	1	4	4.7	4		01	4.7	4	4.6	4	4.7	4:	4 :	0	4.7	4.7	4	4	4	4
	1a	4a	4b	4c	2a	2b	4d	4e	4f	4g	4h	4i	4j	2c	4k	4l	4m	4n	40	4p
χ_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
χ_3	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
χ_5	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
χ_7	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
χ_9	1	-E(4)	-1	-E(4)	1	-1	E(4)	-1	E(4)	E(4)	1	-E(4)	E(4)	-1	1	-E(4)	1	-E(4)	E(4)	-1
χ_{10}	1	E(4)	-1	E(4)	1	-1	-E(4)	-1	-E(4)	-E(4)	1	E(4)	-E(4)	-1	1	E(4)	1	E(4)	-E(4)	-1
χ_{11}	1	-E(4)	-1	E(4)	1	-1	E(4)	1	E(4)	-E(4)	1	E(4)	-E(4)	-1	-1	-E(4)	-1	E(4)	-E(4)	1
χ_{12}	1	E(4)	-1	-E(4)	1	-1	-E(4)	1	-E(4)	E(4)	1	-E(4)	E(4)	-1	-1	E(4)	-1	-E(4)	E(4)	1
χ_{13}	1	-E(4)	1	-E(4)	1	-1	-E(4)	-1	E(4)	-E(4)	-1	-E(4)	E(4)	-1	-1	E(4)	1	E(4)	E(4)	1
χ_{14}	1	E(4)	1	E(4)	1	-1	E(4)	-1	$-\dot{E(4)}$	E(4)	-1	E(4)	$-\dot{E(4)}$	-1	-1	$-\dot{E(4)}$	1	$-\dot{E(4)}$	$-\dot{E(4)}$	1
χ_{15}	1	$-\dot{E(4)}$	1	E(4)	1	-1	$-\dot{E(4)}$	1	E(4)	E(4)	-1	E(4)	-E(4)	-1	1	E(4)	-1	-E(4)	-E(4)	-1
χ_{16}	1	E(4)	1	$-\dot{E(4)}$	1	-1	E(4)	1	$-\dot{E}(4)$	$-\dot{E(4)}$	-1	$-\dot{E(4)}$	E(4)	-1	1	$-\dot{E(4)}$	-1	E(4)	E(4)	-1
χ_{17}	2	o ´	0	$-\dot{2}$	-2	-2	ò	0	0	0	0	2	$\overset{\circ}{2}$	2	0	0	0	ò	$-2^{'}$	0
χ_{18}	2	0	0	2	-2	-2	0	0	0	0	0	-2	-2	2	0	0	0	0	2	0
χ_{19}	2	0	0	-2*E(4)	-2	2	0	0	0	0	0	2 * E(4)	-2 * E(4)	-2	0	0	0	0	2 * E(4)	0
χ_{20}	2	0	0	2 * E(4)	-2	2	0	0	0	0	0	-2 * E(4)	2 * E(4)	-2	0	0	0	0	-2 * E(4)	0

				V			. ,							. ,	. ,						\ /			
Trivial source character table of $G \cong C4 \times Q8$ at $p = 2$:																								
Normalisers N_i	$N_1 \mid N_2$	N_3 N_4	N_5 Λ	$V_6 \mid N_7$	N_8 N_9	N_{10} N	$V_{11} N_{12}$	N_{13} N	$14 N_{15}$	N_{16}	N_{17}	$V_{18} N_{19}$	N_{20}	$V_{21} N_{22}$	N_{23}	$N_{24} \mid N_2$	N_{25} N_{26}	N_{27}	$N_{28} \mid N_{28}$	$N_{29} N_{30}$	N_{31}	$\overline{N_{32} \mid N_3}$	N_{33} N_{34}	$_{4}$ N
p-subgroups of G up to conjugacy in G	P_1 P_2	P_3 P_4	P_5 P	P_6 P_7	P_8 P_9	P_{10} P	$P_{11} P_{12}$	P_{13} P_{13}	P_{14}	P_{16}	P_{17}	$P_{18} P_{19}$	P_{20} I	$P_{21} P_{22}$	P_{23}	P_{24} P_2	P_{26}	P_{27}	P_{28} P_2	$P_{29} P_{30}$	P_{31}	$\overline{P_{32}}$ $\overline{P_{3}}$	P_{34}	$\frac{1}{4}$
Representatives $n_j \in N_i$	1a 1a	1a 1a	1a 1	.a 1a	1a 1a	1a 1	.a 1a	1a 1	a $1a$	1a	1a	1a $1a$	1a	1a $1a$	1a	1a 1a	a $1a$	1a	1a 1a	a $1a$	1a	1a 1a	a $1a$	1
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 2 \cdot \chi_{17} + 2 \cdot \chi_{18} + 2 \cdot \chi_{19} + 2 \cdot \chi_{20}$	32 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	
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 2 \cdot \chi_{19} + 2 \cdot \chi_{20}$	16 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	0	0 0	0	
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 2 \cdot \chi_{17} + 2 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	16 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	0 0	0	
$\boxed{1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}}$	16 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 0	0	
$\boxed{1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}}$	8 8	8 8	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	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	8 0	0 8	0 8	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	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 2 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	8 0	8 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	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 2 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	8 0	8 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	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	8 0	0 8	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	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	8 0	0 8	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	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	8 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	
