The group G is isomorphic to the group labelled by [32, 30] in the Small Groups library. Ordinary character table of $G \cong (C4 \times C2 \times C2) : C2$:

	1a	2a	2b	4a	2c	2d	4b	4c	4d	2e	4e	2f	4f	4g
χ_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
χ_3	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
χ_5	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
χ_7	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
χ_9	2	0	2	0	2	-2	0	0	0	-2	0	-2	0	0
χ_{10}	2	0	-2	0	2	-2	0	0	0	2	0	-2	0	0
χ_{11}	2	0	0	0	-2	-2	0	0	-2 * E(4)	0	0	2	0	2 * E(4)
χ_{12}	2	0	0	0	-2	-2	0	0	2 * E(4)	0	0	2	0	-2*E(4)
χ_{13}	2	0	0	-2 * E(4)	-2	2	0	0	0	0	2 * E(4)	-2	0	0
χ_{14}	2	0	0	2 * E(4)	-2	2	0	0	0	0	-2 * E(4)	-2	0	0

Trivial source character table of $G \cong (C4 \times C2 \times C2) : C2$ at p = 2: Normalisers N_i

This is solved that acted table of $C = (C+X)CZ(X)CZ(Y)$. $CZ(X)CZ(Y) = Z$.	37 3	7 7 7	1 A 7 A	7 77	7 7 7	3.7 3	7 7 7	A 7	A.T	3.7 3.7	3.7	1 3 7	A 7	A.7 A.7	7.7	3.7	3.7 3	7 7 7 7	3.7	A.7 7	7 77	T 3 7	A 7	7.7	77 77	- A7	3.7	A 7	77 77	7 37
Normalisers N_i			N_4 N_4	$V_5 \mid N_5$	$\frac{6}{5}$ $\frac{N_7}{5}$	N_8 N_8	$N_9 \mid N_{10}$	N_{11}	N_{12}	N_{13} N_1	N_{15}	N ₁₆	N_{17}		N_{20}	_	N_{22} N	$\frac{1}{23} N_{24}$	N_{25}	N ₂₆ 1	$N_{27} \mid N_{28}$	N_{29}	N_{30}	N ₃₁	N_{32} N_3	$\frac{33}{100}$ $\frac{N_{34}}{100}$	$\frac{4}{N_{35}}$	N_{36}		$V_{38} N_{39}$
p-subgroups of G up to conjugacy in G	$P_1 \mid P$	_ 0	1	P_5 P_6	$\frac{\delta}{P_7}$	P_8 I	$P_{9} P_{10}$	P_{11}	P_{12}	P_{13} P_1	$_{4} P_{15}$	P_{16}	P_{17}		$_{19} P_{20}$	P_{21}	$P_{22} \mid F$	$P_{23} \mid P_{24}$	P_{25}	P_{26} I	$P_{27} P_{28}$	P_{29}	P_{30}	P_{31}	$P_{32} \mid P_{33}$	P_{34}	$_{4}$ P_{35}	P_{36}		$P_{38} P_{39}$
Representatives $n_j \in N_i$	1a 1a		1a 1	$a \mid 1a$	$a \mid 1a$	1a 1	a $1a$	1a	1a	1a $1a$	$a \mid 1a$	1a	1a	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	a $1a$	1a	1a	a $1a$	1a	1a	1a $1a$	1a	1a	1a	1a $1a$	$\frac{1}{a}$	1a	1a		.a 1a
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 2 \cdot \chi_9 + 2 \cdot \chi_{10} + 2 \cdot \chi_{11} + 2 \cdot \chi_{12} + 2 \cdot \chi_{13} + 2 \cdot \chi_{14}$		0	0	$0 \mid 0$	0	0	$0 \mid 0$	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
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 2 \cdot \chi_9 + 2 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$		$6 \mid 0$	0	$0 \mid 0$	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
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 2 \cdot \chi_{13} + 2 \cdot \chi_{14}$	16 0	16	0	$0 \mid 0$	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
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 2 \cdot \chi_{11} + 2 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	16 0	0	16	$0 \mid 0$	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
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 2 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14}$	16 0	0	0	$8 \mid 0$	1 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
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 2 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14}$		0	0	0 8	, 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
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14}$		0	0	0 0	1 4	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
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$		8	8	0 0	1 0	8	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
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14}$	8 0	8	0	$0 \mid 0$	1 0	0	$4 \mid 0$	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
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$		8 0	0	$0 \mid 0$	1 0	0	0 4	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
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	8 8	8 0	0	$0 \mid 0$	1 0	0	0 0	4	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
