

The group G is isomorphic to the group labelled by [72, 30] in the Small Groups library.
Ordinary character table of $G \cong \text{C3 x ((C6 x C2) : C2)}$:

| | 1a | 3a | 3b | 3c | 3d | 3e | 2a | 6a | 6b | 2b | 6c | 6d | 6e | 6f | 6g | 6h | 6i | 6j | 4a | 12a | 12b | 2c | 6k | 6l | 6m | 6n | 6o |
|-------------|----|--------------|--------------|----|--------------|--------------|----|-----------|-----------|----|----------------------|----------------------|----------------------|------------------|---------------|----------------------|---------------|------------------|----|-----------|-----------|----|---------------|---------------|----|---------------|---------------|
| 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 |
| 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 |
| 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 | 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 | 1 | 1 |
| χ_5 | 1 | $E(3)^2$ | $E(3)$ | 1 | $E(3)^2$ | $E(3)$ | -1 | $-E(3)$ | $-E(3)^2$ | -1 | $-E(3)^2$ | $-E(3)$ | $-E(3)$ | -1 | $-E(3)^2$ | $-E(3)^2$ | $-E(3)$ | -1 | 1 | $E(3)$ | $E(3)^2$ | 1 | $E(3)^2$ | $E(3)$ | 1 | $E(3)^2$ | $E(3)$ |
| χ_6 | 1 | $E(3)$ | $E(3)^2$ | 1 | $E(3)$ | $E(3)^2$ | -1 | $-E(3)^2$ | $-E(3)$ | -1 | $-E(3)$ | $-E(3)^2$ | $-E(3)^2$ | -1 | $-E(3)$ | $-E(3)$ | $-E(3)^2$ | -1 | -1 | $E(3)^2$ | $E(3)$ | 1 | $E(3)$ | $E(3)^2$ | 1 | $E(3)$ | $E(3)^2$ |
| χ_7 | 1 | $E(3)^2$ | $E(3)$ | 1 | $E(3)^2$ | $E(3)$ | -1 | $-E(3)$ | $-E(3)^2$ | 1 | $E(3)^2$ | $E(3)$ | $E(3)$ | 1 | $E(3)^2$ | $E(3)^2$ | $E(3)$ | 1 | -1 | $-E(3)$ | $-E(3)^2$ | 1 | $E(3)^2$ | $E(3)$ | 1 | $E(3)^2$ | $E(3)$ |
| χ_8 | 1 | $E(3)$ | $E(3)^2$ | 1 | $E(3)$ | $E(3)^2$ | -1 | $-E(3)^2$ | $-E(3)$ | 1 | $E(3)$ | $E(3)^2$ | $E(3)^2$ | 1 | $E(3)$ | $E(3)$ | $E(3)^2$ | 1 | -1 | $-E(3)^2$ | $-E(3)$ | 1 | $E(3)$ | $E(3)^2$ | 1 | $E(3)$ | $E(3)^2$ |
| χ_9 | 1 | $E(3)^2$ | $E(3)$ | 1 | $E(3)^2$ | $E(3)$ | 1 | $E(3)$ | $E(3)^2$ | -1 | $-E(3)^2$ | $-E(3)$ | $-E(3)$ | -1 | $-E(3)^2$ | $-E(3)^2$ | $-E(3)$ | -1 | -1 | $-E(3)$ | $-E(3)^2$ | 1 | $E(3)^2$ | $E(3)$ | 1 | $E(3)^2$ | $E(3)$ |
| χ_{10} | 1 | $E(3)$ | $E(3)^2$ | 1 | $E(3)$ | $E(3)^2$ | 1 | $E(3)^2$ | $E(3)$ | -1 | $-E(3)$ | $-E(3)^2$ | $-E(3)$ | -1 | $-E(3)$ | $-E(3)$ | $-E(3)^2$ | -1 | -1 | $-E(3)^2$ | $-E(3)$ | 1 | $E(3)$ | $E(3)^2$ | 1 | $E(3)$ | $E(3)^2$ |
| χ_{11} | 1 | $E(3)^2$ | $E(3)$ | 1 | $E(3)^2$ | $E(3)$ | 1 | $E(3)$ | $E(3)^2$ | 1 | $E(3)^2$ | $E(3)$ | $E(3)$ | 1 | $E(3)^2$ | $E(3)^2$ | $E(3)$ | 1 | 1 | $E(3)$ | $E(3)^2$ | 1 | $E(3)^2$ | $E(3)$ | 1 | $E(3)^2$ | $E(3)$ |
| χ_{12} | 1 | $E(3)$ | $E(3)^2$ | 1 | $E(3)$ | $E(3)^2$ | 1 | $E(3)^2$ | $E(3)$ | 1 | $E(3)$ | $E(3)^2$ | $E(3)^2$ | 1 | $E(3)$ | $E(3)$ | $E(3)^2$ | 1 | 1 | $E(3)^2$ | $E(3)$ | 1 | $E(3)$ | $E(3)^2$ | 1 | $E(3)$ | $E(3)^2$ |
| χ_{13} | 2 | -1 | -1 | -1 | 2 | 2 | 0 | 0 | 0 | -2 | 1 | 1 | 1 | -2 | 1 | -2 | 1 | -2 | 1 | 0 | 0 | 2 | -1 | -1 | -1 | 2 | 2 |