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 1 \cdot \chi_{20}$	8 8	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	
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 1 \cdot \chi_{20}$	8 8	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	
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	8 0	0 8	0 (0 0	0 0	0 (0 0	0 8	3 0	0	0	0 0	0	0 0	0	0 0	0	0	0 0	0	0	0 0	0	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 1 \cdot \chi_{20}$	8 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	
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	8 0	0 8	0 (0 0	0 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	
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	4 4	4 4	4 (0 0	0 0	0 (0 0	0 4	1 0	4	4	0 0	0	0 0	0	0 0	0	0	0 0	0 0	0	0 0	0	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	4 4	4 4	4 (0 0	0 0	0 (0 0	0 () 4	0	0	4 0	0	0 0	0	0 0	0	0	0 0	0	0	0 0	0	
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	4 4	4 4	4 (0 0	0 0	0 (0 4	0 (0	0	0	0 4	0	0 0	0	0 0	0	0	0 0	0	0	0 0	0	
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	4 4	4 4	4 (0 0	0 0	0 (0 0	4 (0	0	0	0 0	4	0 0	0	0 0	0	0	0 0	0	0	0 0	0	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	4 4	4 4	4 4	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	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	4 4	4 4	4 (0 0	0 0	4	4 0	0 (0	0	0	0 0	0	0 4	0	0 0	0	0	0 0	0	0	0 0	0	\perp
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	4 4	4 4	4 (0 4	4 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	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	4 0	0 4	0 (0 0	0 4	4 (0 0	0 (0	4	0	0 0	0	0 0	0	4 0	0	0	0 0	0	0	0 0	0	\perp
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	4 0	0 4	0 4	4 0	0 0	0 4	4 0	0 (0	4	0	0 0	0	0 0	0	0 4	: 0	0	0 0	0	0	0 0	0	\perp
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	4 0	0 4	0 4	4 0	0 0	4 (0 0	0 4	1 0	0	0	0 0	0	0 0	0	0 0	4	0	0 0	0	0	0 0	0	\perp
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	4 0	0 4	0 (0 0	0 4	0 4	4 0	0 4	1 0	0	0	0 0	0	0 0	0	0 0	0	4	0 0	0	0	0 0	0	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	2 2	2 2	2 (0 0	0 0	2	$2 \mid 2$	0 0) 2	0	0	2 2	0	0 2	0	0 0	0	0	2 0	0	0	0 0	0	_
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	2 2	2 2	2 ($0 \mid 2$	2 0	0 (0 0	0 2	2 2	2	2	2 0	0	0 0	2	0 0	0	0	0 2	2 0	0	0 0	0	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	2 2	2 2	2 2	$\begin{array}{c c} 2 & 0 \end{array}$	0 2	0 (0 0	2 () 2	0	0	2 0	2	2 0	0	0 0	0	0	0 0) 2	0	0 0		
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	2 2	2 2	2 ($0 \mid 2$	2 0	2	2 0	2 (0	0	0	0 0	2	0 2	2	0 0	0	0	0 0	0	2	0 0	0	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	2 2	2 2	2 2	$\begin{array}{c c} 2 & 0 \end{array}$	0 2	2	2 0	0 2	2 0	2	2	0 0	0	2 2	0	2 2	2	2	0 0	0	0	$\begin{array}{c c} 2 & 0 \end{array}$	0	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	2 2	2 2	2 2	$2 \mid 2$	2 2	0 0	$0 \mid 2$	0 0	0	0	0	0 2	0	2 0	2	0 0	0	0	0 0	0 0	0	0 2	0	
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$		2 2	2 (0 0	0 0	0 0	$0 \mid 2$	2 2	$\begin{array}{c c} 2 & 0 \end{array}$	2	2	0 2	2	0 0	0	0 0	0	0	0 0	0 0	0	0 0	2	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	1 1	1 1	1 1 1	1 1	1 1	1 1	1 1	1 1	l 1	1	1	1 1	1	1 1	1	1 1	1	1	1 1	1 1	1	1 1	11	\perp

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

- $P_2 = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)]) \cong \mathbb{C}_2$
- $P_3 = Group([(1,16)(2,22)(3,25)(4,26)(5,6)(7,29)(8,30)(9,10)(11,31)(12,13)(14,15)(17,32)(18,19)(20,21)(23,24)(27,28)]) \cong \mathbb{C}_2$ $P_4 = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32)]) \cong \mathbb{C}_2$
