Ordinary character table of $G \cong C2 \times C2 \times C2 \times S3$:

 $\chi_{19} \mid 2 \quad 0 \quad -2 \quad 2 \quad -2 \quad -1 \quad 0 \quad 0 \quad 0 \quad -2 \quad 2 \quad 1 \quad -2 \quad -1 \quad 1 \quad 0 \quad 0 \quad 0 \quad 2 \quad 1 \quad -1 \quad 1 \quad 0 \quad -1$ $\chi_{20} \mid 2 \quad 0 \quad -2 \quad 2 \quad 2 \quad -1 \quad 0 \quad 0 \quad 0 \quad -2 \quad -2 \quad 1 \quad 2 \quad -1 \quad -1 \quad 0 \quad 0 \quad 0 \quad -2 \quad 1 \quad 1 \quad -1 \quad 0 \quad 1$ $\mid \chi_{21} \mid 2 \quad 0 \quad 2 \quad -2 \quad -2 \quad -1 \quad 0 \quad 0 \quad 0 \quad -2 \quad -2 \quad -1 \quad 2 \quad 1 \quad 1 \quad 0 \quad 0 \quad 0 \quad 2 \quad 1 \quad 1 \quad -1 \quad 0 \quad -1$ $\mid \chi_{22} \mid 2 \quad 0 \quad 2 \quad -2 \quad 2 \quad -1 \quad 0 \quad 0 \quad 0 \quad -2 \quad 2 \quad -1 \quad -2 \quad 1 \quad -1 \quad 0 \quad 0 \quad 0 \quad -2 \quad 1 \quad -1 \quad 1 \quad 0 \quad 1$ $\mid \chi_{23} \mid 2 \quad 0 \quad 2 \quad 2 \quad -2 \quad -1 \quad 0 \quad 0 \quad 0 \quad 2 \quad -2 \quad -1 \quad -2 \quad -1 \quad 1 \quad 0 \quad 0 \quad 0 \quad -2 \quad -1 \quad 1 \quad 1 \quad 0 \quad 1 \mid$

 $\chi_{24} \mid 2 \quad 0 \quad 2 \quad 2 \quad 2 \quad -1 \quad 0 \quad 0 \quad 0 \quad 2 \quad 2 \quad -1 \quad 2 \quad -1 \quad -1 \quad 0 \quad 0 \quad 0 \quad 2 \quad -1 \quad -1 \quad -1 \quad 0 \quad -1$

Frivial source character table of $G \cong C2 \times C2 \times C2 \times S3$ at p = 2

p-subgroups of G up to conjugacy in Representatives $n_i \in N_i$ $\cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_$ $1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot$ $1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot$ $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 1 \cdot \chi_{20} + 0 \cdot \chi_{11} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 1 \cdot \chi_{20} + 0 \cdot \chi_{11} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19} + 1 \cdot \chi_{20} + 0 \cdot \chi_{11} + 0 \cdot$ $1\cdot \chi_1 + 1\cdot \chi_2 + 0\cdot \chi_3 + 0\cdot \chi_4 + 1\cdot \chi_5 + 1\cdot \chi_6 + 0\cdot \chi_7 + 0\cdot \chi_8 + 1\cdot \chi_9 + 1\cdot \chi_{10} + 0\cdot \chi_{11} + 0\cdot \chi_{12} + 1\cdot \chi_{13} + 1\cdot \chi_{14} + 0\cdot \chi_{15} + 0\cdot \chi_{16} + 0\cdot \chi_{17} + 0\cdot \chi_{18} + 0\cdot \chi_{19} + 0\cdot \chi_{21} + 0\cdot \chi_{2$ $\underline{0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 1 \cdot \chi_{20} + 1 \cdot \chi_{21} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 1 \cdot \chi_{21} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 1 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0$ $1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{1$ $\cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{19} + 0 \cdot \chi_$ $1\cdot \chi_1 + 1\cdot \chi_2 + 1\cdot \chi_3 + 0\cdot \chi_4 + 0\cdot \chi_5 + 0\cdot \chi_6 + 0\cdot \chi_7 + 1\cdot \chi_8 + 1\cdot \chi_9 + 1\cdot \chi_{10} + 