





- (10) Let G = (V, E) be a graph. (V, E') & a subgraph of G of V' CV, E' EE, and for every edge e' EE, if e' is incident on v' and w', then v', w' EV
- $\lim_{A \to B} A X_{B}$
- 12) A component of a graph is a connect subgraph that is a subgraph will non connected graph. [Example 1] Example at right shows a non connected graph with 1) [X] two compents. [See Back of book for mathematical definition]

  (13) see #12
- (4) A connected graph has one component.
- (15) The degree of a vertex is the number edges incident on v.

Exercise

# 19 (a,a) (b,g,c,b) (b,g,f,d,c,b) (b,g,f,e,d,c,b)

(g,f,d,c) (g,fe,d,c) (d,f,e)

a b  $\frac{d}{d}$ a b  $\frac{d}{d}$ e And two of the three

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	V <sub>1</sub> - 2 V <sub>2</sub> - 2 V <sub>3</sub> - 3	N4 - 6 N5 - 2 N6 - 3	No - 4	√0 - 2		
25)		2) (N, N2)	NA - 4	$\left(\begin{array}{c} \left(\begin{array}{c} \left(\right) \\ \left( \left(\begin{array}{c} \left(\begin{array}{c} \left(\right) \\ \left( \left(\begin{array}{c} \left(\right) \\ \end{array} \right) \end{array} \right) \end{array} \right) \end{array}\right) \end{array}\right) \end{array}\right) \right) \right)$	er er	
	Six I quess	subgraphs, You an empty	es the 31x s graph is not			w */
27)		h- Book surp here as	•			
(n)	( 12) ( 13) ( 15) ( 15) ( 15)	bout that.	one edge each $(v_2, v_3)$		1-eds, 2-edses N. N. v. v.) (V. V. v.) 3 3	(NI 22.0)