| χ_{14} | 2 | -1 | -1 | -1 | 2 | 2 | 0 | 0 | 0 | 2 | -1 | -1 | -1 | -1 | 2 | -1 | 2 | -1 | 0 | 0 | 0 | 2 | -1 | -1 | -1 | 2 | 2 |
| χ_{15} | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | -2 | -2 | -2 | -2 | |
| χ_{16} | 2 | $-E(3)^2$ | $-E(3)$ | -1 | $2 * E(3)^2$ | $2 * E(3)$ | 0 | 0 | 0 | -2 | $E(3)^2$ | $E(3)$ | $E(3)$ | 1 | $-2 * E(3)^2$ | $E(3)^2$ | $-2 * E(3)$ | 1 | 0 | 0 | 0 | 2 | $-E(3)^2$ | $-E(3)$ | -1 | $2 * E(3)^2$ | $2 * E(3)$ |
| χ_{17} | 2 | $-E(3)$ | $-E(3)^2$ | -1 | $2 * E(3)$ | $2 * E(3)^2$ | 0 | 0 | 0 | -2 | $E(3)$ | $E(3)^2$ | $E(3)^2$ | 1 | $-2 * E(3)$ | $E(3)$ | $-2 * E(3)^2$ | 1 | 0 | 0 | 0 | 2 | $-E(3)$ | $-E(3)^2$ | -1 | $2 * E(3)$ | $2 * E(3)^2$ |
| χ_{18} | 2 | $-E(3)^2$ | $-E(3)$ | -1 | $2 * E(3)^2$ | $2 * E(3)$ | 0 | 0 | 0 | 2 | $-E(3)^2$ | $-E(3)$ | $-E(3)$ | -1 | $2 * E(3)^2$ | $-E(3)^2$ | $2 * E(3)$ | -1 | 0 | 0 | 0 | 2 | $-E(3)^2$ | $-E(3)$ | -1 | $2 * E(3)^2$ | $2 * E(3)$ |
| χ_{19} | 2 | $-E(3)$ | $-E(3)^2$ | -1 | $2 * E(3)$ | $2 * E(3)^2$ | 0 | 0 | 0 | 2 | $-E(3)$ | $-E(3)^2$ | $-E(3)^2$ | -1 | $2 * E(3)$ | $-E(3)$ | $2 * E(3)^2$ | -1 | 0 | 0 | 0 | 2 | $-E(3)$ | $-E(3)^2$ | -1 | $2 * E(3)$ | $2 * E(3)^2$ |
| χ_{20} | 2 | $2 * E(3)$ | $2 * E(3)^2$ | 2 | $2 * E(3)$ | $2 * E(3)^2$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | $-2 * E(3)$ | $-2 * E(3)^2$ | -2 | $-2 * E(3)$ | $-2 * E(3)^2$ |
| χ_{21} | 2 | $2 * E(3)^2$ | $2 * E(3)$ | 2 | $2 * E(3)^2$ | $2 * E(3)$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | $-2 * E(3)^2$ | $-2 * E(3)$ | -2 | $-2 * E(3)^2$ | $-2 * E(3)$ |
| χ_{22} | 2 | $-E(3)$ | $-E(3)^2$ | -1 | $2 * E(3)$ | $2 * E(3)^2$ | 0 | 0 | 0 | 0 | $E(3) + 2 * E(3)^2$ | $2 * E(3) + E(3)^2$ | $-2 * E(3) - E(3)^2$ | $-E(3) + E(3)^2$ | 0 | $-E(3) - 2 * E(3)^2$ | 0 | $E(3) - E(3)^2$ | 0 | 0 | 0 | -2 | $E(3)$ | $E(3)^2$ | 1 | $-2 * E(3)$ | $-2 * E(3)^2$ |
| χ_{23} | 2 | $-E(3)^2$ | $-E(3)$ | -1 | $2 * E(3)^2$ | $2 * E(3)$ | 0 | 0 | 0 | 0 | $2 * E(3) + E(3)^2$ | $E(3) + 2 * E(3)^2$ | $-E(3) - 2 * E(3)^2$ | $E(3) - E(3)^2$ | 0 | $-2 * E(3) - E(3)^2$ | 0 | $-E(3) + E(3)^2$ | 0 | 0 | 0 | -2 | $E(3)^2$ | $E(3)$ | 1 | $-2 * E(3)^2$ | $-2 * E(3)$ |
| χ_{24} | 2 | $-E(3)$ | $-E(3)^2$ | -1 | $2 * E(3)$ | $2 * E(3)^2$ | 0 | 0 | 0 | 0 | $-E(3) - 2 * E(3)^2$ | $-2 * E(3) - E(3)^2$ | $2 * E(3) + E(3)^2$ | $E(3) - E(3)^2$ | 0 | $E(3) + 2 * E(3)^2$ | 0 | $-E(3) + E(3)^2$ | 0 | 0 | 0 | -2 | $E(3)$ | $E(3)^2$ | 1 | $-2 * E(3)$ | $-2 * E(3)^2$ |
| χ_{25} | 2 | $-E(3)^2$ | $-E(3)$ | -1 | $2 * E(3)^2$ | $2 * E(3)$ | 0 | 0 | 0 | 0 | $-2 * E(3) - E(3)^2$ | $-E(3) - 2 * E(3)^2$ | $E(3) + 2 * E(3)^2$ | $-E(3) + E(3)^2$ | 0 | $2 * E(3) + E(3)^2$ | 0 | $E(3) - E(3)^2$ | 0 | 0 | 0 | -2 | $E(3)^2$ | $E(3)$ | 1 | $-2 * E(3)^2$ | $-2 * E(3)$ |
| χ_{26} | 2 | -1 | -1 | -1 | 2 | 2 | 0 | 0 | 0 | 0 | $-E(3) + E(3)^2$ | $E(3) - E(3)^2$ | $-E(3) + E(3)^2$ | $E(3) - E(3)^2$ | 0 | $E(3) - E(3)^2$ | 0 | $-E(3) + E(3)^2$ | 0 | 0 | 0 | -2 | 1 | 1 | 1 | -2 | -2 |
