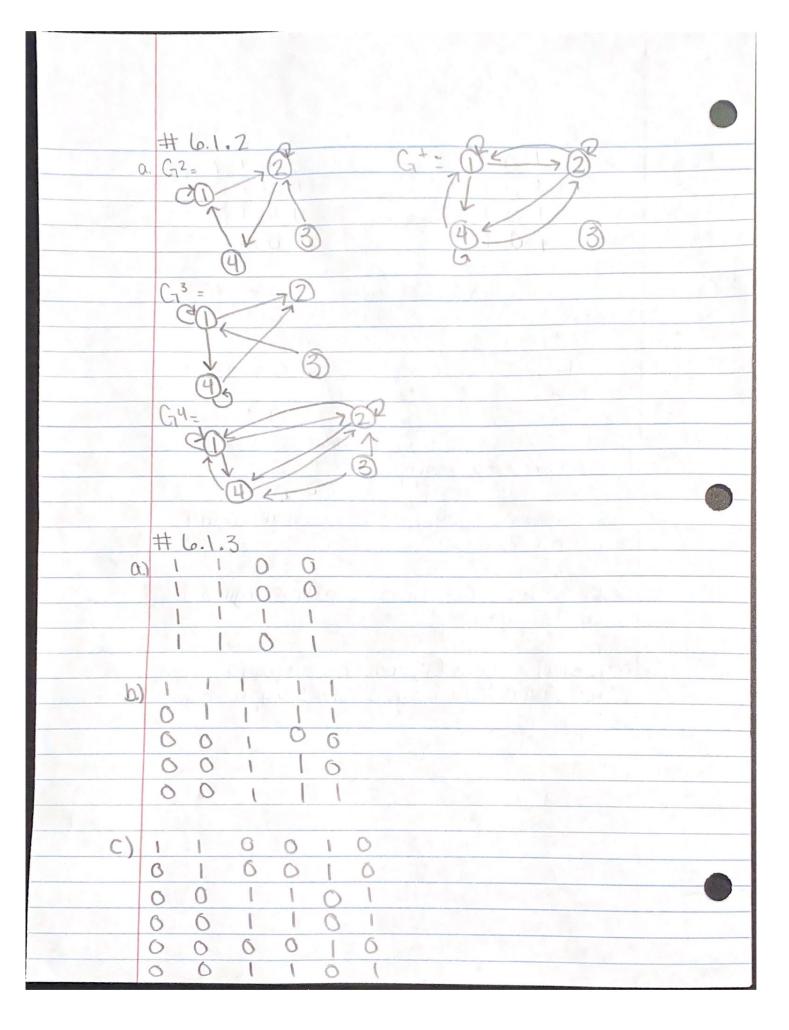
	Jalen Powell 10/3/2021
A.	Comp 3240
	Hw 6
1/2/2	
	# (0.1.)
G.)	No. (a, b) is not in G2; it lakes either lor)2
	length to reach b from a
b	Yes. (b, e) is in G3; because there is a path of
	length 3 (b > c > f > e) to reach e from b.
C.	No. (g,g) is not in G3; it takes either 2 or >3
	length to reach g from g.
d	Yes: (g,g) is in G4; there is a path of length 4
C(e	to reach g from g.
e.	Yes. (b, b) is in G3, there is a path of length 3 to
	reach b from b.
2	No, (b, d) is not in Go, there is n't a post of length
10	5 to reach a from b; it is either 2,3,4, but not 5



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(0.2.2 0.) A= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
b) A ² = A·A 000000 000000 010000 1000000 100000 000000 010100 000000 000000 00000 100000 00000 00000

()	The 4 vertices are (V2, V4, V5, V6) can be reached
(.)	From vertex Vy by length 2
	Tropic version of the second s
g)	The vertices V1, V4, and V5 con reach vertex V2
	by walk of length 2
	# 6.2.3
(Ja)	The vertices that reach 2 with walk of 3 are
	V2, V4, V5.
b.)	The out-degree of 4 in closure is 5
c.)	There is no walk of 4 from 4-5
9.	Entry is 1, so (2,2) is there in closure
e.)	No, the entry is (at A3 (5,3)
t')	Yes, there are entries 1' for A3(1,1), A(2,2),
	A3(3,3). There are 3 circuits with length 3.

	# 6.3.1
0)	The minimal dements of the partial order
	are {J, I, A, F}
1-1	The positional places will act the provider
0.)	The maximal elements of the partial order ore {J, H, D, G}
	ore 20, H, V, CIS
0.)	The comparable pairs are (A,D), (C1,F), (D,B),
Edward of the	(H, T) only.
	# 6.4.1
0)	Not necessarily an equivalence relation. The
	Statement ob not state that the relation P is
	transitive.
10)	
0.)	Equivalence relation. Reflexive, the person has
	the same mother as herself or himself as one individual. Symmetric and transitive.
	THATOTOGOTH. SHITTINE WITH STATES
C.)	Not an equivalence relation. The relation S is
	not reflexive because a person cannot be
and the second	married to himself / herself
d.)	Equivalence relation. Reflexive, Symmetric, and
	transitive
e.)	

	#6.4.2
a'	XDy is Reflexive, Symmetric, and transitive.
4 1 1 1 1 1	XDy is Reflexive, Symmetric, and transitive. Partition of [2] = { 2,34} = equivalence class of [34]
	Fair along the of [7] 1700.31 = F. Classof Louise
	F. 01065 OF [13] = {13,17} = E. Class OF [17]
	E. closs of [13] = { 13, 17} = E. closs of [17] E. closs of [44] = { 44,56,4} = E. closs of [54], [4] Partitions of D = { 2,34}, { 7,99,31}, { 13,17}, { 44,56,4}
	Partitions of D= {2,34}, {7,99,31}, 213,715, 249,56,45
	# 6.4.3
a)	Let (x, z) + P+ 1P
	there exist an element y + A such that
	(x,y) & P and (y,z) & P
	Since p is Symmetric relation
	(y,x) + P and (z,y) + P = (z,x) + P+ : P+ is transitive relation
	P+ is symmetric relation
	1 to agrimente reastor
b.)	Pis reflexive and symmetric relation on set A
	P+ is reflexive relation
	P+ 15 equivalence relation
C.)	Yes, R= {(1,2), (2,1), (2,3), (3,2)} an
	A= {1,23,4}
	Them $R + = \{(1,1), (2,2), (3,3), (1,2), (2,1), (2,3), (2,3), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3,2), (3$
	Them $R + = \{(1,1), (2,2), (3,3), (1,2), (2,1), (2,3), (3,1)\}$
	not equivalence
	R+ is not reflexive
Section 1	