

The group G is isomorphic to the group labelled by [72, 34] in the Small Groups library.
Ordinary character table of $G \cong C2 \times ((C3 \times C3) : C4)$:

	1a	3a	3b	3c	3d	2a	6a	6b	6c	6d	4a	4b	2b	6e	6f	6g	6h	2c	6i	6j	6k	6l	4c	4d
X 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
X 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
X 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
X 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
X ₅	1	1	1	1	1	-1	-1	-1	-1	-1	-E(4)	E(4)	-1	-1	-1	-1	-1	1	1	1	1	1	E(4)	-E(4)
X ₆	1	1	1	1	1	-1	-1	-1	-1	-1	E(4)	-E(4)	-1	-1	-1	-1	-1	1	1	1	1	1	-E(4)	E(4)
X ₇	1	1	1	1	1	1	1	1	1	1	-E(4)	E(4)	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	E(4)	E(4)
X ₈	1	1	1	1	1	1	1	1	1	1	E(4)	E(4)	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-E(4)	-E(4)
X ₉	2	2	-1	-1	-2	-2	2	1	1	1	0	0	-2	-2	1	1	1	2	2	-1	-1	1	0	0
X ₁₀	2	2	-1	-1	-2	-2	2	1	1	1	0	0	2	2	-1	-1	-2	-2	1	1	1	1	0	0
X ₁₁	2	2	-1	-1	-2	2	2	-1	-1	-1	0	0	-2	-2	1	1	1	-2	-2	1	1	1	0	0
X ₁₂	2	2	-1	-1	-2	2	2	-1	-1	-1	0	0	2	2	-1	-1	-2	2	2	-1	-1	-1	0	0
X ₁₃	2	-1	2	-1	-2	2	-1	2	-1	-1	0	0	2	-1	2	-1	-1	2	-1	2	-1	-1	0	0
X ₁₄	2	-1	2	-1	-2	2	-1	2	-1	-1	0	0	-2	1	-2	1	1	-2	1	-2	1	1	0	0
X ₁₅	2	-1	2	-1	-2	1	-2	1	1	1	0	0	2	-1	2	-1	-1	-2	1	-2	1	1	0	0
X ₁₆	2	-1	2	-1	-2	1	-2	1	1	1	0	0	-2	1	-2	1	1	2	-1	2	-1	-1	0	0
X ₁₇	2	-1	-1	-2	2	2	1	1	1	-2	0	0	-2	1	1	1	-2	2	-1	-1	-2	1	0	0
X ₁₈	2	-1	-1	-2	2	2	1	1	1	-2	0	0	2	-1	-1	-1	2	-2	1	1	1	-2	0	0
X ₁₉	2	-1	-1	-2	2	2	-1	-1	-1	2	0	0	-2	1	1	1	-2	-2	1	1	1	-2	0	0
X ₂₀	2	-1	-1	-2	2	2	-1	-1	-1	2	0	0	2	-1	-1	-1	2	2	-1	-1	-1	2	0	0
X ₂₁	2	-1	-1	2	-2	1	1	1	-2	1	0	0	-2	1	1	-2	1	2	-1	-1	2	-1	0	0
X ₂₂	2	-1	-1	2	-2	1	1	1	-2	1	0	0	2	-1	-1	2	-1	-2	1	1	-2	1	0	0
X ₂₃	2	-1	-1	2	-2	1	-1	-1	2	-1	0	0	-2	1	1	-2	1	-2	1	1	-2	1	0	0
X ₂₄	2	-1	-1	2	-2	1	-1	-1	2	-1	0	0	2	-1	-1	2	-1	2	-1	-1	2	-1	0	0

Trivial source character table of $G \cong C_2 \times ((C_3 \times C_3) : C_4)$ at $p = 3$:

μ -subgroups of G up to conjugacy in G	N_1 P_1								N_2 P_2								N_3 P_3								N_4 P_4								N_5 P_5								N_6 P_6							
Representatives $n_j \in N_i$	1a	2a	4a	4b	2b	2c	4c	4d	1a	2a	4b	2b	4a	2c	4d	4c	1a	2a	4b	2b	4a	2c	4d	4c	1a	2a	4b	2b	4a	2c	4d	4c	1a	2a	4b	2b	4a	2c	4d	4c								