| χ_{27} | 2 | -1 | -1 | -1 | 2 | 2 | 0 | 0 | 0 | 0 | $E(3) - E(3)^2$ | $-E(3) + E(3)^2$ | $E(3) - E(3)^2$ | $-E(3) + E(3)^2$ | 0 | $E(3) - E(3)^2$ | 0 | $E(3) - E(3)^2$ | 0 | 0 | 0 | -2 | 1 | 1 | 1 | -2 | -2 |

Trivial source character table of $G \cong \text{C3 x ((C6 x C2) : C2)}$ 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 $n_j \in N_i$ | 1a | 3a | 3b | 3c | 3d | 3e | 1a | 3b | 3c | 3a | 3e | 3d | 1a | 3f | 3b | 3c | 3h | 3a | 3e | 3g | 3d | 1a | 3b | 3a | 1a | 3b | 3c | 3a | 3e | 3d | 1a | 3a | 3b | |
| $1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 2 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27}$ | 8 | 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 | |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 1 \cdot \chi_{26} + 1 \cdot \chi_{27}$ | 8 | -4 | -4 | -4 | 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 | |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 2 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27}$ | 8 | $8 * E(3)^2$ | $8 * E(3)$ | 8 | $8 * E(3)^2$ | $8 * E(3)$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 2 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27}$ | 8 | $8 * E(3)$ | $8 * E(3)^2$ | 8 | $8 * E(3)$ | $8 * E(3)^2$ | 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 | 0 | 0 | 0 |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 1 \cdot \chi_{22} + 0 \cdot \chi_{23} + 1 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27}$ | 8 | $-4 * E(3)$ | $-4 * E(3)^2$ | -4 | $8 * E(3)$ | $8 * E(3)^2$ | 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 | 0 | 0 | 0 |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 1 \cdot \chi_{23} + 0 \cdot \chi_{24} + 1 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27}$ | 8 | $-4 * E(3)^2$ | $-4 * E(3)$ | -4 | $8 * E(3)^2$ | $8 * E(3)$ | 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 |
| $1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27}$ | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27}$ | 4 | -2 | -2 | -2 | 4 | 4 | 4 | -2 | -2 | 4 | 4 | 4 | 4 | -2 | -2 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27}$ | 4 | $4 * E(3)^2$ | $4 * E(3)$ | 4 | $4 * E(3)^2$ | $4 * E(3)$ | 4 | $4 * E(3)$ | 4 | $4 * E(3)^2$ | $4 * E(3)$ | 4 | $4 * E(3)$ | 4 | $4 * E(3)^2$ | 4 | $4 * E(3)$ | 4 | $4 * E(3)^2$ | $4 * E(3)$ | $4 * E(3)^2$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27}$ | 4 | $4 * E(3)$ | $4 * E(3)^2$ | 4 | $4 * E(3)$ | $4 * E(3)^2$ | 4 | $4 * E(3)$ | 4 | $4 * E(3)^2$ | $4 * E(3)$ | 4 | $4 * E(3)$ | 4 | $4 * E(3)^2$ | 4 | $4 * E(3)$ | 4 | $4 * E(3)^2$ | $4 * E(3)$ | $4 * E(3)^2$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27}$ | 4 | $-2 * E(3)$ | $-2 * E(3)^2$ | -2 | $4 * E(3)$ | $4 * E(3)^2$ | 4 | $-2 * E(3)^2$ | -2 | $4 * E(3)$ | $4 * E(3)^2$ | 4 | $-2 * E(3)^2$ | -2 | $-2 * E(3)$ | $4 * E(3)^2$ | $4 * E(3)$ | 4 | $-2 * E(3)$ | $4 * E(3)^2$ | $4 * E(3)$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27}$ | 4 | $-2 * E(3)^2$ | $-2 * E(3)$ | -2 | $4 * E(3)^2$ | $4 * E(3)$ | 4 | $-2 * E(3)$ | -2 | $4 * E(3)^2$ | $4 * E(3)$ | 4 | $-2 * E(3)^2$ | -2 | $-2 * E(3)^2$ | $4 * E(3)$ | $4 * E(3)^2$ | 4 | $-2 * E(3)$ | $4 * E(3)^2$ | $4 * E(3)$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27}$ | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 1 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27}$ | 4 | $4 * E(3)$ | $4 * E(3)^2$ | 4 | $4 * E(3)$ | $4 * E(3)^2$ | 0 | 0 | 0 | 0 | 0 | 0 | 2 | $2 * E(3)$ | $2 * E(3)^2$ | $2 * E(3)$ | 2 | $2 * E(3)$ | $2 * E(3)$ | $2 * E(3)^2$ | $2 * E(3)$ | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 1 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27}$ | 4 | $4 * E(3)^2$ | $4 * E(3)$ | 4 | $4 * E(3)^2$ | $4 * E(3)$ | 0 | 0 | 0 | 0 | 0 | 0 | 2 | $2 * E(3)^2$ | $2 * E(3)$ | $2 * E(3)$ | 2 | $2 * E(3)^2$ | $2 * E(3)$ | $2 * E(3)^2$ | $2 * E(3)$ | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 1 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27}$ | 4 | $-2 * E(3)$ | $-2 * E(3)^2$ | -2 | $4 * E(3)$ | $4 * E(3)^2$ | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | $2 * E(3)$ | 2 | $2 * E(3)$ | $2 * E(3)^2$ | $2 * E(3)$ | $2 * E(3)^2$ | $2 * E(3)$ | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 1 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27}$ | 4 | $-2 * E(3)^2$ | $-2 * E(3)$ | -2 | $4 * E(3)^2$ | $4 * E(3)$ | 0 | 0 | 0 | 0 | 0 | 0 | 2 | $2 * E(3)^2$ | $2 * E(3)$ | 2 | $2 * E(3)^2$ | $2 * E(3)$ | $2 * E(3)^2$ | $2 * E(3)$ | $2 * E(3)^2$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 1 \cdot \chi_{18} + 1 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 1 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27}$ | 4 | $-2 * E(3)^2$ | $-2 * E(3)$ | -2 | $4 * E(3)^2$ | $4 * E(3)$ | 0 | 0 | 0 | 0 | 0 | 0 | 2 | $2 * E(3)^2$ | 2 | $2 * E(3)$ | 2 | $2 * E(3)^2$ | $2 * E(3)$ | $2 * E(3)^2$ | $2 * E(3)$ | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 1 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 0 \cdot \chi_{27}$ | 4 | $-2 * E(3)$ | $-2 * E(3)^2$ | -2 | $4 * E(3)$ | $4 * E(3)^2$ | 0 | 0 | 0 | 0 | 0 | 0 | 2 | $2 * E(3)$ | 2 | $2 * E(3)^2$ | 2 | $2 * E(3)$ | $2 * E(3)^2$ | $2 * E(3)$ | $2 * E(3)^2$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 0 \cdot \chi_{26} + 1 \cdot \chi_{27}$ | 4 | -2 | -2 | -2 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | $2 * E(3)$ | $2 * E(3)$ | $2 * E(3)^2$ | $2 * E(3)^2$ | $2 * E(3)$ | $2 * E(3)^2$ | $2 * E(3)^2$ | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{25} + 1 \cdot \chi_{26} + 0 \cdot \chi_{27}$ | 4 | -2 | -2 | -2 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | $2 * E(3)^2$ | $2 * E(3)^2$ | $2 * E(3)$ | 2 | $2 * E(3)^2$ | $2 * E(3)^2$ | $2 * E(3)$ | $2 * E(3)^2$ | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| $1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |