Ordinary character table of $G \cong C2 \times C2 \times A4$:

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	6f																	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	~ J		6e	6d	2g	6c	3b	2f	6b	2e	6a	2d	2c	3a	2b	2a	1a	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	χ_1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1		-1	-1	1	1	1	-1	-1	-1	-1	1	1	1	-1	-1	1	χ_2
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-1		1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	1	χ_3
$ \begin{vmatrix} \chi_6 & 1 & -1 & -1 & E(3) & 1 & 1 & -E(3) & -1 & -E(3) & -1 & E(3)^2 & E(3) & 1 & -E(3)^2 & -E(3)^2 & H \\ \chi_7 & 1 & -1 & 1 & E(3)^2 & 1 & -1 & -E(3)^2 & -1 & E(3)^2 & 1 & E(3) & -E(3)^2 & -1 & -E(3) & E(3) & -1 \\ \chi_8 & 1 & -1 & 1 & E(3) & 1 & -1 & -E(3) & -1 & E(3) & 1 & E(3)^2 & -E(3) & -1 & -E(3)^2 & E(3)^2 & -1 \\ \chi_9 & 1 & 1 & -1 & E(3)^2 & 1 & -1 & E(3)^2 & 1 & -E(3)^2 & -1 & E(3) & -E(3)^2 & -1 & E(3) & -E(3) & -1 \\ \chi_{10} & 1 & 1 & -1 & E(3) & 1 & -1 & E(3) & 1 & -E(3) & -1 & E(3)^2 & -E(3) & -1 & E(3)^2 & -E(3)^2 & -1 \\ \chi_{11} & 1 & 1 & E(3)^2 & 1 & 1 & E(3)^2 & 1 & E(3)^2 & 1 & E(3) & E(3)^2 & 1 & E(3) & E(3)^2 & 1 \\ \chi_{12} & 1 & 1 & 1 & E(3) & 1 & 1 & E(3) & 1 & E(3) & 1 & E(3)^2 & E(3) & 1 & E(3)^2 & E(3)^2 & H \end{vmatrix} $	-1		-1	1	-1	-1	1	-1	1	1	1	-1	1	1	-1	1	1	χ_4
$ \begin{vmatrix} \chi_6 & 1 & -1 & -1 & E(3) & 1 & 1 & -E(3) & -1 & -E(3) & -1 & E(3)^2 & E(3) & 1 & -E(3)^2 & -E(3)^2 & H \\ \chi_7 & 1 & -1 & 1 & E(3)^2 & 1 & -1 & -E(3)^2 & -1 & E(3)^2 & 1 & E(3) & -E(3)^2 & -1 & -E(3) & E(3) & -1 \\ \chi_8 & 1 & -1 & 1 & E(3) & 1 & -1 & -E(3) & -1 & E(3) & 1 & E(3)^2 & -E(3) & -1 & -E(3)^2 & E(3)^2 & -1 \\ \chi_9 & 1 & 1 & -1 & E(3)^2 & 1 & -1 & E(3)^2 & 1 & -E(3)^2 & -1 & E(3) & -E(3)^2 & -1 & E(3) & -E(3) & -1 \\ \chi_{10} & 1 & 1 & -1 & E(3) & 1 & -1 & E(3) & 1 & -E(3) & -1 & E(3)^2 & -E(3) & -1 & E(3)^2 & -E(3)^2 & -1 \\ \chi_{11} & 1 & 1 & E(3)^2 & 1 & 1 & E(3)^2 & 1 & E(3)^2 & 1 & E(3) & E(3)^2 & 1 & E(3) & E(3)^2 & 1 \\ \chi_{12} & 1 & 1 & 1 & E(3) & 1 & 1 & E(3) & 1 & E(3) & 1 & E(3)^2 & E(3) & 1 & E(3)^2 & E(3)^2 & H \end{vmatrix} $	E(3)		-E(3)	-E(3)	1	$E(3)^{2}$	E(3)	-1	$-E(3)^2$	-1	$-E(3)^2$	1	1	$E(3)^{2}$	-1	-1	1	χ_5
$ \begin{vmatrix} \chi_8 & 1 & -1 & 1 & E(3) & 1 & -1 & -E(3) & -1 & E(3) & 1 & E(3)^2 & -E(3) & -1 & -E(3)^2 & E(3)^2 & -1 \\ \chi_9 & 1 & 1 & -1 & E(3)^2 & 1 & -1 & E(3)^2 & 1 & -E(3)^2 & -1 & E(3) & -E(3)^2 & -1 & E(3) & -E(3) & -1 \\ \chi_{10} & 1 & 1 & -1 & E(3) & 1 & -1 & E(3) & 1 & -E(3) & -1 & E(3)^2 & -E(3) & -1 & E(3)^2 & -E(3)^2 & -1 \\ \chi_{11} & 1 & 1 & E(3)^2 & 1 & 1 & E(3)^2 & 1 & E(3)^2 & 1 & E(3) & E(3)^2 & 1 & E(3) & E(3) \\ \chi_{12} & 1 & 1 & 1 & E(3) & 1 & 1 & E(3) & 1 & E(3) & 1 & E(3)^2 & E(3) & 1 & E(3)^2 & E$	E(3)	$)^{2}$	$-E(3)^2$	$-E(3)^2$	1	E(3)	$E(3)^{2}$	-1	-E(3)	-1	-E(3)	1	1	E(3)	-1	-1	1	χ_6
$ \begin{vmatrix} \chi_9 & 1 & 1 & -1 & E(3)^2 & 1 & -1 & E(3)^2 & 1 & -E(3)^2 & -1 & E(3) & -E(3)^2 & -1 & E(3) & -E(3) & -E($	-E(3)	E(3)	-E(3)	-1	$-E(3)^2$	E(3)	1	$E(3)^{2}$	-1	$-E(3)^2$	-1	1	$E(3)^{2}$	1	-1	1	χ_7
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	-E(3	2 _	$E(3)^{2}$	$-E(3)^2$	-1	-E(3)	$E(3)^{2}$	1		-1		-1	1		1	-1	1	χ_8
