

The group G is isomorphic to the group labelled by [50, 3] in the Small Groups library.
Ordinary character table of $G \cong C5 \times D10$:

	1a	2a	5a	5b	10a	5c	5d	5e	10b	5f	5g	5h	10c	5i	5j	5k	10d	5l	5m	5n
χ_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
χ_3	1	-1	$E(5)^4$	1	$-E(5)^4$	$E(5)^3$	$E(5)^4$	1	$-E(5)^3$	$E(5)^2$	$E(5)^3$	$E(5)^4$	$-E(5)^2$	$E(5)$	$E(5)^2$	$E(5)^3$	$-E(5)$	$E(5)$	$E(5)^2$	$E(5)$
χ_4	1	-1	$E(5)^3$	1	$-E(5)^3$	$E(5)$	$E(5)^3$	1	$-E(5)$	$E(5)^4$	$E(5)$	$E(5)^3$	$-E(5)^4$	$E(5)^2$	$E(5)^4$	$E(5)$	$-E(5)^2$	$E(5)^2$	$E(5)^4$	$E(5)^2$
χ_5	1	-1	$E(5)^2$	1	$-E(5)^2$	$E(5)^4$	$E(5)^2$	1	$-E(5)^4$	$E(5)$	$E(5)^4$	$E(5)^2$	$-E(5)^5$	$E(5)^3$	$E(5)$	$E(5)^4$	$-E(5)^3$	$E(5)^3$	$E(5)$	$E(5)^3$
χ_6	1	-1	$E(5)$	1	$-E(5)$	$E(5)^2$	$E(5)$	1	$-E(5)^2$	$E(5)^3$	$E(5)$	$E(5)^2$	$-E(5)^3$	$E(5)^4$	$E(5)^3$	$E(5)^2$	$-E(5)^4$	$E(5)^4$	$E(5)^3$	$E(5)^4$
χ_7	1	1	$E(5)^4$	1	$E(5)^4$	$E(5)^3$	$E(5)^4$	1	$E(5)^3$	$E(5)^2$	$E(5)^3$	$E(5)^4$	$E(5)^2$	$E(5)$	$E(5)^2$	$E(5)^3$	$E(5)$	$E(5)$	$E(5)^2$	$E(5)$
χ_8	1	1	$E(5)^3$	1	$E(5)^3$	$E(5)$	$E(5)^3$	1	$E(5)$	$E(5)^4$	$E(5)$	$E(5)^3$	$E(5)^4$	$E(5)^2$	$E(5)^4$	$E(5)$	$E(5)^2$	$E(5)^2$	$E(5)^4$	$E(5)^2$
χ_9	1	1	$E(5)^2$	1	$E(5)^2$	$E(5)^4$	$E(5)^2$	1	$E(5)^4$	$E(5)$	$E(5)^4$	$E(5)^2$	$E(5)$	$E(5)^3$	$E(5)$	$E(5)^4$	$E(5)^3$	$E(5)^3$	$E(5)$	$E(5)^3$
χ_{10}	1	1	$E(5)$	1	$E(5)$	$E(5)^2$	$E(5)$	1	$E(5)^2$	$E(5)^3$	$E(5)^2$	$E(5)$	$E(5)^3$	$E(5)^4$	$E(5)^3$	$E(5)^2$	$E(5)^4$	$E(5)^3$	$E(5)^3$	$E(5)^4$
χ_{11}	2	0	2	$E(5)^2 + E(5)^3$	0	2	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	0	2	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	0	2	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	0	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	$E(5) + E(5)^4$
χ_{12}	2	0	2	$E(5) + E(5)^4$	0	2	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	0	2	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	0	2	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	0	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$
