	1a	8a	4a	8b	2a	8c	4b	8d	2b	8e	4c	8f	2c	8g	4d	8h	2d	8i	4e	8j	2e	8k	4f	8l	2f	8m	4g	8n	2g	8o	4h	8p
χ_1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
χ_2	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
χ_3	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1
χ_4	1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	-1	1
χ_5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
χ_6	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1
χ_7	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1
χ_8	1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1	1	-1
χ_9	1	E(4)	-1	-E(4)	1	E(4)	-1	-E(4)	1	E(4)	-1	-E(4)	1	E(4)	-1	-E(4)	1	E(4)	-1	-E(4)	1	E(4)	-1	-E(4)	1	E(4)	-1	-E(4)	1	E(4)	-1	-E(4)
χ_{10}	1	-E(4)	-1	E(4)	1	-E(4)	-1	E(4)	1	-E(4)	-1	E(4)	1	-E(4)	-1	E(4)	1	-E(4)	-1	E(4)	1	-E(4)	-1	E(4)	1	-E(4)	-1	E(4)	1	-E(4)	-1	E(4)
χ_{11}	1	E(4)	-1	-E(4)	1	E(4)	-1	-E(4)	-1	-E(4)	1	E(4)	-1	-E(4)	1	E(4)	1	E(4)	-1	-E(4)	1	E(4)	-1	-E(4)	-1	-E(4)	1	E(4)	-1	-E(4)	1	E(4)
χ_{12}	1	-E(4)	-1	E(4)	1	-E(4)	-1	E(4)	-1	E(4)	1	-E(4)	-1	E(4)	1	-E(4)	1	-E(4)	-1	E(4)	1	-E(4)	-1	E(4)	-1	E(4)	1	-E(4)	-1	E(4)	1	-E(4)
χ_{13}	1	E(4)	-1	-E(4)	1	E(4)	-1	-E(4)	1	E(4)	-1	-E(4)	1	E(4)	-1	-E(4)	-1	-E(4)	1	E(4)												
χ_{14}	1	-E(4)	-1	E(4)	1	-E(4)	-1	E(4)	1	-E(4)	-1	E(4)	1	-E(4)	-1	E(4)	-1	E(4)	1	-E(4)												
χ_{15}	1	E(4)	-1	-E(4)	1	E(4)	-1	-E(4)	-1	-E(4)	1	E(4)	1	E(4)	-1	-E(4)	1	E(4)	-1	-E(4)												
χ_{16}	1	-E(4)	-1	E(4)	1	-E(4)	-1	E(4)	-1	E(4)	1	-E(4)	1	-E(4)	-1	E(4)	1	-E(4)	-1	E(4)												
χ_{17}	1	E(8)	E(4)	$E(8)^{3}$	-1	-E(8)	-E(4)	$-E(8)^{3}$	1	E(8)	E(4)	$E(8)^{3}$	-1	-E(8)	-E(4)	$-E(8)^{3}$	1	E(8)	E(4)	$E(8)^3$	-1	-E(8)	-E(4)	$-E(8)^{3}$	1	E(8)	E(4)	$E(8)^3$	-1	-E(8)	-E(4)	$-E(8)^{3}$
χ_{18}	1	-E(8)	E(4)	$-E(8)^{3}$	-1	E(8)	-E(4)	$E(8)^{3}$	1	-E(8)	E(4)	$-E(8)^{3}$	-1	E(8)	-E(4)	$E(8)^{3}$	1	-E(8)	E(4)	$-E(8)^{3}$	-1	E(8)	-E(4)	$E(8)^{3}$	1	-E(8)	E(4)	$-E(8)^3$	-1	E(8)	-E(4)	$E(8)^3$
χ_{19}	1	E(8)	E(4)	$E(8)^{3}$	-1	-E(8)	-E(4)	$-E(8)^{3}$	-1	-E(8)	-E(4)	$-E(8)^{3}$	1	E(8)	E(4)	$E(8)^3$	1	E(8)	E(4)	$E(8)^3$	-1	-E(8)	-E(4)	$-E(8)^{3}$	-1	-E(8)	-E(4)	$-E(8)^{3}$	1	E(8)	E(4)	$E(8)^3$
χ_{20}	1	-E(8)	E(4)	$-E(8)^{3}$		E(8)	-E(4)	$E(8)^3$	-1	E(8)	-E(4)	$E(8)^3$	1	-E(8)	E(4)	$-E(8)^{3}$	1	-E(8)	E(4)	$-E(8)^3$	-1	E(8)	-E(4)	$E(8)^3$	-1	E(8)	-E(4)	$E(8)^3$	1	-E(8)	E(4)	$-E(8)^{3}$
χ_{21}	1	E(8)	E(4)	$E(8)^3$	-1	-E(8)	-E(4)	$-E(8)^3$	1	E(8)	E(4)	$E(8)^3$	-1	-E(8)	-E(4)	$-E(8)^3$	-1	-E(8)	-E(4)	$-E(8)^3$	1	E(8)	E(4)	$E(8)^3$	-1	-E(8)	-E(4)	$-E(8)^3$	1	E(8)	E(4)	$E(8)^3$