$ \begin{vmatrix} \chi_{11} & 1 & 1 & E(3)^2 & 1 & 1 & E(3)^2 & 1 & E(3)^2 & 1 & E(3) & E(3)^2 & 1 & E(3) & E(3) \\ \chi_{12} & 1 & 1 & 1 & E(3) & 1 & 1 & E(3) & 1 & E(3) & 1 & E(3)^2 & E(3) & 1 & E(3)^2 & E(3)^2$	-E(3	3)	-E(3)	E(3)	-1	$-E(3)^2$	E(3)	-1	$-E(3)^2$	1	$E(3)^{2}$	-1	1	$E(3)^{2}$	-1	1	1	χ_9
$ \begin{vmatrix} \chi_{11} & 1 & 1 & E(3)^2 & 1 & 1 & E(3)^2 & 1 & E(3)^2 & 1 & E(3) & E(3)^2 & 1 & E(3) & E(3) \\ \chi_{12} & 1 & 1 & 1 & E(3) & 1 & 1 & E(3) & 1 & E(3) & 1 & E(3)^2 & E(3) & 1 & E(3)^2 & E(3)^2$	-E(3	$)^{2}$ -	$-E(3)^2$	$E(3)^{2}$	-1		$E(3)^{2}$	-1	-E(3)	1		-1	1		-1	1	1	χ_{10}
	E(3))	E(3)	E(3)	1	$E(3)^{2}$	E(3)	1	$E(3)^{2}$	1	$E(3)^{2}$	1	1	$E(3)^{2}$	1	1	1	χ_{11}
	E(3)	2	$E(3)^{2}$	$E(3)^{2}$	1	E(3)	$E(3)^{2}$	1	E(3)	1	E(3)	1	1	E(3)	1	1	1	χ_{12}
$ \chi_{13} $ 3 -3 -3 0 -1 3 0 1 0 1 0 0 -1 0	0		0	0	-1	0	0	1	0	1	0	3	-1	0	-3	-3	3	χ_{13}
$ \chi_{14} $ 3 -3 3 0 -1 -3 0 1 0 -1 0 0 1 0	0		0	0	1	0	0	-1	0	1	0	-3	-1	0	3	-3	3	χ_{14}
$\left \begin{array}{cccccccccccccccccccccccccccccccccccc$	0		0	0	1	0	0	1	0	-1	0	-3	-1	0	-3	3	3	χ_{15}
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0		0	0	-1	0	0	-1	0	-1	0	3	-1	0	3	3	3	χ_{16}

												χ_{16}	3 3	3 0 -1	3 0 -1	0 -1 0	0 -1 0	0 0
Trivial source character table of $G \cong C2 \times C2 \times A4$ at $p = 2$:	N7 N7	7.7	7.7	N7 N	A7 A7 A7 A7	A7 A7	7 37 37	A7 A7	7 77	A7 A7 A7	1 A7 A	7 27	7 3.7	A7 A7	A 7	7.7	A7	7.7
Normalisers N_i	N_1 N_2	N_3	N_4	N_5 N_5	$\frac{N_6}{R}$ $\frac{N_7}{R}$ $\frac{N_8}{R}$ $\frac{N_9}{R}$	N_{10} N		$\frac{N_{14}}{D}$		$N_{17} \mid N_{18} \mid N_{19}$				$N_{24} N_{25} $	N ₂₆	N ₂₇	N ₂₈	N_{29}
p-subgroups of G up to conjugacy in G	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	P ₃	1.2 2.2 2.6		$egin{array}{ c c c c c c c c c c c c c c c c c c c$	P_{10} P_{10}		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		$\begin{array}{c cccc} P_{17} & P_{18} & P_{19} \\ \hline 1a & 1a & 1a \\ \end{array}$			$P_{22} P_{23} $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\frac{P_{26}}{2}$	1 2 2 2 2 b	1 2 2 2 a	$\frac{P_{29}}{2h}$
Representatives $n_j \in N_i$		** ***	1 <i>a</i> 3 <i>a</i> 3 <i>o</i>	1 <i>a</i> 3 <i>a</i> 3 <i>b</i> 1	$\begin{bmatrix} 1a & 1a & 1a & 1a \\ 0 & 0 & 0 & 0 \end{bmatrix}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 <i>a</i> 1 <i>a</i> 3 <i>a</i>	00 -00	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					0 0	0 0 0	10 30	$\frac{30}{0}$ $\frac{1a}{0}$ $\frac{3a}{0}$ $\frac{30}{0}$
$\begin{vmatrix} 1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} \\ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} \end{vmatrix}$					$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix}$					$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix}$				$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$	0 0	0 0 0		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$					$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix}$					$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix}$			1 1	$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$	0 0	0 0 0		