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 2 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	8 8	3 0	0	$8 \mid 0$	0	0	0 0	0	8	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
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 2 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	8 8	3 0	0	0 8	, 0	0	0 0	0	0	8 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
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14}$	8 0	8	0	$4 \mid 4$	0	0	0 0	0	0	0 4	0	0	0	0 (0	0	0	0 0	0	0	0 0	0	0	0	0 0	0	0	0	0 () 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	8 0	0	8	4 4	: 0	0	0 0	0	0	0 0	4	0	0	0 (0	0	0	0 0	0	0	0 0	0	0	0	0 0	0	0	0	0 (0 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	8 0	0	8	0 0	, 0	0	0 0	0	0	0 0	0	4	0	0 (0	0	0	0 0	0	0	0 0	0	0	0	0 0	0	0	0	0 (0 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	8 8	3 0	0	0 0	, 0	0	0 0	0	0	0 0	0	0	4	0 (0	0	0	0 0	0	0	0 0	0	0	0	0 0	0	0	0	0 (0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	8 0	0	8	0 0	4	0	0 0	0	0	0 0	0	0	0	4 (0	0	0	0 0	0	0	0 0	0	0	0	0 0	0	0	0	0 (0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	8 8	3 0	0	0 0	4	0	0 0	0	0	0 0	0	0	0	0 4	1 0	0	0	0 0	0	0	0 0	0	0	0	0 0	0	0	0	0 (0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14}$	8 0	8	0	0 0	4	0	0 0	0	0	0 0	0	0	0	0 () 4	0	0	0 0	0	0	0 0	0	0	0	0 0	0	0	0	0 () 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	4 4	4	4	0 0	4	4	0 0	0	0	0 0	0	0	0	4 4	4	4	0	0 0	0	0	0 0	0	0	0	0 0	0	0	0	0 (0 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	4 4	4	4	0 0	, 0	4	0 0	0	0	0 0	0	4	0	0 (0	0	4	0 0	0	0	0 0	0	0	0	0 0	0	0	0	0 () 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	4 4	4	4	0 0	, 0	4	0 0	0	0	0 0	0	0	4	0 (0	0	0	4 0	0	0	0 0	0	0	0	0 0	0	0	0	0 (0 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	4 4	4	4	0 0	, 0	4	0 0	4	0	0 0	0	0	0	0 (0	0	0) 4	0	0	0 0	0	0	0	0 0	0	0	0	0 (0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	4 4	4	4	4 4	۵ و	4	0 0	0	4	4 4	4	0	0	0 (0	0	0	0 0	4	0	0 0	0	0	0	0 0	0	0	0	0 (0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	4 4	4	4	0 0	0	4	4 0	0	0	0 0	0	0	0	0 (0	0	0	0 0	0	4	0 0	0	0	0	0 0	0	0	0	0 (0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	4 4	4	4	0 0	, 0	4	0 4	0	0	0 0	0	0	0	0 (0	0	0	0 0	0	0	4 0	0	0	0	0 0	0	0	0	0 () 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	4 4	0	0	4 0	, 2	0	0 0	2	4	0 0	0	0	0	0 2	2 0	0	0	0 0	0	0	0 2	0	0	0	0 0	0	0	0	0 () 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	4 4	0	0	0 4	. 2	0	0 0	2	0	4 0	0	0	0	0 2	2 0	0	0	0 0	0	0	0 0	2	0	0	0 0	0	0	0	0 () 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	4 4	0	0	4 0	, 0	0	0 2	0	4	0 0	0	0	2	0 (0	0	0	0 0	0	0	0 0	0	2	0	0 0	0	0	0	0 () 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	4 4	0	0	0 4	<u> </u>	0	0 2	0	0	4 0	0	0	2	0 (0	0	0	0 0	0	0	0 0	0	0	2	0 0	0	0	0	0 () 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	2 2	2 2	2	$2 \mid 2$	2	2	0 0	2	2	2 2	2	0	0	2 2	2 2	2	0) 2	2	0	0 2	2	0	0	2 0	0	0	0	0 (0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	2 2	2 2	2	0 0) 2	2	0 2	0	0	0 0	0	2	0	2 2	2 2	2	2	0 0	0	0	2 0	0	0	0	0 2	2 0	0	0	0 0	0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	2 2	2 2	2	0 0	2	2	2 0	0	0	0 0	0	0	2	2 2	2 2	2	0	2 0	0	2	0 0	0	0	0	0 0	2	0	0	0 (0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$						2	0 2	0	2	2 2	2	0	2	0 (0	0	0	2 0	2	0	2 0	0	2	2	0 0	0 0	2	0	0 0	0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$		_				2	2 0	0	2	2 2	2	2	0	0 (0	0	2	0 0	2	2	0 0	0	0	0	0 0	0	0	2	0 0	0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$		2 2	2	0	, 0		2 2	2	0	0 0	0	0	0	0 (0	0	0) 2	0	2	2 0	0	0	0	0 0	0 (0	0	2 (0 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$		2 2	2	0 0	0	2	0 0	2	0	0 0	0	2	2	0 (0	0	2	2 2	0	0	0 0	0	0	0	0 0	0 0	0	0	0 2	2 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$			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 1
700 700 700 700 700 700 700 700	 																													

