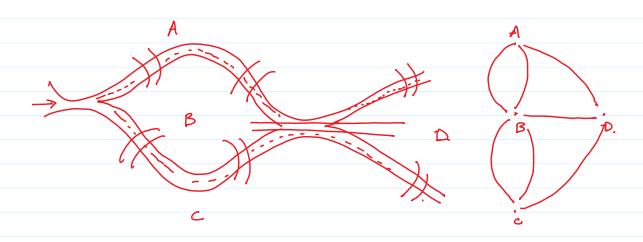
lecture 242 Sessona.

Leeture 25: EULER PATH / Circuit.

1737 Konnigsburg (Russia).



EURER PATH: if each & every edge is traversed exactly once.

EULER Cravitis if the Starting & edding is the Same Vertex & each and every edge is traversed exactly once.

 E_{K} S72 $E_{C} = V$ $E_{C} = V$

Chedes for Eula Palhs & Circuit.

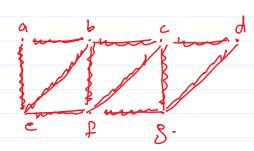
theorem 2: A Connected graph with attent two
PS74 Vertices has a Euler Coscuit of Enough of

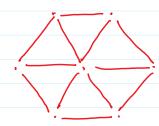
Each of its Vextex has even degree.

theorem 2: A Connected Simple path
graph has a EP lent z No Edge Repeatition.
No EC if Gif it
has exactly two Vertices of odd degree.

<u>Evy</u> 575





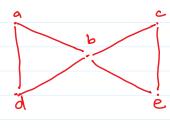


Hamilton pail la Circuit.

E K5 :





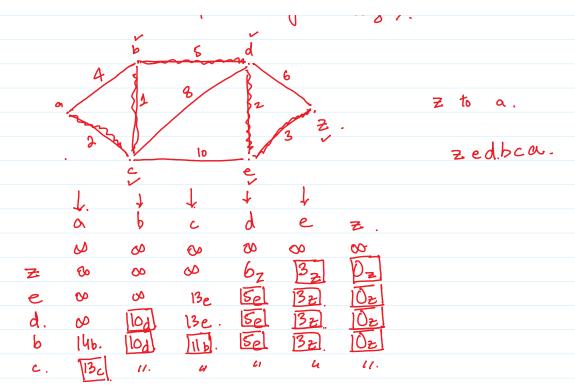


HP2V HC2V

HPZ W.

HPZ V HCz X.

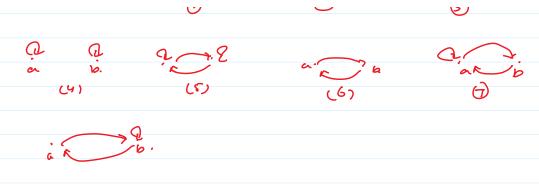
Shortest Paih (Dijistra Algo).



Sessiona II.

(a2)
$$|z|(ab)|a-b|z|^2$$
 $|z|(ab)|a-b|z|^2$ $|z|(ab)|a-b|z|^2$ $|z|(ab)|a-b|z|^2$

(114), (411), (313), (112)?. A={1,2,3,43. ly luxive. & (111), (2,2), (3,3), (4,4), (1,4), (4,1), (1,2)?. Symmetry & (1,4), (4,1), (3,3), (1,2), (2,1)?.



- E) R28(a,b)| a1b2b1a3 A2661, 467, 6a,67,64,63? 16 durents.
- 6) Rzá(a,b)) anbzø? Azáxy?.
 P(A) = (p, fxl, hy?, áxy??.

 9 elembs.