1\cdot \chi_{11} + 0\cdot \chi_{12} + 0\cdot \chi_{13} + 0\cdot \chi_{14} + 0\cdot \chi_{15} + 1\cdot \chi_{16} + 0\cdot \chi_{17} + 0\cdot \chi_{18} + 0\cdot \chi_{19} + 0\cdot \chi_{20} + 0\cdot \chi_{21} + 0\cdot \chi_{2$ $+ \chi_1 + 0 + \chi_2 + 0 + \chi_3 + 0 + \chi_4 + 0 + \chi_5 + 0 + \chi_6 + 0 + \chi_7 + 0 + \chi_8 + 0 + \chi_9 + 1 + \chi_{10} + 1 + \chi_{11} + 1 + \chi_{12} + 1 + \chi_{13} + 1 + \chi_{14} + 1 + \chi_{15} + 1 + \chi_{16} + 0 + \chi_{17} + 0 + \chi_{18} + 0 + \chi_{19} + 0 + \chi_{21} + 0 + \chi_{22} + 0 + \chi_{23} + 0 + \chi_{24} + 0 + \chi_{19} + 0 + \chi$ $+ \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi$ $\cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{19} + 0 \cdot \chi_$ $\cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} \mid 8 \quad 8 \mid 0 \mid 0 \quad 0 \mid 0 \quad 0 \mid 0 \quad 0 \mid 0$ $\chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{2$ $\cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi$ $1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot$ $1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot$ $1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_{10} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21}$ $1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_{10} + 0 \cdot \chi_{10} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21}$ $\frac{1}{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_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 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_{22} + 0 \cdot \chi_{23} + 1 \cdot \chi_{24} + 0 \cdot \chi_{19} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 1 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 1 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{19} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{19} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{19} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{19} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{19} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{19} +$ $\frac{1}{\chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_1 + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{19$ $+ \chi_1 + 0 + \chi_2 + 0 + \chi_3 + 0 + \chi_4 + 0 + \chi_5 + 0 + \chi_6 + 1 + \chi_7 + 1 + \chi_8 + 0 + \chi_9 + 0 + \chi_{10} + 0 + \chi_{11} + 0 + \chi_{12} + 0 + \chi_{13} + 1 + \chi_{14} + 0 + \chi_{15} + 0 + \chi_{16} + 0 + \chi_{17} + 0 + \chi_{18} + 0 + \chi_{19} + 0 + \chi$ $1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot$ $\frac{1}{1} + \frac{1}{1} + \frac{1}$ $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_{10} + 0 \cdot \chi_{10} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot$ $\chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{2$ $\chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{2$ $\chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{2$ $\cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_$ $\frac{1}{\sqrt{1}+0\cdot\sqrt{2}+0\cdot\sqrt{3}+0\cdot\sqrt{4}+1\cdot\sqrt{5}+0\cdot\sqrt{6}+0\cdot\sqrt{7}+0\cdot\sqrt{8}+0\cdot\sqrt{10}+0\cdot\sqrt{11}+0$ $\frac{1}{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_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} + 0 \cdot \chi_{23} + 0 \cdot \chi_{24} +$