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

 $P_2 = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32)]) \cong \mathbb{C}^2$

 $P_{10} = Group([(1,4,5,14)(2,8,9,20)(3,11,12,23)(6,15,16,26)(7,17,18,27)(10,21,22,30)(13,24,25,31)(19,28,29,32),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32)]) \cong C4$

 $P_{11} = Group([(1,18,5,7)(2,12,9,3)(4,32,14,28)(6,29,16,19)(8,31,20,24)(10,25,22,13)(11,21,23,30)(15,27,26,17),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32)]) \cong C4$

 $P_{16} = Group([(1,21,16,20)(2,15,22,14)(3,32,25,17)(4,9,26,10)(5,30,6,8)(7,31,29,11)(12,28,13,27)(18,24,19,23),(1,16)(2,22)(3,25)(4,26)(5,6)(7,29)(8,30)(9,10)(11,31)(12,13)(14,15)(17,32)(18,19)(20,21)(23,24)(27,28)]) \cong C4$ $P_{17} = Group([(1,11,5,23)(2,17,9,27)(3,4,12,14)(6,24,16,31)(7,8,18,20)(10,28,22,32)(13,15,25,26)(19,21,29,30),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32)]) \cong C4$

 $P_{25} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(12,29)(20,30)(23,31)(27,32), \\ (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,28)(12,29)(20,30)(23,31)(27,32), \\ (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,28)(12,29)(20,30)(23,31)(27,32), \\ (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,28)(12,29)(20,30)(23,31)(27,32), \\ (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,28)(12,29)(20,30)(23,31)(27,32), \\ (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,28)(12,29)(20,30)(23,31)(27,32), \\ (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(12,29)(11,24)(12,29)($

 $P_{28} = Group([(1,3)(2,7)(4,11)(5,12)(6,13)(8,17)(9,18)(10,19)(14,23)(15,24)(16,25)(20,27)(21,28)(22,29)(26,31)(30,32), \\ (1,2)(3,18)(4,21)(5,9)(6,10)(7,12)(8,15)(11,32)(13,29)(14,30)(16,22)(17,31)(19,25)(20,27)(21,28)(22,29)(26,31)(30,32), \\ (1,2)(3,18)(4,21)(5,9)(6,10)(7,12)(8,15)(11,32)(13,29)(14,30)(16,22)(17,31)(19,25)(20,27)(21,28)(22,29)(26,31)(30,32), \\ (1,2)(3,18)(4,21)(5,9)(6,10)(7,12)(8,15)(11,32)(13,29)(14,30)(16,22)(17,31)(19,25)(20,27)(21,28)(22,29)(26,31)(30,32), \\ (1,2)(3,18)(4,21)(5,9)(6,10)(7,12)(8,15)(11,32)(13,29)(14,30)(16,22)(17,31)(19,25)(20,27)(21,28)(22,29)(26,31)(30,32), \\ (1,2)(3,18)(4,21)(5,9)(6,10)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32)] \\ (1,2)(3,18)(4,21)(5,18)(12,23)(13$

