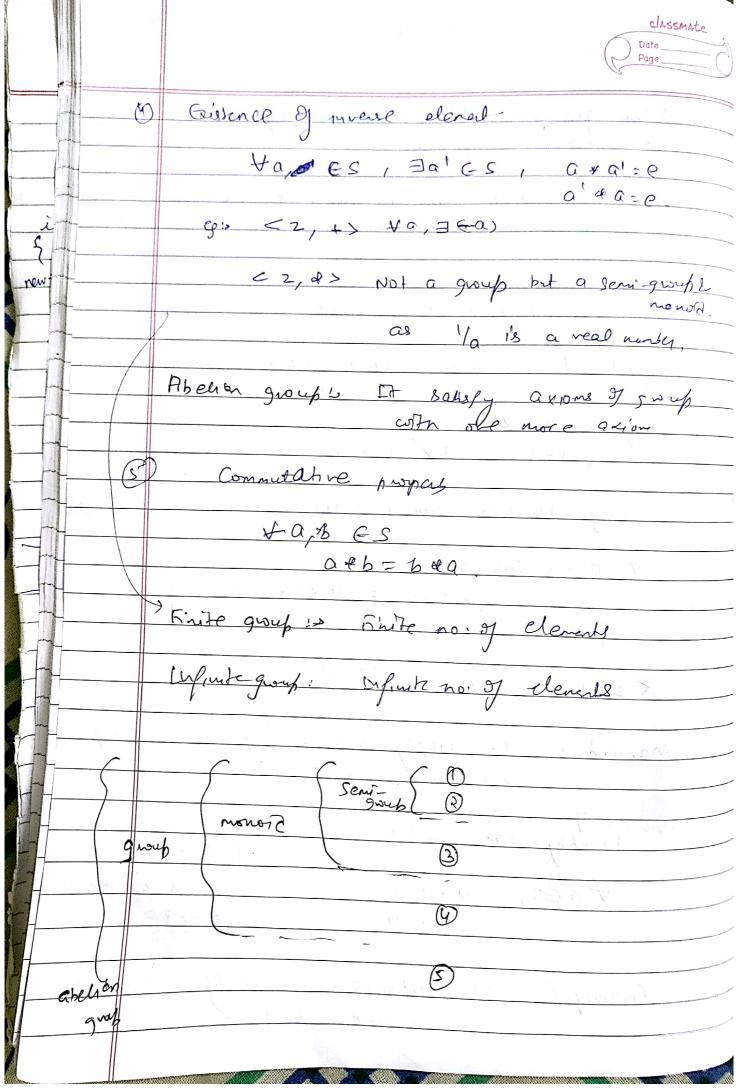
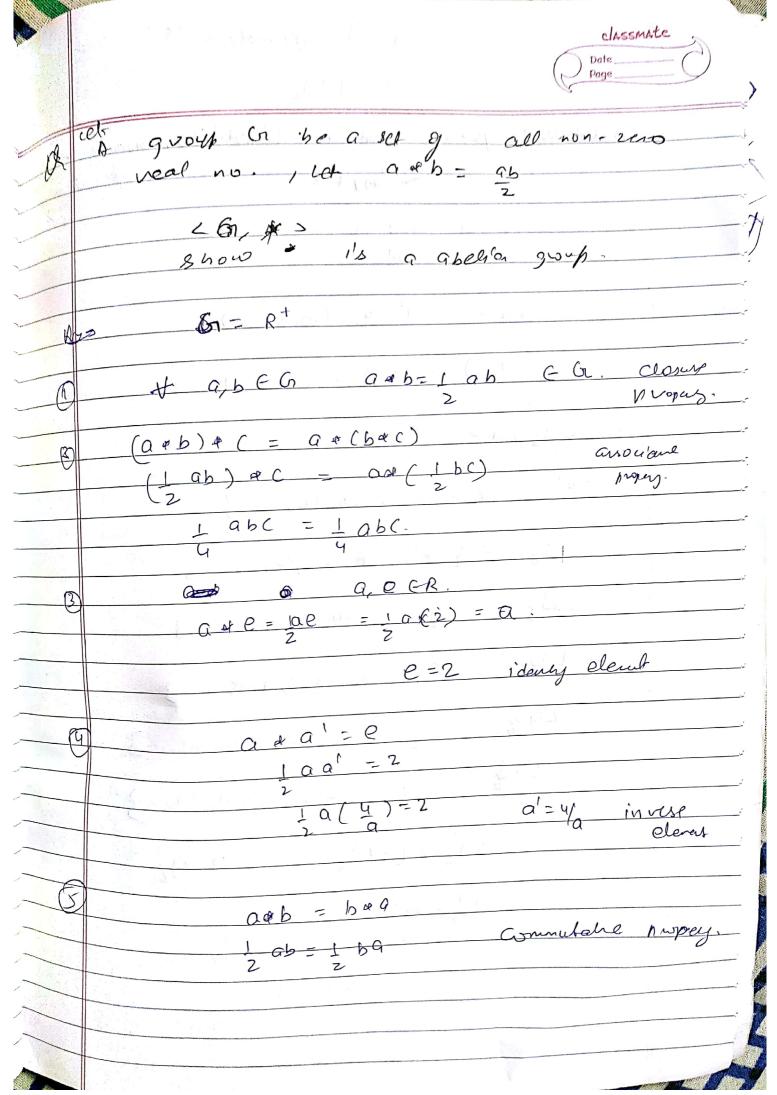
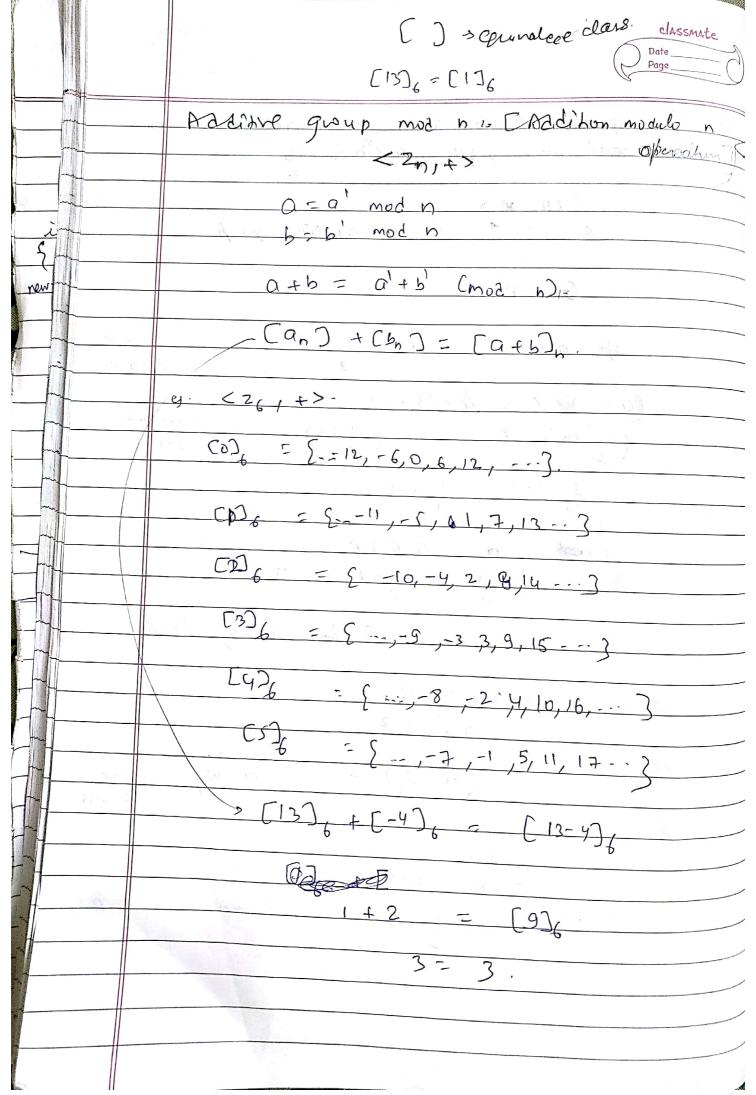
	Date Page
	Group Theory
distance of the second	Algebrie Structures:
	Carrier of Angebra: on which underlying set we are going to
-	
3)	Operations defined on carrier
3	
The state of the s	7 * genuic operation
	? Identity elevent: to perform using identity elevent we get the the
•	some element back,
	De additions identity clered.
	tacz, ecz
	let axe=a exa=a
	Liver clant is to form very a trease deally alerent.
***	elent u get de denty
	Ja/62 1030'62
	Gva = C