- $P_6 = Group([(1,32,5,28)(2,23,9,11)(3,30,12,21)(4,7,14,18)(6,27,16,17)(8,13,20,25)(10,31,22,24)(15,19,26,29),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32)]) \cong \mathbf{C4}$ $P_7 = Group([(1,4,16,26)(2,8,22,30)(3,11,25,31)(5,14,6,15)(7,17,29,32)(9,20,10,21)(12,23,13,24)(18,27,19,28), (1,16)(2,22)(3,25)(4,26)(5,6)(7,29)(8,30)(9,10)(11,31)(12,13)(14,15)(17,32)(18,19)(20,21)(23,24)(27,28)]) \cong C4 + C_1 + C_2 + C_3 + C_4 + C_4$
- $P_8 = Group([(1,15,16,14)(2,21,22,20)(3,24,25,23)(4,5,26,6)(7,28,29,27)(8,9,30,10)(11,12,31,13)(17,18,32,19), (1,16)(2,22)(3,25)(4,26)(5,6)(7,29)(8,30)(9,10)(11,31)(12,13)(14,15)(17,32)(18,19)(20,21)(23,24)(27,28)]) \cong C4$ $P_9 = Group([(1,27,5,17)(2,31,9,24)(3,20,12,8)(4,19,14,29)(6,32,16,28)(7,26,18,15)(10,23,22,11)(13,30,25,21),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32)]) \cong C4$ $P_{10} = Group([(1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(8,17,20,27)(10,19,22,29)(15,24,26,31)(21,28,30,32),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32)]) \cong C4$
- $P_{11} = Group([(1,13,5,25)(2,19,9,29)(3,16,12,6)(4,24,14,31)(7,22,18,10)(8,28,20,32)(11,26,23,15)(17,30,27,21),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32)]) \cong C4$ $P_{12} = Group([(1, 18, 6, 29)(2, 25, 10, 12)(3, 9, 13, 22)(4, 27, 15, 32)(5, 7, 16, 19)(8, 31, 21, 23)(11, 20, 24, 30)(14, 17, 26, 28), (1, 6)(2, 10)(3, 13)(4, 15)(5, 16)(7, 19)(8, 21)(9, 22)(11, 24)(12, 25)(14, 26)(17, 28)(18, 29)(20, 30)(23, 31)(27, 32)]) \cong C4$ $P_{13} = Group([(1,11,6,24)(2,17,10,28)(3,14,13,26)(4,25,15,12)(5,23,16,31)(7,20,19,30)(8,29,21,18)(9,27,22,32),(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)]) \cong C4$ $P_{14} = Group([(1,21,5,30)(2,4,9,14)(3,32,12,28)(6,8,16,20)(7,23,18,11)(10,15,22,26)(13,27,25,17)(19,31,29,24),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32)]) \cong C4$
- $P_{15} = Group([(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20,26,30)(17,31,28,23),(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)]) \cong C4$ $P_{16} = Group([(1, 8, 5, 20)(2, 15, 9, 26)(3, 27, 12, 17)(4, 22, 14, 10)(6, 21, 16, 30)(7, 31, 18, 24)(11, 19, 23, 29)(13, 32, 25, 28), (1, 5)(2, 9)(3, 12)(4, 14)(6, 16)(7, 18)(8, 20)(10, 22)(11, 23)(13, 25)(15, 26)(17, 27)(19, 29)(21, 30)(24, 31)(28, 32)]) \cong C4$ $P_{17} = Group([(1,16)(2,22)(3,25)(4,26)(5,6)(7,29)(8,30)(9,10)(11,31)(12,13)(14,15)(17,32)(18,19)(20,21)(23,24)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(27,28)(13,24)(27,28)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)(18,29)(20,30)(23,31)(27,32)(18,29)(20,30)(23,31)(27,32)(18,29)(20,30)(23,31)(27,32)(18,29)(20,30)(23,31)(27,32)(18,29)(20,30)(23,31)(27,32)(18,29)(20,30)(23,31)(27,32)(18,29)(20,30)(23,31)(27,32)(18,29)(20,30)(23,31)(27,32)(18,29)(20,30)(23,31)(27,32)(18,29)(20,30)(23,31)(27,32)(18,29)(20,30)(23,31)(27,32)(18,29)(20,30)(23,31)(27,32)(18,29)(20,30)(23,31)(27,32)(20,30)(23,31)(27,32)(20,30)(23,31)(27,32)(20,30)(20,30)(20,31)(20,30)(20,$
- $P_{18} = Group([(1,16)(2,22)(3,25)(4,26)(5,6)(7,29)(8,30)(9,10)(11,31)(12,13)(14,15)(17,32)(18,19)(20,21)(23,24)(27,28), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(27,28), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(27,28), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(27,28), (1,6)(27,28)(14,26)(17,28)(18,29)(27,28), (1,6)(27,28)(18,29)(27,28), (1,6)(27,28)(18,29)(27,28), (1,6)(27,28)(18,29)(27,28), (1,6)(27,28)(18,29)(27,28)(18,29)(27,28), (1,6)(27,28)(18,29)(18,$ $P_{19} = Group([(1,16)(2,22)(3,25)(4,26)(5,6)(7,29)(8,30)(9,10)(11,31)(12,13)(14,15)(17,32)(18,19)(20,21)(23,24)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(27,28), \\ (1,6)(2,10)(3,13)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(27,28), \\ (1,6)(2,10)(3,13)(27,28), \\ (1,6)(2,10)(3,12)(27,28), \\ (1,6)(2,10)(3,12)(27,28), \\ (1,6)(2,10)(3,12)(27,28), \\ (1,6)(2,10)(3,12)(27,28), \\ (1,6)(2,10)(3,12)(27,28), \\$
- $P_{21} = Group([(1,16)(2,22)(3,25)(4,26)(5,6)(7,29)(8,30)(9,10)(11,31)(12,13)(14,15)(17,32)(18,19)(20,21)(23,24)(27,28), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,19)(20,21)(23,24)(27,28), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(12,25)(12,26)$
