$|\chi_7|$  1 1 -1 1 1 1 -1 1 1 -1 -1 1 1 -1 -1  $|\chi_8|$  1 1 1 -1 1 1 1 -1 1 -1 1 -1 1 -1 -1  $\mid \chi_9 \mid$  2 0 -2 -2 2 -1 0 0 0 2 1 1 -1 0 -1  $\mid \chi_{10} \mid 2 \quad 0 \quad -2 \quad 2 \quad 2 \quad -1 \quad 0 \quad 0 \quad 0 \quad -2 \quad 1 \quad -1 \quad -1 \quad 0 \quad 1$  $\mid \chi_{11} \mid 2 \quad 0 \quad 2 \quad -2 \quad 2 \quad -1 \quad 0 \quad 0 \quad 0 \quad -2 \quad -1 \quad 1 \quad -1 \quad 0 \quad 1$  $|\chi_{12}|$  2 0 2 2 2 -1 0 0 0 2 -1 -1 0 0 -1  $\mid \chi_{13} \mid 2 \quad -2 \quad 0 \quad 0 \quad -2 \quad 2 \quad 0 \quad 0 \quad 2 \quad 0 \quad 0 \quad 0 \quad -2 \quad 0 \quad 0$  $\mid \chi_{15} \mid$  4 0 0 0 -4 -2 0 0 0 0 0 0 2 0 0

Ordinary character table of  $G \cong Q8 \times S3$ :

$\boxed{1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 2 \cdot \chi_{13} + 2 \cdot \chi_{14} + 0 \cdot \chi_{15} & 16 & 16 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & $	0
$ \left  \begin{array}{c cccccccccccccccccccccccccccccccccc$	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} \begin{vmatrix} 8 & 8 & 8 & 0 & 0 & 0 & 0 & 0 & 0 & 0 &$	0
$ \left  \begin{array}{c cccccccccccccccccccccccccccccccccc$	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}+1\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}+2\cdot\chi_{14}+0\cdot\chi_{15} \\ \hspace{0.2cm} 8 \hspace{0.2cm} 0 $	0
$1\cdot\chi_{1}+0\cdot\chi_{2}+0\cdot\chi_{3}+0\cdot\chi_{4}+0\cdot\chi_{5}+1\cdot\chi_{6}+1\cdot\chi_{7}+1\cdot\chi_{8}+0\cdot\chi_{9}+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+2\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15} \begin{array}{ c c c c c c c c c c c c c c c c c c c$	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} \begin{vmatrix} 4 & 4 & 4 & 4 & 0 & 0 & 4 & 4 & 0 & 0 &$	0
$\left  \begin{array}{c cccccccccccccccccccccccccccccccccc$	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} \begin{vmatrix} 4 & 4 & 4 & 4 & 0 & 0 & 0 & 0 & 0 & 0 &$	0
$\left  \begin{array}{c cccccccccccccccccccccccccccccccccc$	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} \begin{vmatrix} 4 & 4 & 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & $	0
$\left  \begin{array}{c cccccccccccccccccccccccccccccccccc$	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 + 1 \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} \begin{vmatrix} 4 & 4 & 4 & 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix}$	0
$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 + 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} \begin{vmatrix} 4 & 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \end{vmatrix} \end{vmatrix} \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix}$	0
$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 + 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} \begin{vmatrix} 4 & 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \end{vmatrix} \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix}$	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \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} \begin{vmatrix} 4 & 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix} \end{vmatrix} \end{vmatrix} \end{vmatrix} \end{vmatrix} \begin{vmatrix} 4 & 4 & 4 & 4 \end{vmatrix} \end{vmatrix}$	0
$\boxed{1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}  2  2  2  2  2  2  2  2  0  0$	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} \begin{vmatrix} 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2$	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} \begin{vmatrix} 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2$	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} \begin{vmatrix} 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2$	0
$\left \begin{array}{c cccccccccccccccccccccccccccccccccc$	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} \begin{vmatrix} 2 & 2 & 2 & 2 & 0 & 0 & 0 & 2 & 2 & 0 & 0$	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} \begin{vmatrix} 2 & 2 & 2 & 2 & 0 & 0 & 0 & 0 & 0 & 0 &$	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} \begin{vmatrix} 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2$	2
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + $	1

 $P_4 = Group([(1,9)(2,5)(3,19)(4,21)(6,38)(7,12)(8,14)(10,31)(11,32)(13,45)(15,46)(16,24)(17,23)(18,25)(20,41)(22,42)(26,48)(27,35)(28,34)(29,37)(30,36)(33,47)(39,44)(40,43)]) \cong \mathbb{C}_2$  $P_5 = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,4,5,14)(2,8,9,21)(3,11,12,25)(6,15,16,29)(7,18,19,32)(10,22,23,36)(13,26,27,39)(17,30,31,42)(20,33,34,43)(24,37,38,46)(28,40,41,47)(35,44,45,48)]) \\ \cong C4 + C_{10}(10,12)(10,$ 