 $P_{29} = Group([(1,13)(2,19)(3,6)(4,24)(5,25)(7,10)(8,28)(9,29)(11,15)(12,16)(14,31)(17,21)(18,22)(20,32)(23,26)(27,30), (1,2)(3,18)(4,21)(5,9)(6,10)(7,12)(8,15)(11,32)(13,29)(14,30)(16,22)(17,31)(19,25)(20,32)(23,26)(27,30), (1,2)(3,18)(4,21)(5,9)(6,10)(7,12)(8,15)(11,32)(13,29)(14,30)(16,22)(17,31)(19,25)(20,32)(23,26)(27,30), (1,2)(3,18)(4,21)(5,9)(6,10)(7,12)(8,15)(11,32)(13,29)(14,30)(16,22)(17,31)(19,25)(20,32)(23,26)(27,30), (1,2)(3,18)(4,21)(5,9)(6,10)(7,12)(8,15)(11,32)(13,29)(14,30)(16,22)(17,31)(19,25)(20,32)(23,26)(27,30), (1,2)(3,18)(4,21)(5,9)(6,10)(7,12)(8,15)(11,32)(13,29)(14,30)(16,22)(17,31)(19,25)(20,32)(23,26)(27,30), (1,2)(3,18)(4,21)(5,9)(6,10)(7,12)(8,15)(11,32)(13,29)(14,30)(16,22)(17,31)(19,25)(20,32)(12,32)$

 $P_{32} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(27,24)(17,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(27,24)(17,24)$ $P_{33} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(27,32)(17,32)$

 $P_{34} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), \\ (1,11,5,23)(2,17,9,27)(3,4,12,14)(6,24,16,31)(7,8,18,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,11,5,23)(2,17,9,27)(3,4,12,14)(6,24,16,31)(7,8,18,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,11,5,23)(2,17,9,27)(3,4,12,14)(6,24,16,31)(7,8,18,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,11,5,23)(2,17,9,27)(3,4,12,14)(6,24,16,31)(7,8,18,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,11,5,23)(2,17,9,27)(3,4,12,14)(6,24,16,31)(17,28)(13,25)(17,28)(17,2$ $P_{35} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(29,23)(13,24)(27,23)(13,24)$

 $P_{36} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,3)(2,7)(4,11)(5,12)(6,13)(8,17)(9,18)(10,19)(14,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,3)(2,7)(4,11)(5,12)(6,13)(8,17)(9,18)(10,19)(14,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,3)(2,7)(4,11)(5,12)(6,13)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,3)(2,7)(4,11)(5,12)(6,13)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,3)(2,7)(4,11)(5,12)(6,13)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,3)(2,7)(4,11)(5,12)(6,13)(13,25)(15,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)($

 $P_{37} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(12,25)$ $P_{38} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), (1,11,5,23)(2,17,9,27)(3,4,12,14)(6,24,16,31)(7,8,18,20)(10,28,22,32)(13,15,25,26)(19,21,29,30), (1,21,16,20)(2,31)(28,32), (1,11,5,23)(2,17,9,27)(3,4,12,14)(6,24,16,31)(7,8,18,20)(10,28,22,32)(13,15,25,26)(19,21,29,30), (1,21,16,20)(2,31)(28,32), (1,21,16,20)(2,31)(28,32), (1,21,16,20)(2,31)(28,32), (1,21,16,20)(28,32)(28,32)(28,32)(28,32), (1,21,29,32)(28,32$