$\frac{0 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 1 \cdot \chi_{5} + 0 \cdot \chi_{6} + 1 \cdot \chi_{7} + 0 \cdot \chi_{8} + 1 \cdot \chi_{9} + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16}}{1 \cdot \chi_{1} + 1 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 1 \cdot \chi_{5} + 1 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 2 \cdot \chi_{14} + 2 \cdot \chi_{15} + 1 \cdot \chi_{16}}$			0 0 0		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 ($\frac{0}{0}$	0 0 0		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	 		· ·	0 0 0	0 0	0 0 0	0 0	
70- 70- 70- 70- 70- 70- 70- 70- 70- 70-			0 0 0	0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$,	, , ,	0 0 0		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0	0 0 0	0 0	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16}$					$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix}$					$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix}$				$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$	0 0	0 0 0		
$ \begin{vmatrix} 0 \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} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16} \\ 0 \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} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16} \\ \end{vmatrix} $	$\begin{bmatrix} 0 & 2*E(3) & 2*E(3) & 0 \\ 0 & 2*E(2)^2 & 2*E(2) & 0 \end{bmatrix}$	0 2 * E(3) 2 * E(3)			$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix}$				$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$, I , I , I				$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$	0 0	0 0 0		
$\frac{0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16}}{1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16}}$		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	8 2 2		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		0 0	0 0 0	0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0		-	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0	0 0 0	0 0	
$ \begin{vmatrix} 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_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 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} \\ \end{vmatrix} $			$\begin{bmatrix} 0 & 2 & 2 \\ 8 & 2*E(3) & 2*E(3)^2 \end{bmatrix}$		$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix}$				- -	$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix}$		-	. .	$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$	0 0	0 0 0		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{bmatrix} 0 & 2*E(3) & 2*E(3) & 0 \\ 0 & 2*E(3)^2 & 2*E(3) & 0 \end{bmatrix}$		8 2 * E(3) 2 * E(3) 8 $2 * E(3)^2 2 * E(3)$		$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix}$		$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$			$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix}$			1 1	$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$	0 0	0 0 0		
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16}$			0 2*E(3) 2*E(3)		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0	$\frac{0}{0}$	0 0 0		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	<u> </u>			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0	0 0 0	0 0	
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16}$				$\begin{bmatrix} 8 & 2 & 2 & 2 \\ 8 & 2 * E(3) & 2 * E(3)^2 \end{bmatrix}$	$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix}$				- -	$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix}$, l ,	· ·	$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$	0 0	0 0 0		
