	$\overline{1a}$	$\overline{2a}$	2b	5a	2c	$\overline{4a}$	10a	10b	5b	10c	20a	10 <i>d</i>	10e	5c	10 <i>f</i>	20b	10 <i>g</i>	10h	5d	10i	20c	10 <i>j</i>	10k	10l	20d
χ_1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
χ_2	1	-1	-1	1	1	1	-1	-1	1	1	1	-1	-1	1	1	1	-1	-1	1	1	1	-1	-1	1	1
χ_3	1	-1	1	1	1	-1	-1	1	1	1	-1	-1	1	1	1	-1	-1	1	1	1	-1	-1	1	1	-1
χ_4	1	1	-1	1	1	-1	1	-1	1	1	-1	1	-1	1	1	-1	1	-1	1	1	-1	1	-1	1	-1
χ_5	1	-1	-1	$E(5)^{4}$	1	1	$-E(5)^4$	$-E(5)^4$	$E(5)^{3}$	$E(5)^4$	$E(5)^{4}$	$-E(5)^{3}$	$-E(5)^{3}$	$E(5)^{2}$	$E(5)^{3}$	$E(5)^{3}$	$-E(5)^2$	$-E(5)^2$	E(5)	$E(5)^{2}$	$E(5)^{2}$	-E(5)	-E(5)	E(5)	E(5)
χ_6	1	-1	-1	$E(5)^3$	1	1	$-E(5)^{3}$	$-E(5)^{3}$	E(5)	$E(5)^3$	$E(5)^3$	-E(5)	-E(5)	$E(5)^{4}$	E(5)	E(5)	$-E(5)^{4}$	$-E(5)^4$	$E(5)^2$	$E(5)^4$	$E(5)^4$	$-E(5)^{2}$	$-E(5)^{2}$	$E(5)^2$	$E(5)^2$
χ_7	1	-1	-1	$E(5)^2$	1	1	$-E(5)^2$	$-E(5)^{2}$	$E(5)^4$	$E(5)^2$	$E(5)^2$	$-E(5)^{4}$	$-E(5)^{4}$	E(5)	$E(5)^{4}$	$E(5)^4$	-E(5)	-E(5)	$E(5)^3$	E(5)	E(5)	$-E(5)^{3}$	$-E(5)^{3}$	$E(5)^3$	$E(5)^3$
χ_8	1	-1	-1	E(5)	1	1	-E(5)	-E(5)	$E(5)^2$	E(5)	E(5)	$-E(5)^{2}$	$-E(5)^{2}$	$E(5)^3$	$E(5)^2$	$E(5)^2$	$-E(5)^{3}$	$-E(5)^{3}$	$E(5)^4$	$E(5)^3$	$E(5)^3$	$-E(5)^{4}$	$-E(5)^4$	$E(5)^4$	$E(5)^4$
χ_9	1	-1	1	$E(5)^4$	1	-1	$-E(5)^{4}$	$E(5)^4$	$E(5)^3$	$E(5)^4$	$-E(5)^4$	$-E(5)^{3}$	$E(\hat{5})^{\hat{3}}$	$E(5)^2$	$E(5)^3$	$-E(5)^{3}$	$-E(5)^{2}$	$E(\hat{5})^2$	E(5)	$E(5)^2$	$-E(5)^{2}$	-E(5)	E(5)	E(5)	$-\dot{E}(5)$
χ_{10}	1	-1	1	$E(5)^3$	1	-1	$-E(5)^{3}$	$E(5)^3$	E(5)	$E(5)^3$	$-E(5)^3$	-E(5)	E(5)	$E(5)^4$	E(5)	-E(5)	$-E(5)^{4}$	$E(5)^4$	$E(5)^2$	$E(5)^4$	$-E(5)^{4}$	$-E(5)^{2}$	$E(5)^2$	$E(5)^2$	$-E(5)^{2}$
χ_{11}	1	-1	1	$E(5)^2$	1	-1	$-E(5)^{2}$	$E(5)^2$	$E(5)^4$	$E(5)^2$	$-E(5)^{2}$	$-E(5)^{4}$	$E(5)^4$	E(5)	$E(5)^{4}$	$-E(5)^{4}$	-E(5)	E(5)	$E(5)^3$	E(5)	-E(5)	$-E(5)^{3}$	$E(5)^{3}$	$E(5)^3$	$-E(5)^3$
χ_{12}	1	-1	1	E(5)	1		-E(5)	E(5)	$E(5)^2$	E(5)	-E(5)	$-E(5)^{2}$	$E(5)^2$	$E(5)^3$	$E(5)^2$	$-E(5)^{2}$	$-E(5)^{3}$	$E(5)^3$	$E(5)^4$	$E(5)^3$	$-E(5)^{3}$	$-E(5)^{4}$	$E(5)^{4}$	$E(5)^4$	$-E(5)^4$
χ_{13}	1	1	-1	$E(5)^4$	1	-1	$E(5)^4$	$-E(5)^4$	$E(5)^{3}$	$E(5)^{4}$	$-E(5)^{4}$	$E(\hat{5})^3$	$-E(5)^{3}$	$E(5)^{2}$	$E(5)^{3}$	$-E(5)^{3}$	$E(\hat{5})^2$	$-E(5)^{2}$	E(5)	$E(5)^{2}$	$-E(5)^{2}$	E(5)	$-\dot{E}(5)$	E(5)	-E(5)
χ_{14}	1	1	-1	$E(5)^3$	1	-1	$E(5)^{3}$	$-E(5)^{3}$	E(5)	$E(5)^{3}$	$-E(5)^{3}$	E(5)	-E(5)	$E(5)^{4}$	E(5)	-E(5)	$E(5)^4$	$-E(5)^{4}$	$E(5)^2$	$E(5)^{4}$	$-E(5)^4$	$E(5)^2$	$-E(5)^{2}$	$E(5)^2$	$-E(5)^{2}$
χ_{15}	1	1	-1	$E(5)^2$	1	-1	$E(5)^2$	$-E(5)^{2}$	$E(5)^4$	$E(5)^2$	$-E(5)^{2}$	$E(5)^4$	$-E(5)^{4}$	E(5)	$E(5)^{4}$	$-E(5)^{4}$	E(5)	-E(5)	$E(5)^{3}$	E(5)	-E(5)	$E(5)^3$	$-E(5)^{3}$	$E(5)^3$	$-E(5)^3$
χ_{16}	1	1	-1	E(5)	1	-1	E(5)	-E(5)	$E(5)^2$	E(5)	-E(5)	$E(5)^2$	$-E(5)^{2}$	$E(5)^3$	$E(5)^2$	$-E(5)^{2}$	$E(5)^3$	$-E(5)^{3}$	$E(5)^4$	$E(5)^3$	$-E(5)^{3}$	$E(5)^4$	$-E(5)^{4}$	$E(5)^4$	$-E(5)^4$
χ_{17}	1	1	1	$E(5)^4$	1	1	$E(5)^4$	$E(5)^4$	$E(5)^3$	$E(5)^4$	$E(5)^4$	$E(5)^3$	$E(\hat{5})^{\hat{3}}$	$E(5)^2$	$E(5)^3$	$E(\hat{5})^{\hat{3}}$	$E(5)^2$	$E(\hat{5})^2$	E(5)	$E(5)^2$	$E(\hat{5})^2$	E(5)	E(5)	E(5)	E(5)
χ_{18}	1	1	1	$E(5)^3$	1	1	$E(5)^{3}$	$E(5)^{3}$	E(5)	$E(5)^3$	$E(5)^3$	E(5)	E(5)	$E(5)^{4}$	E(5)	E(5)	$E(5)^4$	$E(5)^{4}$	$E(5)^2$	$E(5)^{4}$	$E(5)^{4}$	$E(5)^2$	$E(5)^2$	$E(5)^2$	$E(5)^2$
χ_{19}	1	1	1	$E(5)^2$	1	1	$E(5)^{2}$	$E(5)^{2}$	$E(5)^4$	$E(5)^{2}$	$E(5)^2$	$E(5)^{4}$	$E(5)^4$	E(5)	$E(5)^{4}$	$E(5)^4$	E(5)	E(5)	$E(5)^{3}$	E(5)	E(5)	$E(5)^3$	$E(5)^{3}$	$E(5)^3$	$E(5)^3$
