L25 05 April 2022 Eulerian and Hamiltonian gealth .\_ Eulesian gersh: Eulerian graph & a Commerced finite graph is 8.1.6 Eulesian if it Contains on Eules Ciscuit. Euler circuit: is a closed path closed path graph each and every edge of se graph exactly once ( but so can subset se veithors). d-c-b-d-a-b Not Fullation Eules path: is a path which covers each and every edge of the graph exactly once Eules Theorem A conneised finite graph G is Eulesian (Gilains on Euler circuit) if and aly if degree of every veilen is

Eules cisant institus

Euler path bu Connece és not 1 sue e # A connected finite graph contains on Eules path been not Eules cisuuit if degree of exacily two of its vestices are odd. defen gerey revents even

defen gerey revents even

defen gerey revents even

and contains Euler cisued.

Graph is Eulerians

Euler a-b-c-f-e

cisuit a-d-6-e-d-g-h 1) Not Cartains Euler circuit

Not Euleriam graph

(2) Cartain Euler path but not Euler Circuit. 6-c-d-a-h-i-g-d-f-e-d -i-6-a-3 C 3 A D

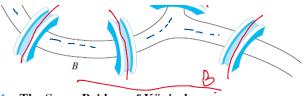


FIGURE 1 The Seven Bridges of Königsberg.

2 B