 $P_6 = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,3,5,12)(2,7,9,19)(4,25,14,11)(6,13,16,27)(8,32,21,18)(10,20,23,34)(15,39,29,26)(17,28,31,41)(22,43,36,33)(24,35,38,45)(30,47,42,40)(37,48,46,44)]) \cong C4$  $P_8 = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,2)(3,7)(4,8)(5,9)(6,24)(10,17)(11,18)(12,19)(13,35)(14,21)(15,37)(16,38)(20,38)(23,31)(25,32)(26,44)(27,45)(29,46)(33,40)(34,41)(36,42)(39,48)(43,47)] \\ \cong C_2 \times C_2 \times C_3 \times C_3 \times C_4 \times C_$ 

 $P_9 = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,8,5,21)(2,4,9,14)(3,18,12,32)(6,37,16,46)(7,11,19,25)(10,30,23,42)(13,44,27,48)(15,38,29,24)(17,22,31,36)(20,40,34,47)(26,45,39,35)(28,33,41,43)]) \cong C4$ 

 $P_{10} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(10,28,23,41)(13,38,27,24)(15,48,29,44)(17,20,31,34)(22,47,36,40)(26,37,39,46)(30,43,42,33)]) \cong C4$ 

 $P_{11} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,32,5,18)(2,25,9,11)(3,8,12,21)(4,19,14,7)(6,48,16,44)(10,47,23,40)(13,37,27,46)(15,45,29,35)(17,43,31,33)(20,30,34,42)(22,41,36,28)(24,39,38,26)]) \cong C4$ 

 $P_{14} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(25,32)(26,44)(27,45)(29,46)(33,40)(34,41)(36,42)(39,48)(43,47)]) \cong C4 \times C2$ 

 $P_{13} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(6,34)(22,36)(24,34)(25,34)($ 

 $P_{15} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38,45)(30,47,42,40)(37,48,46,44)]) \\ \cong Q8$  $P_{16} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,19)(8,21)(10,23)(11,25)(13,27)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38,345)(30,47,42,40)(37,48,46,44), (1,8,5,21)(2,4,9,14)(3,18,12,32)(6,37,16,46)(7,11,19,25)(10,30,23,42)(13,44,27,48)(15,38,29,24)(17,22,31,36)(20,40,34,47)(26,45,39,35)(28,33,41,43)]) \\ \cong Q8$ 

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

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

 $P_{19} = Group([(1,5)(2,9)(3,12)(4,34)(25,34)(25,34)(25,34)(15,39)(25,34)(15,39)(25,34)(15,39)(25,34)(15,39)(25,34)(15,39)(25,34)(15,39)(25,34)(15,39)(25,34)(15,39)(25,34)(15,39)(25,34)(15,39)(25,34)(15,39)(25,34)(15,39)(25,34)(15,39)(25,34)(15,39)(25,34)(15,39)(25,34)(25,$ 

5)(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), (1,3,5,12)(2,7,9,19)(4,25,14,11)(6,13,16,27)(8,32,21,18)(10,22,23,36)(13,26,27,39)(17,30,31,42)(20,33,34,43)(24,37,38,46)(28,40,41,47)(35,44,45,48), (1,5)(2,9,46)(33,40)(34,41)(36,42)(39,48)(43,47), (1,3,5,12)(2,7,9,19)(4,25,14,11)(6,13,16,27)(8,32,21,18)(10,22,23,36)(13,26,27,39)(17,30,31,42)(20,33,34,43)(24,37,38,46)(28,40,41,47)(35,44,45,48), (1,5)(29,46)(33,40)(34,41)(36,42)(39,48)(43,47), (1,3,5,12)(27,49,12)(37,48,46,44), (1,4,5,14)(27,48,46,44), (1,

 $2.2 \times 2.3 \times 3.3 \times 3.3$  $I_{16} = Group([(1,8,5,21)(2,4,9,14)(3,18,12,32)(6,37,16,46)(7,11,19,25)(13,37)(15,29)(17,31)(18,32)(20,34)(22,36)(24,38)(26,39)(28,41)(30,42)(33,43)(35,45)(37,46)(40,47)(44,48), (1,2)(3,7)(4,8)(5,9)(6,24)(10,17)(11,18)(12,19)(13,35)(14,21)(15,37)(16,38)(20,34)(23,34)(35,45)(37,46)(40,47)(44,48), (1,2)(3,7)(4,8)(5,9)(6,24)(10,17)(11,18)(12,19)(13,35)(14,21)(15,37)(16,38)(20,34)(23,34)(35,45)(37,46)(40,47)(44,48), (1,2)(3,7)(4,8)(5,9)(6,24)(10,17)(11,18)(12,19)(13,35)(14,21)(15,37)(16,38)(20,34)(23,34)(23,34)(35,45)(37,46)(40,47)(44,48), (1,2)(3,7)(4,8)(5,9)(6,24)(10,17)(11,18)(12,19)(13,35)(14,21)(15,37)(16,38)(20,34)(23,34)(23,34)(24,35,38)(24,35,34)(24,3$ 

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