χ_{20}	1	1	1	E(5)	1	1	E(5)	E(5)	$E(5)^2$	E(5)	E(5)	$E(5)^2$	$E(5)^2$	$E(5)^3$	$E(5)^2$	$E(5)^{2}$	$E(5)^3$	$E(5)^3$	$E(5)^{4}$	$E(5)^3$	$E(5)^3$	$E(5)^4$	$E(5)^{4}$	$E(5)^4$	$E(5)^4$
χ_{21}	2	0	0	$\overset{\circ}{2}$	-2	0	ò	ò´	$\stackrel{\cdot}{2}$	$-2^{'}$	ò	o´	o´	$\mathbf{\hat{2}}^{'}$	-2	O´	o´	o´	$\stackrel{\cdot}{2}$	-2	o´	o´	o´	-2	0
χ_{22}	2	0	0	$2*E(5)^4$	-2	0	0	0	$2 * E(5)^3$	$-2*E(5)^4$	0	0	0	$2*E(5)^2$	$-2*E(5)^3$	0	0	0	2 * E(5)	$-2*E(5)^2$	0	0	0	-2 * E(5)	0
χ_{23}	2	0	0	$2*E(5)^3$	-2	0	0	0	2 * E(5)	$-2*E(5)^3$	0	0	0	$2*E(5)^4$	-2 * E(5)	0	0	0	$2*E(5)^{2}$	$-2*E(5)^4$	0	0	0	$-2*E(5)^{2}$	0
χ_{24}	2	0	0	$2*E(5)^2$	-2	0	0	0	$2*E(5)^4$	$-2*E(5)^2$	0	0	0	2 * E(5)	$-2*E(5)^4$	0	0	0	$2*E(5)^3$	-2*E(5)	0	0	0	$-2*E(5)^3$	0
χ25	2	0	0	2 * E(5)	-2	0	0	0	$2 * E(5)^2$	-2 * E(5)	0	0	0	$2*E(5)^3$	$-2 * E(5)^2$	0	0	0	$2*E(5)^4$	$-2*E(5)^3$	0	0	0	$-2 * E(5)^4$	0

Trivial source character table of $G \cong C5 \times D8$ at $p = 2$:								
Normalisers N_i	N_1	N_2	N_3	N_4	N_5	N_6	N_7	N_8
p-subgroups of G up to conjugacy in G	P_1	P_2	P_3	P_4	P_5	P_6	P_7	P_8
Representatives $n_j \in N_i$	a $5a$ $5b$ $5c$ $5d$ $1a$	5a $5b$ $5c$ $5d$	1a $5a$ $5b$ $5c$ $5d$	1a $5a$ $5b$ $5c$	5d $1a$ $5a$ $5b$ $5c$	5d $1a$ $5a$ $5b$ $5c$ $5d$	1a $5a$ $5b$ $5c$ 5	5d $1a$ $5a$ $5b$ $5c$ $5d$
$1 \cdot \chi_{1} + 1 \cdot \chi_{2} + 1 \cdot \chi_{3} + 1 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 2 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} = 8$	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 0 0 0 0
$ \left \ 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 + 1 \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} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 2 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right \ 8 \cdot \left \ 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 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 2 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right \ 8 \cdot \left \ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot$	$8 8 * E(5)^4 8 * E(5)^3 8 * E(5)^2 8 * E(5) 0$	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
$ \left \ 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 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 2 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right \ 8 \cdot \left \ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 2 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right \ 8 \cdot \left \ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} $		0 0 0	$0 \qquad 0 \qquad 0 \qquad 0$	0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0 0
$ \left \ 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} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{23} + 2 \cdot \chi_{24} + 0 \cdot \chi_{25} \right \ 8 \cdot \left \ 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_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 2 \cdot \chi_{24} + 0 \cdot \chi_{25} \right \ 8 \cdot \left \ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_{10} + 0 \cdot \chi_{$	$8 8*E(5)^2 8*E(5)^4 8*E(5) 8*E(5)^3 \mid 0$	0 0 0	$0 \qquad 0 \qquad 0 \qquad 0$	0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0 0
$ \left \ 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} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 2 \cdot \chi_{25} \right \ 8 \cdot \left \ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 1 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 2 \cdot \chi_{25} \right \ 8 \cdot \left \ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_{19} $		0 0 0	0 0 0 0	0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0 0
