

Different terms used in connectivity: * Cut Vertex; A single vertex whose removed disconnects a graph is called a cut vertex. Example: : Removel of @ from 91 9 92. * Cut Edge: A single edge whose semual disconnets a graph. : Removal of edge between O and O. 6 6 > Euler and Hamilton Paths: or understand euler path firstly we have to understand euler cycle/circuit.

Euler circuit/Cycle: A closed walk which visit every édge of the graph exactly once.

Euler Graph: A graph which contains a euler

cycle is called eular graph.

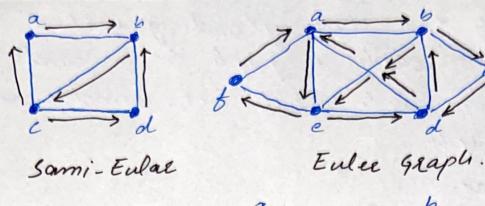
Examples:

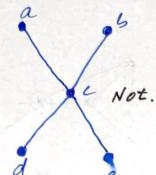
The properties of the graph exactly once.

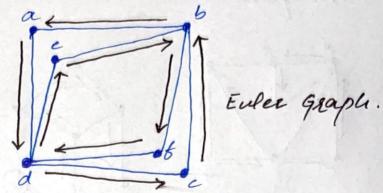
A graph which contains a euler

cycle is called eular graph.

The properties of the graph exactly once.







Open Euler Walk: A open walk which wisit every edge of the graph exactly once. (But not ends at the same point).

Sami Eules Graph: If a graph contains an open euler walk than it is sami eular graph. * Important: In sholt if we want to identify that a graph is euler or not then the degsee of every vertex in a graph should be even. If any one of the vertex can't have even degree than graph is not euler.

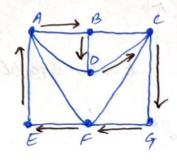
Hamiltonian Graph:

- For hamiltonian graph we need to understand hamiltonian circuit/cycle.

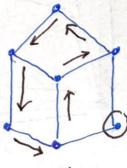
Hamiltonian Circuit/Cycle: In a connected graph is defined as a closed walk that traverse every vertex of graph exactly once,

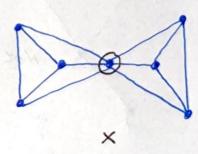
except of the starting/ending vertex. Hamiltonian Graph: A graph 'G' is said to be hamiltonian graph if it has hamiltonian circuit/graph.

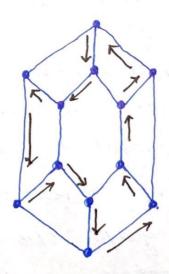
Examples:



Hamiltonian







Hamiltonian.

