

The group  $G$  is isomorphic to the group labelled by [ 50, 4 ] in the Small Groups library.  
 Ordinary character table of  $G \cong (C5 \times C5) : C2$ :

	$1a$	$5a$	$5b$	$2a$	$5c$	$5d$	$5e$	$5f$	$5g$	$5h$	$5i$	$5j$	$5k$	$5l$
$\chi_1$	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_2$	1	1	1	-1	1	1	1	1	1	1	1	1	1	1
$\chi_3$	2	2	2	0	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	$E(5) + E(5)^4$	$E(5) + E(5)^4$	$E(5) + E(5)^4$	$E(5) + E(5)^4$
$\chi_4$	2	2	2	0	$E(5) + E(5)^4$	$E(5) + E(5)^4$	$E(5) + E(5)^4$	$E(5) + E(5)^4$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$
$\chi_5$	2	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	0	2	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	2	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$
$\chi_6$	2	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	0	2	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	2	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$
$\chi_7$	2	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	0	$E(5)^2 + E(5)^3$	2	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	$E(5) + E(5)^4$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	2	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$
$\chi_8$	2	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	0	$E(5) + E(5)^4$	2	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	2	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$
$\chi_9$	2	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	0	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	2	$E(5) + E(5)^4$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	2	$E(5)^2 + E(5)^3$
$\chi_{10}$	2	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	0	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	2	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	2	$E(5) + E(5)^4$
$\chi_{11}$	2	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	0	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	2	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	2
$\chi_{12}$	2	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	0	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	2	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	2
$\chi_{13}$	2	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	0	$E(5) + E(5)^4$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	2	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	2	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	$E(5) + E(5)^4$
$\chi_{14}$	2	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	0	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	2	$E(5) + E(5)^4$	$E(5) + E(5)^4$	2	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$

Trivial source character table of  $G \cong (\text{C5} \times \text{C5}) : \text{C2}$  at  $p = 5$ :

[illegible]

$$\begin{aligned} P_1 &= Group([()]) \cong 1 \\ P_2 &= Group([(1, 2, 3, 4, 5)]) \cong C5 \\ P_3 &= Group([(6, 7, 8, 9, 10)]) \cong C5 \\ P_4 &= Group([(1, 2, 3, 4, 5)(6, 7, 8, 9, 10)]) \cong C5 \\ P_5 &= Group([(1, 2, 3, 4, 5)(6, 8, 10, 7, 9)]) \cong C5 \\ P_6 &= Group([(1, 2, 3, 4, 5)(6, 9, 7, 10, 8)]) \cong C5 \\ P_7 &= Group([(1, 2, 3, 4, 5)(6, 10, 9, 8, 7)]) \cong C5 \\ P_8 &= Group([(1, 2, 3, 4, 5), (6, 7, 8, 9, 10)]) \cong C5 \times C5 \end{aligned}$$

$$\begin{aligned}
N_1 &= \text{Group}([(2, 5)(3, 4)(7, 10)(8, 9), (1, 2, 3, 4, 5), (6, 7, 8, 9, 10)]) \cong (C_5 \times C_5) : C_2 \\
N_2 &= \text{Group}([(2, 5)(3, 4)(7, 10)(8, 9), (1, 2, 3, 4, 5), (6, 7, 8, 9, 10)]) \cong (C_5 \times C_5) : C_2 \\
N_3 &= \text{Group}([(2, 5)(3, 4)(7, 10)(8, 9), (1, 2, 3, 4, 5), (6, 7, 8, 9, 10)]) \cong (C_5 \times C_5) : C_2 \\
N_4 &= \text{Group}([(2, 5)(3, 4)(7, 10)(8, 9), (1, 2, 3, 4, 5), (6, 7, 8, 9, 10)]) \cong (C_5 \times C_5) : C_2 \\
N_5 &= \text{Group}([(2, 5)(3, 4)(7, 10)(8, 9), (1, 2, 3, 4, 5), (6, 7, 8, 9, 10)]) \cong (C_5 \times C_5) : C_2 \\
N_6 &= \text{Group}([(2, 5)(3, 4)(7, 10)(8, 9), (1, 2, 3, 4, 5), (6, 7, 8, 9, 10)]) \cong (C_5 \times C_5) : C_2 \\
N_7 &= \text{Group}([(2, 5)(3, 4)(7, 10)(8, 9), (1, 2, 3, 4, 5), (6, 7, 8, 9, 10)]) \cong (C_5 \times C_5) : C_2 \\
N_8 &= \text{Group}([(2, 5)(3, 4)(7, 10)(8, 9), (1, 2, 3, 4, 5), (6, 7, 8, 9, 10)]) \cong (C_5 \times C_5) : C_2
\end{aligned}$$