$1 \cdot \chi_{1} + 1 \cdot \chi_{2} + 1 \cdot \chi_{3} + 1 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 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_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right) \\ = 0 \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} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right) \\ = 0 \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_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right) \\ = 0 \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_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right) \\ = 0 \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_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right) \\ = 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 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + $	4 4 4 4 4	4 4 4 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
$ \left[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} + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right] $	$4 4 * E(5)^3 4 * E(5) 4 * E(5)^4 4 * E(5)^2 \mid 4$	$4 * E(5)^3$ $4 * E(5)$ $4 * E(5)^4$ $4 * E(5)^2$	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
$ \left \ 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} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right \ 4 \cdot \left \ (1 - 1)^2 \right $	$4 4 * E(5) 4 * E(5)^2 4 * E(5)^3 4 * E(5)^4 4$	$4*E(5)$ $4*E(5)^2$ $4*E(5)^3$ $4*E(5)^4$	$0 \qquad 0 \qquad 0 \qquad 0$	0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0 0
$ \left \ 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 + 1 \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} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right \ 4 \cdot \left \ (1 - 1)^2 \right $	$4 4 * E(5)^4 4 * E(5)^3 4 * E(5)^2 4 * E(5) 4$	$4*E(5)^4$ $4*E(5)^3$ $4*E(5)^2$ $4*E(5)$	$0 \qquad 0 \qquad 0 \qquad 0$	0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0 0
$ \left \ 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} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right \ 4 \cdot \left \ (1 - 1)^2 \right $	$4 4 * E(5)^2 4 * E(5)^4 4 * E(5) 4 * E(5)^3 \mid 4$	$4*E(5)^2$ $4*E(5)^4$ $4*E(5)$ $4*E(5)^3$	$0 \qquad 0 \qquad 0 \qquad 0$	0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0 0
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 1 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 1 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right) \\ = 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 1 \cdot \chi_{21} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right) \\ = 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right) \\ = 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right) \\ = 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0 0 0	2 2 2 2	0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0	0 0 0 0 0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 1 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \end{vmatrix} = 4$	$4 4 * E(5)^4 4 * E(5)^3 4 * E(5)^2 4 * E(5) 0$	0 0 0	$2 2 * E(5)^4 2 * E(5)^3 2 * E(5)^2 2 * E(5)$	0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0 0
$0 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 1 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} = 4 \cdot \chi_{25} + 0 \cdot \chi_{15} +$	$4 4 * E(5)^3 4 * E(5) 4 * E(5)^4 4 * E(5)^2 \mid 0$	0 0 0	$2 2 * E(5)^3 2 * E(5) 2 * E(5)^4 2 * E(5)^2$	0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0 0