χ_{22}	1	-E(8)	E(4)	$-E(8)^3$	-1	E(8)	-E(4)	$E(8)^3$	1	-E(8)	E(4)	$-E(8)^3$	-1	E(8)	-E(4)	$E(8)^3$	-1	E(8)	-E(4)	$E(8)^3$	1	-E(8)	E(4)	$-E(8)^3$	-l	E(8)	-E(4)	$E(8)^3$	1	-E(8)	E(4)	$-E(8)^{3}$
χ_{23}	1	E(8)	E(4)	$E(8)^3$	-1	-E(8)	-E(4)	$-E(8)^{3}$	-1	-E(8)	-E(4)	$-E(8)^{3}$	1	E(8)	E(4)	$E(8)^3$	-1	-E(8)	-E(4)	$-E(8)^3$	1	E(8)	E(4)	$E(8)^3$	1	E(8)	E(4)	$E(8)^3$	-I	-E(8)	-E(4)	$-E(8)^{3}$
χ_{24}	1	-E(8)	E(4)	$-E(8)^{3}$	-1 1	E(8)	-E(4)	$E(8)^3$	-1 1	E(8)	-E(4)	$E(8)^3$	1	-E(8)	E(4)	$-E(8)^{3}$	-l	E(8)	-E(4)	$E(8)^3$	1	-E(8)	E(4)	$-E(8)^{3}$	1	-E(8)	E(4)	$-E(8)^{3}$	-l	E(8)	-E(4)	$E(8)^3$
χ_{25}	1	$E(8)^3$	-E(4)	E(8)	-1	$-E(8)^{3}$	E(4)	-E(8)	1	$E(8)^3$	-E(4)	E(8)	-1	$-E(8)^{3}$	E(4)	-E(8)	1	$E(8)^3$	-E(4)	E(8)	-1	$-E(8)^{3}$	E(4)	-E(8)	1	$E(8)^3$	-E(4)	E(8)	-l	$-E(8)^{3}$	E(4)	-E(8)
χ_{26}	1	$-E(8)^{3}$	-E(4)	-E(8)	-1 1	$E(8)^3$	E(4)	E(8)	1	$-E(8)^3$	-E(4)	-E(8)	-1	$E(8)^3$	E(4)	E(8)	1	$-E(8)^{3}$	-E(4)	-E(8)	-l	$E(8)^3$	E(4)	E(8)	1	$-E(8)^{3}$	-E(4)	-E(8)	-1 1	$E(8)^3$	E(4)	E(8)
χ_{27}	1	$E(8)^3$	-E(4)	E(8)	-1 1	$-E(8)^3$	E(4)	-E(8)	-1 1	$-E(8)^3$	E(4)	-E(8)	1	$E(8)^3$	-E(4)	E(8)	1	$E(8)^3$	-E(4)	E(8)	-1 1	$-E(8)^{3}$	E(4)	-E(8)	-1 1	$-E(8)^{3}$	E(4)	-E(8)	1	$E(8)^3$	-E(4)	E(8)
χ_{28}	1	$-E(8)^3$	-E(4)	-E(8)	-1 1	$E(8)^3$	E(4)	E(8)	-l	$E(8)^3$	E(4)	E(8)	1 1	$-E(8)^{3}$	-E(4)	-E(8)	1 1	$-E(8)^{3}$	-E(4)	-E(8)	-1 1	$E(8)^3$	E(4)	E(8)	-1 1	$E(8)^3$	E(4)	E(8)	1	$-E(8)^{3}$	-E(4)	-E(8)
χ_{29}	1	$E(8)^3$	-E(4)	E(8)	-1 1	$-E(8)^{3}$	E(4)	-E(8)	1	$E(8)^3$	-E(4)	E(8)	-1 1	$-E(8)^3$	E(4)	-E(8)	-1 1	$-E(8)^3$	E(4)	-E(8)	1	$E(8)^3$	-E(4)	E(8)	-1 1	$-E(8)^{3}$	E(4)	-E(8)	1	$E(8)^3$	-E(4)	$\frac{E(8)}{E(8)}$
χ_{30}	1	$-E(8)^{3}$	-E(4)	-E(8)	-1 1	$E(8)^3$	E(4)	E(8)	1 1	$-E(8)^{3}$	-E(4)	-E(8)	-1 1	$E(8)^3$	E(4)	E(8)	-1 1	$E(8)^3$	E(4)	E(8)	1	$-E(8)^3$	-E(4)	-E(8)	-1 1	$E(8)^3$	E(4)	E(8)	1	$-E(8)^{3}$	-E(4)	-E(8)
χ_{31}	1	$E(8)^{3}$	-E(4)	E(8)	-1	$-E(8)^{3}$	E(4)	-E(8)	-1	$-E(8)^{3}$	E(4)	-E(8)	1	$E(8)^{3}$	-E(4)	E(8)	-1	$-E(8)^{3}$	E(4)	-E(8)	T	$E(8)^{3}$	-E(4)	E(8)	1	$E(8)^{3}$	-E(4)	E(8)	-1	$-E(8)^{3}$	E(4)	-E(8)

Trivial source character table of $G \cong C8 \times C2 \times C2$ at p = 2:

 $P_1 = Group([()]) \cong 1$

 $P_4 = Group([(1,2)(3,4)]) \cong C2$

 $P_2 = Group([(5,9)(6,10)(7,11)(8,12)]) \cong C2$

 $P_3 = Group([(1,2)(3,4)(5,9)(6,10)(7,11)(8,12)]) \cong C2$

Thivial source character table of $G = \cos x \cos$	37 37 37 3	7 37 37		37 37 37	37 37		37 37 37	37 37 37	37 37 37	37 37 37		77 77 77 77 77
