

Worksheet # 1  
Mathematics 309a Abstract Algebra  
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Complete these two tables to give operations for two non-isomorphic groups  $\langle \{e, a, b, c\}, * \rangle$  and  $\langle \{e, a, b, c\}, *' \rangle$ . Assume that  $e$  is the identity for both groups.

A.

*	e	a	b	c
e				
a		e		
b			e	
c				e

B.

*'	e	a	b	c
e				
a		b		
b			e	
c				