$0 \cdot x_1 + 1 \cdot x_2 + 0 \cdot x_3 + 0 \cdot x_4 + 0 \cdot x_5 + 0 \cdot x_6 + 0 \cdot x_7 + 0 \cdot x_8 + 0 \cdot x_9 + 1 \cdot x_{10} + 0 \cdot x_{11} + 0 \cdot x_{12} + 0 \cdot x_{13} + 0 \cdot x_{14} + 1 \cdot x_{15} + 0 \cdot x_{16} + 0 \cdot x_{17} + 1 \cdot x_{18} + 0 \cdot x_{19} + 0 \cdot x_{20} + 0 \cdot x_{21} + 1 \cdot x_{22} + 0 \cdot x_{23} + 0 \cdot x_{24}$	9	-9	-1	1	9	-9	-1	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									
$0 \cdot x_1 + 0 \cdot x_2 + 1 \cdot x_3 + 0 \cdot x_4 + 0 \cdot x_5 + 0 \cdot x_6 + 0 \cdot x_7 + 0 \cdot x_8 + 0 \cdot x_9 + 1 \cdot x_{10} + 0 \cdot x_{11} + 0 \cdot x_{12} + 0 \cdot x_{13} + 0 \cdot x_{14} + 1 \cdot x_{15} + 0 \cdot x_{16} + 0 \cdot x_{17} + 1 \cdot x_{18} + 0 \cdot x_{19} + 0 \cdot x_{20} + 0 \cdot x_{21} + 1 \cdot x_{22} + 0 \cdot x_{23} + 0 \cdot x_{24}$	9	-9	1	-1	9	-9	1	-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									
$0 \cdot x_1 + 0 \cdot x_2 + 0 \cdot x_3 + 1 \cdot x_4 + 0 \cdot x_5 + 0 \cdot x_6 + 0 \cdot x_7 + 0 \cdot x_8 + 0 \cdot x_9 + 0 \cdot x_{10} + 0 \cdot x_{11} + 1 \cdot x_{12} + 1 \cdot x_{13} + 0 \cdot x_{14} + 0 \cdot x_{15} + 0 \cdot x_{16} + 0 \cdot x_{17} + 0 \cdot x_{18} + 0 \cdot x_{19} + 1 \cdot x_{20} + 0 \cdot x_{21} + 0 \cdot x_{22} + 0 \cdot x_{23} + 1 \cdot x_{24}$	9	9	-1	-1	9	9	-1	-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									
$1 \cdot x_1 + 0 \cdot x_2 + 0 \cdot x_3 + 0 \cdot x_4 + 0 \cdot x_5 + 0 \cdot x_6 + 0 \cdot x_7 + 0 \cdot x_8 + 0 \cdot x_9 + 0 \cdot x_{10} + 0 \cdot x_{11} + 0 \cdot x_{12} + 1 \cdot x_{13} + 0 \cdot x_{14} + 0 \cdot x_{15} + 0 \cdot x_{16} + 0 \cdot x_{17} + 0 \cdot x_{18} + 0 \cdot x_{19} + 0 \cdot x_{20} + 0 \cdot x_{21} + 0 \cdot x_{22} + 0 \cdot x_{23} + 1 \cdot x_{24}$	9	9	1	1	9	9	1	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									
$0 \cdot x_1 + 0 \cdot x_2 + 0 \cdot x_3 + 0 \cdot x_4 + 0 \cdot x_5 + 0 \cdot x_6 + 0 \cdot x_7 + 1 \cdot x_8 + 0 \cdot x_9 + 0 \cdot x_{10} + 1 \cdot x_{11} + 0 \cdot x_{12} + 0 \cdot x_{13} + 1 \cdot x_{14} + 0 \cdot x_{15} + 0 \cdot x_{16} + 0 \cdot x_{17} + 0 \cdot x_{18} + 1 \cdot x_{19} + 0 \cdot x_{20} + 0 \cdot x_{21} + 0 \cdot x_{22} + 1 \cdot x_{23} + 0 \cdot x_{24}$	9	9	$E(4)$	$E(4)$	-9	-9	$-E(4)$	$-E(4)$	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									
