

The group G_2 is isomorphic to the group $C_2 \wr (\text{PSL}(2,13) : C_2)$.

Ordinary character table of $G \cong C_2 \wr (\text{PSL}(2,13) : C_2) = \text{SL}(2,13) \cdot C_2$:

	1a	2a	3a	4a	4b	6a	7a	7b	7c	8a	8b	12a	12b	13a	14a	14b	14c	24a	24b	24c	24d	26a	28a	28b	28c	28d	28e	28f
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	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	-1	-1	-1
χ_3	12	-12	0	0	0	0	-2	-2	-2	0	0	0	0	-1	2	2	2	0	0	0	0	1	0	0	0	0	0	0
χ_4	12	12	0	-2	0	0	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7)^{\frown} - E(7)^{\frown}6$	0	0	0	0	-1	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7)^{\frown} - E(7)^{\frown}6$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	0	0	0	0	-1	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown} - E(7)^{\frown}6$
χ_5	12	12	0	-2	0	0	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7)^{\frown} - E(7)^{\frown}6$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	0	0	0	0	-1	$-E(7)^{\frown} - E(7)^{\frown}6$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	0	0	0	0	-1	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7)^{\frown} - E(7)^{\frown}6$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown} - E(7)^{\frown}6$
χ_6	12	12	0	2	0	0	$-E(7)^{\frown} - E(7)^{\frown}6$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	0	0	0	0	-1	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7)^{\frown} - E(7)^{\frown}6$	0	0	0	0	-1	$E(7)^{\frown}2 + E(7)^{\frown}5$	$E(7)^{\frown}3 + E(7)^{\frown}4$	$E(7)^{\frown} - E(7)^{\frown}6$	$E(7)^{\frown}2 + E(7)^{\frown}5$	$E(7)^{\frown}3 + E(7)^{\frown}4$	$E(7)^{\frown} - E(7)^{\frown}6$
χ_7	12	12	0	2	0	0	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7)^{\frown} - E(7)^{\frown}6$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	0	0	0	0	-1	$-E(7)^{\frown} - E(7)^{\frown}6$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	0	0	0	0	-1	$E(7)^{\frown}3 + E(7)^{\frown}4$	$E(7)^{\frown}2 + E(7)^{\frown}5$	$E(7)^{\frown} - E(7)^{\frown}6$	$E(7)^{\frown}2 + E(7)^{\frown}5$	$E(7)^{\frown}3 + E(7)^{\frown}4$	$E(7)^{\frown} - E(7)^{\frown}6$
χ_8	12	12	0	2	0	0	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7)^{\frown} - E(7)^{\frown}6$	0	0	0	0	-1	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7)^{\frown} - E(7)^{\frown}6$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	0	0	0	0	-1	$E(7)^{\frown} + E(7)^{\frown}6$	$E(7)^{\frown}3 + E(7)^{\frown}4$	$E(7)^{\frown}2 + E(7)^{\frown}5$	$E(7)^{\frown}3 + E(7)^{\frown}4$	$E(7)^{\frown} + E(7)^{\frown}6$	$E(7)^{\frown}2 + E(7)^{\frown}5$
χ_9	12	12	0	-2	0	0	$-E(7)^{\frown} - E(7)^{\frown}6$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	0	0	0	0	-1	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7)^{\frown} - E(7)^{\frown}6$	0	0	0	0	-1	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown} - E(7)^{\frown}6$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7)^{\frown} - E(7)^{\frown}6$