$0 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 1 \cdot \chi_{24} + 0 \cdot \chi_{25} = 4 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 1 \cdot \chi_{24} + 0 \cdot \chi_{25} = 4 \cdot \chi_{10} + 0 \cdot \chi_{10} +$		0 0 0	$2 2 * E(5)^2 2 * E(5)^4 2 * E(5) 2 * E(5)^3$	0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0 0
$ \left[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} + 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 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 1 \cdot \chi_{25} \right] $	$4 4 * E(5) 4 * E(5)^2 4 * E(5)^3 4 * E(5)^4 0$	0 0 0	$2 2 * E(5) 2 * E(5)^2 2 * E(5)^3 2 * E(5)^4$	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} + 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} + 1 \cdot \chi_{21} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right) \\ = 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 \cdot \chi_{21} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right) \\ = 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_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right) \\ = 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_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right) \\ = 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_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right) \\ = 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} + $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0 0 0	0 0 0 0 0	2 2 2 2	2 0 0 0 0	0 0 0 0 0 0	0 0 0 0	0 0 0 0 0
$0 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 1 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} = 4 \cdot \chi_{25} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} +$	$4 4 * E(5)^3 4 * E(5) 4 * E(5)^4 4 * E(5)^2 \mid 0$	0 0 0	0 0 0 0	$2 2 * E(5)^3 2 * E(5) 2 * E(5)$	$(0.15)^4 2*E(5)^2 \mid 0 \qquad 0 \qquad 0$	0 0 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 + 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} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 1 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 1 \cdot \chi_{25} = 4 \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} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 1 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 1 \cdot \chi_{25} = 4 \cdot \chi_{10} + 0 \cdot $		0 0 0	0 0 0 0	$2 2*E(5) 2*E(5)^2 2*E(5)$	$(0)^3 2 * E(5)^4 \mid 0 \qquad 0 \qquad 0$	0 0 0 0 0	0 0 0 0	0 0 0 0 0
$ \left[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} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 1 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right] $	$4 4 * E(5)^4 4 * E(5)^3 4 * E(5)^2 4 * E(5) 0$	0 0 0	$0 \qquad 0 \qquad 0 \qquad 0$	$2 2 * E(5)^4 2 * E(5)^3 2 * E(5)$	$(0)^2 2*E(5) 0 0 0$	0 0 0 0 0	0 0 0 0	0 0 0 0 0
$0 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 1 \cdot \chi_{24} + 0 \cdot \chi_{25} = 4 \cdot \chi_{10} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} = 4 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} +$		0 0 0	0 0 0 0	$2 2*E(5)^2 2*E(5)^4 2*E(5)$	$0 2 * E(5)^3 \mid 0 0 0$	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 + 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_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2 2 2 2	2 2 2 2	0 0 0 0	0 2 2 2 2	2 0 0 0 0 0	0 0 0 0	0 0 0 0 0