$0 \cdot x_1 + 0 \cdot x_2 + 0 \cdot x_3 + 0 \cdot x_4 + 0 \cdot x_5 + 0 \cdot x_6 + 1 \cdot x_7 + 0 \cdot x_8 + 0 \cdot x_9 + 0 \cdot x_{10} + 1 \cdot x_{11} + 0 \cdot x_{12} + 0 \cdot x_{13} + 1 \cdot x_{14} + 0 \cdot x_{15} + 0 \cdot x_{16} + 0 \cdot x_{17} + 0 \cdot x_{18} + 0 \cdot x_{19} + 0 \cdot x_{20} + 0 \cdot x_{21} + 0 \cdot x_{22} + 1 \cdot x_{23} + 0 \cdot x_{24}$	9	9	$-E(4)$	$-E(4)$	-9	-9	$E(4)$	$E(4)$	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									
$0 \cdot x_1 + 0 \cdot x_2 + 0 \cdot x_3 + 0 \cdot x_4 + 1 \cdot x_5 + 0 \cdot x_6 + 0 \cdot x_7 + 0 \cdot x_8 + 1 \cdot x_9 + 0 \cdot x_{10} + 0 \cdot x_{11} + 0 \cdot x_{12} + 0 \cdot x_{13} + 0 \cdot x_{14} + 0 \cdot x_{15} + 1 \cdot x_{16} + 1 \cdot x_{17} + 0 \cdot x_{18} + 0 \cdot x_{19} + 0 \cdot x_{20} + 1 \cdot x_{21} + 0 \cdot x_{22} + 0 \cdot x_{23} + 0 \cdot x_{24}$	9	-9	$-E(4)$	$E(4)$	-9	9	$E(4)$	$-E(4)$	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									
$0 \cdot x_1 + 0 \cdot x_2 + 0 \cdot x_3 + 0 \cdot x_4 + 0 \cdot x_5 + 1 \cdot x_6 + 0 \cdot x_7 + 0 \cdot x_8 + 1 \cdot x_9 + 0 \cdot x_{10} + 0 \cdot x_{11} + 0 \cdot x_{12} + 0 \cdot x_{13} + 0 \cdot x_{14} + 0 \cdot x_{15} + 1 \cdot x_{16} + 1 \cdot x_{17} + 0 \cdot x_{18} + 0 \cdot x_{19} + 0 \cdot x_{20} + 1 \cdot x_{21} + 0 \cdot x_{22} + 0 \cdot x_{23} + 0 \cdot x_{24}$	9	-9	$E(4)$	$-E(4)$	-9	9	$-E(4)$	$E(4)$	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									
$0 \cdot x_1 + 0 \cdot x_2 + 0 \cdot x_3 + 0 \cdot x_4 + 0 \cdot x_5 + 0 \cdot x_6 + 1 \cdot x_7 + 0 \cdot x_8 + 0 \cdot x_9 + 0 \cdot x_{10} + 0 \cdot x_{11} + 0 \cdot x_{12} + 0 \cdot x_{13} + 0 \cdot x_{14} + 0 \cdot x_{15} + 0 \cdot x_{16} + 0 \cdot x_{17} + 0 \cdot x_{18} + 0 \cdot x_{19} + 0 \cdot x_{20} + 0 \cdot x_{21} + 0 \cdot x_{22} + 0 \cdot x_{23} + 0 \cdot x_{24}$	3	-3	$E(4)$	$-E(4)$	-3	3	$-E(4)$	$E(4)$	3	-3	$-E(4)$	-3	$E(4)$	3	$E(4)$	$-E(4)$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
$0 \cdot x_1 + 0 \cdot x_2 + 0 \cdot x_3 + 0 \cdot x_4 + 1 \cdot x_5 + 0 \cdot x_6 + 0 \cdot x_7 + 0 \cdot x_8 + 1 \cdot x_9 + 0 \cdot x_{10} + 0 \cdot x_{11} + 0 \cdot x_{12} + 0 \cdot x_{13} + 0 \cdot x_{14} + 0 \cdot x_{15} + 0 \cdot x_{16} + 0 \cdot x_{17} + 0 \cdot x_{18} + 0 \cdot x_{19} + 0 \cdot x_{20} + 0 \cdot x_{21} + 0 \cdot x_{22} + 0 \cdot x_{23} + 0 \cdot x_{24}$	3	-3	$-E(4)$	$E(4)$	-3	3	$E(4)$	$-E(4)$	3	-3	$E(4)$	-3	$-E(4)$	3	$-E(4)$	$E(4)$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