Normalisers N_i	$N_1 \mid N_2 \mid N_3 \mid \Lambda$	$N_4 \mid N_5 \mid N_5$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$N_{10} N_{11} N_{12}$	$_{2} \mid N_{13} \mid N_{14} \mid .$	$V_{15} N_{16}$	$N_{17} N_{18} N_{19}$	$N_{20} N_{21} N_{21} N_{22}$	$N_{23} N_{24} N_{25}$	$N_{26} \mid N_{27} \mid N_{28}$	N_{29} N_{30} N_{31} N_{3}	$2 \mid N_{33} \mid N_{34} \mid N_{35} \mid N_{36} \mid N_{37} \mid N_{36}$
p-subgroups of G up to conjugacy in G	$P_1 \mid P_2 \mid P_3 \mid P$	$P_4 \mid P_5 \mid P_6$	$P_6 \mid P_7 \mid P_8 \mid P_9$	$P_{10} P_{11} P_{12}$	$P_{13} \mid P_{14} \mid$	$P_{15} P_{16}$	$P_{17} P_{18} P_{19}$	$P_{20} \mid P_{21} \mid P_{22}$	$P_{23} P_{24} P_{25} $	$P_{26} \mid P_{27} \mid P_{28}$	$P_{29} \mid P_{30} \mid P_{31} \mid P_{3'}$	$P_{2} \mid P_{33} \mid P_{34} \mid P_{35} \mid P_{36} \mid P_{37} \mid P_{38}$
Representatives $n_j \in N_i$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$a \mid 1a \mid 1a$	$a \mid 1a \mid 1a \mid 1a$	$\begin{array}{ c c c c c c } \hline 1a & 1a & 1a \\ \hline \end{array}$	1a $1a$	1a $1a$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1a $1a$ $1a$	1a $1a$ $1a$	1a $1a$ $1a$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$a \mid 1a \mid 1a \mid 1a \mid 1a \mid 1a \mid 1a$
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 1 \cdot \chi_{17} + 1 \cdot \chi_{18} + 1 \cdot \chi_{21} + 1 \cdot \chi_{22} + 1 \cdot \chi_{23} + 1 \cdot \chi_{24} + 1 \cdot \chi_{25} + 1 \cdot \chi_{26} + 1 \cdot \chi_{27} + 1 \cdot \chi_{28} + 1 \cdot \chi_{29} + 1 \cdot \chi_{30} + 1 \cdot \chi_{31} + 1 \cdot \chi_{32} + 1 \cdot \chi_{21} + 1 \cdot \chi_{22} + 1 \cdot \chi_{23} + 1 \cdot \chi_{24} + 1 \cdot \chi_{25} + 1 \cdot \chi_{26} + 1 \cdot \chi_{27} + 1 \cdot \chi_{28} + 1 \cdot \chi_{29} + 1 \cdot \chi_{30} + 1 \cdot \chi_{31} + 1 \cdot $		0 0 0	0 0 0	0 0 0	0 0	0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} + 0 \cdot \chi_{31} + 0 \cdot \chi_{31} + 0 \cdot \chi_{32} + 0 \cdot \chi_{31} + 0 \cdot \chi_{31} + 0 \cdot \chi_{32} + 0 \cdot $		0 0 0	0 0 0	0 0 0	0 0	0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{21} + 1 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 1 \cdot \chi_{27} + 1 \cdot \chi_{28} + 1 \cdot \chi_{29} + 1 \cdot \chi_{30} + 0 \cdot \chi_{31} + 0 \cdot $		0 0 0	0 0 0	0 0 0	0 0	0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0 0	