 $P_{39} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,4,5,14)(2,8,9,20)(3,11,12,23)(6,15,16,26)(7,17,18,27)(19,29)(21,30)(24,31)(28,32), \\ (1,4,5,14)(2,8,9,20)(3,11,12,23)(6,15,16,26)(7,17,18,27)(19,29)(21,30)(24,31)(28,32), \\ (1,4,5,14)(2,8,9,20)(3,11,12,23)(6,15,16,26)(7,17,18,27)(19,29)(21,30)(24,31)(28,32), \\ (1,4,5,14)(2,8,9,20)(3,11,12,23)(6,15,16,26)(7,17,18,27)(19,29)(21,30)(24,31)(28,32), \\ (1,4,5,14)(2,8,9,20)(3,11,12,23)(6,15,16,26)(7,17,18,27)(19,29)(21,30)(24,31)(28,32), \\ (1,4,5,14)(2,8,9,20)(3,11,12,23)(6,15,16,26)(7,17,18,27)(19,29)(21,30)(24,31)(28,32), \\ (1,4,5,14)(2,8,9,20)(3,11,12,23)(3,12,14)(21,12,12)(3,12,12)(3,12)($

(7, 2) = Group([(1, 2)(3, 18)(4, 21)(5, 24)(16, 25)(24, 27), (1, 3)(2, 2)(16, 25)(24, 27), (1, 3)(2, 2)(16, 25)(24, 27), (1, 3)(2, 2)(16, 25)(24, 27), (1, 3)(2, 2)(16, 25)(24, 27), (1, 3)(2, 2)(16, 25)(24, 27), (1, 3)(2, 2)(24, 27), (1, 3)(2, 2)(24, 27), (1, 3)(2, 2)(24, 27), (1, 3)(2, 2)(24, 27), (1, 3)(2, 2)(24, 27), (1, 3)(2, 2)(24, 27), (1, 3)(2, 2)(24, 27), (1, 3)(2, 2)(24, 27), (1, 3)(24, 25)(24, 27), (1, 3)(24, 24, 25)(24, 27), (1, 3)(24, 24, 25)(24, 27), (1, 3)(24, 24, 25)(24, 27), (1, 3)(24, 24, 24), (1, 3)(24, 24, 24), (1, 3)(24, 24)(24, 24), (1, 3)(24, 24)(24, 24), (1, 3)(24, 24)(24, 24), (1, 3)(24, 24)(24, 24), (1, 3)(24, 24)(24, 24), (1, 3)(24, 24)(24, 24), (1, 3)(24, 24)(24, 24), (1, 3)(24, 24)(24, 24), (1, 3)(24, 24)(24, 24), (1, 3)(24, 24)(24, 24), (1, 3)(24, 24)(24, 24), (1, 3)(24, 24)(24, 24), (1, 3)(24, 24)(24, 24), (1, 3)(24, 24)(24, 24), (1, 3)(24, 24)(24, 24), (1, 3)(24, 24)(24, 24(7, 1) (1, 2) (2, 2) (1, 2) (2, 2)

 $N_8 = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(23,31)(27,32), \\ (1,5)(2,9)(3,12)(4,14)(6,16)(7,12)(8,12)(13,22)(13,24)(15,24)(16,25)(13,24)(16,25)(17,27)(19,29)(21,30)(23,31)(27,32), \\ (1,2)(3,12)(4,12)(5,12)(13,22)(1$

 $N_{10} = Group([(1,4,5,14)(2,8,9,20)(3,11,12,23)(6,15,16)(2,9)(21,30)(24,31)(28,32),(1,5)(2,9)(21,30)(24,31)(28,32),(1,5)(2,9)(21,30)(24,31)(28,32),(1,5)(2,9)(21,30)(24,31)(28,32),(1,5)(2,9)(21,30)(24,31)(28,32),(1,5)(2,9)(21,30)(24,31)(28,32),(1,5)(2,9)(21,30)(24,31)(28,32),(1,5)(29,31)(29,32)(21,30)(24,31)(28,32),(1,5)(29,31)(29,32)(21,30)(24,31)(28,32),(1,5)(29,31)(29,32)(21,32)($ $N_{11} = Group([(1,18,5,7)(2,12,9,3)(4,32,14,28)(6,29,16,19)(8,31,20,24)(10,25,22,13)(11,21,23,30)(15,27,26,17),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32),(1,2)(3,18)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32),(1,2)(3,18)(4,15)(5,16)(7,19)(8,21)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(14,21)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(11,24)(12,25)($

 $N_{12} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,3)(2,7)(4,11)(5,12)(6,13)(8,17)(9,18)(10,19)(14,23)(15,24)(16,25)(20,27)(21,28)(22,29)(26,31)(30,32), \\ (1,2)(3,18)(4,21)(5,9)(6,10)(7,12)(8,12)(11,23)(13,24)(16,25)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,3)(2,13)(11,23)(13,24)(1$