χ_{13}	2	0	$2 * E(5)^4$	$E(5)^2 + E(5)^3$	0	$2 * E(5)^3$	$E(5) + E(5)^2$	$E(5) + E(5)^4$	0	$2 * E(5)^2$	$-E(5)^2 - E(5)^3 - E(5)^4$	$-E(5) - E(5)^2 - E(5)^4$	0	$2 * E(5)$	$-E(5) - E(5)^2 - E(5)^3$	$E(5)^2 + E(5)^4$	0	$E(5)^3 + E(5)^4$	$E(5) + E(5)^3$	$-E(5) - E(5)^3 - E(5)^4$
χ_{14}	2	0	$2 * E(5)$	$E(5)^2 + E(5)^3$	0	$2 * E(5)^2$	$E(5)^3 + E(5)^4$	$E(5) + E(5)^4$	0	$2 * E(5)^3$	$-E(5) - E(5)^3 - E(5)^3$	$-E(5) - E(5)^3 - E(5)^4$	0	$2 * E(5)^4$	$-E(5)^2 - E(5)^3 - E(5)^4$	$E(5) + E(5)^3$	0	$E(5) + E(5)^2$	$E(5)^2 + E(5)^4$	$-E(5) - E(5)^2 - E(5)^4$
χ_{15}	2	0	$2 * E(5)^3$	$E(5) + E(5)^4$	0	$2 * E(5)$	$E(5)^2 + E(5)^4$	$E(5)^2 + E(5)^3$	0	$2 * E(5)^4$	$-E(5) - E(5)^3 - E(5)^4$	$-E(5)^2 - E(5)^3 - E(5)^4$	0	$2 * E(5)^2$	$-E(5) - E(5)^2 - E(5)^4$	$E(5)^3 + E(5)^4$	0	$E(5) + E(5)^3$	$E(5) + E(5)^2$	$-E(5) - E(5)^2 - E(5)^3$
χ_{16}	2	0	$2 * E(5)^2$	$E(5) + E(5)^4$	0	$2 * E(5)^4$	$E(5) + E(5)^3$	$E(5)^2 + E(5)^3$	0	$2 * E(5)$	$-E(5) - E(5)^2 - E(5)^4$	$-E(5) - E(5)^2 - E(5)^3$	0	$2 * E(5)^3$	$-E(5) - E(5)^3 - E(5)^4$	$E(5) + E(5)^2$	0	$E(5)^2 + E(5)^4$	$E(5)^3 + E(5)^4$	$-E(5)^2 - E(5)^3 - E(5)^4$
χ_{17}	2	0	$2 * E(5)^3$	$E(5)^2 + E(5)^3$	0	$2 * E(5)$	$-E(5)^2 - E(5)^3 - E(5)^4$	$E(5) + E(5)^4$	0	$2 * E(5)^4$	$E(5)^3 + E(5)^4$	$E(5)^2 + E(5)^4$	0	$2 * E(5)^2$	$E(5) + E(5)^2$	$-E(5) - E(5)^3 - E(5)^4$	0	$-E(5) - E(5)^2 - E(5)^3$	$-E(5) - E(5)^2 - E(5)^4$	$E(5) + E(5)^3$
χ_{18}	2	0	$2 * E(5)^2$	$E(5)^2 + E(5)^3$	0	$2 * E(5)^4$	$-E(5) - E(5)^2 - E(5)^3$	$E(5) + E(5)^4$	0	$2 * E(5)$	$E(5) + E(5)^2$	$E(5) + E(5)^3$	0	$2 * E(5)^3$	$E(5)^3 + E(5)^4$	$-E(5) - E(5)^2 - E(5)^4$	0	$-E(5)^2 - E(5)^3 - E(5)^4$	$-E(5) - E(5)^3 - E(5)^4$	$E(5)^2 + E(5)^4$
χ_{19}	2	0	$2 * E(5)^4$	$E(5) + E(5)^4$	0	$2 * E(5)^3$	$-E(5) - E(5)^2 - E(5)^4$	$E(5)^2 + E(5)^3$	0	$2 * E(5)^2$	$E(5)^2 + E(5)^4$	$E(5) + E(5)^2$	0	$2 * E(5)$	$E(5) + E(5)^3$	$-E(5)^2 - E(5)^3 - E(5)^4$	0	$-E(5) - E(5)^3 - E(5)^4$	$-E(5) - E(5)^2 - E(5)^3$	$E(5)^3 + E(5)^4$
χ_{20}	2	0	$2 * E(5)$	$E(5) + E(5)^4$	0	$2 * E(5)^2$	$-E(5) - E(5)^3 - E(5)^4$	$E(5)^2 + E(5)^3$	0	$2 * E(5)^3$	$E(5) + E(5)^3$	$E(5)^3 + E(5)^4$	0	$2 * E(5)^4$	$E(5)^2 + E(5)^4$	$-E(5) - E(5)^2 - E(5)^3$	0	$-E(5) - E(5)^2 - E(5)^4$	$-E(5)^2 - E(5)^3 - E(5)^4$	$E(5) + E(5)^2$