 $\frac{1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{21} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} + 0 \cdot \chi_{21} + 0$

 $P_2 = Group([(1,21)(2,14)(3,32)(4,9)(5,8)(6,46)(7,25)(10,42)(11,19)(12,18)(13,48)(15,38)(16,37)(17,36)(20,47)(22,31)(23,30)(24,29)(26,45)(27,44)(28,43)(33,41)(34,40)(35,39)]) \cong \mathbb{C}_2$ $P_3 = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48)]) \cong \mathbb{C}_2$ $P_4 = Group([(1,4)(2,8)(3,11)(5,14)(6,15)(7,18)(9,21)(10,22)(12,25)(13,26)(16,29)(17,30)(19,32)(20,33)(23,36)(24,37)(27,39)(28,40)(31,42)(34,43)(35,44)(38,46)(41,47)(45,48)]) \cong \mathbb{C}^2$ $P_5 = Group([(1,14)(2,21)(3,25)(4,5)(6,29)(7,32)(8,9)(10,36)(11,12)(13,39)(15,16)(17,42)(18,19)(20,43)(22,23)(24,46)(26,27)(28,47)(30,31)(33,34)(35,48)(37,38)(40,41)(44,45)]) \cong C2$ $P_6 = Group([(1,3)(2,7)(4,11)(5,12)(6,13)(8,18)(9,19)(10,20)(14,25)(15,26)(16,27)(17,28)(21,32)(22,33)(23,34)(24,35)(29,39)(30,40)(31,41)(36,43)(37,44)(38,45)(42,47)(46,48)]) \cong \mathbb{C}_2$ $P_7 = Group([(1,12)(2,19)(3,5)(4,25)(6,27)(7,9)(8,32)(10,34)(11,14)(13,16)(15,39)(17,41)(18,21)(20,23)(22,43)(24,45)(26,29)(28,31)(30,47)(33,36)(35,38)(37,48)(40,42)(44,46)]) \cong \mathbb{C}_{2}$ $P_8 = Group([(1,11)(2,18)(3,4)(5,25)(6,26)(7,8)(9,32)(10,33)(12,14)(13,15)(16,39)(17,40)(19,21)(20,22)(23,43)(24,44)(27,29)(28,30)(31,47)(34,36)(35,37)(38,48)(41,42)(45,46)]) \cong \mathbb{C}_{2}$ $P_9 = Group([(1,25)(2,32)(3,14)(4,12)(5,11)(6,39)(7,21)(8,19)(9,18)(10,43)(13,29)(15,27)(16,26)(17,47)(20,36)(22,34)(23,33)(24,48)(28,42)(30,41)(31,40)(35,46)(37,45)(38,44)]) \cong \mathbb{C}_2$ $P_{19} = Groum([(1\ 2)(3\ 7)(4\ 8)(5\ 9)(6\ 24)(10\ 17)(11\ 18)(12\ 19)(13\ 35)(14\ 21)(15\ 37)(16\ 38)(20\ 28)(22\ 30)(23\ 31)(25\ 32)(26\ 44)(27\ 45)(29\ 46)(33\ 40)(34\ 41)(36\ 42)(39\ 48)(43\ 47)]) \cong C^{*}$ $P_{11} = Group([(1,9)(2,5)(3,19)(4,21)(6,38)(7,12)(8,14)(10,31)(11,32)(13,45)(15,46)(16,24)(17,23)(18,25)(20,41)(22,42)(26,48)(27,35)(28,34)(29,37)(30,36)(33,47)(39,44)(40,43)]) \cong C2$ $P_{15} = Group([(1,18)(2,11)(3,8)(4,7)(5,32)(6,44)(9,25)(10,40)(12,21)(13,37)(14,19)(15,35)(16,48)(17,33)(20,30)(22,28)(23,47)(24,26)(27,46)(29,45)(31,43)(34,42)(36,41)(38,39)]) \cong C2$