 $N_{13} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,12)(13,29)(14,30)(15,24)(15,29)(21,30)(24,31)(15,24)(15,29)(21,30)(24,31)(15,24)(15,29)(21,30)(24,31)(15,24)(15,29)(21,30)(15,24)(15,29)(21,30)(15,24)(15,29)(21,30)(24,31)(25,29)(25,29$

 $N_{16} = Group([(1,21,16,20)(2,15,22,14)(3,32,25,17)(4,9,26,10)(5,30,6,8)(7,31,29,11)(12,28,13,27)(18,24,19,23),(1,16)(2,22)(3,25)(4,26)(5,6)(7,29)(8,30)(9,10)(11,31)(12,13)(14,15)(17,32)(18,19)(20,21)(23,24)(27,28),(1,16)(2,22)(3,25)(4,26)(5,6)(7,29)(8,30)(9,10)(11,31)(12,13)(14,15)(17,32)(18,19)(20,21)(12,28)(13,25)(14,26)(14$

 $N_{17} = Group([(1,11,5,23)(2,17,9,27)(3,4,12,14)(6,24,16,31)(7,8,18,20)(10,28)(17,27)(19,29)(21,30)(24,31)(28,32),(1,5)(2,9)(21,30)(24,31)(28,32),(1,5)(2,9)(21,30)(24,31)(28,32),(1,5)(2,9)(21,30)(24,31)(28,32),(1,5)(2,9)(21,30)(24,31)(28,32),(1,5)(2,9)(21,30)(24,31)(28,32),(1,5)(2,9)(21,30)(24,31)(28,32),(1,5)(2,9)(21,30)(24,31)(28,32),(1,5)(29,32)(21,31)(28,32),(1,5)(29,32)(21,31)(28,32),(1,5)(29,32)(21,31)(28,32),(1,5)(29,32)(21,31)(28,32),(1,5)(29,32)(21,31)(28,32),(1,5)(29,32)(21,31)(28,32),(1,5)(29,32)(21,31)(28,32),(1,5)(29,32)(21,31)(28,32),(1,5)(29,32)(21,31)(28,32),(1,5)(29,32)(21,31)(29,32),(1,5)(29,32)(21,31)(29,32),(1,5)(29,32)(21,31)(29,32),(1,5)(29,32)(21,31)(29,32),(1,5)(29,32)(21,31)(29,32),(1,5)(29,32)(21,31)(29,32),(1,5)(29,32)(21,32)$ $N_{18} = Group([(1,16)(2,22)(3,25)(4,26)(5,6)(7,29)(8,30)(9,10)(11,31)(12,13)(13,29)(14,30)(16,22)(17,31)(19,25)(20,26)(23,28)(24,27), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,28)(13,25)(13,25)(13,29)(14,30)(14,21)(13,29)(14,30)(14,21)(13,29)(14,30)(14,21)$