	Coyley To 51e
and the same	Cayley Table Por <26, +>
Paris de la companya	
	- 1 2 3 4 5
	2 0 1 2 3 4 5
	tal - Back Classic
	0 0 1 2 3 45
	1 1 2 3 4 5 9
	2 2 3 4 5 0 1
	3 4 5
	4 5/0/123
	5-5-0/234
	$ala_{i} + ala_{i} + ala_{i}$
(m)	Identity element = 0.
4-4	inuse elect of 5:00
	1 - 128 n < Zn * -)
	multiplicative group model n < Zn , -)
	€Zn*, x).
	multilicative.
	7-7-1
	O worth to ta loen as
	or 1 2 3 4 phonse of a point
	1 2 3 4 charse as a court
	$2 2 4 1 3$ $Qx = 1 \mod n$
\	3 3 1 4 2 ax = 1 millionhore
\	y y 3 2 1 multiplicative.
	3x=1 mod 5
1	If n = Inine no, it is a
	If n= frie no, it is a much pricative group. M= 2 is a multiplicative of 3.
	much plication

Cmulhple mulhimicare enters) X=-3 also arc

< 212°. a> 3 con se a group.

only when then the slenes al co-pure to In1.

= 81,5,7,113 for coch same tanker work 9)

C200, .> → €1,53 Cohma to 6.

546-group 1-

la G be a group, his subsect of G (GCG) binary operation (#) 1 then we call it

Just enough to check closure & is verse

En, as be a group ender binary openhan its identity

element.