 $P_{16} = Group([(1,32)(2,25)(3,21)(4,19)(5,18)(6,48)(7,14)(8,12)(9,11)(10,47)(13,46)(15,45)(16,44)(17,43)(20,42)(22,41)(23,40)(24,39)(26,38)(27,37)(28,36)(29,35)(30,34)(31,33)]) \cong C2$ $10, 31)(11, 32)(13, 45)(15, 46)(16, 24)(17, 23)(18, 25)(20, 41)(22, 42)(26, 48)(27, 35)(28, 34)(29, 37)(30, 36)(33, 47)(39, 44)(40, 43), (1, 8)(5, 21)(6, 37)(7, 11)(9, 14)(10, 30)(12, 32)(13, 44)(15, 24)(16, 46)(17, 22)(19, 25)(20, 40)(23, 42)(26, 35)(27, 48)(28, 33)(29, 38)(31, 36)(34, 47)(39, 45)(41, 43)] \cong C2 \times C2$ $0, 23)(11, 25)(13, 27)(15, 29)(17, 31)(18, 32)(20, 34)(22, 36)(24, 38)(26, 39)(28, 41)(30, 42)(33, 43)(35, 45)(37, 46)(40, 47)(44, 48), (1, 2)(3, 7)(4, 8)(5, 9)(6, 24)(10, 17)(11, 18)(12, 19)(13, 35)(14, 21)(15, 37)(16, 38)(20, 28)(22, 30)(23, 31)(25, 32)(26, 44)(27, 45)(29, 46)(33, 40)(34, 41)(36, 42)(39, 48)(43, 47)] \cong C2 \times C2$ $.9)(8,32)(10,34)(11,14)(13,16)(15,39)(17,41)(18,21)(20,23)(22,43)(24,45)(26,29)(28,31)(30,47)(33,36)(35,38)(37,48)(40,42)(44,46), (1,11)(2,18)(3,4)(5,25)(6,26)(7,8)(9,32)(10,33)(12,14)(13,15)(16,39)(17,40)(19,21)(20,22)(23,43)(24,44)(27,29)(28,30)(31,47)(34,36)(35,37)(38,48)(41,42)(45,46)]) \\ \simeq C_2 \times C_2 \times C_3 \times C_3 \times C_3 \times C_4 \times C_$ $P_{27} = Group([(1,4)(2,8)(3,11)(5,14)(6,15)(7,18)(9,21)(10,22)(12,25)(13,26)(16,29)(17,30)(19,32)(20,33)(23,36)(24,37)(27,39)(28,40)(31,42)(34,43)(35,44)(38,46)(41,47)(45,48), (1,3)(2,7)(4,11)(5,12)(6,13)(8,18)(9,19)(10,20)(14,25)(15,26)(16,27)(17,28)(21,32)(22,33)(23,34)(24,35)(29,39)(30,40)(31,41)(36,43)(37,44)(38,45)(42,47)(46,48)] \\ \cong C_2 \times C_2 \times C_2 \times C_3 \times C_3$ $P_{29} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,7)(2,3)(4,18)(5,19)(6,35)(8,11)(9,12)(10,28)(13,24)(14,32)(15,44)(16,45)(17,20)(21,25)(22,40)(23,41)(26,37)(27,38)(29,48)(30,33)(31,34)(36,47)(39,46)(42,43)] \\ \cong C_{2} \times C_{2}$ $P_{31} = Group((1, 12)(2, 19)(3, 5)(4, 25)(6, 27)(7, 9)(8, 32)(10, 34)(11, 14)(13, 16)(15, 39)(17, 41)(18, 21)(20, 23)(22, 43)(24, 45)(26, 29)(28, 31)(30, 47)(33, 36)(35, 38)(37, 48)(40, 42)(44, 46), (1, 2)(3, 7)(4, 8)(5, 9)(6, 24)(10, 17)(11, 18)(12, 19)(13, 35)(14, 21)(15, 37)(16, 38)(20, 28)(22, 30)(23, 31)(25, 32)(26, 44)(27, 45)(29, 46)(33, 40)(34, 41)(36, 42)(49, 47)(39, 48)(49, 47)(49,$ $P_{22} = Group([(1.5)(2.9)(3.12)(4.14)(6.16)(7.19)(8.21)(10.23)(11.25)(13.27)(15.29)(17.31)(18.32)(20.34)(22.36)(24.38)(26.39)(28.41)(30.42)(33.43)(35.45)(17.28)(21.32)(22.33)(23.34)(24.35)(29.39)(30.40)(31.41)(36.43)(37.44)(38.45)(42.47)(46.48)[) \color C \colo$ $P_{35} = Group([(1,8)(2,4)(3,18)(5,21)(6,37)(7,11)(9,14)(10,30)(12,32)(13,44)(15,24)(16,45)(17,20)(23,42)(26,35)(27,48)(28,33)(29,38)(31,36)(34,47)(29,38)(29,48)(30,33)(29,38)(31,34)(36,47)(29,48)(30,33)(29,48)(30,33)(29,48)(30,33)(29,48)(30,33)(29,48)(30,33)(29,48)(30,33)(29,48)(30,33)(29,48)(30,33)(29,48)(30,33)(29,48)(30,33)(29,48)(30,33)(29,48)(30,33)(29,48)(30,33)(29,48)(30,33)(31,34)(36,47)(39,48)(30,33)(31,34)(31,34)$ $P_{37} = Group([(1,9)(2,5)(3,19)(4,21)(6,38)(7,12)(8,14)(10,31)(11,32)(13,45)(15,46)$ $P_{30} = Group([(1,12)(2,19)(3,5)(4,25)(6,27)(7,9)(8,32)(10,34)(11,14)(13,16)(15,39)(17,41)(18,21)(20,23)(22,43)(24,45)(26,29)(28,31)(30,47)(33,36)(35,38)(37,48)(40,42)(44,46),(1,8)(2,4)(3,18)(5,21)(6,37)(7,11)(9,14)(10,30)(12,32)(13,44)(15,24)(16,46)(17,22)(19,25)(20,40)(23,42)(26,35)(27,48)(28,33)(29,38)(31,36)(34,47)(39,45)(41,43)]) \\ \cong C_{2} \times C_{2}$ $P_{40} = Group([(1,19)(2,12)(3,9)(4,32)(5,7)(6,45)(8,25)(10,41)(11,21)(13,38)(14,18)(15,48)(16,35)(17,34)(20,31)(22,47)(23,28)(24,27)(26,46)(29,44)(30,43)(33,42)(36,40)(37,39), \\ (1,8)(2,47)(23,28)(24,27)(26,46)(29,44)(30,43)(33,42)(36,40)(37,39), \\ (1,8)(2,47)(23,28)(24,27)(26,46)(29,44)(30,43)(33,42)(36,40)(37,39), \\ (1,8)(2,47)(23,28)(24,27)(26,46)(29,44)(30,43)(33,42)(36,40)(37,39), \\ (1,8)(2,47)(23,28)(24,27)(26,46)(29,44)(30,43)(33,42)(36,40)(37,39), \\ (1,8)(2,47)(23,28)(24,27)(26,46)(29,44)(30,43)(33,42)(36,40)(37,39), \\ (1,8)(2,47)(23,28)(24,27)(26,46)(29,44)(30,43)(33,42)(36,40)(37,39), \\ (1,8)(2,47)(23,28)(24,27)(26,46)(29,44)(30,43)(33,42)(36,40)(37,39), \\ (1,8)(2,47)(23,28)(24,27)(26,46)(29,44)(30,43)(33,42)(36,40)(37,39), \\ (1,8)(2,47)(23,28)(24,27)(26,46)(29,44)(30,43)(33,42)(36,40)(37,39), \\ (1,8)(2,47)(23,28)(24,27)(26,46)(29,44)(30,43)(33,42)(36,40)(37,39), \\ (1,8)(2,47)(23,28)(24,27)(26,46)(29,44)(30,43)(33,42)(36,40)(37,39), \\ (1,8)(2,47)(23,28)(24,27)(26,46)(29,44)(30,43)(33,42)(36,46)(37,48)(39,48)(3$ $2_{43} = Group([(1, 9)(2, 5)(3, 19)(4, 21)(6, 38)(7, 12)(8, 14)(10, 31)(11, 32)(13, 45)(15, 46)(16, 24)(17, 23)(18, 25)(20, 41)(22, 42)(26, 48)(27, 35)(28, 34)(29, 37)(30, 36)(33, 47)(39, 44)(40, 43), (1, 18)(2, 11)(3, 37)(14, 19)(15, 35)(16, 48)(17, 33)(20, 30)(22, 28)(23, 47)(24, 26)(27, 46)(29, 45)(31, 43)(34, 42)(36, 41)(38, 39)]) \\ \cong C_{2} \times C_{2} \times$ $P_{44} = Group([(1,19)(2,12)(3,9)(4,32)(5,7)(6,45)(8,25)(10,41)(11,21)(13,38)(14,18)(15,48)(16,35)(17,34)(20,31)(22,47)(23,28)(24,27)(26,46)(29,44)(30,43)(33,42)(36,40)(37,39), \\ (1,11)(2,18)(3,4)(5,25)(6,26)(7,8)(9,32)(10,33)(12,14)(13,15)(16,39)(17,40)(19,21)(20,22)(23,43)(24,44)(27,29)(28,30)(31,47)(34,36)(35,37)(38,48)(41,42)(45,46)] \cong C2 \times C2$ $P_{47} = Group([(1,21)(2,14)(3,32)(4,9)(5,8)(6,46)(7,25)(10,42)(11,19)(12,18)(13,48)(15,38)(16,37)(17,36)(20,47)(22,31)(23,30)(24,29)(26,45)(27,44)(28,43)(33,41)(34,40)(35,39), \\ (1,3)(2,7)(4,11)(5,12)(6,13)(8,18)(9,19)(10,20)(14,25)(15,26)(16,27)(17,28)(21,32)(22,33)(23,34)(24,35)(29,39)(30,40)(31,41)(36,43)(37,44)(38,45)(42,47)(46,48)] \\ \cong C_2 \times C_2(2,31)(23,30)(24,29)(26,45)(27,44)(28,43)(27,44)(28,4$ $P_{48} = Group([(1,14)(2,21)(3,25)(4,5)(6,29)(7,32)(8,9)(10,36)(11,12)(13,39)(15,16)(17,42)(18,19)(20,43)(22,23)(24,46)(26,27)(28,47)(30,31)(33,34)(35,48)(37,38)(40,41)(44,45),(1,7)(2,3)(4,18)(5,19)(6,35)(4,11)(9,12)(10,28)(13,24)(14,32)(15,44)(16,45)(17,20)(21,25)(22,40)(23,41)(26,37)(27,38)(29,48)(30,33)(31,34)(36,47)(39,46)(42,43)]) \\ \cong C_2 \times C_2(2,23)($ $P_{49} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,4)(2,8)(3,11)(5,14)(6,15)(7,18)(9,21)(10,22)(12,25)(13,26)(16,29)(17,30)(19,32)(20,33)(23,36)(24,37)(27,39)(28,41)(30,42)(33,43)(35,44)(38,46)(41,47)(45,48)]) \\ \cong C_{2} \times C_{2}$ $P_{50} = Group([(1,19)(2,12)(3,9)(4,32)(5,7)(6,45)(8,25)(10,41)(11,21)(13,38)(14,18)(15,48)(16,35)(17,34)(20,31)(22,47)(23,28)(24,27)(26,46)(29,44)(30,43)(33,42)(36,40)(37,39), \\ (1,4)(2,8)(3,11)(5,14)(6,15)(7,18)(9,21)(10,22)(12,25)(13,26)(16,29)(17,30)(19,32)(20,33)(23,36)(24,37)(27,39)(28,40)(31,42)(34,43)(35,44)(38,46)(41,47)(45,48)] \\ \cong C_2 \times C_2(3,23)(23,36)(24,37)(27,39)(28,40)(31,42)(34,43)(35,44)(38,46)(41,47)(45,48)] \\ \cong C_2 \times C_2(3,23)(24,27)(26,46)(29,47)(26,4$ $P_{51} = Group([(1,8)(2,4)(3,18)(5,21)(6,37)(7,11)(9,14)(10,30)(12,32)(13,44)(15,24)(16,46)(17,22)(19,25)(20,40)(23,42)(26,35)(27,48)(28,33)(29,38)(31,36)(42,47)(49,45)(15,26)(16,27)(17,28)(21,32)(22,33)(23,34)(24,35)(29,39)(30,40)(31,41)(36,43)(37,44)(38,45)(42,47)(46,48)]) \\ \cong C_2 \times C_2 \times C_2 \times C_3 \times$ $F_{52} = Group([(1,5)(2,9)(3,12)(4,48)(2,36)(24,38)(25,34)(35,44)(38,46)(41,47)(45,48),(1,2)(3,7)(4,8)(25,34)(25,34)(25,34)(35,44)(38,46)(41,47)(45,48),(1,2)(3,34)(25,3$

 $F_{23} = Group([(1,5)(2,9)(3,12)(4,43)(35,44)(38,45)(42,36)(43,43)(35,44)(38,45)(42,36)(43,43)(35,44)(38,45)(42,36)(43,43)(35,44)(38,45)(42,47)(45,48)(1,2)(23,36)(24,37)(27,39)(28,41)(30,42)(33,43)(35,44)(38,45)(42,47)(45,48)(1,2)(43,43)(35,44)(38,45)(42,47)(45,48)(1,2)(43,43)(43$ $P_{54} = Group([(1,14)(2,21)(3,25)(4,5)(6,29)(7,32)(8,9)(10,36)(11,12)(13,39)(15,16)(15,16)(15,16)$ $F_{55} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(28,30)(21,42)(23,43)(24,44)(27,29)(28,30)(23,43)(25,32)(26,44)(27,45)(29,46)(33,40)(34,41)(36,42)(39,48)(43,47)] \\ \cong C_{2} \times C_{2} \times C_{2} \times C_{2} \times C_{3} \times C_{4} \times C_{4} \times C_{5} \times C_$ $F_{56} = Group([(1,4)(2,8)(3,11)(5,14)(6,15)(7,18)(9,21)(10,22)(12,25)(13,26)(16,29)(27,30)(23,36)(24,37)(27,39)(28,40)(31,42)(34,43)(35,44)(38,46)(41,47)(45,48)(11,12)(2,19)(3,5)(4,25)(6,27)(7,9)(8,32)(10,34)(11,14)(13,16)(15,39)(17,41)(18,21)(20,23)(22,43)(24,45)(20,23)(23,36)(24,37)(27,39)(28,40)(31,42)(34,43)(35,44)(38,46)(41,47)(45,48)(41,47)($ $P_{57} = Group([(1,14)(2,21)(3,25)(4,5)(6,29)(7,32)(8,9)(10,36)(11,12)(13,39)(15,16)(15,39)(17,41)(18,21)(20,23)(24,46)(26,27)(28,47)(30,31)(33,34)(35,48)(40,41)(44,45), (1,12)(2,19)(3,5)(4,25)(6,27)(7,9)(8,32)(10,34)(11,12)(13,39)(15,16)(15,39)(15,39)$ $S_{58} = Group([(1,4)(2,8)(3,11)(5,14)(6,13)(27,36)(16,27)(17,28)(21,32)(22,33)(23,36)(24,37)(27,36)(16,27)(17,28)(21,32)(22,33)(23,36)(24,37)(27,36)(16,27)(17,28)(21,32)(22,33)(23,36)(24,37)(27,36)(28,34)(29,37)(30,36)(33,47)(39,44)(40,43)] \\ \cong C_{2} \times C_{2}$ $P_{59} = Group([(1,14)(2,21)(3,25)(4,5)(6,29)(7,32)(8,9)(10,36)(11,12)(13,39)(15,16)(17,42)(13,41)(36,43)(27,45)(29,39)(30,40)(31,41)(36,42)(29,39)(23,34)(24,45)(29,39)(23,34)(24,45)(29,39)(23,34)(24,45)(29,39)(30,40)(31,41)(36,42)(39,48)(43,47)] \\ \cong C_2 \times C_2 \times C_2 \times C_3 \times C_4 \times$ $F_{60} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(12,34)(22,36)(24,38)(25,34)(24,35)(29,34)(29,34)$ $F_{61} = Group([1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(12,33)(22,33)(23,34)(24,35)(29,39)(30,40)(31,41)(5,12)(6,13)(8,18)(9,19)(10,20)(14,25)(15,29)(17,31)(18,32)(20,34)(24,35)(29,39)(30,40)(31,41)(36,42)(33,43)(35,45)(37,44)(38,45)(42,47)(46,48)(1,1)(5,12)(6,13)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(24,35)(29,34)(29,34)(2$ $F_{62} = Group([(1,14)(2,21)(3,32)(4,5)(2,32)(24,46)(25,23)(24,46)(25,23)(24,46)(25,23)(24,46)(25,23)(24,46)(25,23)(24,46)(25,23)(24,46)(25,23)(24,46)(25,23)(24,46)(25,23)(24,46)(25,23)(24,46)(25,23)(25,$ $F_{63} = Group([(1,5)(2,9)(3,12)(4,48)(3,47)(27,39)(28,41)(30,42)(33,43)(35,44)(38,46)(41,47)(45,48)(17,20)(21,25)(13,24)(14,32)(15,44)(6,15)(7,18)(9,21)(10,23)(13,24)(14,32)(23,34)(35,44)(38,46)(41,47)(45,48)(17,20)(21,25)(23,40)(23,41)(26,37)(27,38)(29,48)(30,33)(31,34)(36,47)(39,46)(42,43)(49,46)(42,43)(49,46)(42,43)(49,46)(42,43)(49,46)(42,43)(49,46)(49,47)(49,48)(49,48)($ (35, 40)(35, $P_{66} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(23,43)(24,44)(27,29)(28,30)(31,47)(34,36)(35,47)(39,45)(41,43)] \\ \cong C_{2} \times C_{$

3, 3, 1, 1, 1, 3, 1, 1, 3, 1, 3, 1, 1, 3

3, 3, 1, 1, 1, 3, 1, 1, 3, 1, 3, 1, 1, 3 $3.5 \times 3.5 \times 3.5$

 $F_{3} = Group([1, 4)(2, 8)(3, 11)(5, 14)(6, 13)(13, 41)(13, 42)(13, 43)(13, 41)(13, 42)(13, 43)(13, 41)(13, 42)(13, 43)(13, 41)(13, 43)(13,$ $5 = C_1 \times C_2 \times C_2 \times C_3 \times C_4 \times C_3 \times C_4 \times$ $C_{1}, C_{2}, C_{3}, C_{4}, C_{5}, C_{5},$ (25, 25)(25, 27)(25, $C_{1}(1,1,2,1) = C_{1}(1,1,2,1) = C_{2}(1,1,2,1) = C_{2}(1,1,2) = C_{2}(1,1,2)$ = Group([(1,7)(2,3)(4,18)(5,19)(6,35)(8,11)(9,12)(10,18)(13,19)= Group([(1,2)(3,7)(4,8)(5,9)(6,24)(10,17)(11,18)(12,17)(13,17)(14,18)(12,17)(13,17)= Group([(1,18)(2,11)(3,8)(4,7)(5,32)(6,44)(9,25)(10,40)(12,21)(13,35)(14,21)(15,37)(16,38)(20,34)(24,35)(29,47)(24,26)(27,45)(29,47)(30,40)(31,41)(36,42)(37,47)(48,16)(27,47)(48,16)(27,47)(48,16)(27,47)(48,16)(28,47)(48,16)(28,47)(48,16)(28,47)(48,16)(18,47)=Group([(1,11)(2,18)(3,4)(5,25)(6,26)(7,8)(9,32)(10,33)(12,14)(13,15)(16,32)(22,33)(23,4)(24,44)(27,29)(23,34)(24,43)(24,44)(27,45)(29,34)(24,47)(26,46)(29,44)(30,43)(33,42)(36,40)(37,44)(36,42)(3=Group([(1,18)(2,11)(3,8)(4,7)(5,32)(2,43)(24,45)(25,21)(3,8)(4,7)(5,32)(25,43)(24,45)(25,23)(25,43)(24,45)(25,23)(25,43)(24,45)(25,23)(25,34)(24,45)(25,23)(25,34)(24,45)(25,23)(25,34)(24,45)(25,23)(25,34)(24,45)(25,23)(25,34)(24,45)(25,23)(25,34)(24,45)(25,23)(25,34)(24,45)(25,23)(25,34)(24,45)(25,23)(25,34)(24,45)(25,23)(25,34)(24,45)(25,23)(25,34)(24,45)(25,23)(25,34)(24,45)(25,23)(25,34)(24,45)(25,23)(25,34)(24,45)(25,23)(25,34)(24,45)(25,23)(25,2=Group([(1,18)(2,11)(3,8)(4,7)(5,32)(6,44)(9,25)(10,40)(12,21)(13,37)(14,12)(15,37)(16,48)(17,33)(20,30)(22,28)(23,47)(24,26)(27,46)(29,47)(26,48)(17,33)(20,30)(22,28)(23,47)(24,26)(27,46)(29,47)(26,48)(27,47)(27,48)(=Group([(1,3)(2,7)(4,11)(5,12)(6,43)(27,34)(13,41)(35,42)(13,41)(35,42)(13,41)(35,42)(13,41)(35,42)(13,42