$ \begin{vmatrix} 0 \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} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16} \\ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{19} + 0 \cdot$	$\begin{bmatrix} 0 & 2*E(3) & 2*E(3) & 0 \\ 0 & 2*E(2)^2 & 2*E(2) & 0 \end{bmatrix}$			$\begin{bmatrix} 8 & 2*E(3) & 2*E(3) \\ 8 & 2*E(3)^2 & 2*E(3) \end{bmatrix}$	$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix}$				$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$					$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$	0 0	0 0 0		
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16}$			0 0 0		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 (0 0 0	0 0 0	, , ,	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0 0		-	0 0 0	0 0	0 0 0	0 0	
$\frac{1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16}}{1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_{15} + 1 \cdot \chi_{16}}$			0 0 0	0 0	$\frac{8}{0}$ $\frac{0}{8}$ $\frac{0}{0}$ $\frac{0}{0}$, ,	0 0	0 0 0	0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			· ·	<u> </u>	0 0	0 0 0	0 0	0 0 0
$\frac{1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \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} + 2 \cdot \chi_{13} + 1 \cdot \chi_{14} + 2 \cdot \chi_{15} + 1 \cdot \chi_{16}}{1 \cdot \chi_1 + 1 \cdot \chi_1 + 2 $			0 0		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$, ,	$\frac{0}{0}$	0 0 0						$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0	0 0 0	0 0	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 2 \cdot \chi_{13} + 2 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16}$			0 0	0 0 0	0 0 0	0 0	0 0	0 0		0 0 0		<u> </u>	·	<u> </u>	0 0	0 0 0	0 0	0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 2 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16}$			0 0	12 0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	`	, , ,	0 0 0	- -	0 0 0				$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0	0 0 0	0 0	0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16}$			0 0 0	0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	4 (, , ,	0 0 0		0 0 0			, <u> </u>	0 0 0	0 0	0 0 0	0 0	0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16}$			12 0 0	0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 4	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0 0	<u> </u>	0 0 0		, l ,	· ·	0 0 0	0 0	0 0 0	0 0	0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 2 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16}$			0 0 0	0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 ($0 \mid 4 \mid 0$	0 0 0		0 0 0		-		0 0 0	0 0	0 0 0	0 0	0 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 2 \cdot \chi_{15} + 1 \cdot \chi_{16}$			12 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 0	0 0	0 0 0	0 0	0 0 0 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16}$			0 0 0	12 0 0 4	4 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	0 0 0 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$			0 0 0	0 0 4	$4 \mid 0 \mid 0 \mid 0$	0 0	0 0 0	$\begin{vmatrix} 0 & 4 & 4 \end{vmatrix}$	