h = G

y = 3a C-G

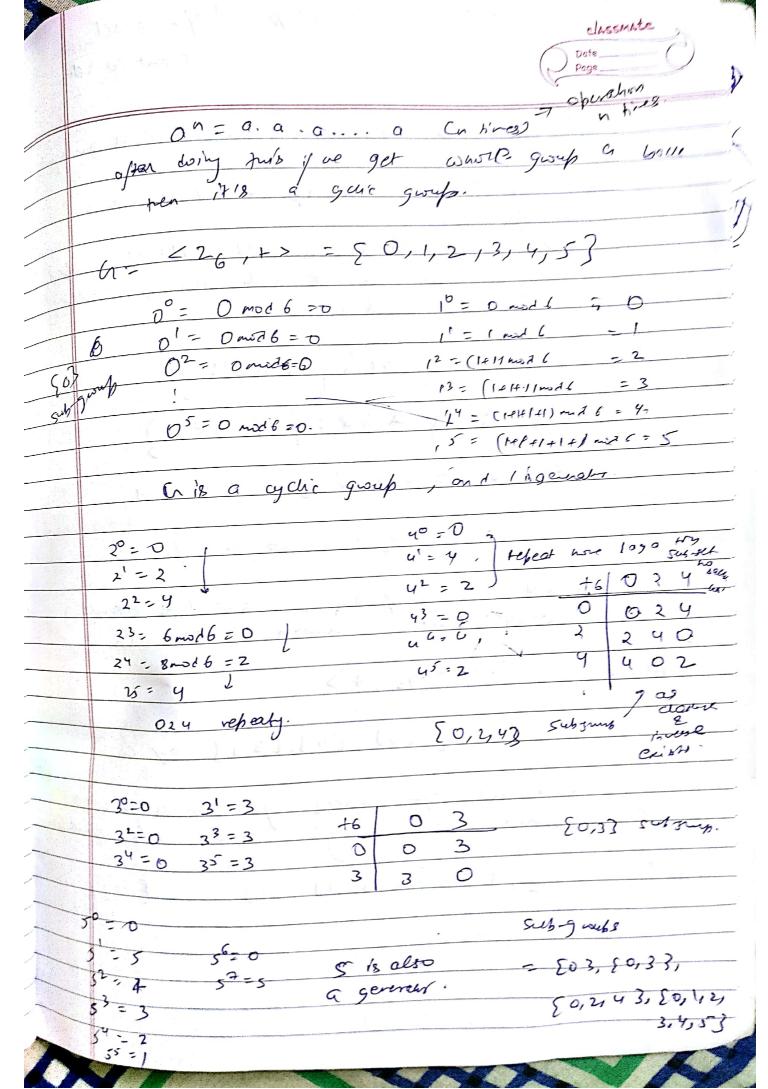
the group can

be generated using the integral

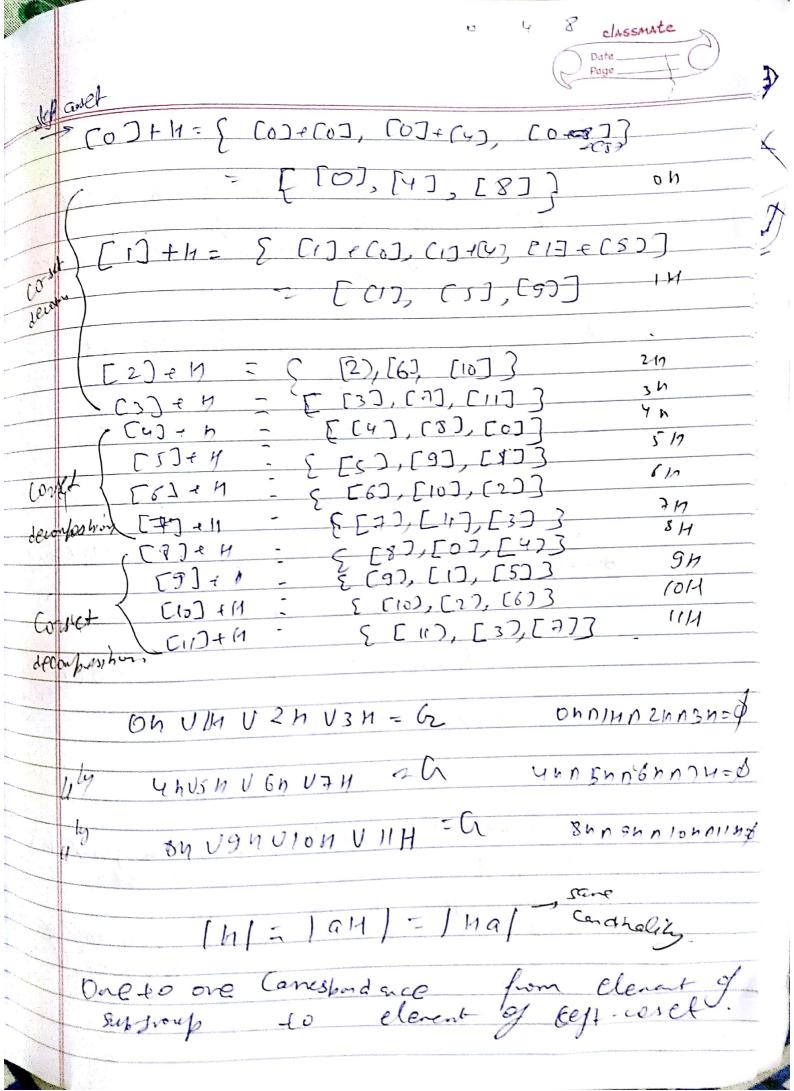
hover of an cle 1a1 then that

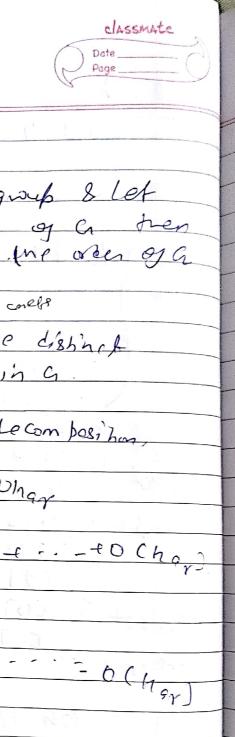
group and a is called as equic group,

and a is called as generates



	if it is an abelian grup 21001
Section and the section of	if it is an anchon grup 2 left co-relassmate = Mout contest
	lest coset & right cosets: For a group on
	Let < Co, or > be a group & (h, or) be a
	For any QEG, me set 911 is called left co-set & the set ha 18 called Pright coset.
	ah = Eath HACH]
	ha= [ahaa] + heh]
	4G, x>= 9,4 U 92h U 9/2 H.
17 0 - 1 T	9, M N 9, M N N R N = p.
1 S	Whose coset umbn gives Co
(9)	(n = < 2,2, +)
	h = { (0), (4), (8)} of a.
	Obtain corresponding corset decomposition
Avs	$\langle 2_{12}, + \rangle = \{ c_{01}, c_{11}, c_{21}, \dots [11] \}$
	0 0 4 8
	8 8 0 9





lagrange's nearen ~ if < 6, 0 > 16 a finite group & let (11, 10 be the Sub-group of a tren me orcer of 4 divides (ne over of a (condination) let ha, ha, ha, he dishinch right coseds of n in G. Pule of Migula Coset de com position Ca = ha Ulta V - - Ulnay Cendinary = 0(hq,) = 0(hq,) = -. -+0(hq,) O(1) = 8 * O(1) 8=10(G)/O(h). cet a be a group with sub-gwell Me

(i') condinally of a i's 660.

Condinally of Ke 1'e 66.

What are people value of continuely of

1(1) - 5/11/1

	classmate Date Page	>
	660 = 7, 1 M 660 = 7, 82 66	-/
	$660 = x_1 11 660 = x_1 x_2 66$ $ 11 = x_2 66$ $x_1 x_2 = 10$	7
	$\gamma_1 \beta_2 = 0$	7
	γ1, γ ₂ · ε(,10)	
	= (1011)	-
	= (215)	-
-	= (S/2),	-
	660= 31(11)	-
	H1 = 660	
	57	
	[4/= 5 660, 66, 330, 132]	
	la talenta de la constanta de	
144		
1 200		