- $P_{23} = Group([(1,16)(2,22)(3,25)(4,26)(5,6)(7,29)(8,30)(9,10)(11,31)(12,13)(14,15)(17,32)(18,19)(20,21)(23,24)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(23,24)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(23,24)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(23,24)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(23,24)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(23,24)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(23,24)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(5,16)(23,24)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(3,12)(23,24)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(3,12)(23,24)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(3,12)(23,24)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(3,12)(23,24)(27,28), \\ (1,6)(2,10)(3,13)(4,15)(23,24)(27,28), \\ (1,6)(2,10)(3,12)(23,24)(27,28), \\ (1,6)(2,10)(3,12)(23,24)(27,28), \\ (1,6)(2,10)(3,12)(23,24)(27,28), \\ (1,6)(2,10)(3,12)(23,24)(27,28), \\ (1,6)(2,10)(3,12)(23,24)(27,28), \\ (1,6)(2,10)(3,12)(23,24)(27,28), \\ (1,6)(2,10)(3,12)(23,24)(27,28), \\ (1,6)(2,10)(3,12)(23,24)(27,28), \\ (1,6)(2,10)(3,12)(23,24)(27,28), \\ (1,6)(2,10)(3,12)(23,24)(27,28), \\ (1,6)(2,10)(3,12)(23,24)(27,28), \\ (1,6)(2,10)(3,12)(23,24)(27,28), \\ (1,6)(2,10)(3,12)(23,24)(27,28), \\ (1,6)(2,10)(3,12)(23,24)(27,28), \\ (1,6)(2,10)(3,12)(23,24)(27,28), \\ (1,6)(2,10)(3,12)(23,24)$ $P_{24} = Group([(1,8,5,20)(2,15,9,26)(3,27,12,17)(4,22,14,10)(6,21,16,30)(7,31,18,24)(11,19,23,29)(13,32,25,28),(1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32)]) \\ \cong Q_{34} = Group([(1,8,5,20)(2,15,9,26)(3,27,12,17)(4,22,14,10)(6,21,16,30)(7,31,18,24)(11,19,23,29)(13,32,25,28),(1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32)]) \\ \cong Q_{34} = Group([(1,8,5,20)(2,15,9,26)(3,27,12,17)(4,22,14,10)(6,21,16,30)(7,31,18,24)(11,19,23,29)(13,32,25,28),(1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(17,27)(19,29)(19,29)($
- $P_{25} = Group([(1,8,5,20)(2,15,9,26)(3,27,12,17)(4,22,14,10)(6,21,16,30)(7,31,18,24)(11,19,23,29)(13,32,25,28),(1,13,5,25)(2,19,9,29)(3,16,12,6)(4,24,14,31)(7,22,18,10)(8,20,12)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32)]) \\ \cong Q_{25} = Group([(1,8,5,20)(2,15,9,26)(3,27,12,17)(4,22,14,10)(6,21,16,30)(7,31,18,24)(11,19,23,29)(13,32,25,28),(1,13,5,25)(2,19,9,29)(3,16,12,6)(17,27)(19,29)(21,30)(24,31)(28,32)]) \\ \cong Q_{25} = Group([(1,8,5,20)(2,15,9,26)(3,27,12,17)(4,22,14,10)(6,21,16,30)(7,31,18,24)(11,19,23,29)(13,32,25,28),(11,26,23,15)(17,20,27)($ $P_{26} = Group([(1,21,5,30)(2,4,9,14)(3,32,12,28)(6,8,16,20)(7,23,18,11)(10,15,22,26)(13,27,25,17)(19,31,29,24),(1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(15,26)(17,27)(19,21,28)(13,27,25,17)(19,31,29,24),(1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(13,27,25,17)(19,31,29,24),(1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(13,27,25,17)(19,31,29,24),(1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(13,27,25,17)(19,31,29,24),(1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(13,27,25,17)(19,31,29,24),(1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(13,29,24),(1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(13,29,24),(1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(13,29,24),(1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(13,29,24),(1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(13,29,24),(1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(13,29,24),(1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(13,29,24),(1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(13,29,24),(1,3,12,29,24),(1,$
- $P_{27} = Group([(1,21,5,30)(2,4,9,14)(3,32,12,28)(6,8,16,20)(7,23,18,11)(10,15,22,26)(13,27,25,17)(19,31,29,24),(1,13,5,25)(2,19,9,29)(3,16,12,6)(4,24,14,31)(7,22,18,10)(8,28,20,32)(11,26,23,15)(17,30,27,21),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32)]) \\ \cong Q_{17} = Group([(1,21,5,30)(2,4,9,14)(3,32,12,28)(6,8,16,20)(7,23,18,11)(10,15,22,26)(13,27,25,17)(19,31,29,24),(1,13,5,25)(2,19,9,29)(3,16,12,6)(17,27)(19,31,29,24),(1,13,5,25)(21,19,29)(3,16,12,6)(17,27)(19,31,29,24),(1,13,5,25)(17,29,24),(1,13$
- $P_{28} = Group([(1,16)(2,22)(3,25)(4,26)(5,6)(7,29)(8,30)(9,10)(11,31)(2,13)(4,15)(5,16)(7,19)(8,21)(2,32)(14,26)(17,28)(14,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)(18,29)(20,30)(23,31)(27,32)(18,29)(20,30)(23,31)(27,32)(18,29)(20,30)(23,31)(27,32)(18,29)(20,30)(23,31)(27,32)(18,29)(20,30)(23,31)(27,32)(21,28)(20,30)(23,31)(27,32)(21,28)(20,30)(23,31)(27,32)(21,28)(20,30)(23,31)(27,32)(21,28)(20,30)(23,31)(27,32)(21,28)(20,30)(23,31)(27,32)(21,28$ $P_{29} = Group([(1,16)(2,22)(3,25)(4,26)(5,6)(7,29)(8,30)(9,10)(11,31)(12,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(13,24)(12,25)(14,26)(17,28)(14,26)(17,28)(14,26)(17,28)(14,26)(17,28)(14,26)(17,28)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)(18,29)(20,30)(23,31)(27,32)(18,29)(20,30)(23,31)(27,32)(18,29)(20,30)(23,31)(27,32)(18,29)(20,30)(23,31)(27,32)(21,29)(21,2$ $P_{30} = Group([(1,16)(2,22)(3,25)(4,26)(5,6)(7,29)(8,30)(9,10)(11,31)(12,13)(14,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,19)(20,21)(13,24)(12,25)(14,26)(17,28)(18,19)(20,21)(20,21)(20,21)(20,21)(20,21)(20,21)(20,21)(20,21)(20,21)(20,$
- $P_{32} = Group([(1,16)(2,22)(3,25)(4,26)(5,6)(7,29)(8,30)(9,10)(11,31)(12,13)(14,15)(17,32)(18,19)(20,21)(23,24)(27,28), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(8,17,20,27)(10,19,22,29)(15,24,26,31)(21,28,30,32), (1,8,5,20)(2,15,9,26)(3,27,12,17)(4,22,14,10)(6,21,16,30)(7,31,18,24)(11,19,23,29)(13,32,25,28)]) \cong C2 \times Q8$ $P_{33} = Group([(1,16)(2,22)(3,25)(4,26)(5,6)(7,29)(8,30)(9,10)(11,31)(12,13)(14,15)(7,19,28)(11,24)(12,25)(14,26)(17,28)(14,25)(14,26)(17,28)(17,28)(17,2$
- $P_{34} = Group([(1,16)(2,22)(3,25)(4,26)(5,6)(7,29)(8,30)(9,10)(11,31)(12,13)(14,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,19)(20,21)(13,24)(27,28), \\ (1,16,24)(2,17,10,28)(3,14,13,26)(4,25,15,12)(5,23,16,31)(7,20,18)(9,10)(11,31)(12,13)(14,15)(17,32)(18,19)(20,21)(13,24)(12,25)(14,26)(17,28)(18,19)(20,21)(13,24)(12,25)(14,26)(17,28)(18,19)(20,21)(13,24)(12,25)(14,26)(17,28)(18,19)(20,21)(20,21)(20,21)(20,21)(20,21)(20,21)(20,21)(20,21)(20,21)(20,21)(20,21)(20,21)(20,21)(20,21)(20,21)(20,21)(20,21)(20,21)(20,2$ $P_{35} = Group([(1,16)(2,22)(3,25)(4,26)(5,6)(7,29)(8,30)(9,10)(11,31)(12,23)(4,26)(17,28)(13,24)(12,25)(14,26)(17,28)(13,24)(12,23)(14,25)(14,26)(17,28)(13,24)(12,23)(14,26)(17,28)(13,24)(12,25)(14,26)(17,28)(13,24)(12,23)(14,26)(17,28)(13,24)(12,23)(14,26)(17,28)(13,24)(12,23)(14,26)(17,28)(13,24)(12,23)(14,26)(17,28)(13,24)(12,23)(14,26)(17,28)(13,24)(12,23)(14,26)(17,28)(13,24)(12,23)(14,26)(17,28)(13,24)(12,23)(14,26)(17,28)(17,28)($

 $N_1 = Group([(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20,26,30)(21,31,24)(18,27,19,28), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(17,28)(18,29)(21,30)(24,31)(21,28,30,32), (1,4,16,26)(2,8,22,30)(3,11,25,31)(21,28,30,32), (1,5)(2,9)(21,30)(24,31)(24,26,31)(21,28,30,32), (1,5)(2,9)(21,30)(24,31)(24,26,31)(21,28,30,32), (1,5)(2,9)(21,30)(24,31)(24,26,31)(21,28,30,32), (1,5)(2,9)(21,30)(24,31)(24,26,31)(21,28,30,32), (1,5)(2,9)(21,30)(24,31)(24,$ $N_2 = Group([(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20,26,31)(21,28,30,32), (1,4,16,26)(2,3,13,24)(18,27,19,28), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(17,27)(19,29)(15,24,26,31)(21,28,30,32), (1,4,16,26)(2,8,22,30)(3,11,25,21)(2,7,9,18)(4,11,14,23)(6,13,16,25)(15,26)(17,27)(19,29)(15,24,26,31)(21,28,30,32), (1,4,16,26)(2,8,22,30)(3,11,25,21)(2,12,23,13,24)(18,27,19,28), (1,5)(2,9)(2,13,12)(2,13,12)(2,13,13,24)(18,27,19,28), (1,5)(2,9)(2,13,12)(2,13,12)(2,13,12)(2,13,13,24)(18,27,19,28), (1,5)(2,9)(2,13,12)(2$ $N_3 = Group([(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20,26,30)(21,23,13,24)(18,27,19,28), \\ (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(17,28)(13,24)(18,27,19,28), \\ (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(17,28)(18,29)(21,30)(24,31)(24,28)(14,26)(17,28)(18,29)(21,28)(21,28)(2$ $N_4 = Group([(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20,26,31)(21,28,30,32), (1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(8,17,20,27)(10,19,22,29)(15,24,26,31)(21,28,30,32), (1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(14,20,16,20)(17,21,12,23)(13,24)(14,20,26,31)(21,28,30,32), (1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(14,20,16,23)(14,20,26,31)(14,20,26,3$ $N_5 = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(2,23)(14,26)(17,28)(17,28)(17$ $N_6 = Group([(1,32,5,28)(2,23,9,11)(3,30,12,21)(4,71,4,18)(6,27,16,17)(8,13,29)(4,11,14,23)(6,13,16,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(8,17,20,27)(10,19,22,29)(15,24,26,31)(21,28,30,32)] \\ \cong C4 \times Q8 = C4 \times$ $N_7 = Group([(1,4,16,26)(2,8,22,30)(3,11,25,31)(5,14,6,15)(7,17,29,32)(9,20,10,21)(12,23,13,24)(18,27,19,28),(1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(8,17,20,27)(10,19,22,29)(15,24,26,31)(21,28,30,32)]) \\ \cong C4 \times Q8 + C4$ $N_8 = Group([(1,15,16,14)(2,21,22,20)(3,24,25,23)(4,5,26,6)(7,29,(8,30)(9,10)(11,12,31,13)(17,18,32,19),(1,16)(2,22)(3,25)(4,26,31)(21,28,30,32)]) \\ \cong C_4 \times Q_8 + Q_8$

- $N_9 = Group([(1,27,5,17)(2,31,9,24)(3,20,12,8)(4,19,14,29)(6,32,16,28)(1,26,10)(1,27,24,32)(14,20,26,30)(17,27)(19,29)(21,30)(24,31)(28,32), (1,2,6,10)(3,18,13,29)(4,11,14,23)(6,13,16,25)(8,17,20,27)(10,19,22,29)(15,24,26,31)(21,28,30,32)] \\ \cong C4 \times Q8 + C4 \times Q8 +$ $N_{10} = Group([(1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32),(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20,26,30)(17,31,28,23),(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20,26,30)(17,31,28,23),(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20,26,30)(17,31,28,23),(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20,26,30)(17,31,28,23),(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20,26,30)(17,31,28,23),(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,23,13,24)(18,27,19,28)]) \\ = C4 \times Q8$ $N_{11} = Group([(1,13,5,25)(2,19,9,29)(3,16,12,6)(4,24,14,31)(7,22,18,10)(8,28,20,32)(11,26,23,15)(17,30,27,21),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32),(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20,26,30)(17,31,28,23),(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20,26,30)(17,31,28,23),(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20,26,30)(17,31,28,23),(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20,26,30)(17,31,28,23),(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20,26,30)(17,31,28,23),(11,26,23,15)(17,20,26,30)(17,21,26,23)(17,21,26$
- $N_{14} = Group([(1,21,5,30)(2,4,9,14)(3,32,12,28)(6,8,16,20)(7,23,18,11)(10,15,22,26)(13,27,25,17)(19,31,29,24),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32),(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20,26,30)(17,31,28,23),(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20,26,30)(17,31,28,23),(1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(8,17,20,27)(10,19,22,29)(15,24,26,31)(21,28,30,32)]) \\ = C4 \times Q8$
- $N_{16} = Group([(1,8,5,20)(2,15,9,26)(3,27,12,17)(4,22,14,10)(6,21,16,30)(7,31,18,24)(11,19,23,29)(13,32,25,28),(1,5)(2,7,9,18)(4,11,14,23)(6,13,16,25)(8,17,20,27)(10,19,22,29)(15,24,26,31)(21,28,30,32)]) \\ \cong C4 \times Q8$
