

Date. No.
SIMPLE PATHS W/length of 3.
V= 2(1,5,6,3), (2,1,5,4), (2,1,5,6),
(5,4), (6,1,5,4), (6,1,2,4) 5
SIMPLE PATHS WI length of 4:
V= {(2,1,3,6,3), (5,6,1,2,4)}
SIMPLE CYCLE W/length Of 2:
$V = \{(1,2,1), (2,1,2)\}$
" w/ length of 3.
V= {(1,5,6,1), (5,6,1,5), (6,1,5,6)}
In degree of mode 1 ? V = 2 2,6 }
" 41 " mode 2 = V = 1
v " node 3; v = 6
11 11 mode 4: V = {2,5}
n 11 " hode 5: V = 1
" " hode 6: V = 3

				Date. No.	
	Dut	degree	36	node 1. v = {2,5}	
TI	γ	11	ч	node 2 : V= { 1,44	
	N	11	11	node 3 : V=	
	"	. N	1)	mde4: V=	
	11	1)	1)	mode 5: v= 24,6}	
	Ŋ	11	V	node 4: 1= 21,34	
	verti	usadja	cent	to node 1: v = 22,63	
				node 2 V = 1	
				mde 3. V = 6	
				node 4 : v = 22,5}	
1-01				node 5 . V = 1	
			١	node 4: V = 5	
	vert	ice adjoi	cent :	to node 1. V=22,56	
		V		node 2: V= 21, 45	
				node 4 , V=	
	mode 5 . V = 2 4, 6 6				
				node u: V= {1,3}	
				•	

No. Date. Edger incident to node 1. E= 2(1,2),(2,1),(1,5),(4,1) 5 mode 2. E= ((2,1), (1,2), (2,4) 4 hode 3 t= 2(6,3) hode 4: t= d(2,4), (5,4)} hide 5. E = of (1,5), (5-4), (5,4) by t= 2 (4,1), (6,3), (5,6) }

Give the Formal description of the directed graph. G10 = { V10, F10} V10 = 21,2,3,4,54 to= d(1,4), (2,1), (3,1), (3,4), (4.1), (4,3), (4,3), (5,2) b Groph Gro : y = & (1,4,3), (1,4,1). PATHS w / length of (1,4,5), (2,1,4), (2,5,2), (3,1,4), (3,4,3), (3,4,1), (3,4,5), (4,1,4), (4,3,1), (4,3,4), (4,5,2), (5,2,5), (5,2,1) 6 length of 3: v= { (1,4,3,1), (1,4,5,2), (2,1,4,3),(2,1,4,5),(3,4,5,2), (3,1,4,3),(3,1,4,5),(4,3,1,4), (4,3,2,1), (5,2,1,4) length of 4 iv = { (1,4,5,2,1), (2,1,4,5,2), (3,174,5,2), (3,4,5,2,1), (4,5,2,1,4), (5,2,1,4,3), (5,2,1,4,5)

SIMPLE PATHS W/length of 2. V= ((1,4,3), (1,4,5), (2,1,4), (3,1,4), (3,4,1), (3,4,5), (4,3,1), (4,5,2), (5,2,1)4 Wllength of 3. v= } (1,4,5,2), (2,1,4,3), (2,1,4,5), (3,4,5,2), (3,1,4,5), (4,5,2,1), (5,2, 1 (4) Y w llength of a. V= { (3,1,4,5,2), (3,4,5,2,1), (5,2,1, 4,3) 4 SIMPLE CYCLE W/length of 2. V= 2(1,4,1), (2,5,2), (3,4,3), (4,1,4), 1 (4,3,4), (5,2,5) 9" w/ length of A: V= \(\((\,4,3,1)\), (3,1,4,3), (4,3,1,4)} " v/length of q. N= {(1, 4, 5, 2, 1), (2, 1, 4, 5, 2), (4, 5, 2, 1, 4) 1 (5,2,1,4,5) }

Indegree of node 1: v= d2, 3, 45

node 2 , v = 5

mde 3 1. V = 4

node 4: v = 21,3}

node 5: V= {2,4}

outdegree of mode inv=

41,54

node 2 . V =

71,44

mode 3 . V=

mode 9: V = 11, 3, 54

mode 5: V = 2

vertices adjacent to node 1 i V= d 2,3,44

hode 2 , V = 5

node 3. V= 4

node 4 1 V= 21,34

node 5 (V= 22,44

vertices adjacent from node 1. V = 4

node 2 , V = { 1,5 }

node 3: V= 21,45

node 4; V= 21,3,59

hode 5 : V= 2

Date. tages incident to node 1: $E = \{(1,4), (2,1), (3,1)(4,1)\}$ node 2. E= 2(2,1)(2,5), (5,2)9 mode 3. (3,4), (4,3)5 mode 4 t=9(4,1),(4,3),(4,5),(1,4),(3,4)node 5; E=(5,2), (2,5), (4,5)4