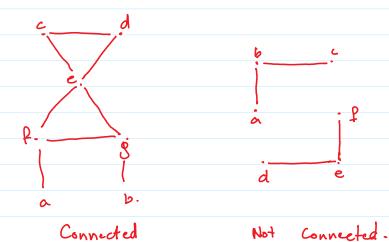
lec # 23:-

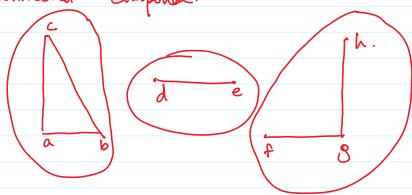
Connectivity.

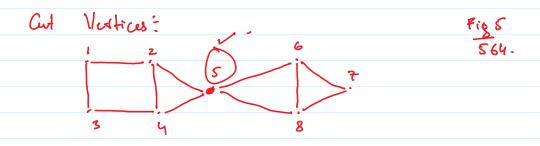
Connected Graph: 16 I a path between Every pair of distanct Vertices.

P563

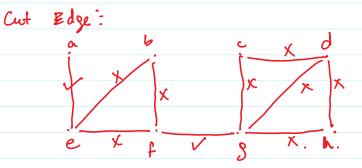


Connected Component.



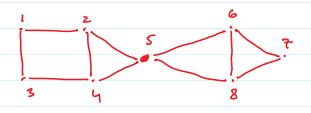


Cut Edge:



Cut Set;

1(2,5),(4,5) ~



Directed Graph.

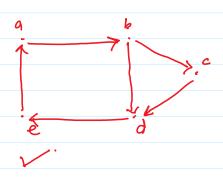
Strongly Connected: if I a path from 'a' to 'b' A

'b' to 'a' where Y a, b & V in a Graph G2 (V, 181).

Weekly Connected: if I a path +am 'a' to 'b' V.

'b' to 'a' where If a, b & V in a Graph G2 (V, E,).

PS65

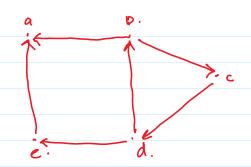




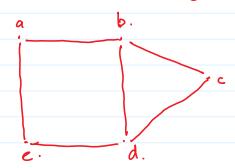
n b to a. a to b atoc n c to a 1 d to a. atod 1 eta. atoe A C to b. btoc bhd ad tob. Λ e tob. 6 toe ctod Adtoc. che de toc. doe a end.

a b.

atob V b toa.



alternate way to check weekly Connected.



weekly connected of Undirected graph has I connected component.

(Somoryhism.

1. Vuetros.

2- Edges.

3- Degrees.

4. Adj dipreces.

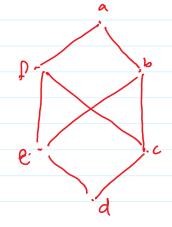
5- Cat Vertices.

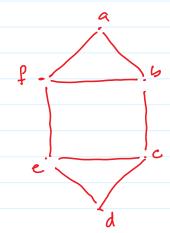
6- Cut Edges.

7- Circuits.

8- Assignment. 9- dueidance Matrix.

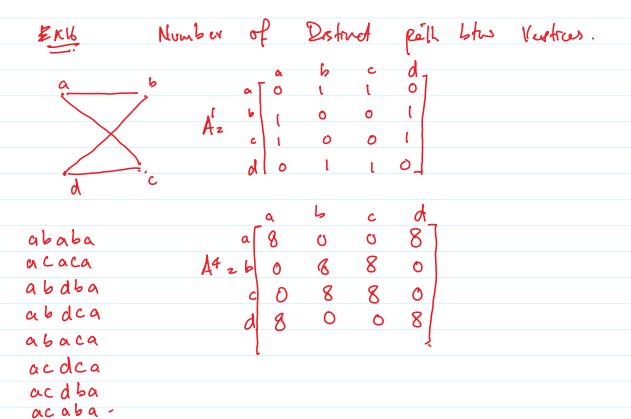
EK 15 566





a count of deg (2) 20

d Circuit of decr)20 X. (1) 22





Cut Vertex Cut Edge.