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 1 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 1 \cdot \chi_{23} + 1 \cdot \chi_{24} + 1 \cdot \chi_{25} + 1 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} + 1 \cdot \chi_{31} + 1 \cdot \chi_{32} + 1 \cdot \chi_{24} + 1 \cdot \chi_{25} + 1 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} + 1 \cdot \chi_{31} + 1 \cdot \chi_{32} + 1 \cdot \chi_{32} + 1 \cdot \chi_{31} + 1 \cdot $.6 0 0	0 0 0	0 0 0	0 0	0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 1 \cdot \chi_{21} + 1 \cdot \chi_{22} + 1 \cdot \chi_{23} + 1 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 1 \cdot \chi_{29} + 1 \cdot \chi_{30} + 1 \cdot \chi_{31} + 1 \cdot \chi_{32} + 1 \cdot \chi_{21} + 1 \cdot \chi_{22} + 1 \cdot \chi_{23} + 1 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 1 \cdot \chi_{29} + 1 \cdot \chi_{31} + 1 \cdot \chi_{32} + 1 \cdot \chi_{31} + 1 \cdot $	16 0 0 0	0 16 0	0 0 0	0 0 0	0 0	0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0 0	
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 1 \cdot \chi_{18} + 1 \cdot \chi_{19} + 1 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 1 \cdot \chi_{25} + 1 \cdot \chi_{26} + 1 \cdot \chi_{27} + 1 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} + 0 \cdot \chi_{31} + 0 \cdot $		0 0 16	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0 0	0 0	0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 1 \cdot \chi_{21} + 1 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 1 \cdot \chi_{25} + 1 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 1 \cdot \chi_{29} + 1 \cdot \chi_{30} + 0 \cdot \chi_{31} + 0 \cdot $		0 0 0	16 0 0	0 0 0	0 0	0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0 0	
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$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} + 0 \cdot \chi_{31} + 0 \cdot $	4 4 4 4	$4 \mid 4 \mid 4$	4 4 4	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	4 0	0 4	4 4 4	0 0 0	0 0 0	0 0 0	4 0 0 0	0 0 0 0 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} + 0 \cdot \chi_{31} + 0 \cdot $	4 4 0 0	0 0 0	4 4 0	4 4 0	0 0	4 0	0 0 0	0 0 0	0 0 0	0 0 0	0 4 0 0	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} + 0 \cdot \chi_{31} + 0 \cdot $		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0 0	0 0 0	2 2	2 0	0 0 0	0 0 0	0 2 2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0 2 0	0 0 0 0 0 0
$\boxed{1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} + 0 \cdot \chi_{31} + 0 $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$2 \mid 2 \mid 2$	$2 \mid 2 \mid 2 \mid 2$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	2 2	2 2	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	0 0 2	2 2 0	0 2 2	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	0 0 0 0 0