$0 \cdot x_1 + 0 \cdot x_2 + 0 \cdot x_3 + 0 \cdot x_4 + 0 \cdot x_5 + 0 \cdot x_6 + 0 \cdot x_7 + 1 \cdot x_8 + 0 \cdot x_9 + 0 \cdot x_{10} + 1 \cdot x_{11} + 0 \cdot x_{12} + 0 \cdot x_{13} + 0 \cdot x_{14} + 0 \cdot x_{15} + 0 \cdot x_{16} + 0 \cdot x_{17} + 0 \cdot x_{18} + 0 \cdot x_{19} + 0 \cdot x_{20} + 0 \cdot x_{21} + 0 \cdot x_{22} + 0 \cdot x_{23} + 0 \cdot x_{24}$	3	3	$E(4)$	$E(4)$	-3	-3	$-E(4)$	$-E(4)$	3	3	$E(4)$	-3	$-E(4)$	3	$-E(4)$	$-E(4)$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
$0 \cdot x_1 + 0 \cdot x_2 + 0 \cdot x_3 + 0 \cdot x_4 + 0 \cdot x_5 + 0 \cdot x_6 + 1 \cdot x_7 + 0 \cdot x_8 + 0 \cdot x_9 + 0 \cdot x_{10} + 1 \cdot x_{11} + 0 \cdot x_{12} + 0 \cdot x_{13} + 0 \cdot x_{14} + 0 \cdot x_{15} + 0 \cdot x_{16} + 0 \cdot x_{17} + 0 \cdot x_{18} + 0 \cdot x_{19} + 0 \cdot x_{20} + 0 \cdot x_{21} + 0 \cdot x_{22} + 0 \cdot x_{23} + 0 \cdot x_{24}$	3	3	$-E(4)$	$-E(4)$	-3	-3	$E(4)$	$E(4)$	3	3	$-E(4)$	-3	$E(4)$	3	$E(4)$	$E(4)$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
$0 \cdot x_1 + 1 \cdot x_2 + 0 \cdot x_3 + 0 \cdot x_4 + 0 \cdot x_5 + 0 \cdot x_6 + 0 \cdot x_7 + 0 \cdot x_8 + 0 \cdot x_9 + 1 \cdot x_{10} + 0 \cdot x_{11} + 0 \cdot x_{12} + 0 \cdot x_{13} + 0 \cdot x_{14} + 0 \cdot x_{15} + 0 \cdot x_{16} + 0 \cdot x_{17} + 0 \cdot x_{18} + 0 \cdot x_{19} + 0 \cdot x_{20} + 0 \cdot x_{21} + 0 \cdot x_{22} + 0 \cdot x_{23} + 0 \cdot x_{24}$	3	-3	-1	1	3	-3	-1	1	3	-3	1	3	-1	3	-1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
$1 \cdot x_1 + 0 \cdot x_2 + 0 \cdot x_3 + 0 \cdot x_4 + 0 \cdot x_5 + 0 \cdot x_6 + 0 \cdot x_7 + 0 \cdot x_8 + 0 \cdot x_9 + 0 \cdot x_{10} + 0 \cdot x_{11} + 1 \cdot x_{12} + 0 \cdot x_{13} + 0 \cdot x_{14} + 0 \cdot x_{15} + 0 \cdot x_{16} + 0 \cdot x_{17} + 0 \cdot x_{18} + 0 \cdot x_{19} + 0 \cdot x_{20} + 0 \cdot x_{21} + 0 \cdot x_{22} + 0 \cdot x_{23} + 0 \cdot x_{24}$	3	3	1	1	3	3	1	1	3	3	1	3	1	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
