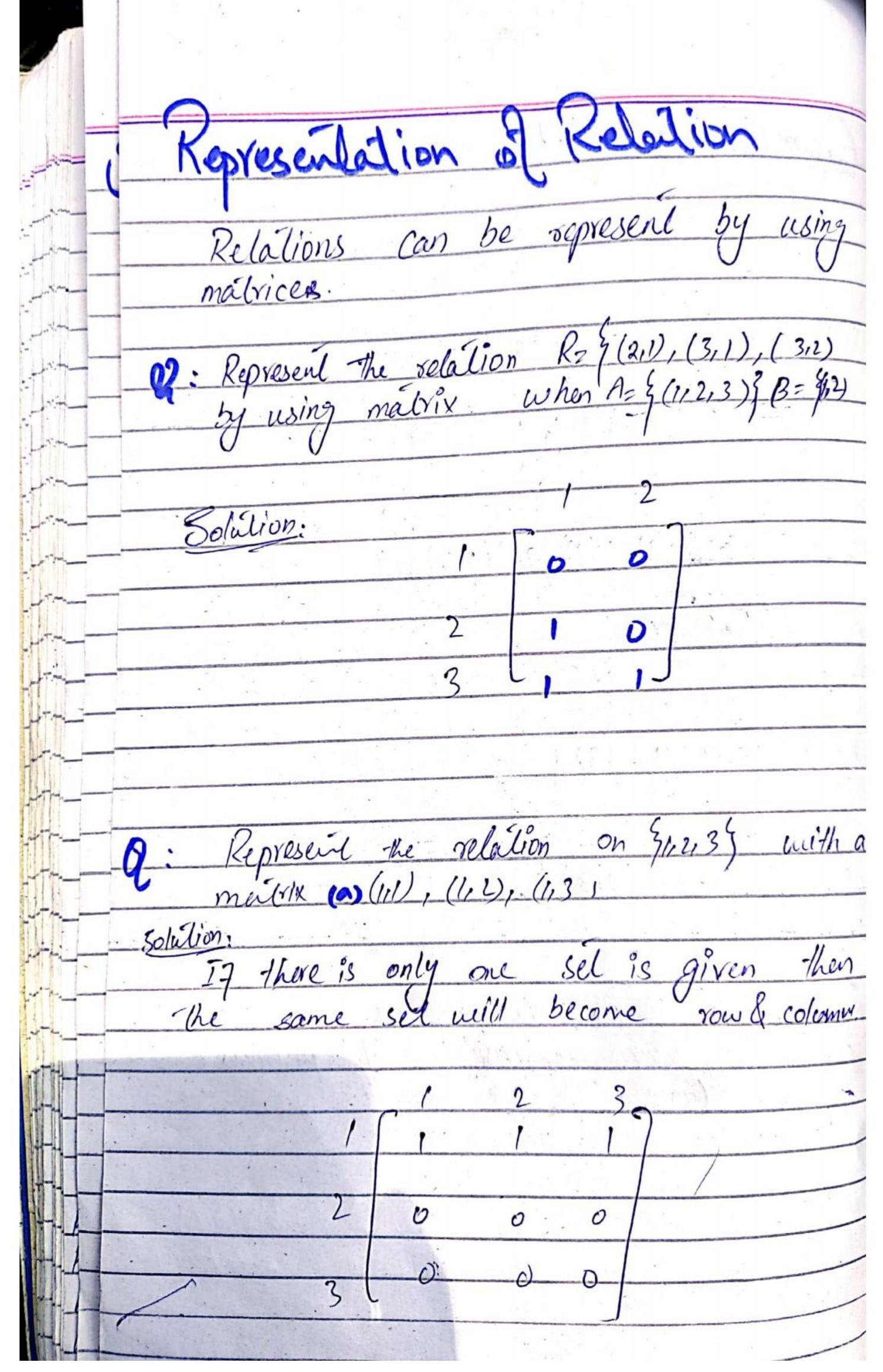
0 5 1 1 2 2 1
1 = 4 (a,5). 1 a = 9
= (1,2), (1,2)
1368 outies
Example: Consider these relations on the set of
inlegers
Ri= S(a15) / a153
$R_2 = \frac{9(a_1b)}{a_1b_2}$
R3= \( \( \arrangle \) \( \arr
$R4 = \frac{6}{3} (a_1 b_1) / a = b_3$
R5= \( \text{(avb)} \) \( a = b + 1 \) \( \frac{1}{2} \)
Which of these relations contains each pais
(11), (1,2), (2,1), (1,-1), (2,2)?
Solation .
$R_{12} = (11), (1,2), (2,2)$
R= (21), (11-1)
R3= (11), (11-1), (2,2)
Ry = (11), (2, 2)
Ry = (211)
80
Pair (111) is in relution R1, R3, R4
Pair (1,2) " " RIFE
Pair (211) 11 11 11 R2, R5
Pair (11-1) " Ra, R3
Pair (22) a 4 4 R1, R3, R4
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Equivalance Relatin The relation which have all the three above relations the transitive symmetric & reflexive, then it will be equivalance relation R= {(11), (2,2), (1,2), (211), (1,3), (2,3 relation: than one more newing Pelection Examples relation Scanned with CamScanner n-ary 3,4

ombining Kelations. Relations are combined using union & intersection procedures. Example: R12 { (11) (1,2) (1,3) } R2= {(2/1) (1/1) (2/3) RIUR2 = 3 (11) (1,2), (1,3), (2,1) (2,3) Rally = Called

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These procedures are called combining or composition of positions of relections.



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2	[0+171 0+170 0+0+1]
	01/10 1/1/10 1/0/0
	(070+1 1+010 1+011)
	2 1 17
	1 2 1
- Q:	[D, D]
	1R= 10 MR2= 01
1 (3)	1 MR, UMR2 = ?
M	RIOMR2 = 0.1.0
	It is like Ol'operation
	10
(3)	1R, 1 MR2
MARI	2 MR2 [ 0 1 0 ]
	Il is like AND Openation

(F)	
0	
	<i>b</i> :
	100 -1ha -151:
-	USI the order pours in the relation
	by direited graph . a.
	-C-1-1-04
_	20 Culton
	0 3/06) / 125 ( )c
	12/(a,0), (a,c), (b,c)(c,b)
-10	
	Partial Ordering
	- Control Cont
	T
	the relation in which reflexive
1	relation, auti symmétric and transitive
	volations are présent is called
	Dax Val ordening
3	
0	Example:
- the	S= 3011,25
-	R= { (010), (111), (112), (2,2), (3,3)}
10	
1	Col
7	800;
	This relation is partial ordaning
	because it support all
	x08/0xive (i.e (010), (11))
	5/1/1 (1) (1) (1) (1) (1)
	antisymmetric (i.e (v1) ((110, (2,2), (3,3)) and (xcursitive relation (i.e (1,1),(1,2)).
	Transitive relation (i.e. (1/1)(1/2)).
	(1,) (4,2)
-	(1)1 b c
-	50 / 01
-	good (11d).
	which abready.
	EXISIS
- 771	