$\frac{4}{2}$ 0	$0 \mid 0 \mid 0 \mid$		0 0	0 0	$0 \mid 0 \mid 0$	0 0	0 0 0	0 0	0 0 0 0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	$4 4 * E(3) 4 * E(3)^2 0$	0 0 0	0 0 0	0 0 4	$4 \mid 0 \mid 0 \mid 0$	0 0	0 0 0	0 4 4*E(3)	/ / /	$0 \mid 0 \mid 0 \mid$		0 0	0 0	$0 \mid 0 \mid 0$	0 0	0 0 0	0 0	0 0 0 0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$			0 0 0	0 0 0	4 0 0 0	0 (0 0	$0 4 4*E(3)^2$	$()^2 4*E(3) \qquad 0$	0 0 0	0 0 0	0 (0 0	0 0 0	0 0	0 0 0	0 0	0 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16}$		0 0 0	0 0 0	0 0 0	4 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 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$			0 0 0	0 0 0	4 0 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 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16}$	12 0 0 4	0 0 0	0 0 0	0 0 0	0 4 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 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16}$	12 0 0 4	0 0 0	0 0 0	0 0 0	0 4 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 0 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16}$			0 0 0	0 0 4	$4 \mid 0 \mid 0 \mid 0$	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	$0 \qquad 0 \qquad 0$
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16}$		4 1 1	4 1 1	4 1 1 (0 0 0 0	0 (0 0	0 0 0	0 0	0 0 0	0 4 1	1 (0 0	0 0 0	0 0	0 0 0	0 0	0 0 0
		$4 E(3) E(3)^2$	4 $E(3)$ $E(3)^2$	$4 E(3) E(3)^2 ($	$0 \mid 0 \mid 0 \mid 0$	0 (0 0 0	0 0 0		0 0 0				$0 \mid 0 \mid 0$	0 0	0 0 0	0 0	0 0 0
		$4 E(3)^2 E(3)$	4 $E(3)^2$ $E(3)$	$4 E(3)^2 E(3) $	0 0 0 0	0 (0 0 0		0 0	0 0 0	$\begin{vmatrix} 0 & 4 & E(3) \end{vmatrix}$	$)^{2}$ $E(3)$ (0 0	$0 \mid 0 \mid 0$	0 0	0 0 0	0 0	0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16}$	6 0 0 2	6 0 0	6 0 0	6 0 0 2	2 2 2 2	2 2	2 2 2	2 0 0	0 0	0 0 0	0 6 0			0 0 0	0 0	0 0 0	0 0	0 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	6 0 0 2	0 0 0	0 0 0	6 0 0 2	2 4 4 4	0 (0 0	2 0 0	0 2	2 2 2	0 0 0	0 () 2	0 0 0	0 0	0 0 0	0 0	0 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	6 0 0 4	6 0 0	0 0 0	0 0 0 2	2 2 4 0	2 (0 4 0	0 0 0	0 0	2 2 2	2 0 0	0 (0 0	2 0 0	0 0	0 0 0	0 0	0 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16}$	6 0 0 4	0 0 0	6 0 0	0 0 0 2	2 4 2 0	0 2	2 0 4	0 0 0	0 2	0 2 2	2 0 0	0 (0 0	0 2 0	0 0	0 0 0	0 0	0 0 0 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	2 2 2 2	0 0 0	0 0 0	2 2 2 2	2 0 0 0	0 (0 0	2 2 2	2 0	0 0 0	2 0 0			0 0 2	2 2	0 0 0	0 0	0 0 0 0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$		0 0 0	0 0 0	$2 2 * E(3)^2 2 * E(3)$	2 0 0 0	0 (0 0 0	$2 2 \cdot 2 \cdot E(3)^2$	$(2)^2 2 * E(3) 0$	0 0 0	2 0 0	0 (0 0	0 0 2 2	$*E(3)^2 2*E(3)$	0 0 0	0 0	0 0 0 0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$			0 0 0	$2 ext{ } 2 * E(3) ext{ } 2 * E(3)^2 ext{ } 2$	2 0 0 0	0 (0 0 0	2 2 * E(3)	$(3) 2*E(3)^2 \mid 0 \mid$	$0 \mid 0 \mid 0 \mid$	2 0 0	0 (0 0	0 0 2 2	$2*E(3) 2*E(3)^2$	0 0 0	0 0	0 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '		0 0 0	0 0 0 2	2 2 0 0	2 (0 0	0 2 2	2 2	0 0 0	0 0 0			0 0 0	0 0	2 2 2	0 0	0 0 0 0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$		$2 2 * E(3)^2 2 * E(3)$	0 0 0	0 0 2	2 2 0 0	2 ($0 \mid 0 \mid 0$	$0 2 2 * E(3)^2$	(2 * E(3) 2	0 0 0		0 (0 0	0 0 0	0 0	$2 2 * E(3)^2 2 * E(3)$	0 0	0 0 0 0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$			0 0 0		2 2 0 0	2 (1 1	0 2 2 * E(3)	/ \ /	0 0 0	0 0	0 (0 0	0 0 0	0 0	$2 2 * E(3) 2 * E(3)^2$	0 0	0 0 0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$			2 2 2	, , , , , , , , , , , , , , , , , , ,	2 0 2 0		- ~ ~	~		2 0 0		0 (0 0	0 0 0	0 0	0 0 0	2 2	2 0 0 0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$		0 0 0	$2 2 * E(3)^2 2 * E(3)$		2 0 2 0	0 2	2 0 0	$0 2 2 * E(3)^2$	$(2)^2 2 * E(3) 0 $	2 0 0	0 0 0	0 (0 0	0 0 0	0 0	0 0 0	$2 2 * E(3)^2 2 *$	$_{\epsilon}E(3) \mid 0 0 0$
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$			$2 2 * E(3) 2 * E(3)^2$		1 1 1		1 1	0 2 2 * E(3)		1 1 1	1 1	0 0	0 0	0 0 0	0 0	0 0 0	2 2 * E(3) 2 *	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$			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	1 1	1 1 1 1
	$1 E(2)^2 E(2)$	$1 - E(2)^2 - E(2)$	1 5/2\2 5/2\	$ 1 E(2)^2 E(2) $	1 1 1 1	1 1 1	1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	E(2) 1	1 1 1	1 1 1 17/9	12 17(2)		1 1 1	$E(2)^2$ $E(2)$	1 $E(9)^2$ $E(9)$	1 57(2)2	$E(9)$ 1 $E(9)^2$ $E(9)$

$P_1 = Group([()]) \cong 1$ $P_2 = Group([(1,35)(2,28)(3,24)(4,45)(5,20)(6,19)(7,17)(8,41)(9,13)(10,12)(11,38)(14,48)(15,34)(16,33)(18,31)(21,47)(22,27)(23,26)(25,46)(29,44)(30,43)(32,42)(36,40)(37,39)]) \cong C2$

- $P_3 = Group([(1,3)(2,7)(4,11)(5,12)(6,13)(8,18)(9,19)(10,20)(14,25)(15,26)(16,27)(17,28)(21,32)(22,33)(23,34)(24,35)(29,39)(30,40)(31,41)(36,43)(37,44)(38,45)(42,47)(46,48)]) \cong C2$ $P_{4} = Group([(1,2)(3,7)(4,8)(5,9)(6,10)(11,18)(12,19)(13,20)(14,21)(15,22)(16,23)(17,24)(25,32)(26,33)(27,34)(28,35)(29,36)(30,37)(31,38)(39,43)(40,44)(41,45)(42,46)(47,48)]) \cong C2$
- $P_5 = Group([(1,7)(2,3)(4,18)(5,19)(6,20)(8,11)(9,12)(10,13)(14,32)(15,33)(16,34)(17,35)(21,25)(22,26)(23,27)(24,28)(29,43)(30,44)(31,45)(36,39)(37,40)(38,41)(42,48)(46,47)]) \cong C2$ $P_6 = Group([(1,6)(2,10)(3,13)(4,16)(5,17)(7,20)(8,23)(9,24)(11,27)(12,28)(14,30)(15,31)(18,34)(19,35)(21,37)(22,38)(25,40)(26,41)(29,42)(32,44)(33,45)(36,46)(39,47)(43,48)]) \cong C2$
- $P_7 = Group([(1,13)(2,20)(3,6)(4,27)(5,28)(7,10)(8,34)(9,35)(11,16)(12,17)(14,40)(15,41)(18,23)(19,24)(21,44)(22,45)(25,30)(26,31)(29,47)(32,37)(33,38)(36,48)(39,42)(43,46)]) \cong C2$ $P_8 = Group([(1,10)(2,6)(3,20)(4,23)(5,24)(7,13)(8,16)(9,17)(11,34)(12,35)(14,37)(15,38)(18,27)(19,28)(21,30)(22,31)(25,44)(26,45)(29,46)(32,40)(33,41)(36,42)(39,48)(43,47)]) \cong C2$
- $P_{12} = Group([(1,3)(2,7)(4,11)(5,12)(6,13)(8,18)(9,19)(10,20)(14,25)(15,26)(16,27)(17,28)(21,32)(22,33)(23,34)(24,35)(29,39)(30,40)(31,41)(36,42)(29,39)(30,40)(31,41)(36,42)(29,39)(30,40)(31,41)(36,42)(29,39)(30,40)(31,41)(36,42)(29,39)(30,40)(31,41)(36,42)(29,39)(30,40)(31,41)(36,42)(29,39)(30,40)(31,41)(36,42)(29,39)(30,40)(31,41)(36,42)(29,39)(30,40)(31,41)(36,42)(29,39)(30,40)(31,41)(36,42)(39,48)(43,47)(36,42)(39,48)$