$0 \cdot x_1 + 0 \cdot x_2 + 0 \cdot x_3 + 1 \cdot x_4 + 0 \cdot x_5 + 0 \cdot x_6 + 0 \cdot x_7 + 0 \cdot x_8 + 0 \cdot x_9 + 0 \cdot x_{10} + 0 \cdot x_{11} + 1 \cdot x_{12} + 0 \cdot x_{13} + 0 \cdot x_{14} + 0 \cdot x_{15} + 0 \cdot x_{16} + 0 \cdot x_{17} + 0 \cdot x_{18} + 0 \cdot x_{19} + 0 \cdot x_{20} + 0 \cdot x_{21} + 0 \cdot x_{22} + 0 \cdot x_{23} + 0 \cdot x_{24}$	3	3	-1	-1	3	3	-1	-1	3	3	-1	3	-1	3	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
$0 \cdot x_1 + 0 \cdot x_2 + 1 \cdot x_3 + 0 \cdot x_4 + 0 \cdot x_5 + 0 \cdot x_6 + 0 \cdot x_7 + 0 \cdot x_8 + 0 \cdot x_9 + 1 \cdot x_{10} + 0 \cdot x_{11} + 0 \cdot x_{12} + 0 \cdot x_{13} + 0 \cdot x_{14} + 0 \cdot x_{15} + 0 \cdot x_{16} + 0 \cdot x_{17} + 0 \cdot x_{18} + 0 \cdot x_{19} + 0 \cdot x_{20} + 0 \cdot x_{21} + 0 \cdot x_{22} + 0 \cdot x_{23} + 0 \cdot x_{24}$	3	-3	1	-1	3	-3	1	-1	3	-3	-1	3	1	-3	-1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
$0 \cdot x_1 + 0 \cdot x_2 + 0 \cdot x_3 + 0 \cdot x_4 + 0 \cdot x_5 + 0 \cdot x_6 + 1 \cdot x_7 + 0 \cdot x_8 + 0 \cdot x_9 + 0 \cdot x_{10} + 0 \cdot x_{11} + 0 \cdot x_{12} + 0 \cdot x_{13} + 0 \cdot x_{14} + 0 \cdot x_{15} + 0 \cdot x_{16} + 0 \cdot x_{17} + 0 \cdot x_{18} + 1 \cdot x_{19} + 0 \cdot x_{20} + 0 \cdot x_{21} + 0 \cdot x_{22} + 0 \cdot x_{23} + 0 \cdot x_{24}$	3	3	$-E(4)$	$E(4)$	-3	-3	$E(4)$	$E(4)$	0	0	0	0	0	0	0	0	3	3	$-E(4)$	-3	$E(4)$	-3	$E(4)$	$E(4)$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
$0 \cdot x_1 + 0 \cdot x_2 + 0 \cdot x_3 + 0 \cdot x_4 + 0 \cdot x_5 + 0 \cdot x_6 + 0 \cdot x_7 + 1 \cdot x_8 + 0 \cdot x_9 + 0 \cdot x_{10} + 0 \cdot x_{11} + 0 \cdot x_{12} + 0 \cdot x_{13} + 0 \cdot x_{14} + 0 \cdot x_{15} + 0 \cdot x_{16} + 0 \cdot x_{17} + 0 \cdot x_{18} + 0 \cdot x_{19} + 0 \cdot x_{20} + 0 \cdot x_{21} + 0 \cdot x_{22} + 0 \cdot x_{23} + 0 \cdot x_{24}$	3	3	$E(4)$	$E(4)$	-3	-3	$-E(4)$	$-E(4)$	0	0	0	0	0	0	0	0	0	3	3	$E(4)$	-3	$E(4)$	-3	$-E(4)$	$-E(4)$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
$0 \cdot x_1 + 0 \cdot x_2 + 0 \cdot x_3 + 0 \cdot x_4 + 1 \cdot x_5 + 0 \cdot x_6 + 0 \cdot x_7 + 0 \cdot x_8 + 0 \cdot x_9 + 0 \cdot x_{10} + 0 \cdot x_{11} + 0 \cdot x_{12} + 0 \cdot x_{13} + 0 \cdot x_{14} + 0 \cdot x_{15} + 0 \cdot x_{16} + 1 \cdot x_{17} + 0 \cdot x_{18} + 0 \cdot x_{19} + 0 \cdot x_{20} + 0 \cdot x_{21} + 0 \cdot x_{22} + 0 \cdot x_{23} + 0 \cdot x_{24}$	3	-3	$-E(4)$	$E(4)$	-3	3	$E(4)$	$-E(4)$	0	0	0	0	0	0	0	0	0	3	-3	$E(4)$	-3	$-E(4)$	3	$-E(4)$	$E(4)$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