$ \left \ 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 + 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 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right \ 2 \cdot \left \ 2 \cdot \chi_{10} \right $	$2 2 * E(5)^2 2 * E(5)^4 2 * E(5) 2 * E(5)^3 \mid 2$	$2 * E(5)^2$ $2 * E(5)^4$ $2 * E(5)$ $2 * E(5)^3$	$2 2 * E(5)^2 2 * E(5)^4 2 * E(5) 2 * E(5)^3$	0 0 0	0 $2 * E(5)^2 2 * E(5)^4 2 * E(5)$	$2*E(5)^3 \mid 0 \qquad 0 \qquad 0 \qquad 0$	0 0 0 0	0 0 0 0 0
$ \left \ 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} + 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 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right \ 2 \cdot \left \ 2 \cdot \chi_{10} \right $	$2 2 * E(5)^4 2 * E(5)^3 2 * E(5)^2 2 * E(5)$	$2 * E(5)^4 2 * E(5)^3 2 * E(5)^2 2 * E(5)$	$2 2*E(5)^4 2*E(5)^3 2*E(5)^2 2*E(5)$	0 0 0	0 $2 * E(5)^4 2 * E(5)^3 2 * E(5)^2$	$2*E(5) \mid 0 \qquad 0 \qquad 0 \qquad 0$	0 0 0 0	0 0 0 0 0
$ \left \ 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 + 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 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right \ 2 \cdot \left \ 2 \cdot \chi_{10} \right $	$2 2 * E(5) 2 * E(5)^2 2 * E(5)^3 2 * E(5)^4 \mid 2$	$2 * E(5)$ $2 * E(5)^2$ $2 * E(5)^3$ $2 * E(5)^4$	$2 2 * E(5) 2 * E(5)^2 2 * E(5)^3 2 * E(5)^4$	0 0 0	0 2 $2 * E(5)$ 2 $* E(5)^2$ 2 $* E(5)^3$	$2*E(5)^4 \mid 0 \qquad 0 \qquad 0 \qquad 0$	0 0 0 0	0 0 0 0 0
$ \left \ 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} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right \ 2 \cdot \left \ 2 \cdot \chi_{10} \right $	$2 2 * E(5)^3 2 * E(5) 2 * E(5)^4 2 * E(5)^2 \mid 2$	$2 * E(5)^3$ $2 * E(5)$ $2 * E(5)^4$ $2 * E(5)^2$	$2 2 * E(5)^3 2 * E(5) 2 * E(5)^4 2 * E(5)^2$	0 0 0	$0 2 2 * E(5)^3 2 * E(5) 2 * E(5)^4$	$2*E(5)^2 \mid 0 \qquad 0 \qquad 0 \qquad 0$	0 0 0 0	0 0 0 0 0
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 1 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} +$	2 2 2 2 2	2 2 2 2	0 0 0 0	2 2 2 2	2 0 0 0 0	0 2 2 2 2 2	0 0 0 0	0 0 0 0 0
$ \left \ 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 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right \ 2 \cdot \left \ 2 \cdot \chi_{10} \right $	$2 2 * E(5)^2 2 * E(5)^4 2 * E(5) 2 * E(5)^3 \mid 2$	$2 * E(5)^2$ $2 * E(5)^4$ $2 * E(5)$ $2 * E(5)^3$	$0 \qquad 0 \qquad 0 \qquad 0$	$2 2 * E(5)^2 2 * E(5)^4 2 * E(5)^4$	$0 2 * E(5)^3 \mid 0 0 0$	0 2 $2*E(5)^2$ 2 $E(5)^4$ 2 $E(5)$ 2 $E(5)$	$\int_{0}^{3} 0 0 0 0 0 $	0 0 0 0 0
$ \left \ 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 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right \ 2 \cdot \left \ 2 \cdot \chi_{10} \right $	$2 2 * E(5)^4 2 * E(5)^3 2 * E(5)^2 2 * E(5)$	$2 * E(5)^4 2 * E(5)^3 2 * E(5)^2 2 * E(5)$	$0 \qquad 0 \qquad 0 \qquad 0$	$2 2 * E(5)^4 2 * E(5)^3 2 * E(5)$	$0^2 2 * E(5) 0 0 0$	0 2 $2*E(5)^4$ 2 $E(5)^3$ 2 $E(5)^2$ 2 $E(5)^4$	(0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	0 0 0 0 0
$ \left \ 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 + 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} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 1 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right \ 2 \cdot \left \ 2 \cdot \chi_{10} \right $	$2 2 * E(5) 2 * E(5)^2 2 * E(5)^3 2 * E(5)^4 2$	$2*E(5)$ $2*E(5)^2$ $2*E(5)^3$ $2*E(5)^4$	0 0 0 0	$2 2*E(5) 2*E(5)^2 2*E(5)$	$(0)^3 2*E(5)^4 \mid 0 \qquad 0 \qquad 0$	0 2 $2*E(5)$ 2 $E(5)^2$ 2 $E(5)^3$ 2 $E(5)^3$ 2 $E(5)^3$ 2	$\int_{0}^{4} 0 0 0 0 0 $	0 0 0 0 0
