lecture 232 Sessiona.

lecture 24i-

Revision. Complete Dipartile.

K216.

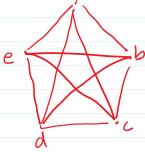


Sub Graph:

G = (V, E). H = (W, F).

WEV & F. CE. H is a Subgraph of G.

Vz faibic, dieiff. a



4

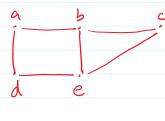
H .

FSE. F= { (a,b), (a,c), (a,e), (b,c), (b,e). (b,a), (c,a), (e,a), (c,b), (e,b)}. Wzfaib, c,e}

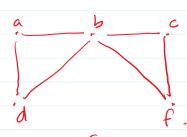
WEV.V.

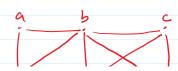
HSG. HW.

UNION & INTERSECTION.

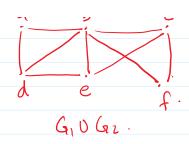


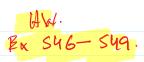
Gi





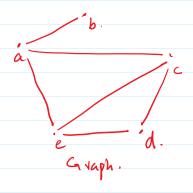
Hal. Ex 546-549.



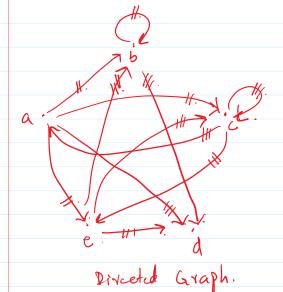


Graphs Representation.

1- Adja curay lost.



| Vertices. | Adjacent | Vertus. |
|-----------|----------|---------|
| a | bicie | |
| b | a | |
| C | areid | |
| d | cie | |
| e | a,c,d | • |
| | | |

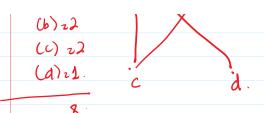


| Vortices. | Terminal Vortex. |
|-----------|------------------|
| a | b,c,e,d |
| ط | b, d |
| C | c, a,e |
| d | <u> </u> |
| ė. | b, c, d. |
| | |

(ASCII) HW.

| 2 | Incident | Matrix |
|-----------|----------|----------|
| | a | . b. |
| dog(a) 23 | | , |
| (b) 22 | \times | |
| (4) 22 | | |

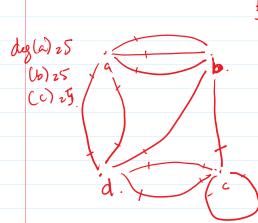
| | fow: | 5-2 C | olumn | 5 3. | Mertius 1. |
|------|--------|-------|-------|---------------|------------|
| | 1 a | 5 | 2 | ď | |
| 29 | 0 | 1 | 1 | 1 | 3. |
| 26 | 1 | D | 1 | 0 | 2. |
| 3 6 | 1 | 1 | D | 0 | 2. |
| 4 d. | g | D | 0 | \mathcal{O} | 1 |



2- if I a non-zero entry en Main dragonal. Then it is not a Simple Graph.

2- 1/3 an entry 71 -7. Not a Simple Graph.
3- The Possisse/ Columbisse Sum gives you
the degree of Vortices.

Graph - Matorx.



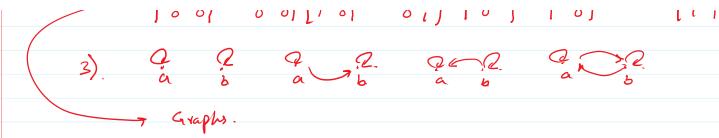
EXS PS51.

Sessional IP

)
$$||\mathbf{r}||_{2} = ||\mathbf{r}||_{2} = ||$$

$$2) \qquad \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} \qquad \begin{bmatrix} 1 & 1 \\ 0 & 1 \end{bmatrix} \qquad \begin{bmatrix} 1 & 0 \\ 1 & 1 \end{bmatrix} \qquad \begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix}.$$

$$\begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \begin{bmatrix} 1 & 0 \\ 1 & 0 \end{bmatrix} \begin{bmatrix} 1 & 0 \\ 0 & 0 \end{bmatrix} \begin{bmatrix} 1 & 0 \\ 1 & 0 \end{bmatrix} \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} \begin{bmatrix} 1 & 1 \\ 0 & 1 \end{bmatrix}$$



- 4). { \andier, \biciff? \squares \angle \angle \angle \circ \circ \frac{1}{2}. \squares \angle \angle \angle \angle \circ \angle \angle
- 8) Red (a1b) | a1b 2 b1a? Acd dat d bt d a1b? d b1ct?,

 16 dements. AxA 2 d (dat hal),

= 14 clost. = (5 b, cl, 4 b, c3) \{.

6). Azáaibir? Pau (A) $z \neq p$, fa?, ---?.

Pau (A) xPau (A) z 64.

Right (a,b) | $a \land b \neq p$?

Right (a,b) | $a \land b \neq p$?

27 elmets.

03. 01,2,4,5

| | 03. Q1,2,4,5° |) | |
|------|------------------------|----|--|
| CLO: | 3, 4. | | |
| | <u>6</u> . <u>15</u> . | Τ, | |
| | = . = . | | |
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