

# Definition of a Group

**Refs:** W.K.Tung, "Group Theory in Physics" (85)  
M.Tinkham, "Group Theory & QM" (64)

A **group**  $\{ G, * \}$  is a set  $G$  with a **multiplication**  $*$  such that  $\forall a, b, c \in G$ ,

1.	$a * b \in G$	<b>Closure</b>
2.	$(a * b) * c = a * (b * c) \equiv a * b * c$	<b>Associativity</b>
3.	$\exists$ unique $I \in G \ni I * a = a * I = a$	<b>Identity</b>
4.	$\exists a^{-1} \in G \ni a^{-1} * a = a * a^{-1} = I$	<b>Inverse</b>

Group  $\{ G, * \}$  is usually called simply group  $G$  and  $a * b, ab$ .

**Two easily proved theorems :**

1. Every  $a^{-1}$  is unique.

2.  $a * G = G$       **Rearrangement theorem**

# Group Theory And Physics

**RJ Shavelson**



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