$\boxed{1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} + 0 \cdot \chi_{31} + 0 $		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0 0	0 0 0	2 2	2 0	0 0 0	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	0 0 0	0 0 0 0	2 0 0 0 0
$\boxed{1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} + 0 \cdot \chi_{31} + 0 $	$\begin{vmatrix} 2 & 2 & 0 \end{vmatrix}$	$0 \mid 2 \mid 2$	0 0 2	0 2 0	0 2	0 0	0 0 0	2 0 2	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	0 0 0	0 0 0 0	0 2 0 0 0
$\boxed{1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} + 0 \cdot \chi_{31} + 0 $	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	0 2 2	0 0 2	0 2 0	0 2	0 0	0 0 0	0 2 2	0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	0 0 2 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} + 0 \cdot \chi_{31} + 0 \cdot $		0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2 0 2	0 2	0 0	0 0 0	0 2 0	2 0 2	0 0 0		
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28} + 0 \cdot \chi_{29} + 0 \cdot \chi_{30} + 0 \cdot \chi_{31} + 0 \cdot $	$\begin{vmatrix} 2 & 2 & 0 \end{vmatrix}$	0 0 0	2 2 0	2 0 2	0 2	0 0	0 0 0	2 0 0	2 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0 0 0	0 0 0 0 2 0

 $\boxed{1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{21} + 0$

 $P_5 = Group([(1,2)(5,9)(6,10)(7,11)(8,12)]) \cong C2$ $P_6 = Group([(1,2)]) \cong C2$ $P_7 = Group([(3,4)]) \cong C2$ $P_8 = Group([(3,4)(5,9)(6,10)(7,11)(8,12)]) \cong C2$ $P_9 = Group([(5,9)(6,10)(7,11)(8,12),(1,2)]) \cong C2 \times C2$ $P_{10} = Group([(5,9)(6,10)(7,11)(8,12),(3,4)]) \cong C2 \times C2$ $P_{11} = Group([(5,9)(6,10)(7,11)(8,12),(1,2)(5,7,9,11)(6,8,10,12)]) \cong C4$ $P_{12} = Group([(5,9)(6,10)(7,11)(8,12),(3,4)(5,7,9,11)(6,8,10,12)]) \cong C4$ $P_{13} = Group([(5,9)(6,10)(7,11)(8,12),(1,2)(3,4)]) \cong C2 \times C2$ $P_{14} = Group([(5,9)(6,10)(7,11)(8,12),(5,7,9,11)(6,8,10,12)]) \cong C4$ $P_{15} = Group([(5,9)(6,10)(7,11)(8,12),(1,2)(3,4)(5,7,9,11)(6,8,10,12)]) \cong C4$ $P_{16} = Group([(3,4),(1,2)]) \cong C2 \times C2$ $P_{17} = Group([(3,4),(1,2)(5,9)(6,10)(7,11)(8,12)]) \cong C2 \times C2$ $P_{18} = Group([(3,4)(5,9)(6,10)(7,11)(8,12),(1,2)]) \cong C2 \times C2$ $P_{19} = Group([(3,4)(5,9)(6,10)(7,11)(8,12),(1,2)(5,9)(6,10)(7,11)(8,12)]) \cong C2 \times C2$ $P_{20} = Group([(5,9)(6,10)(7,11)(8,12),(5,7,9,11)(6,8,10,12),(1,2)(5,6,7,8,9,10,11,12)]) \cong C8$ $P_{21} = Group([(5,9)(6,10)(7,11)(8,12),(5,7,9,11)(6,8,10,12),(3,4)(5,6,7,8,9,10,11,12)]) \cong C8$ $P_{22} = Group([(5,9)(6,10)(7,11)(8,12),(5,7,9,11)(6,8,10,12),(1,2)]) \cong