χ_{10}	12	-12	0	0	0	0	$-E(7)^{\frown} - E(7)^{\frown}6$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	0	0	0	0	-1	$E(7)^{\frown}3 + E(7)^{\frown}4$	$E(7)^{\frown}2 + E(7)^{\frown}5$	$E(7)^{\frown} + E(7)^{\frown}6$	0	0	0	0	1	$-E(28)^{\frown}15 + E(28)^{\frown}27$	$E(28)^{\frown}3 - E(28)^{\frown}11$	$-E(28)^{\frown}19 + E(28)^{\frown}23$	$E(28)^{\frown}19 - E(28)^{\frown}23$	$-E(28)^{\frown}3 + E(28)^{\frown}11$	$E(28)^{\frown}15 - E(28)^{\frown}27$
χ_{11}	12	-12	0	0	0	0	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7)^{\frown} - E(7)^{\frown}6$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	0	0	0	0	-1	$E(7)^{\frown} + E(7)^{\frown}6$	$E(7)^{\frown}3 + E(7)^{\frown}4$	$E(7)^{\frown}2 + E(7)^{\frown}5$	0	0	0	0	1	$-E(28)^{\frown}19 + E(28)^{\frown}23$	$E(28)^{\frown}15 - E(28)^{\frown}27$	$E(28)^{\frown}3 - E(28)^{\frown}11$	$-E(28)^{\frown}3 + E(28)^{\frown}11$	$-E(28)^{\frown}15 + E(28)^{\frown}27$	$E(28)^{\frown}19 - E(28)^{\frown}23$
χ_{12}	12	-12	0	0	0	0	$-E(7)^{\frown} - E(7)^{\frown}6$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	0	0	0	0	-1	$E(7)^{\frown}3 + E(7)^{\frown}4$	$E(7)^{\frown}2 + E(7)^{\frown}5$	$E(7)^{\frown} + E(7)^{\frown}6$	0	0	0	0	1	$E(28)^{\frown}15 - E(28)^{\frown}27$	$-E(28)^{\frown}3 + E(28)^{\frown}11$	$E(28)^{\frown}19 + E(28)^{\frown}23$	$-E(28)^{\frown}19 + E(28)^{\frown}23$	$E(28)^{\frown}3 - E(28)^{\frown}11$	$-E(28)^{\frown}15 + E(28)^{\frown}27$
χ_{13}	12	-12	0	0	0	0	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7)^{\frown} - E(7)^{\frown}6$	0	0	0	0	-1	$E(7)^{\frown}2 + E(7)^{\frown}5$	$E(7)^{\frown} + E(7)^{\frown}6$	$E(7)^{\frown}3 + E(7)^{\frown}4$	0	0	0	0	1	$-E(28)^{\frown}3 + E(28)^{\frown}11$	$-E(28)^{\frown}19 + E(28)^{\frown}23$	$-E(28)^{\frown}15 + E(28)^{\frown}27$	$E(28)^{\frown}15 - E(28)^{\frown}27$	$E(28)^{\frown}19 - E(28)^{\frown}23$	$E(28)^{\frown}3 - E(28)^{\frown}11$
χ_{14}	12	-12	0	0	0	0	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7)^{\frown} - E(7)^{\frown}6$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	0	0	0	0	-1	$E(7)^{\frown} + E(7)^{\frown}6$	$E(7)^{\frown}3 + E(7)^{\frown}4$	$E(7)^{\frown}2 + E(7)^{\frown}5$	0	0	0	0	1	$E(28)^{\frown}19 - E(28)^{\frown}23$	$-E(28)^{\frown}15 + E(28)^{\frown}27$	$-E(28)^{\frown}3 + E(28)^{\frown}11$	$E(28)^{\frown}3 - E(28)^{\frown}11$	$E(28)^{\frown}15 - E(28)^{\frown}27$	$-E(28)^{\frown}19 + E(28)^{\frown}23$
χ_{15}	12	-12	0	0	0	0	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7)^{\frown} - E(7)^{\frown}6$	0	0	0	0	-1	$E(7)^{\frown}2 + E(7)^{\frown}5$	$E(7)^{\frown} + E(7)^{\frown}6$	$E(7)^{\frown}3 + E(7)^{\frown}4$	0	0	0	0	1	$E(28)^{\frown}3 - E(28)^{\frown}11$	$E(28)^{\frown}19 - E(28)^{\frown}23$	$E(28)^{\frown}15 - E(28)^{\frown}27$	$-E(28)^{\frown}15 + E(28)^{\frown}27$	$-E(28)^{\frown}19 + E(28)^{\frown}23$	$-E(28)^{\frown}3 + E(28)^{\frown}11$
χ_{16}	13	13	1	-1	1	1	-1	-1	-1	1	1	1	1	0	-1	-1	-1	1	1	1	1	0	-1	-1	-1	-1	-1	-1
χ_{17}	13	13	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	0	-1	-1	-1	-1	-1	-1	-1	0	1	1	1	1	1	1
χ_{18}	14	14	-1	0	2	-1	0	0	0	-2	-2	-1	-1	1	0	0	0	1	1	1	1	1	0	0	0	0	0	0
χ_{19}	14	14	-1	0	2	-1	0	0	0	2	2	-1	-1	1	0	0	0	-1	-1	-1	-1	1	0	0	0	0	0	0
χ_{20}	14	14	2	0	-2	2	0	0	0	0	0	-2	-2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
χ_{21}	14	-14	2	0	0	-2	0	0	0	$-E(8) + E(8)^{\frown}3$	$E(8) - E(8)^{\frown}3$	0	0	1	0	0	0	$-E(8) + E(8)^{\frown}3$	$E(8) - E(8)^{\frown}3$	$-E(8)^{\frown}3 - E(8)$	$E(8)^{\frown}3 - E(8)$	-1	0	0	0	0	0	0
χ_{22}	14	-14	2	0	0	-2	0	0	0	$E(8) - E(8)^{\frown}3$	$-E(8) + E(8)^{\frown}3$	0	0	1	0	0	0	$E(8) - E(8)^{\frown}3$	$-E(8) + E(8)^{\frown}3$	$-E(8)^{\frown}3 - E(8)$	$E(8)^{\frown}3 - E(8)$	-1	0	0	0	0	0	0
χ_{23}	14	14	-1	0	-2	-1	0	0	0	0	0	1	1	1	0	0	0	$E(12)^{\frown}7 - E(12)^{\frown}11$	$-E(12)^{\frown}7 + E(12)^{\frown}11$	$-E(12)^{\frown}7 - E(12)^{\frown}11$	$E(12)^{\frown}7 - E(12)^{\frown}11$	1	0	0	0	0	0	0
χ_{24}	14	14	-1	0	-2	-1	0	0	0	0	0	1	1	1	0	0	0	$-E(12)^{\frown}7 + E(12)^{\frown}11$	$E(12)^{\frown}7 - E(12)^{\frown}11$	$E(12)^{\frown}7 - E(12)^{\frown}11$	$-E(12)^{\frown}7 + E(12)^{\frown}11$	1	0	0	0	0	0	0
χ_{25}	14	-14	-1	0	0	1	0	0	0	$E(8) - E(8)^{\frown}3$	$-E(8) + E(8)^{\frown}3$	$E(12)^{\frown}7 - E(12)^{\frown}11$	$-E(12)^{\frown}7 + E(12)^{\frown}11$	1	0	0	0	$-E(24)^{\frown}17 + E(24)^{\frown}19$	$E(24) - E(24)^{\frown}11$	$-E(24) + E(24)^{\frown}11$	$E(24)^{\frown}17 - E(24)^{\frown}19$	-1	0	0	0	0	0	0
χ_{26}	14	-14	-1	0	0	1	0	0	0	$E(8) - E(8)^{\frown}3$	$-E(8) + E(8)^{\frown}3$	$-E(12)^{\frown}7 + E(12)^{\frown}11$	$E(12)^{\frown}7 - E(12)^{\frown}11$	1	0	0	0	$-E(24) + E(24)^{\frown}11$	$E(24)^{\frown}17 - E(24)^{\frown}19$	$-E(24)^{\frown}17 + E(24)^{\frown}19$	$E(24) - E(24)^{\frown}11$	-1	0	0	0	0	0	0
χ_{27}	14	-14	-1	0	0	1	0	0	0	$-E(8) + E(8)^{\frown}3$	$E(8) - E(8)^{\frown}3$	$E(12)^{\frown}7 - E(12)^{\frown}11$	$-E(12)^{\frown}7 + E(12)^{\frown}11$	1	0	0	0	$E(24)^{\frown}17 - E(24)^{\frown}19$	$-E(24) + E(24)^{\frown}11$	$E(24) - E(24)^{\frown}11$	$-E(24)^{\frown}17 + E(24)^{\frown}19$	-1	0	0	0	0	0	0
χ_{28}	14	-14	-1	0	0	1	0	0	0	$-E(8) + E(8)^{\frown}3$	$E(8) - E(8)^{\frown}3$	$-E(12)^{\frown}7 + E(12)^{\frown}11$	$E(12)^{\frown}7 - E(12)^{\frown}11$	1	0	0	0	$E(24) - E(24)^{\frown}11$	$-E(24)^{\frown}17 + E(24)^{\frown}19$	$E(24)^{\frown}17 - E(24)^{\frown}19$	$-E(24) + E(24)^{\frown}11$	-1	0	0	0	0	0	0

Trivial source character table of $G \cong C_2 \wr (\text{PSL}(2,13) : C_2) = \text{SL}(2,13) \cdot C_2$ at $p = 3$

N_1																													N_2			
P_1																													P_2			
$\text{Representatives } n_j \in N_i$	1a	2a	4a	4b	7a	7b	7c	8a	8b	13a	14a	14b	14c	26a	28a	28b	28c	28d	28e	28f	1a	2a	4b	4b	4a	8a	8b					
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28}$	15	15	1	3	1	1	1	3	3	2	1	1	1	2	1	1	1	1	1	1	0	0	0	0	0	0	0					
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28}$	15	15	-1	3	1	1	1	-3	-3	2	1	1	1	2	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0					
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28}$	12	-12	0	0	-2	-2	-2	0	0	-1	2	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0						