- $P_{14} = Group([(1,7)(2,3)(4,18)(5,19)(6,20)(8,11)(9,12)(10,13)(14,32)(15,33)(16,34)(17,35)(21,25)(22,26)(23,27)(24,28)(29,43)(30,44)(31,45)(19,12)$ $P_{15} = Group([(1,6)(2,10)(3,13)(4,16)(5,17)(7,20)(8,23)(9,24)(11,27)(12,28)(14,30)(15,31)(18,34)(19,35)(21,37)(22,38)(25,40)(26,41)(29,42)(32,44)(33,45)(36,46)(39,47)(43,48), (1,17)(2,24)(3,28)(4,31)(5,6)(7,35)(8,38)(9,10)(11,41)(12,13)(14,42)(15,16)(18,45)(19,20)(21,46)(22,23)(25,47)(26,27)(29,30)(32,48)(33,34)(36,37)(39,40)(43,44)]) \\ \cong C_2 \times C_2 \times C_3 \times C_3$ $P_{16} = Group([(1,28)(2,35)(3,17)(4,41)(5,13)(6,12)(7,24)(8,45)(9,20)(10,19)(11,31)(14,47)(15,27)(16,26)(18,38)(21,48)(22,34)(23,33)(25,42)(29,40)(30,39)(32,46)(36,44)(37,43),(1,6)(2,10)(3,13)(4,16)(5,17)(7,20)(8,23)(9,24)(11,27)(12,28)(14,30)(15,31)(18,34)(19,35)(21,37)(22,38)(25,40)(26,41)(29,42)(32,44)(33,45)(36,46)(39,47)(43,48)]) \\ \cong C_2 \times C_2 \times C_3 \times C_3$
- $P_{19} = Group([(1,13)(2,20)(3,6)(4,27)(5,28)(7,10)(8,34)(9,35)(11,16)(12,17)(14,40)(15,41)(18,23)(19,24)(21,44)(22,45)(25,30)(26,31)(29,47)(32,37)(33,38)(36,48)(9,35)(11,16)(12,17)(14,40)(15,41)(18,23)(19,24)(21,44)(22,45)(25,30)(26,31)(29,47)(32,37)(33,38)(36,48)(39,42)(43,46), \\ (1,24)(2,13)(2,24)(2,13)(2,24)(2,13)(2,24)(2,13)(2,24)(2,13)(2,24)(2,13)(2,24)(2,13)(2,24)(2,13)(2,24)(2,13)(2,24)(2,13)(2,24)(2,13)(2,24)(2,$ $P_{20} = Group([(1,35)(2,28)(3,24)(4,45)(5,20)(6,19)(7,17)(8,41)(9,13)(10,12)(11,38)(14,48)(15,34)(16,33)(20,35)(21,36)(23,38)(25,39)(27,41)(30,42)(36,40)(37,39), (1,5)(2,9)(3,12)(4,15)(6,17)(7,19)(8,22)(10,24)(11,26)(13,28)(14,29)(16,31)(18,33)(20,35)(21,36)(23,38)(25,39)(27,41)(30,42)(36,40)(37,39), (1,5)(2,9)(3,12)(4,45)(5,20)(6,19)(7,17)(8,41)(9,13)(10,12)(11,38)(14,48)(15,34)(16,33)(18,31)(21,47)(22,27)(23,26)(25,46)(29,44)(30,43)(32,42)(36,40)(37,39), (1,5)(2,9)(3,12)(4,15)(6,17)(7,19)(8,22)(10,24)(11,26)(13,28)(14,29)(16,31)(18,31)(21,37)(21,37)(2$
- F(2) = Group([(1,3)(2,7)(4,11)(5,12)(6,33)(27,34)(24,35)(29,39)(30,40)(31,41)(35,42)(27,33)(23,34)(24,35)(29,39)(30,40)(31,41)(35,42)(43,43)(27,34)(28,35)(29,39)(30,40)(31,41)(35,42)(43,43)(43,43)(37,44)(38,43)(43,43)F(2) = Group([1,7)(2,3)(4,18)(5,19)(6,29)(8,11)(9,12)(10,13)(14,32)(15,33)(16,34)(17,35)(21,25)(22,26)(23,27)(24,28)(29,43)(30,44)(31,45)(36,39)(37,40)(38,41)(42,48)(43,47)(15,16)(12,13)(14,42)(15,16)(12,13)(14,42)(15,16)(12,13)(14,42)(15,16)(12,13)(14,42)(15,16)(12,13)(14,42)(15,16)(12,13)(14,12)(15,16)(12,13)(14,12)(15,16)(12,13)(14,12)(15,16)(12,13)(14,12)(15,16)(12,13)(14,12)(15,16)(12,13)(14,12)(15,16)(12,13)(14,12)(15,16)(12,13)(14,12)(15,16)(12,13)(14,12)(15,16)(12,13)(14,12)(15,16)(12,13)(14,12)(15,16)(15
- $F_{24} = Group([(1,3)(2,7)(4,11)(5,12)(6,43)(2,3)(2,3)(23,34)(24,35)(29,39)(30,40)(31,41)(36,42)(29,39)(32,49)(43,47)(11,34)(12,35)(14,37)(15,38)(18,27)(19,28)(21,32)(25,47)(26,27)(29,30)(32,48)(33,34)(36,37)(39,40)(31,41)(36,42)(39,48)(33,41)(36,42)(39,48)(43,47)(11,34)(12,35)(14,37)(15,38)(18,27)(19,28)(21,32)(22,33)(23,34)(24,35)(29,39)(30,40)(31,41)(36,42)(39,48)(33,41)(36,42)(39,48)(33,41)(36,42)(39,48)(33,41)(36,42)(39,48)(33,41)(36,42)(39,48)(33,41)(36,42)(39,48)(33,41)(36,42)(39,48)(33,41)(36,42)(39,48)(33,41)(36,42)(39,48)(33,41)(36,42)(39,48)(33,41)(36,42)(39,48)(33,41)(36,42)(39,48)(33,41)(36,42)(39,48)(33,41)(36,42)(39,48)(33,41)(36,42)(39,48)(3$ $F_{23} = Group([1,7)(2,3)(4,18)(5,19)(6,29)(8,11)(9,12)(10,13)(14,32)(15,33)(16,34)(17,35)(21,25)(22,26)(23,27)(24,28)(25,47)(26,27)(29,30)(32,48)(33,34)(36,37)(39,40)(43,48)(17,35)(21,27)(22,38)(25,47)(26,27)(29,30)(32,48)(33,34)(36,37)(39,40)(43,44)(31,45)(36,39)(37,40)(38,41)(42,48)(43,47)(43,48)(43,48)($