C4 \times C2$ $P_{23} = Group([(5,9)(6,10)(7,11)(8,12),(5,7,9,11)(6,8,10,12),(3,4)]) \cong C4 \times C2$ $P_{24} = Group([(5,9)(6,10)(7,11)(8,12),(5,7,9,11)(6,8,10,12),(1,2)(3,4)]) \cong C4 \times C2$ $P_{25} = Group([(5,9)(6,10)(7,11)(8,12),(5,7,9,11)(6,8,10,12),(5,6,7,8,9,10,11,12)]) \cong C8$ $P_{26} = Group([(5,9)(6,10)(7,11)(8,12),(5,7,9,11)(6,8,10,12),(1,2)(3,4)(5,6,7,8,9,10,11,12)]) \cong C8$ $P_{27} = Group([(5,9)(6,10)(7,11)(8,12),(3,4)(5,7,9,11)(6,8,10,12),(1,2)(5,7,9,11)(6,8,10,12)]) \cong C4 \times C2$ $P_{28} = Group([(5,9)(6,10)(7,11)(8,12),(3,4)(5,7,9,11)(6,8,10,12),(1,2)]) \cong C4 \times C2$ $P_{29} = Group([(5,9)(6,10)(7,11)(8,12),(3,4),(1,2)]) \cong C2 \times C2 \times C2$ $P_{30} = Group([(5,9)(6,10)(7,11)(8,12),(3,4),(1,2)(5,7,9,11)(6,8,10,12)]) \cong C4 \times C2$ $P_{31} = Group([(5,9)(6,10)(7,11)(8,12),(5,7,9,11)(6,8,10,12),(5,6,7,8,9,10,11,12),(1,2)(3,4)]) \cong C8 \times C2$ $P_{32} = Group([(5,9)(6,10)(7,11)(8,12),(5,7,9,11)(6,8,10,12),(3,4),(1,2)]) \cong C4 \times C2 \times C2$ $P_{33} = Group([(5,9)(6,10)(7,11)(8,12),(5,7,9,11)(6,8,10,12),(3,4)(5,6,7,8,9,10,11,12),(1,2)(5,6,7,8,9,10,11,12)]) \cong C8 \times C2$ $P_{34} = Group([(5,9)(6,10)(7,11)(8,12),(5,7,9,11)(6,8,10,12),(5,6,7,8,9,10,11,12),(1,2)]) \cong C8 \times C2$ $P_{35} = Group([(5,9)(6,10)(7,11)(8,12),(5,7,9,11)(6,8,10,12),(3,4)(5,6,7,8,9,10,11,12),(1,2)]) \cong C8 \times C2$ $P_{36} = Group([(5,9)(6,10)(7,11)(8,12),(5,7,9,11)(6,8,10,12),(5,6,7,8,9,10,11,12),(3,4)]) \cong C8 \times C2$ $P_{37} = Group([(5,9)(6,10)(7,11)(8,12),(5,7,9,11)(6,8,10,12),(3,4),(1,2)(5,6,7,8,9,10,11,12)]) \cong C8 \times C2$

 $P_{38} = Group([(5,9)(6,10)(7,11)(8,12),(5,7,9,11)(6,8,10,12),(5,6,7,8,9,10,11,12),(3,4),(1,2)]) \cong C8 \times C2 \times C2$

 $N_1 = Group([(1,2),(3,4),(5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$ $N_2 = Group([(1, 2), (3, 4), (5, 6, 7, 8, 9, 10, 11, 12)]) \cong C8 \times C2 \times C2$ $N_3 = Group([(1,2),(3,4),(5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$ $N_4 = Group([(1,2),(3,4),(5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$ $N_5 = Group([(1,2),(3,4),(5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$ $N_6 = Group([(1,2), (3,4), (5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$ $N_7 = Group([(1,2),(3,4),(5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$ $N_8 = Group([(1,2),(3,4),(5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$ $N_9 = Group([(1,2), (3,4), (5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$ $N_{10} = Group([(1, 2), (3, 4), (5, 6, 7, 8, 9, 10, 11, 12)]) \cong C8 \times C2 \times C2$ $N_{11} = Group([(1, 2), (3, 4), (5, 6, 7, 8, 9, 10, 11, 12)]) \cong C8 \times C2 \times C2$ $N_{12} = Group([(1,2),(3,4),(5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$ $N_{13} = Group([(1, 2), (3, 4), (5, 6, 7, 8, 9, 10, 11, 12)]) \cong C8 \times C2 \times C2$ $N_{14} = Group([(1,2),(3,4),(5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$ $N_{15} = Group([(1,2),(3,4),(5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$ $N_{16} = Group([(1,2),(3,4),(5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$ $N_{17} = Group([(1, 2), (3, 4), (5, 6, 7, 8, 9, 10, 11, 12)]) \cong C8 \times C2 \times C2$ $N_{18} = Group([(1,2), (3,4), (5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$ $N_{19} = Group([(1,2),(3,4),(5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$ $N_{20} = Group([(1,2),(3,4),(5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$ $N_{21} = Group([(1,2),(3,4),(5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$ $N_{22} = Group([(1,2),(3,4),(5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$ $N_{23} = Group([(1,2), (3,4), (5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$ $N_{24} = Group([(1,2),(3,4),(5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$ $N_{25} = Group([(1,2), (3,4), (5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$ $N_{26} = Group([(1,2),(3,4),(5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$ $N_{27} = Group([(1,2),(3,4),(5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$ $N_{28} = Group([(1,2), (3,4), (5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$ $N_{29} = Group([(1,2),(3,4),(5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$ $N_{30} = Group([(1, 2), (3, 4), (5, 6, 7, 8, 9, 10, 11, 12)]) \cong C8 \times C2 \times C2$ $N_{31} = Group([(1,2),(3,4),(5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$ $N_{32} = Group([(1,2),(3,4),(5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$ $N_{33} = Group([(1,2),(3,4),(5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$ $N_{34} = Group([(1, 2), (3, 4), (5, 6, 7, 8, 9, 10, 11, 12)]) \cong C8 \times C2 \times C2$ $N_{35} = Group([(1,2),(3,4),(5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$

 $N_{36} = Group([(1,2),(3,4),(5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$ $N_{37} = Group([(1,2),(3,4),(5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$ $N_{38} = Group([(1,2),(3,4),(5,6,7,8,9,10,11,12)]) \cong C8 \times C2 \times C2$