$ \left \ 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 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right \ 2 \cdot \left \ 2 \cdot \chi_{10} \right $	$2 2 * E(5)^3 2 * E(5) 2 * E(5)^4 2 * E(5)^2 \mid 2$	$2 * E(5)^3$ $2 * E(5)$ $2 * E(5)^4$ $2 * E(5)^2$	$0 \qquad 0 \qquad 0 \qquad 0$	$2 2 * E(5)^3 2 * E(5) 2 * E(5)$	$(0.5)^4 2*E(5)^2 \mid 0 \qquad 0 \qquad 0$	0 2 $2*E(5)^3$ 2 $E(5)$ 2 $E(5)^4$ 2 $E(5)^4$ 2 $E(5)^4$ 2	$j^2 \mid 0 = 0 = 0$	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} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} = 2 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} = 2 \cdot \chi_{25} + 0 \cdot $	2 2 2 2 2 2	2 2 2 2	0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	2 2 2 2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \left \begin{array}{cccccccccccccccccccccccccccccccccccc$	$2 2 * E(5)^2 2 * E(5)^4 2 * E(5) 2 * E(5)^3 \mid 2$	$2 * E(5)^2$ $2 * E(5)^4$ $2 * E(5)$ $2 * E(5)^3$	$0 \qquad 0 \qquad 0 \qquad 0$	0 0 0	0 0 0 0	0 0 0 0 0	$2 2*E(5)^2 2*E(5)^4 2*E(5) 2*E(5)$	$E(5)^3 \mid 0 0 0 0$
$ \left \begin{array}{cccccccccccccccccccccccccccccccccccc$		$2 * E(5)^4 2 * E(5)^3 2 * E(5)^2 2 * E(5)$	0 0 0 0	0 0 0	0 0 0 0	0 0 0 0 0	$2 2 * E(5)^4 2 * E(5)^3 2 * E(5)^2 2 * E(5)^3$	$E(5) \mid 0 0 0 0 0$
$ \left \ 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} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right \ 2 \cdot \left \ 2 \cdot \chi_{10} \right $				0 0 0	0 0 0 0	0 0 0 0 0	$2 2*E(5) 2*E(5)^2 2*E(5)^3 2*E$	$\mathbb{Z}(5)^4 \mid 0 0 0 0$
$ \left \ 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} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} \right \ 2 \cdot \left \ 2 \cdot \chi_{10} \right $	$2 2 * E(5)^3 2 * E(5) 2 * E(5)^4 2 * E(5)^2 \mid 2$	$2 * E(5)^3$ $2 * E(5)$ $2 * E(5)^4$ $2 * E(5)^2$	$0 \qquad 0 \qquad 0 \qquad 0$	0 0 0	0 0 0 0	0 0 0 0 0	$2 2*E(5)^3 2*E(5) 2*E(5)^4 2*E(5)^4$	$\mathbb{Z}(5)^2 \mid 0 0 0 0 0$
$1 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} = 1$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	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
$\boxed{0 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25}} \boxed{1}$	1 $E(5)$ $E(5)^2$ $E(5)^3$ $E(5)^4$ 1	$E(5)$ $E(5)^2$ $E(5)^3$ $E(5)^4$	1 $E(5)$ $E(5)^2$ $E(5)^3$ $E(5)^4$	1 $E(5)$ $E(5)^2$ $E(5)^3$	$E(5)^4 \mid 1 \qquad E(5) \qquad E(5)^2 \qquad E(5)^3$	$E(5)^4 \mid 1 \qquad E(5) \qquad E(5)^2 \qquad E(5)^3 \qquad E(5)$	1 $E(5)$ $E(5)^2$ $E(5)^3$ $E(7)$	$E(5)^4$ 1 $E(5)$ $E(5)^2$ $E(5)^3$ $E(5)^4$
$\boxed{0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25}} \boxed{1}$	1 $E(5)^2$ $E(5)^4$ $E(5)$ $E(5)^3$ 1	$E(5)^2$ $E(5)^4$ $E(5)$ $E(5)^3$	1 $E(5)^2$ $E(5)^4$ $E(5)$ $E(5)^3$	$1 E(5)^2 E(5)^4 E(5)$	$E(5)^3 \mid 1 E(5)^2 E(5)^4 E(5)$	$E(5)^3 \mid 1 E(5)^2 E(5)^4 E(5)$	$1 E(5)^2 E(5)^4 E(5) E(7)$	$(5)^3$ 1 $E(5)^2$ $E(5)^4$ $E(5)$ $E(5)^3$
$0 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} = 1$		$E(5)^3$ $E(5)$ $E(5)^4$ $E(5)^2$	1 $E(5)^3$ $E(5)$ $E(5)^4$ $E(5)^2$	$1 E(5)^3 E(5) E(5)^4$	$E(5)^2 \mid 1 E(5)^3 E(5) E(5)^4$	$E(5)^2 \mid 1 E(5)^3 E(5) E(5)^4 E(5)$	1 $E(5)^3$ $E(5)$ $E(5)^4$ $E(7)$	$(5)^2$ 1 $E(5)^3$ $E(5)$ $E(5)^4$ $E(5)^2$
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} = 1$		$E(5)^4$ $E(5)^3$ $E(5)^2$ $E(5)$	1 $E(5)^4$ $E(5)^3$ $E(5)^2$ $E(5)$	1 $E(5)^4$ $E(5)^3$ $E(5)^2$	$E(5)$ 1 $E(5)^4$ $E(5)^3$ $E(5)^2$	$E(5)$ 1 $E(5)^4$ $E(5)^3$ $E(5)^2$ $E(5)^2$	1 $E(5)^4$ $E(5)^3$ $E(5)^2$ $E(5)^4$	$E(5)$ 1 $E(5)^4$ $E(5)^3$ $E(5)^2$ $E(5)$