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28}$	12	2	0	0	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7) - E(7)^{\frown}6$	0	0	-1	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7) - E(7)^{\frown}6$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	-1	$E(7) + E(7)^{\frown}6$	$E(7)^{\frown}3 + E(7)^{\frown}4$	$E(7)^{\frown}2 + E(7)^{\frown}5$	$E(7)^{\frown}2 + E(7)^{\frown}5$	$E(7)^{\frown}3 + E(7)^{\frown}4$	$E(7) + E(7)^{\frown}6$	0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28}$	12	12	-2	0	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7) - E(7)^{\frown}6$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	0	0	-1	$-E(7) - E(7)^{\frown}6$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	-1	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7) - E(7)^{\frown}6$	$-E(7) - E(7)^{\frown}6$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28}$	12	12	-2	0	$-E(7) - E(7)^{\frown}6$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	0	0	-1	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7) - E(7)^{\frown}6$	-1	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7) - E(7)^{\frown}6$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28}$	12	-12	0	0	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7) - E(7)^{\frown}6$	0	0	-1	$E(7)^{\frown}2 + E(7)^{\frown}5$	$E(7) + E(7)^{\frown}6$	$E(7)^{\frown}3 + E(7)^{\frown}4$	1	$E(28)^{\frown}3 + E(28)^{\frown}11$	$E(28)^{\frown}19 + E(28)^{\frown}23$	$E(28)^{\frown}15 - E(28)^{\frown}27$	$-E(28)^{\frown}19 + E(28)^{\frown}23$	$-E(28)^{\frown}19 + E(28)^{\frown}23$	$-E(28)^{\frown}3 + E(28)^{\frown}11$	0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28}$	12	12	-2	0	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7) - E(7)^{\frown}6$	0	0	-1	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7) - E(7)^{\frown}6$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	-1	$-E(7) - E(7)^{\frown}6$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7) - E(7)^{\frown}6$	0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28}$	12	12	2	0	$-E(7) - E(7)^{\frown}6$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	0	0	-1	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7) - E(7)^{\frown}6$	-1	$E(7)^{\frown}3 + E(7)^{\frown}4$	$E(7)^{\frown}2 + E(7)^{\frown}5$	$E(7)^{\frown}3 + E(7)^{\frown}4$	$E(7)^{\frown}3 + E(7)^{\frown}4$	$E(7)^{\frown}2 + E(7)^{\frown}5$	$E(7) + E(7)^{\frown}6$	0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28}$	12	-12	0	0	$-E(7) - E(7)^{\frown}6$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	0	0	-1	$E(7)^{\frown}3 + E(7)^{\frown}4$	$E(7)^{\frown}2 + E(7)^{\frown}5$	$E(7) + E(7)^{\frown}6$	1	$-E(28)^{\frown}15 + E(28)^{\frown}27$	$E(28)^{\frown}3 - E(28)^{\frown}11$	$-E(28)^{\frown}19 + E(28)^{\frown}23$	$E(28)^{\frown}19 - E(28)^{\frown}23$	$-E(28)^{\frown}3 + E(28)^{\frown}11$	$E(28)^{\frown}15 - E(28)^{\frown}27$	0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28}$	12	-12	0	0	$-E(7) - E(7)^{\frown}6$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	0	0	-1	$E(7)^{\frown}3 + E(7)^{\frown}4$	$E(7)^{\frown}2 + E(7)^{\frown}5$	$E(7) + E(7)^{\frown}6$	