$0 \cdot x_1 + 0 \cdot x_2 + 0 \cdot x_3 + 0 \cdot x_4 + 0 \cdot x_5 + 0 \cdot x_6 + 1 \cdot x_7 + 0 \cdot x_8 + 0 \cdot x_9 + 0 \cdot x_{10} + 0 \cdot x_{11} + 0 \cdot x_{12} + 0 \cdot x_{13} + 0 \cdot x_{14} + 0 \cdot x_{15} + 0 \cdot x_{16} + 1 \cdot x_{17} + 0 \cdot x_{18} + 0 \cdot x_{19} + 0 \cdot x_{20} + 0 \cdot x_{21} + 0 \cdot x_{22} + 0 \cdot x_{23} + 0 \cdot x_{24}$	3	-3	$E(4)$	$E(4)$	-3	3	$-E(4)$	$-E(4)$	0	0	0	0	0	0	0	0	0	3	-3	$-E(4)$	-3	$E(4)$	3	$E(4)$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
$0 \cdot x_1 + 1 \cdot x_2 + 0 \cdot x_3 + 0 \cdot x_4 + 0 \cdot x_5 + 0 \cdot x_6 + 0 \cdot x_7 + 0 \cdot x_8 + 0 \cdot x_9 + 0 \cdot x_{10} + 0 \cdot x_{11} + 0 \cdot x_{12} + 0 \cdot x_{13} + 0 \cdot x_{14} + 0 \cdot x_{15} + 0 \cdot x_{16} + 0 \cdot x_{17} + 1 \cdot x_{18} + 0 \cdot x_{19} + 0 \cdot x_{20} + 0 \cdot x_{21} + 0 \cdot x_{22} + 0 \cdot x_{23} + 0 \cdot x_{24}$	3	-3	-1	1	3	-3	-1	1	0	0	0	0	0	0	0	0	3	-3	1	3	-1	-3	1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
$1 \cdot x_1 + 0 \cdot x_2 + 0 \cdot x_3 + 0 \cdot x_4 + 0 \cdot x_5 + 0 \cdot x_6 + 0 \cdot x_7 + 0 \cdot x_8 + 0 \cdot x_9 + 0 \cdot x_{10} + 0 \cdot x_{11} + 0 \cdot x_{12} + 0 \cdot x_{13} + 0 \cdot x_{14} + 0 \cdot x_{15} + 0 \cdot x_{16} + 0 \cdot x_{17} + 0 \cdot x_{18} + 0 \cdot x_{19} + 0 \cdot x_{20} + 0 \cdot x_{21} + 0 \cdot x_{22} + 0 \cdot x_{23} + 0 \cdot x_{24}$	3	3	1	1	3	3	1	1	0	0	0	0	0	0	0	0	3	3	1	3	1	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
$0 \cdot x_1 + 0 \cdot x_2 + 0 \cdot x_3 + 1 \cdot x_4 + 0 \cdot x_5 + 0 \cdot x_6 + 0 \cdot x_7 + 0 \cdot x_8 + 0 \cdot x_9 + 0 \cdot x_{10} + 0 \cdot x_{11} + 0 \cdot x_{12} + 0 \cdot x_{13} + 0 \cdot x_{14} + 0 \cdot x_{15} + 0 \cdot x_{16} + 0 \cdot x_{17} + 0 \cdot x_{18} + 0 \cdot x_{19} + 1 \cdot x_{20} + 0 \cdot x_{21} + 0 \cdot x_{22} + 0 \cdot x_{23} + 0 \cdot x_{24}$	3	3	-1	-1	3	3	-1	-1	0	0	0	0	0	0	0	0	3	3	-1	3	-1	3	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