- $P_1 = Group([()]) \cong 1$ $P_2 = Group([(1,5)(2,8)(3,10)(4,12)(6,14)(7,16)(9,18)(11,20)(13,22)(15,24)(17,26)(19,28)(21,30)(23,32)(25,34)(27,35)(29,37)(31,38)(33,39)(36,40)]) \cong \mathbb{C}_2$
- $P_3 = Group([(1,3)(2,6)(4,9)(5,10)(7,13)(8,14)(11,17)(12,18)(15,21)(16,22)(19,25)(20,26)(23,29)(24,30)(27,33)(28,34)(31,36)(32,37)(35,39)(38,40)]) \cong \mathbb{C}_2$
- $P_4 = Group([(1,2)(3,14)(4,7)(5,8)(6,10)(9,22)(11,15)(12,16)(13,18)(17,30)(19,23)(20,24)(21,26)(25,37)(27,31)(28,32)(29,34)(33,40)(35,38)(36,39)]) \cong \mathbf{C2}$
- $P_5 = Group([(1,5)(2,8)(3,10)(4,12)(6,14)(7,16)(9,18)(11,20)(13,22)(15,24)(17,26)(19,28)(21,30)(23,32)(25,34)(27,35)(29,37)(31,38)(33,39)(36,40), (1,3)(2,6)(4,9)(5,10)(7,13)(8,14)(11,17)(12,18)(15,21)(16,22)(19,25)(20,26)(23,29)(24,30)(27,33)(28,34)(31,36)(32,37)(35,39)(36,40)] \cong C2 \times C2$
- $P_7 = Group([(1,5)(2,8)(3,10)(4,12)(6,14)(7,16)(9,18)(11,20)(13,22)(15,24)(17,26)(19,28)(21,30)(23,32)(25,34)(27,35)(29,37)(31,38)(33,39)(36,40), (1,14,5,6)(2,10,8,3)(4,22,12,13)(7,18,16,9)(11,30,20,21)(15,26,24,17)(19,37,28,29)(23,34,32,25)(27,40,35,36)(31,39,38,33)]) \cong C4$
- $P_8 = Group([(1,5)(2,8)(3,10)(4,12)(6,14)(7,16)(9,18)(11,20)(13,22)(15,24)(17,26)(19,28)(21,30)(23,32)(25,34)(27,35)(29,37)(31,38)(33,39)(36,40), (1,2)(3,14)(4,7)(5,8)(6,10)(9,22)(11,15)(12,16)(13,18)(17,30)(19,23)(20,24)(21,26)(25,37)(27,31)(28,32)(29,34)(33,40)(35,38)(36,39)]) \cong D8$
- $N_2 = Group([(1,2)(3,14)(4,7)(5,8)(6,10)(9,22)(11,15)(12,16)(13,18)(17,30)(19,23)(20,24)(21,26)(25,37)(27,31)(28,32)(29,34)(31,36)(32,37)(35,39)(36,40)]) \cong C5 \times D8 \\ N_2 = Group([(1,2)(3,14)(4,7)(5,8)(6,10)(9,22)(11,15)(12,16)(13,18)(17,30)(19,23)(20,24)(21,26)(25,37)(27,31)(28,32)(29,34)(31,36)(32,37)(35,39)(36,40)]) \cong C5 \times D8 \\ N_3 = Group([(1,2)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(3,14)(4,7)(5,$ $N_3 = Group([(1,3)(2,6)(4,9)(5,10)(7,13)(8,14)(11,17)(12,18)(15,21)(16,22)(19,25)(20,26)(23,29)(24,30)(27,33)(28,34)(31,36)(32,37)(35,39)(38,40), (1,4,11,19,27)(2,7,15,23,31)(3,9,17,25,33)(5,12,20,28,35)(6,13,21,29,36)(8,16,24,32,38)(10,18,26,34,39)(14,22,30,37,40), (1,35,19,20,4,5,27,28,11,12)(2,38,23,24,7,8,31,32,15,16)(3,39,25,26,9,10,33,34,17,18)(6,40,29,30,13,14,36,37,21,22)]) \cong C10 \times C2$
- $N_4 = Group([(1,2)(3,14)(4,7)(5,8)(6,10)(9,22)(11,15)(12,16)(13,18)(17,30)(19,23)(20,24)(21,26)(25,37)(27,31)(28,32)(29,34)(33,40)(35,38)(36,39), (1,4,11,19,27)(2,7,15,23,31)(3,9,17,25,33)(5,12,20,28,35)(6,13,21,29,36)(8,16,24,32,38)(10,18,26,34,39)(14,22,30,37,40), (1,8)(2,5)(3,6)(4,16)(7,12)(9,13)(10,14)(11,24)(15,20)(17,21)(18,22)(19,32)(23,28)(25,29)(26,30)(27,38)(31,35)(33,36)(34,37)(39,40)]) \cong C10 \times C2$
- $N_5 = Group([(1,3)(2,6)(4,9)(5,10)(7,13)(8,14)(11,17)(12,18)(15,21)(16,22)(19,25)(20,26)(23,32)(25,34)(27,35)(29,37)(31,38)(33,39)(36,40), \\ (1,2)(3,14)(4,7)(5,8)(6,10)(9,22)(11,15)(12,16)(13,18)(17,20)(19,23)(20,24)(21,26)(25,37)(27,31)(28,32)(29,34)(31,36)(32,37)(35,39)(36,40), \\ (1,2)(3,14)(4,7)(5,8)(6,10)(9,22)(11,15)(12,16)(13,18)(17,20)(19,23)(20,24)(21,26)(25,37)(27,31)(28,32)(29,34)(31,36)(32,37)(35,39)(36,40), \\ (1,2)(3,14)(4,7)(5,8)(6,10)(9,22)(11,15)(12,16)(13,18)(17,20)(19,23)(20,24)(21,26)(25,37)(27,31)(28,32)(29,34)(31,36)(32,37)(35,39)(36,40), \\ (1,2)(3,14)(4,7)(5,8)(3,14)(4,7)(5,8)(31,36)(32,37)(35,39)(36,40), \\ (1,2)(3,14)(4,7)(5,8)(31,36)(32,37)(35,39)(36,40), \\ (1,2)(3,14)(4,7)(5,8)(31,36)(32,37)(35,39)(36,40), \\ (1,2)(3,14)(4,7)(5,8)(31,36)(32,37)(35,39)(36,40), \\ (1,2)(3,14)(4,7)(5,8)(31,36)(32,37)(35,39)(36,40), \\ (1,2)(3,14)(4,7)(5,8)(31,36)(32,37)(35,39)(36,40), \\ (1,2)(3,14)(4,7)(5,8)(31,36)(32,37)(35,39)(36,40), \\ (1,2)(3,14)(4,7)(5,8)(31,36)(32,37)(35,39)(36,40), \\ (1,2)(3,14)(4,7)(5,8)(31,36)(32,37)(35,39)(36,40), \\ (1,2)(3,14)(4,7)(5,8)(31,36)(32,37)(35,39)(36,40), \\ (1,2)(3,14)(4,7)(5,8)(31,36)(32,37)(35,39)(36,40), \\ (1,2)(3,14)(4,7)(5,8)(31,36)(32,37)(35,39)(36,40), \\ (1,2)(3,14)(4,7)(31,36)(32,37)(35,39)(36,40), \\ (1,2)(3,14)(4,7)(31,36)(32,37)(36,39)(36,40), \\ (1,2)(3,14)(4,7)(31,36)(32,37)(36,39)(36,40), \\ (1,2)(3,14)(4,7)(31,36)(32,37)(36,39)(36,40), \\ (1,2)(3,14)(4,7)(31,36)(32,37)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)(36,39)($ $N_6 = Group([(1,2)(3,14)(4,7)(5,8)(6,10)(9,22)(11,15)(12,16)(13,18)(17,30)(23,32)(25,34)(27,35)(29,37)(31,38)(33,39)(36,40), (1,3)(2,5)(29,34)(31,36)(32,37)(35,39)(36,40), (1,4)(11,17)(12,18)(15,21)(16,22)(19,25)(20,26)(23,29)(24,30)(27,35)(29,37)(31,38)(33,39)(36,40), (1,4)(11,17)(12,18)(15,21)(16,22)(19,25)(20,26)(23,29)(24,30)(27,35)(29,37)(31,38)(33,39)(36,40), (1,4)(11,17)(12,18)(15,21)(16,22)(19,25)(20,26)(23,29)(24,30)(27,35)(29,34)(31,36)(32,37)(35,39)(36,40), (1,4)(11,17)(12,18)(15,21)(16,22)(19,25)(20,26)(23,29)(24,30)(27,35)(29,37)(31,38)(33,39)(36,40), (1,4)(11,17)(12,18)(15,21)(16,22)(19,25)(20,26)(23,29)(24,30)(27,35)(29,37)(31,38)(33,39)(36,40), (1,4)(11,17)(12,18)(15,21)(16,22)(19,25)(20,26)(23,29)(24,30)(27,35)(29,37)(31,38)(33,39)(36,40), (1,4)(11,17)(12,18)(15,21)(16,22)(19,25)(20,26)(23,29)(24,30)(27,35)(29,37)(31,38)(33,39)(36,40), (1,4)(11,17)(12,18)(15,21)(16,22)(19,25)(20,26)(23,29)(24,30)(27,35)(29,37)(31,38)(33,39)(36,40), (1,4)(11,17)(12,18)(15,21)(16,22)(19,25)(29,34)(21,20)(29,34)(21,20)(29,34)(21,20)(29,34)(21,20)(29,34)(21,20)(29,34)(21,20)(29,34)(21,20)(29,34)(21,20)(29,34)(21,20)(29,34)(21,20)(29,34)(21,20)(29,34)(21,20)(29,34)(21,20)(29,34)(21,20)(29,34)(21,20)(29,34)(21,20)(29,34)(21,20)(29,34)(21,20)(29,34)(21,20)(29,34)(21,20)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,34)(29,3$
- $N_8 = Group([(1,2)(3,14)(4,7)(5,8)(6,10)(9,22)(11,15)(12,16)(13,18)(17,30)(19,23)(20,34)(31,36)(32,37)(35,39)(36,40), (1,5)(2,8)(3,10)(4,12)(6,14)(7,16)(9,18)(11,20)(13,22)(15,24)(17,26)(19,28)(21,30)(23,32)(25,34)(27,35)(29,37)(31,38)(33,39)(36,40), (1,5)(2,8)(3,10)(4,12)(6,14)(7,16)(9,18)(11,20)(13,22)(15,24)(17,26)(19,28)(21,30)(23,32)(25,34)(27,35)(29,37)(31,38)(33,39)(36,40), (1,5)(2,8)(3,10)(4,12)(6,14)(7,16)(9,18)(11,20)(13,22)(15,24)(17,26)(19,28)(21,30)(23,32)(25,34)(27,35)(29,37)(31,38)(33,39)(36,40), (1,5)(2,8)(31,30)(32,37)(35,39)(36,40), (1,5)(2,8)(31,30)(32,37)(35,39)(36,40), (1,5)(2,8)(31,30)(32,37)(35,39)(36,40), (1,5)(2,8)(31,30)(32,37)(35,39)(36,40), (1,5)(2,8)(31,30)(32,37)(35,39)(36,40), (1,5)(28,32)(29,34)(31,36)(32,37)(35,39)(36,40), (1,5)(28,32)(29,34)(31,36)(32,37)(35,39)(36,40), (1,5)(28,32)(29,34)(31,36)(32,37)(35,39)(36,40), (1,5)(28,32)(29,34)(31,36)(32,37)(35,39)(36,40), (1,5)(28,32)(29,34)(31,36)(32,37)(35,39)(36,40), (1,5)(28,32)(29,34)(31,36)(32,37)(35,39)(36,40), (1,5)(28,32)(29,34)(31,36)(32,37)(35,39)(36,40), (1,5)(28,32)(29,34)(31,36)(32,37)(35,39)(36,40), (1,5)(28,32)(29,34)(31,36)(32,37)(35,39)(36,40), (1,5)(28,32)(29,34)(31,36)(32,37)(35,39)(36,40), (1,5)(28,32)(29,34)(31,36)(32,37)(35,39)(36,40), (1,5)(28,32)(29,34)(31,36)(32,37)(35,39)(36,40), (1,5)(28,32)(29,34)(31,36)(32,37)(35,39)(36,40), (1,5)(28,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32)(32,32$