			Seu	inor 1			
1.1		+			*		
	۸J	Yes	No.	No	Yes		
_	Z	yes	Aer	Nο	yes		
	9	Hes	Yes	* ملا	Yes		
	\mathcal{R}	Yes	Yes	No*	Les		
	C	Aes	Yes	100 ★	Yes		
* / *	o dofo			t ca nu se			
7 100	e caqua	w he w	~ 51 , ~ , ~ (1	to me se	proof limpi	artila 0)	
1.4 X 3	4y = x+;	1+xy. F	nove that	C :			
	8000		aus svitetu				
1. " * "	well	defined					
x∈′	R /= x.	YER 1					
4 e	R/		V44 6 P 1-5 4	+ h - well defi	400		
X-T	R = x+y &	-R	× × 7 6 1/2 2->	· · · · · · · · · · · · · · · · · · ·			
Jerk	7						
2. as	ociativity	-					
			& =× (4*&)			
		(0.000)	X+1/1 + xy + 2 + >				
(,,7,,	~ (/// 3						
			x+y+& + xy+	72 72	-> "+" c	associative	
x* (4*	æ)= x+(y		x+4+2+42+x				
			×13121×3	+x&+y& +xy2			
3. veut	ral ele						
			=x, &) x ∈ 1				
			(1) _0 -0 P = 0.4	_ TP			
			=> X=-n,	(+) x∈R, false	.i /⇒e=o		
1							
4. Conun	trostron	4					
grow (N),	(a),(3),(4)=	=) (R +)-	commutative	monai			
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(1/) ~ /	3	177-0-00-00			
i) E-1			where of (TR,				

XIM=) we can take x= n+ K, (4) KEN*

gcol(M·K,e) = n. K=) e= n. esn	
m') Fill in the table operation " *" on D6	
DG= { x = 1 x 6 y => x = 1 , 2,3,6}	
# 1 1 2 3 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
3 1 3 3	
6 n 2 3 6	
1.6 all the finite substance of (Z, .)	
> 303, 313, 30,13, 3-1,0,13, 5-1,13	
1.7 (G, -) - group. Show that:	
i) G is abelian <=>(+)x,y=G,(xy12 = x²y²	
G is abelian group => 11. 11 is commutative => x.y=y.x,(4) x,y ∈ G	
$x_5 \cdot y_5 = (x \cdot x) \cdot (y \cdot y) = x \cdot y \cdot x \cdot y = (x \cdot y) \cdot (x \cdot y) = (x \cdot y)^2$	
$(xy)^2 = (x \cdot y) \cdot (x \cdot y) = x^2 \cdot y^2$	
$(x\lambda \cdot x) \cdot \lambda = (xx\lambda) \cdot \lambda \cdot \lambda \cdot \lambda = x\lambda x = x\lambda x = x\lambda x = x(x\lambda)$	
we know that xy=yx	
ii) Jt x2=1, 41x & G, then G-abelian	
$(\forall 1) \times (\forall e \cdot G, (xy)^2 = n$	
but also x2=y2=1	
=> (xy)2_= x2y2 ==> G-abelian	
1.8 "." - eperation on A, X, y CA, "*" op. on B(A)	
X *4 = \(\chi \chi \chi \chi \chi \chi \chi \chi	
(i) It (A,) is a mousid, then (B(A),*)_mousid	
1. " * " well defined on 3 (A)	