= Group([(1,2)(3,7)(4,8)(5,9)(6,24)(10,13)(12,14)(13,15)(13,27)(15,29)(13,14)(13,15)(13,27)(15,29)(13,14)(13,15)(13,14)(13,15)(14,21)(15,12)=Group([(1,2)(3,7)(4,8)(5,9)(6,24)(10,13)(24,45)(25,31)(25,34)(24,45)(25,31)(25,31)(25,32)(26,44)(27,45)(29,43)(24,45)(25,31)(25,32)(26,43)(24,45)(26,23)(23,34)(24,45)(26,23)(23,34)(24,45)(26,23)(23,34)(24,45)(26,23)(23,34)(24,45)(26,23)(23,34)(24,45)(26,23)(23,34)(24,45)(26,23)(23,34)(24,45)(26,23)(23,34)(24,45)(26,23)(23,34)(24,45)(26,23)(23,34)(24,45)(26,23)(23,34)(24,45)(26,23)(23,34)(24,45)(26,23)(23,34)(24,45)(26,23)(23,34)(24,45)(26,23)(23,34)(24,45)(26,23)(23,34)(24,45)(26,23)(23,34)(24,45)(26,23)(23,34)(24,45)(26,23)(24,23)(= Group([(1,9)(2,5)(3,19)(4,21)(6,38)(7,12)(8,41)(13,14)=Group([(1,9)(2,5)(3,19)(4,21)(6,38)(7,12)(8,44)(38,45)(42,47)(46,48),(1,2)(27,35)(28,34)(29,37)(30,36)(24,37)(27,39)(28,40)(31,42)(43,45)(29,37)(23,34)(24,35)(29,39)(30,40)(31,41)(36,42)(33,40)(34,41)(36,42)(34,43)(35,44)(38,45)(42,47)(46,48),(1,2)(3,7)(4,11)(5,12)(6,13)(43,47)(29,42)(29,33)(23,34)(24,35)(29,37)(29,34)(29,34)(= Group([(1,9)(2,5)(3,19)(4,21)(6,38)(7,12)(8,41)(13,42)(2,33)(23,34)(24,35)(29,37)(30,34)(24,35)(29,37)(30,34)(24,35)(29,37)(30,34)(24,35)(29,37)(30,34)(24,35)(29,37)(30,34)(24,35)(29,37)(30,34)(24,35)(29,37)(30,34)(33,34)(35,34)(= Group([(1,7)(2,3)(4,18)(5,19)(3,42)(14,32)(15,44)(34,43)(35,44)(34,43)(35,44)(34,43)(35,44)(36,47)(27,38)(29,48)(31,42)(34,43)(35,44)(36,47)(27,38)(29,48)(31,42)(34,43)(35,44)(36,47)(27,38)(29,48)(31,42)(34,43)(35,44)(36,47)(39,48)(43,47)(36,47)(36,4= Group([(1,2)(3,7)(4,8)(5,9)(6,24)(10,12)(12,3)(13,2)(14,21)(15,32)(13,21)(15,32)(22,33)(23,34)(24,35)(29,32)(23,34)(24,35)(29,32)(23,34)(24,35)(29,32)(23,34)(24,35)(29,32)(23,34)(24,35)(29,32)(2= Group([(1, 9)(2, 5)(3, 19)(4, 21)(6, 38)(7, 12)(4, 21)(6, 38)(7, 12)(13, 24)(24, 45)(26, 29)(28, 31)(30, 47)(33, 46)(42, 45)(26, 29)(28, 31)(30, 47)(33, 46)(43, 47)(34, 45)(26, 29)(28, 31)(30, 47)(33, 36)(35, 44)(40, 42)(44, 46), (1, 2)(2, 42)(26, 48)(27, 35)(28, 44)(27, 45)(29, 46)(33, 40)(34, 47)(36, 42)(49, 48)(43, 47)(36, 42)(49, 48)(49, 47)(49, 48)(49, 47)(49, 48)(49, 47)(49, 48)(49, 47)(49, 48)(49, 47)(49, 48)(49, 47)(49, 48)(49, 47)(49, 48)(49, 47)(49, 48)(49, 47)(49, 48)(49, 47)(49, 48

=Group([(1,7)(2,3)(4,18)(5,19)(6,35)(8,11)(9,12)(10,28)(13,24)(14,32)(15,44)(14,32)(15,44)(14,45)(17,20)(21,25)(13,26)(14,21)(15,37)(16,38)(22,23)(24,46)(23,41)(25,32)(24,46)(23,41)(25,32)(24,46)(23,41)(25,32)(24,46)(23,41)(25,32)(24,46)(23,41)(25,32)(24,46)(24,43)(35,44)(= Group([(1,4)(2,8)(3,11)(5,12)(6,32)(2,32)(2,32)(2,32)(2,33)(23,34)(24,37)(27,32)(23,34)(24,37)(27,32)(23,34)(24,37)(27,32)(23,34)(24,37)(27,32)(23,34)(24,37)(27,32)(23,34)(24,37)(27,32)(23,34)(24,37)(27,32)(2=Group([(1,2)(3,7)(4,8)(5,9)(6,24)(10,17)(11,18)(12,17)(13,17)(=Group([(1,2)(3,7)(4,8)(5,9)(6,24)(10,17)(11,18)(12,19)(3,7)(4,8)(5,9)(6,24)(10,17)(11,18)(12,19)(3,34)(24,35)(2