 $N_{19} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(15,24)$

 $N_{21} = Group([(1,2)(3,18)(4,21)(5,9)(2,31)(13,22)(14,23)(13,22)(14,23)(13,2$

 $N_{22} = Group([(1,21,16,20)(2,15,22,14)(3,32,25,17)(4,9,26,10)(5,30,6,8)(7,31,29)(14,20)(15,22)(14,20)(15,22)(14,20)(15,22)(14,20)(15,22)(14,20)(15,22)(14,20)(15,22)(14,20)(15,22)(14,20)(15,22)(14,20)(15,22)(14,20)(15,22)(14,20)(15,22)(1$ $N_{23} = Group([(1,11,5,23)(2,17,9,27)(3,4,12,14)(6,24,16,31)(7,8,18,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), (1,5)(2,9)(21,30)(24,31)(28,32), (1,5)(2,9)(21,30)(24,31)(28,32), (1,5)(2,9)(21,30)(24,31)(28,32), (1,5)(2,9)(21,30)(24,31)(28,32), (1,5)(2,9)(21,30)(24,31)(28,32), (1,5)(2,9)(21,30)(24,31)(28,32), (1,5)(2,9)(21,30)(24,31)(28,32), (1,5)(29,30)(21,30)(24,31)(28,32), (1,5)(29,30)(21,30)(24,31)(28,32), (1,5)(29,30)(21,30)(24,31)(28,32), (1,5)(29,30)(21,30)(24,31)(28,32), (1,5)(29,30)(21,30)(24,31)(28,32), (1,5)(29,30)(21,30)(24,31)(28,32), (1,5)(29,30)(21,30)(24,31)(28,32), (1,5)(29,30)(21,30)(24,31)(28,32), (1,5)(29,30)(21,30)(24,31)(28,32), (1,5)(29,30)(21,30)(24,31)(28,32), (1,5)(29,30)(21,30)(24,31)(28,32), (1,5)(29,30)(21,3$ $N_{24} = Group([(1,18,5,7)(2,12,9)(1,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(19,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32),(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(19,22)(11,23)(13,24)(19,22)(11,23)(19,22)(11,24)(19,22)(19$ $S_{1}(1,1,2,3) = Group([(1,3)(2,7)(4,11)(5,12)(6,13)(2,7)(4,11)(5,12)(6,13)(4,13)(13,23)(13$ $N_{26} = Group([(1,32,6,27)(2,31,10,23)(3,21,13,8)(4,7,15,19)(5,28,16,17)(9,24,22,11)(12,30,25,20)(14,18)(4,21)(5,9)(6,10)(7,12)(8,15)(11,32)(13,29)(14,20)(13,29)(14,20)(13,29)(14,20)(13,29)(14,20)(14,20)(14,23)(15,29)(14,20)(14,20)(15,29)(14,20)(15,29$ $N_{27} = Group([(1,4,5,14)(2,8,9,20)(3,11,12,23)(6,15,16,26)(7,17,18,27)(10,21,23)(13,29)(13,20)(13,24)(13,29)(13,20)(13,24)(13,29)(13,20)(13,24)(13,29)(13,20)(13,24)(13,29)(13,20)(13,24)(13,29)(13,20)(13,24)(13,29)(13,20)(13,24)(13,29)(13,20)(13,24)(13,29)(13,20)(13,24)(13,29)(13,20)(13,24)(13,29)(13,20)(13,24)(13,29)(13,20)(13,24)(13,29)(13,20)(13,24)(13,29)(13,20)(13,24)(13,20)(13,24)(13,20)(13,24)(13,20)(13,24)(13,20)(13,24)(13,20)(13,24)(13,20)(13,24)(13,20)(13,24)(13,20)(13,24)(1$

 $N_{28} = Group([(1,2)(3,18)(4,21)(5,9)(6,10)(7,12)(8,15)(11,32)(13,29)(14,30)(15,21)(17,20)(19,22)(21,32)(24,26)(28,30), \\ (1,3)(4,15)(5,16)(7,19)(8,27)(10,29)(11,14)(13,16)(15,31)(17,20)(19,22)(21,32)(24,26)(28,30), \\ (1,3)(4,15)(5,16)(7,19)(8,27)(10,29)(11,14)(13,16)(15,31)(17,20)(19,22)(11,24)(12,25)(14,26)(17,28)(14,27)(19,22)(11,24)(19,25)(19,22)(11,24)(19,25)(19,22)(19,$ $N_{29} = Group([(1,2)(3,18)(4,21)(5,9)(6,10)(7,22)(8,32)(9,19)(10,18)(11,26)(14,21)(5,12)(6,13)(2,19)(13,12)(13,29)(14,30)(15,21)(13,29)(14,30)(15,21)(15,$

 $N_{30} = Group([(1,3)(2,7)(4,11)(5,12)(6,13)(8,7)(4,11)(5,12)(6,13)(8,17)(9,18)(10,12)(11,23)(13,25)(15,24)(16,25)(20,27)(21,28)(22,29)(26,31)(30,32), \\ (1,4,5,14)(2,8,9,20)(3,11,12,23)(6,15,16,26)(7,17,18,27)(10,21,22,30)(13,24,25,31)(19,28,29,32), \\ (1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(12,23)(13,25)(15,24)(16,25)(20,27)(21,28)(22,29)(26,31)(30,32), \\ (1,4,5,14)(2,8,9,20)(3,11,12,23)(6,15,16,26)(17,27)(19,29)(21,28)(22,29)(26,31)(30,32), \\ (1,4,5,14)(2,8,9,20)(3,11,12,23)(6,15,16,26)(17,27)(19,29)(21,30)(24,31)(28,29)(21,30)(21,3$

