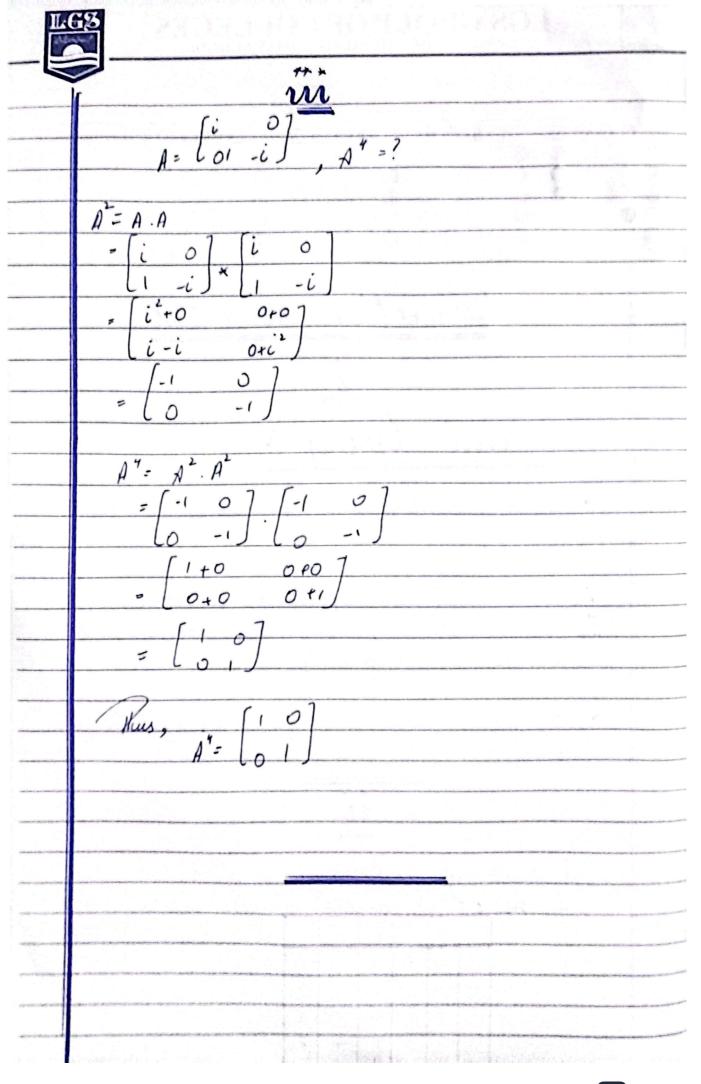


## LGS GROUP OF COLLEGES A PROJECT OF LAHORE GRAMMAR SCHOOL

Name:	Daiys	Mehdi	Class:/	(Re-eng) Roll No.	01	
Subjec	t:	aths	Teşt No	Date: 23	-11-24	
000000000000000000000000000000000000000		<b>3 6 0 0 0 0 0 0 0 0 0 0</b>		<b>4 9 9 9 9 9 9 9 9 9</b>	Marks Obtained	
		Ques	tion r	10: <u>02</u>		
			<u>i</u>			
	Seni-Group:					
	group if,					
	group if,					
	i It is closed with respect to an operation x					
	if it is closed with respect to an operation x:  ii The operation should hold closure and  associative properties only.					
	associative properties only.					
	· & semi-group satisfies half of the					
	· A semi-group satisfies half of the conditions seguired for a group.					
	The	Table of me	ultiplication	n of the e	lements	
	of_		residue d	n of the elasses mod	ulo 5	
		000	2 3 4			
		101	2 3 4			
		2 0 2	4 1 3			
		3 0 3 4 0 di	93 2 1			



C.		N. T.	
SILIC	ent	Name:	

Question no 03
Let,  G = { All 2 x 2 non singular matrices }  = {A, B, C, I, A <sup>7</sup> , B <sup>-</sup> , C <sup>7</sup> ,}
Closure:  Set 'G' is closure under  operation 'because
$\forall A, B \in G$ $A.B \in G$ .
Associative:  The operation '.' is  Associative because.  V A, B, C & G
Jdentity:
I. = [ ] is the Identity element
under '.' because $V  A                                 $
Invesse:  Invesse of each element
exists in G be cause all elements is matrices, are non singular  V AGEG F N'EG  A.A'= I = N'A