- $N_{17} = Group([(1,8,5,20)(2,15,9,26)(3,27,12,17)(4,22,14,10)(6,21,16,30)(7,31,18,24)(11,19,23,29)(13,32,25,28), (1,6)(2,10)(3,13)(4,15)(5,16)(7,29)(8,30)(9,10)(11,31)(12,13)(14,15)(5,16)(7,29)(8,30)(9,10)(11,31)(12,13)(14,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(17,28)(1$ $N_{19} = Group([(1,18,6,29)(2,25,10,12)(3,9,13,22)(4,27,15,32)(5,7,16,19)(8,31,21,23)(11,20,24,30)(14,17,26,28),(1,4,16)(2,21)(3,24)(27,28),(1,4,16)(27,28),(1,4$ $N_{20} = Group([(1,11,6,24)(2,17,10,28)(3,14,13,26)(4,25,15,12)(5,23,16,31)(7,20,19,30)(8,29,21,18)(9,27,22,32),(1,6)(2,10)(3,13)(4,15)(5,16)(7,29)(8,30)(9,10)(11,31)(12,13)(14,15)(5,16)(7,29)(8,30)(9,10)(11,31)(12,13)(14,15)(5,16)(7,29)(8,30)(9,10)(11,31)(12,13)(14,15)(17,32)(18,19)(20,21)(23,24)(27,28),(1,26,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,24)(12,25)(14,26)(17,28)(17,28)(17$ $N_{21} = Group([(1,27,5,17)(2,31,9,24)(3,20,12,8)(4,19,14,29)(6,32,16,28)(7,26,18,15)(10,23,22,11)(13,30,25,21),(1,6)(2,10)(3,13)(4,15)(5,16)(7,29)(8,30)(9,10)(11,31)(12,13)(14,15)(5,16)(7,29)(8,30)(9,10)(11,31)(12,13)(14,15)(5,16)(7,29)(8,30)(9,10)(11,31)(12,13)(14,15)(17,32)(18,19)(20,21)(23,24)(27,28),(1,26,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,24)(12,25)(14,26)(17,28)(17,28)(17$
- $N_{22} = Group([(1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(8,17,20,27)(10,19,22,29)(15,24,26,31)(27,32),(1,46)(2,20)(3,24)(27,28),(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20,26,30)(17,31,28,23),(1,4,16)(2,20)(3,24)(27,28),(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20,26,30)(17,31,28,23),(1,4,16)(2,20)(3,24)(27,28),(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,24)(12,25)(14,26)(17,28)(17,28)(17,2$ $N_{23} = Group([(1,4,16,26)(2,8,22,30)(3,11,25,31)(5,14,6,15)(7,29,32)(4,26)(5,6)(7,29)(8,30)(9,10)(11,31)(2,23)(3,24)(27,28), (1,26,30)(21,28,30,32)] \\ \cong C4 \times Q8 \\ (1,2,5,10,23,24)(1,2,2,3)(1,2,2,3)(1,2,2,3)(1,2,2,3)(1,2,2,3)(1,2,$ $N_{24} = Group([(1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(8,17,20,27)(10,19,22,29)(15,24,26,31)(21,28,30,32),(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20,26,30)(17,31,28,23)]) \cong C4 \times Q8$
- $N_{25} = Group([(1,13,5,25)(2,19,9,29)(3,16,12,6)(4,24,14,31)(7,22,18,10)(8,28,20,32)(11,26,23,15)(17,30,27,21),(1,8,5,20)(2,15,9,26)(3,27,12,17)(4,22,14,10)(6,21,16,30)(7,31,18,24)(11,19,23,29)(13,32,25,28),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32),(1,26,23)(11,26,23,15)(17,30,27,21),(1,8,5,20)(2,15,9,26)(3,27,12,17)(4,22,14,10)(6,21,16,30)(7,31,18,24)(11,19,23,29)(13,32,25,28),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32),(1,26,23)(11,26,23,15)(17,30,27,21),(1,26,23,15)(17,26,23,15),(1,26,23,15)(17,26,23,15)(17,26,23,15),(17,26,23,15)(17,26,23,15),(17,26,23,15)(17,26,23,15),(17,26,23,15)(1$ $N_{26} = Group([(1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(8,17,20,27)(10,19,22,29)(15,24,26,31)(21,28,30,32),(1,21,5,30)(2,4,9,14)(3,32,12,28)(6,8,16,20)(7,23,18,11)(10,15,22,26)(13,27,25,17)(19,31,29,24),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32),(1,24,26,31)(21,28,30,32),(1,24,26,31)(21,28,32),(1,24,26,31)(21,28,32),(1,24,26,31)(21,28,32),(1,24,26,31)(21,28,32),(1,24,26,31)(21,28,32),(1,24,26,31)(21,28,32),(1,24,26,31)(21,28,32),(1,24,26,31)(21,28,32),(1,24,26,31)(21,28,32),(1,24,26,31)(21,28,32),(1,24,26,31)(21,28,32),(1,24,26,32),(1,24,26,32),(1,24,26,32),(1,24,26,32),(1,24,26,32),(1,24,26,3$
- $N_{27} = Group([(1,13,5,25)(2,19,9,29)(3,16,12,6)(4,24,14,31)(7,22,18,10)(8,28,20,32)(11,26,23,15)(17,30,27,21),(1,21,5,30)(2,4,9,14)(3,32,12,28)(6,8,16,20)(7,23,18,11)(10,15,22,26)(13,27,25,17)(19,31,29,24),(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32),(1,26,23)(11,26,23,15)(17,30,27,21),(1,21,5,30)(24,31)(28,32),(1,26,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32),(1,26,23)(11,26,23,15)(17,30,27,21),(1,26,23)(11,26,23,15)(17,30,27,21),(1,26,23)(11,26,23,15)(17,30,27,21),(1,26,23)(11,26,23,15)(17,30,27,21),(1,26,23)(11,26,23,15)(17,30,27,21),(1,26,23)(11,26,23,15)(17,30,27,21),(1,26,23)(11,26,23,15)(17,30,27,21),(1,26,23)(11,26,23,15)(17,30,27,21),(1,26,23)(11,26,23,15)(17,30,27,21),(1,26,23)(11,26,2$ $N_{28} = Group([(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,24,26)(17,28)(14,20,26,30)(27,32),(1,6)(2,29)(3,24)(27,28),(1,4,16,26)(2,8,22,30)(3,11,25,31)(5,14,6,15)(7,17,29,32)(14,20,26,30)(17,31,28,23),(1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(8,17,29,27)(10,19,22,29)(15,24,26,31)(21,28,30,32),(1,6)(2,29)(3,21)(21,28,30,32),(1,6)(2,29)(3,21)(21,28,30,32),(1,6)(2,29)(3,21)(21,28,30,32),(1,6)(2,29)(3,21)(21,28,30,32),(1,6)(2,29)(3,21)(21,28,30,32),(1,6)(2,29)(3,21)(21,28,30,32),(1,6)(2,29)(3,21)(21,28,30,32),(1,6)(2,29)(3,21)(21,28,30,32),(1,6)(2,29)(3,29)(21,28,30),(1,6)(2,29)(3,29)(21,28,30),(1,6)(2,29)(3,29)(3,29)(21,28,30),(1,6)(2,29)(3,29)(21,28,30),(1,6)(21,28,30),(1,$
- $N_{30} = Group([(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20,26,30)(27,32),(1,16)(2,22)(3,25)(4,26)(5,6)(7,29)(8,30)(27,32),(1,16)(2,22)(3,25)(4,26)(5,6)(7,29)(8,30)(27,32),(1,16)(2,22)(3,25)(4,26)(5,6)(7,29)(8,30)(27,32),(1,16)(2,22)(3,25)(4,26)(17,20,27)(10,19,22,29)(15,24,26,31)(27,28),(1,16)(2,22)(3,25)(4,26)(17,28)(11,27,24,32)(14,26)(17,28)(11,27,24,32)(14,26)(17,28)(11,27,24,32)(14,26)(17,28)(14,26)(17,28)(14,26)(17,28)(14,26)(17,28)(14,26)(17,28)(14,26)(17,28)(14,26)(17,28)(14,26)(17,28)(14,26)(17,28)(14,26)(17,28)(14,26)(17,28)(14,26)(17,28)(14,26)(17,28)($ $N_{32} = Group([(1,8,5,20)(2,15,9,26)(3,27,12,17)(4,22,14,10)(6,21,16,30)(7,31,18,24)(11,19,23,29)(13,32,25,28),(1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(8,17,20,27)(10,19,22,29)(15,24,26,31)(21,28,30,32),(1,6)(2,7,9,18)(4,11,14,23)(6,13,16,25)(8,17,20,27)(10,19,22,29)(15,24,26,31)(21,28,30,32),(1,6)(2,7,9,18)(4,11,14,23)(6,13,16,25)(8,17,20,27)(10,19,22,29)(15,24,26,31)(21,28,30,32),(1,6)(2,7,9,18)(4,11,14,23)(6,13,16,25)(8,17,20,27)(10,19,22,29)(15,24,26,31)(21,28,30,32),(1,6)(2,7,9,18)(4,11,14,23)(6,13,16,25)(14,20,14,20)(14,20,26,30)(17,31,18,24)(11,19,23,29)(15,24,26,31)(14,20,26,30)(17,31,18,24)(11,19,23,29)(13,32,25,28),(1,3,5,12)(2,7,9,18)(4,11,14,23)(6,13,16,25)(14,20,14,20)(14,20,14,$ $N_{33} = Group([(1,18,6,29)(2,25,10,12)(3,9,13,22)(4,27,15,32)(5,7,16,19)(8,21)(7,28)(11,20,24,30)(14,15)(5,16)(7,29)(8,30)(9,10)(11,31)(12,23)(14,26,20)(3,13)(27,28), (1,4,6,29)(2,2,30)(3,11,25,31)(5,14,6,15)(7,17,29,32)(9,20,10,21)(12,23,13,24)(18,27,19,28), (1,4,16,26)(2,8,22,30)(3,11,25,31)(5,14,6,15)(7,17,29,32)(9,20,10,21)(12,23,13,24)(18,27,19,28), (1,4,16,26)(2,8,22,30)(3,11,25,31)(5,14,6,15)(7,17,29,32)(9,20,10,21)(12,23,13,24)(18,27,19,28), (1,4,16,26)(2,8,22,30)(3,11,25,31)(5,14,6,15)(7,17,29,32)(9,20,10,21)(12,23,13,24)(18,27,19,28), (1,4,16,26)(2,8,22,30)(3,11,25,31)(5,14,6,15)(7,17,29,32)(14,20,24,30)(14,17,26,28), (1,4,16,26)(2,8,22,30)(3,11,25,31)(14,15)($
- $N_{34} = Group([(1,8,5,20)(2,15,9,26)(3,27,12,17)(4,22,14,10)(6,21,16,30)(7,31,18,24)(11,19,23,29)(13,32,25,28), (1,11,6,24)(2,17,10)(5,23,16,31)(7,20,19,30)(8,29,21,18)(9,27,22,32), (1,6)(2,20)(3,24)(27,28), (1,2,6,10)(3,18,13,29)(4,25,15,12)(5,23,16,31)(7,20,19,30)(8,29,21,18)(9,27,22,32), (1,6)(2,20)(3,24)(27,28), (1,2,6,10)(3,18,13,29)(4,25,15,12)(5,23,16,31)(7,20,19,30)(8,29,21,18)(9,27,22,32), (1,6)(2,20)(3,24)(27,28), (1,2,6,10)(3,18,13,29)(4,25,15,12)(5,23,16,31)(7,20,19,30)(8,29,21,18)(9,27,22,32), (1,6)(2,20)(3,24)(27,28), (1,2,6,10)(3,18,13,29)(4,25,15,12)(5,23,16,31)(7,20,19,30)(8,29,21,18)(9,27,22,32), (1,6)(2,20)(3,24)(27,28), (1,2,6,10)(3,18,13,29)(4,25,15,12)(5,23,16,31)(7,20,19,30)(8,29,21,18)(9,27,22,32), (1,6)(2,20)(3,24)(27,28), (1,2,6,10)(3,24)(27,28), (1,2,24)($ $N_{35} = Group([(1,2,6,10)(3,18,13,29)(4,8,15,21)(5,9,16,22)(7,25,19,12)(11,27,24,32)(14,20,26,30)(27,31,24)(12,25)(14,26)(17,29,13)(14,15)(17,32)(18,19)(20,21)(23,24)(27,28)] \\ \cong C4 \times Q8 \\ (1,3,16,25)(4,26,10,12,23)(4,26,12,23)(4,2$