 $N_{32} = Group([(1,2)(3,18)(4,21)(5,9)(6,10)(7,12)(8,21)(1,23)(13,29)(14,20)(15,24)($

 $N_{33} = Group([(1,2)(3,18)(4,21)(5,9)(6,10)(7,12)(8,29)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(19,25)(20,29)(24,31)(19,25)(20,29)(24,31)(19,25)(20,29)(24,31)(19,25)(20,29)(24,31)(19,25)(20,29)(24,31)(19,25)(20,29)(24,31)(19,25)(20,29)(24,31)(19,25)(20,29)(24,31)(19,25)(20,29)(24,31)(24,25)(24,27)(19,29)(21,30)(24,31)(24,25)(24,27)(19,29)(21,30)(24,31)(24,25)(24,27)(24,25)(24,25)(24,27)(24,25)(24,27)(24,25)(24,27)(24,25)(24,27)(24,25)(24,27)(24,25)(24,27)(24,25)(24,27)(24,25)(24,27)(24,25)(24,27)(24,25)$ $N_{34} = Group([(1,2)(3,18)(4,21)(5,9)(6,10)(7,12)(8,21)(1,20)(13,22)(13,18)(4,21)(5,9)(21,20)(13,22)(13,18)(4,21)(5,9)(21,20)(13,22)(13,18)(4,21)(5,21)(13,22)(13,23)(1$ $N_{35} = Group([(1,3)(2,7)(4,11)(5,12)(6,13)(2,7)(4,11)(5,12)(6,13)(2,7)(4,11)(5,12)(6,13)(2,7)(4,11)(5,12)(6,13)(2,12)(1,23)(13,23)($ $N_{36} = Group([(1,21,16,20)(2,27)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(25,21)(15,26)(17,27)(19,29)(21,30)(24,31)(25,21)(15,26)(17,27)(19,29)(21,30)(24,31)(25,21)(15,26)(17,27)(19,29)(21,30)(24,31)(25,21)(15,26)(17,27)(19,29)(21,30)(24,31)(25,21)(15,26)(17,27)(19,29)(21,30)(24,31)(25,21)(15,26)(17,27)(19,29)(21,30)(24,31)(25,21)(15,26)(17,27)(19,29)(21,30)(24,31)(25,21)(15,26)(17,27)(19,29)(21,30)(24,31)(25,21)(15,26)(17,27)(19,29)(21,30)(24,31)(25,21)($

 $N_{37} = Group([(1,18,5,7)(2,12,9,3)(4,32,14,28)(6,29,16,19)(8,31,20,24)(10,28,29,32),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(13,24,25,31)(19,28,29,32),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(13,24,25,31)(19,28,29,32),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(13,24,25,31)(19,28,29,32),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(13,24,25)(11,23)(13,29)(13,24)(13,29)(13,24)(13,29)(13,24)(13,29)(13,24)(13,29)(13,24)(13,29)(13,24)(13,29)(13,24)(13,29)(13,24)(13,29)(13,24)(13,29)(13,24)(13,29)(13,24)(13,29)(13,24)(13,29)(13,24)(13,29)(13,24)(13,29)(13,24)(13,29)(13,24)(13,29$ $N_{39} = Group([(1,2)(3,18)(4,21)(5,9)(6,10)(7,12)(8,29)(24,27),(1,3)(2,7)(4,11)(5,12)(6,13)(4,21)(5,9)(24,27)(1,23)(13,29)(14,23)(15,24)(16,25)(20,27)(21,28)(22,29)(26,31)(30,32),(1,4,5,14)(2,8,9,20)(3,11,12,23)(6,15,14)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(12,29)(24,31)(13,29)(14,20)(14,23)(15,24)(16,25)(20,27)(21,28)(22,29)(26,31)(30,32),(1,4,5,14)(2,8,9,20)(3,11,12,23)(6,15,14)(2,10)(3,13)(4,15)(5,16)(17,12)(13,12)$