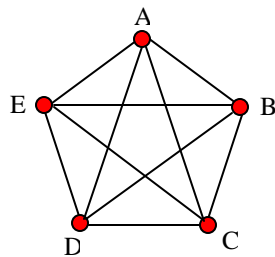
1. Decide which of the following graphs are Eulerian or Hamiltonian, or both, and write down an Eulerian path or Hamiltonian cycle where possible:



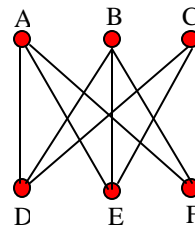
(a)



(b)

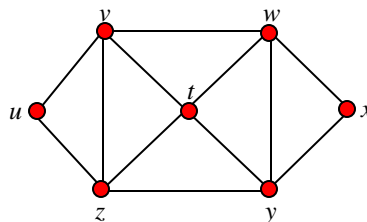


(c)

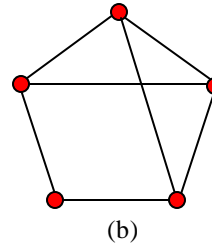
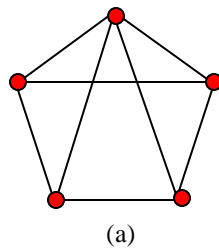


(d)

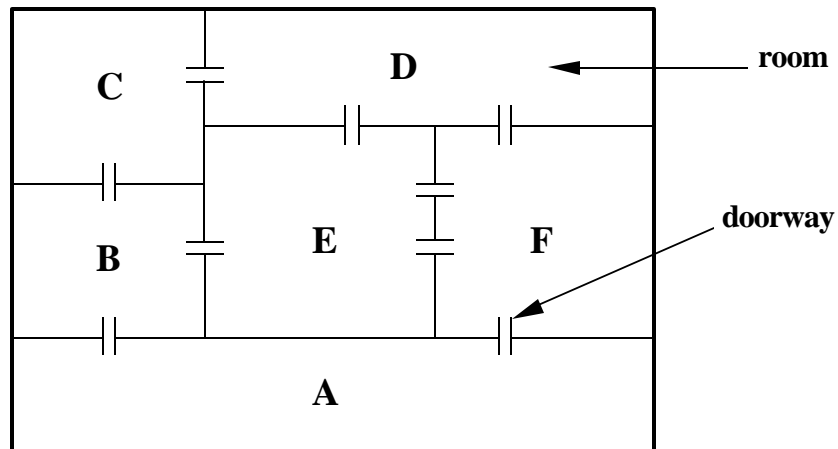
2. Find an Eulerian path starting with uvz in the following graph.



3. Check whether the conditions of Dirac's theorem and Ore's theorem hold for the following Hamiltonian graphs:



4. The figure below shows a floor plan of an office.



Represent it by a graph. Hence determine whether it is possible to walk through each doorway exactly once starting and ending at A?