Direct Products 1

General rules

(a) For point groups in the lists below that have representations A, B, E, T without subscripts, read $A_1 = A_2 = A$, etc.

(*b*)

	g	u
g	g	u
u		g

	/	"
,	/	"
"		,

(c) Square brackets [] are used to indicate the representation spanned by the antisymmetrized product of a degenerate representation with itself.

Examples

For
$$D_{3h} E' \times E'' A_1'' + A_2'' + E$$

For
$$D_{6h} E_{1g} \times E_{2g} = 2B_g + E_{1g}$$
.