$0 \cdot x_1 + 0 \cdot x_2 + 1 \cdot x_3 + 0 \cdot x_4 + 0 \cdot x_5 + 0 \cdot x_6 + 0 \cdot x_7 + 0 \cdot x_8 + 0 \cdot x_9 + 0 \cdot x_{10} + 0 \cdot x_{11} + 0 \cdot x_{12} + 0 \cdot x_{13} + 0 \cdot x_{14} + 0 \cdot x_{15} + 0 \cdot x_{16} + 0 \cdot x_{17} + 0 \cdot x_{18} + 0 \cdot x_{19} + 0 \cdot x_{20} + 0 \cdot x_{21} + 0 \cdot x_{22} + 0 \cdot x_{23} + 0 \cdot x_{24}$	3	-3	1	-1	3	-3	1	-1	0	0	0	0	0	0	0	0	3	-3	-1	3	1	-3	-1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
$0 \cdot x_1 + 0 \cdot x_2 + 0 \cdot x_3 + 0 \cdot x_4 + 0 \cdot x_5 + 0 \cdot x_6 + 1 \cdot x_7 + 0 \cdot x_8 + 0 \cdot x_9 + 0 \cdot x_{10} + 0 \cdot x_{11} + 0 \cdot x_{12} + 0 \cdot x_{13} + 0 \cdot x_{14} + 0 \cdot x_{15} + 0 \cdot x_{16} + 0 \cdot x_{17} + 0 \cdot x_{18} + 0 \cdot x_{19} + 0 \cdot x_{20} + 0 \cdot x_{21} + 0 \cdot x_{22} + 1 \cdot x_{23} + 0 \cdot x_{24}$	3	3	$-E(4)$	$E(4)$	-3</																																											

$$\begin{aligned} P_1 &= \text{Group}([\{\}]) \cong 1 \\ P_2 &= \text{Group}([\{(10, 12, 11)\}]) \cong C3 \\ P_3 &= \text{Group}([\{(7, 8, 9)(10, 12, 11)\}]) \cong C3 \\ P_4 &= \text{Group}([\{(7, 8, 9)(10, 11, 12)\}]) \cong C3 \\ P_5 &= \text{Group}([\{(7, 9, 8)\}]) \cong C3 \\ P_6 &= \text{Group}([\{(10, 12, 11), (7, 8, 9)(10, 12, 11)\}]) \cong C3 \times C3 \end{aligned}$$

$N_1 = \text{Group}((1, 2, 3, 4), (5, 6), (8, 9), (11, 12), (1, 3)(2, 4)(5, 6), (1, 3)(2, 4), (7, 9, 8)(10, 11, 12), (7, 8, 9)) \cong C_2 \times (C_3 \times C_3) : C_4$
 $N_2 = \text{Group}((1, 2, 3, 4), (5, 6), (8, 9), (11, 12), (1, 3)(2, 4)(5, 6), (1, 3)(2, 4), (7, 9, 8)(10, 11, 12), (7, 8, 9)) \cong C_2 \times (C_3 \times C_3) : C_4$
 $N_3 = \text{Group}((1, 2, 3, 4), (5, 6), (8, 9), (11, 12), (1, 3)(2, 4)(5, 6), (1, 3)(2, 4), (7, 9, 8)(10, 11, 12), (7, 8, 9)) \cong C_2 \times (C_3 \times C_3) : C_4$
 $N_4 = \text{Group}((1, 2, 3, 4), (5, 6), (8, 9), (11, 12), (1, 3)(2, 4)(5, 6), (1, 3)(2, 4), (7, 9, 8)(10, 11, 12), (7, 8, 9)) \cong C_2 \times (C_3 \times C_3) : C_4$
 $N_5 = \text{Group}((1, 2, 3, 4), (5, 6), (8, 9), (11, 12), (1, 3)(2, 4)(5, 6), (1, 3)(2, 4), (7, 9, 8)(10, 11, 12), (7, 8, 9)) \cong C_2 \times (C_3 \times C_3) : C_4$
 $N_6 = \text{Group}((1, 2, 3, 4), (5, 6), (8, 9), (11, 12), (1, 3)(2, 4)(5, 6), (1, 3)(2, 4), (7, 9, 8)(10, 11, 12), (7, 8, 9)) \cong C_2 \times (C_3 \times C_3) : C_4$