- $F_{27} = Group([(1,3)(2,7)(4,11)(5,12)(6,13)(8,18)(9,19)(10,20)(14,25)(15,26)(16,27)(17,28)(21,32)(22,33)(23,34)(24,35)(29,39)(30,40)(31,41)(36,43)(37,44)(38,45)(42,47)(46,48), (1,17)(2,24)(3,28)(4,31)(5,6)(7,35)(8,38)(9,10)(11,41)(12,13)(14,42)(15,16)(18,45)(19,20)(21,32)(22,33)(23,34)(24,35)(29,39)(30,40)(31,41)(36,43)(37,44)(38,45)(42,47)(46,48), (1,17)(2,24)(3,24)(33,45)(46,47)(46,48), (1,17)(2,24)(3,24)(33,45)(46,47)(46,48), (1,17)(2,24)(3,24)(33,45)(46,47)(46,48), (1,17)(2,24)(3,24)(33,45)(46,47)(46,48), (1,17)(2,24)(3,24)(33,45)(46,47)(46,48), (1,17)(2,24)(3,24)(33,45)(46,47)(46,48), (1,17)(2,24)(3,24)(33,45)(46,47)(46,48), (1,17)(2,24)(3,24)(33,45)(46,47)(46,48), (1,17)(2,24)(3,24)(36,47)(46,48), (1,17)(2,24)(36,47)(46,48), (1,17)(46,48), (1,17)(46,48), (1,17)(46,48), (1,17)(46,48), (1,17)(46,$ $P_{28} = Group([(1,2)(3,7)(4,8)(5,9)(6,10)(11,18)(12,19)(13,20)(14,21)(15,22)(16,23)(27,34)(28,35)(29,36)(30,37)(31,38)(39,43)(40,44)(41,45)(42,46)(47,48), (1,17)(2,24)(3,28)(4,31)(5,6)(7,35)(8,38)(9,10)(11,41)(12,13)(14,42)(15,16)(18,45)(19,20)(21,46)(22,23)(25,47)(26,27)(29,30)(32,48)(33,34)(36,37)(39,40)(43,44)] \\ \cong C_{2} \times C_{$

- $3.5 \times 3.5 \times 3.5$
- $S_{14} = Group([(1,17)(2,24)(3,28)(4,31)(5,6)(7,35)(2,32)(24,28)(29,32)(25,47)(26,27)(29,30)(32,48)(33,34)(36,37)(39,40)(43,44)(17,35)(21,25)(22,26)(23,27)(24,28)(29,43)(30,44)(31,45)(36,37)(39,40)(43,44)(17,35)(21,25)(22,26)(23,27)(24,28)(29,43)(30,44)(31,45)(36,37)(39,40)(43,44)(17,35)(21,25)(22,26)(23,27)(24,28)(29,43)(30,44)(31,45)(36,37)(39,40)(43,44)(17,35)(21,25)(22,26)(23,27)(24,28)(29,43)(30,44)(31,45)(36,37)(39,40)(43,44)(17,35)(21,25)(22,26)(23,27)(24,28)(29,43)(30,44)(31,45)(36,37)(39,40)(43,44)(17,35)(21,25)(22,26)(23,27)(24,28)(29,43)(30,44)(31,45)(36,37)(39,40)(43,45)(39,43$
- $N_{17} = Group([(1,5)(2,9)(3,12)(4,15)(6,23)(12,34)(24,35)(29,36)(32,47)(39,44)(40,43)(12,42)(25,48)(26,34)(27,33)(29,37)(30,36)(32,47)(39,44)(40,43)(12,42)(25,48)(26,34)(27,33)(29,37)(30,36)(32,47)(39,44)(40,43)(12,42)(25,48)(26,34)(27,33)(29,37)(30,36)(32,47)(39,44)(40,43)(12,42)(25,48)(26,34)(27,33)(29,37)(30,36)(32,47)(39,44)(40,43)(12,42)(25,48)(26,34)(27,33)(29,37)(30,36)(32,47)(39,44)(40,43)(12,42)(25,48)(26,34)(27,33)(29,37)(30,36)(32,47)(39,44)(40,43)(12,42)(25,48)(26,34)(27,33)(29,37)(30,36)(32,47)(39,44)(40,43)(12,42)(25,48)(26,34)(27,33)(29,37)(30,36)(32,47)(39,44)(40,43)(12,42)(25,48)(26,34)(27,33)(29,37)(30,36)(32,47)(39,44)(40,43)(41,45)(42,47)(46,48)(12,47)(46,4$ $N_{18} = Group([(1,10)(2,6)(3,20)(4,23)(5,24)(7,13)(8,16)(9,17)(11,34)(12,35)(14,37)(15,24)(25,34)(24,35)(29,36)(30,37)(31,38)(39,43)(40,44)(41,45)(42,46)(47,48)(13,24)(25,34)(24,35)(29,36)(30,37)(31,38)(39,43)(40,44)(41,45)(42,46)(47,48)(13,24)(25,34)(24,35)(29,36)(30,37)(31,38)(39,43)(40,44)(41,45)(42,46)(47,48)(13,24)(43,47)$

- 5 = Group([1,17)(2,24)(3,24)(4,31)(5,6)(7,35)(2,33)(23,34)(24,35)(29,36)(30,37)(31,38)(36,48)(9,35)(11,16)(12,17)(14,40)(15,21)(15,22)(16,23)(17,24)(23,37)(23,34)(24,35)(29,36)(30,37)(31,38)(36,48)(9,35)(11,16)(12,17)(14,40)(15,12)(6,13)(14,21)(15,12)(6,13)(14,21)(15,12)(13, 3, 1, 1, 1, 2, 3, 1