1	$E(28)^{\frown}15 - E(28)^{\frown}27$	$-E(28)^{\frown}3 + E(28)^{\frown}11$	$E(28)^{\frown}19 - E(28)^{\frown}23$	$-E(28)^{\frown}19 + E(28)^{\frown}23$	$E(28)^{\frown}3 - E(28)^{\frown}11$	$-E(28)^{\frown}15 + E(28)^{\frown}27$	0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28}$	12	12	2	0	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7) - E(7)^{\frown}6$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	0	0	-1	$-E(7) - E(7)^{\frown}6$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	-1	$E(7)^{\frown}3 + E(7)^{\frown}4$	$E(7)^{\frown}2 + E(7)^{\frown}5$	$E(7) + E(7)^{\frown}6$	$E(7) + E(7)^{\frown}6$	$E(7)^{\frown}2 + E(7)^{\frown}5$	$E(7)^{\frown}3 + E(7)^{\frown}4$	0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28}$	12	-12	0	0	$-E(7)^{\frown}3 - E(7)^{\frown}4$	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7) - E(7)^{\frown}6$	0	0	-1	$E(7)^{\frown}2 + E(7)^{\frown}5$	$E(7) + E(7)^{\frown}6$	$E(7)^{\frown}3 + E(7)^{\frown}4$	1	$-E(28)^{\frown}19 + E(28)^{\frown}23$	$-E(28)^{\frown}15 - E(28)^{\frown}27$	$-E(28)^{\frown}15 + E(28)^{\frown}27$	$E(28)^{\frown}15 - E(28)^{\frown}27$	$E(28)^{\frown}19 - E(28)^{\frown}23$	$E(28)^{\frown}3 - E(28)^{\frown}11$	0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28}$	12	-12	0	0	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7) - E(7)^{\frown}6$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	0	0	-1	$E(7)^{\frown}2 + E(7)^{\frown}5$	$E(7) + E(7)^{\frown}6$	$E(7)^{\frown}3 + E(7)^{\frown}4$	1	$-E(28)^{\frown}19 + E(28)^{\frown}23$	$-E(28)^{\frown}15 - E(28)^{\frown}27$	$-E(28)^{\frown}15 + E(28)^{\frown}27$	$E(28)^{\frown}15 - E(28)^{\frown}27$	$E(28)^{\frown}19 - E(28)^{\frown}23$	$E(28)^{\frown}3 - E(28)^{\frown}11$	0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28}$	12	-12	0	0	$-E(7)^{\frown}2 - E(7)^{\frown}5$	$-E(7) - E(7)^{\frown}6$	$-E(7)^{\frown}3 - E(7)^{\frown}4$	0	0	-1	$E(7) + E(7)^{\frown}6$	$E(7)^{\frown}3 + E(7)^{\frown}4$	$E(7)^{\frown}2 + E(7)^{\frown}5$	1	$E(28)^{\frown}19 - E(28)^{\frown}23$	$-E(28)^{\frown}15 + E(28)^{\frown}27$	$-E(28)^{\frown}3 + E(28)^{\frown}11$	$E(28)^{\frown}15 - E(28)^{\frown}27$	$-E(28)^{\frown}3 + E(28)^{\frown}11$	$E(28)^{\frown}15 - E(28)^{\frown}27$	0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28}$	27	27	-1	3	-1	-1	-1	3	3	1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0						
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16} + 1 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28}$	27	27	1	3	-1	-1	-1	-3	-3	1	-1	-1	-1	1	1	1	1	1	1	1	0	0	0	0	0	0						
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 1 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 1 \cdot \chi_{23} + 1 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27} + 0 \cdot \chi_{28}$	42	42	0	-6	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0						
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 1 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 1 \cdot \chi_{27} + 1 \cdot \chi_{28}$	42	-42	0	0																												