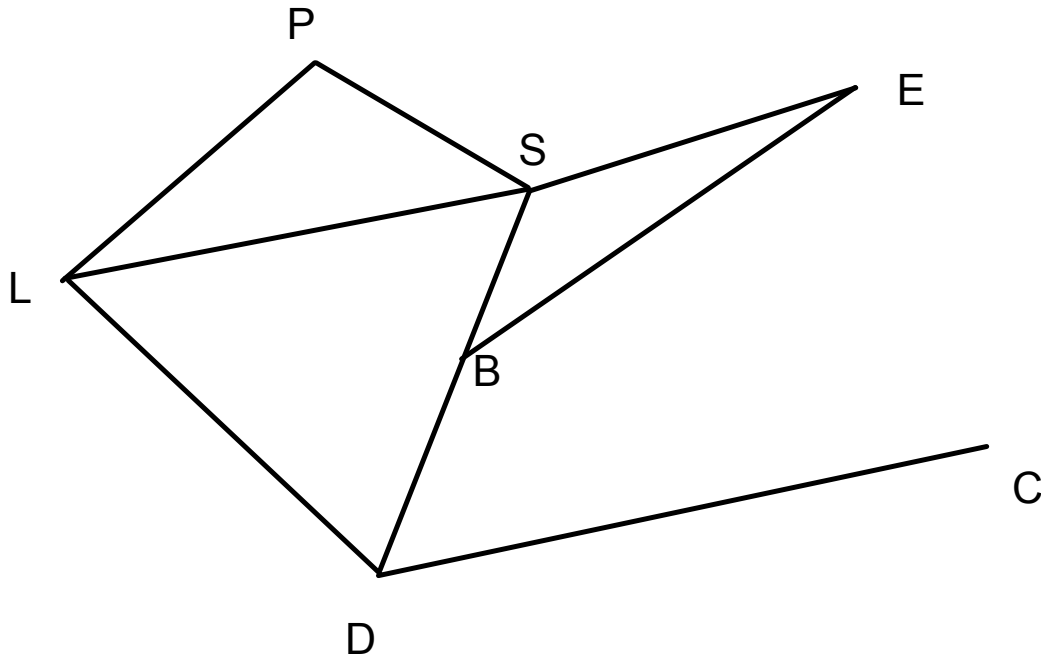


# PATHS AND CIRCUITS (CHAINS AND CYCLES)

Goal:

- to be able to identify a path or circuit
- to identify a simple path or circuit
- to identify a Hamiltonian path or circuit



1) EBSPLDC Not Euler path  
HAMILTONIAN path

2) No

3) No Hamilton path starting in Santa Fe.

A Hamiltonian path passes through every **vertex** exactly once.

A Hamiltonian circuit starts and ends at the same vertex.

If the graph has any vertices with a degree = 1  
You cannot have a Hamiltonian circuit.

A path or circuit is called simple if it does not repeat any edges.

p.50 #9-15

