



Taula de multiplicar del grup C_{4v}

C_{4v}	E	C_4^1	C_4^3	C_2	σ_{v1}	σ_{v2}	σ_{d1}	σ_{d2}
E	E	C_4^1	C_4^3	C_2	σ_{v1}	σ_{v2}	σ_{d1}	σ_{d2}
C_4^1	C_4^1	C_2	E	C_4^3	σ_{d1}	σ_{d2}	σ_{v2}	σ_{v1}
C_4^3	C_4^3	E	C_2	C_4^1	σ_{d2}	σ_{d1}	σ_{v1}	σ_{v2}
C_2	C_2	C_4^3	C_4^1	E	σ_{v2}	σ_{v1}	σ_{d2}	σ_{d1}
σ_{v1}	σ_{v1}	σ_{d2}	σ_{d1}	σ_{v2}	E	C_2	C_4^3	C_4^1
σ_{v2}	σ_{v2}	σ_{d1}	σ_{d2}	σ_{v1}	C_2	E	C_4^1	C_4^3
σ_{d1}	σ_{d1}	σ_{v1}	σ_{v2}	σ_{d2}	C_4^1	C_4^3	E	C_2
σ_{d2}	σ_{d2}	σ_{v2}	σ_{v1}	σ_{d1}	C_4^3	C_4^1	C_2	E

Classes del grup C_{4v} : $\{E\}$, $\{C_4^1, C_4^3\}$, $\{C_2\}$, $\{\sigma_{v1}, \sigma_{v2}\}$, $\{\sigma_{d1}, \sigma_{d2}\}$

$E C_4^1 E = C_4^1$	$E C_2 E = C_2$	$E \sigma_{v1} E = \sigma_{v1}$	$E \sigma_{d1} E = \sigma_{d1}$
$C_4^1 C_4^1 C_4^3 = C_4^1$	$C_4^1 C_2 C_4^3 = C_2$	$C_4^1 \sigma_{v1} C_4^3 = \sigma_{v2}$	$C_4^1 \sigma_{d1} C_4^3 = \sigma_{d2}$
$C_4^3 C_4^1 C_4^1 = C_4^3$	$C_4^3 C_2 C_4^1 = C_2$	$C_4^3 \sigma_{v1} C_4^1 = \sigma_{v2}$	$C_4^3 \sigma_{d1} C_4^1 = \sigma_{d2}$
$C_2 C_4^1 C_2 = C_4^1$	$C_2 C_2 C_2 = C_2$	$C_2 \sigma_{v1} C_2 = \sigma_{v1}$	$C_2 \sigma_{d1} C_2 = \sigma_{d1}$
$\sigma_{v1} C_4^1 \sigma_{v1} = C_4^3$	$\sigma_{v1} C_2 \sigma_{v1} = C_2$	$\sigma_{v1} \sigma_{v1} \sigma_{v1} = \sigma_{v1}$	$\sigma_{v1} \sigma_{d1} \sigma_{v1} = \sigma_{d2}$
$\sigma_{v2} C_4^1 \sigma_{v2} = C_4^3$	$\sigma_{v2} C_2 \sigma_{v2} = C_2$	$\sigma_{v2} \sigma_{v1} \sigma_{v2} = \sigma_{v1}$	$\sigma_{v2} \sigma_{d1} \sigma_{v2} = \sigma_{d2}$
$\sigma_{d1} C_4^1 \sigma_{d1} = C_4^3$	$\sigma_{d1} C_2 \sigma_{d1} = C_2$	$\sigma_{d1} \sigma_{v1} \sigma_{d1} = \sigma_{v2}$	$\sigma_{d1} \sigma_{d1} \sigma_{d1} = \sigma_{d1}$
$\sigma_{d2} C_4^1 \sigma_{d2} = C_4^3$	$\sigma_{d2} C_2 \sigma_{d2} = C_2$	$\sigma_{d2} \sigma_{v1} \sigma_{d2} = \sigma_{v2}$	$\sigma_{d2} \sigma_{d1} \sigma_{d2} = \sigma_{d1}$