Trivial source character table of $G \cong C5 \times D10$ at $p = 5$:

Normalisers N_i	N_1		N_2		N_3		N_4	N_5	N_6
p -subgroups of G up to conjugacy in G	P_1		P_2		P_3		P_4	P_5	P_6
Representatives $n_i \in N_i$	1a	2a	1a	2a	1a	2a	1a	1a	2a
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 1 \cdot \chi_{17} + 1 \cdot \chi_{18} + 1 \cdot \chi_{19} + 1 \cdot \chi_{20}$	25	-5	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 1 \cdot \chi_{17} + 1 \cdot \chi_{18} + 1 \cdot \chi_{19} + 1 \cdot \chi_{20}$	25	5	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	5	-1	5	-1	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	5	1	5	1	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	5	5	0	0	5	5	0	0	0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	5	-5	0	0	5	-5	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	10	0	0	0	0	0	5	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 1 \cdot \chi_{18} + 1 \cdot \chi_{19} + 1 \cdot \chi_{20}$	10	0	0	0	0	0	0	5	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	1	1	1	1	1	1	1	1	1
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20}$	1	-1	1	-1	1	-1	1	1	-1

$P_1 = Group([()]) \cong 1$

$P_2 = Group([(1, 3, 7, 13, 21)(2, 5, 10, 17, 26)(4, 8, 14, 22, 31)(6, 11, 18, 27, 35)(9, 15, 23, 32, 39)(12, 19, 28, 36, 42)(16, 24, 33, 40, 45)(20, 29, 37, 43, 47)(25, 34, 41, 46, 49)(30, 38, 44, 48, 50)]) \cong C5$

$P_3 = Group([(1, 16, 4, 25, 9)(2, 20, 6, 30, 12)(3, 24, 8, 34, 15)(5, 29, 11, 38, 19)(7, 33, 14, 41, 23)(10, 37, 18, 44, 28)(13, 40, 22, 46, 32)(17, 43, 27, 48, 36)(21, 45, 31, 49, 39)(26, 47, 35, 50, 42)]) \cong C5$

$P_4 = Group([(1, 24, 14, 46, 39)(2, 29, 18, 48, 42)(3, 33, 22, 49, 9)(4, 34, 23, 13, 45)(5, 37, 27, 50, 12)(6, 38, 28, 17, 47)(7, 40, 31, 25, 15)(8, 41, 32, 21, 16)(10, 43, 35, 30, 19)(11, 44, 36, 26, 20)]) \cong C5$

$P_5 = Group([(1, 8, 23, 40, 49)(2, 11, 28, 43, 50)(3, 14, 32, 45, 25)(4, 15, 33, 46, 21)(5, 18, 36, 47, 30)(6, 19, 37, 48, 26)(7, 22, 39, 16, 34)(9, 24, 41, 13, 31)(10, 27, 42, 20, 38)(12, 29, 44, 17, 35)]) \cong C5$

$P_6 = Group([(1, 3, 7, 13, 21)(2, 5, 10, 17, 26)(4, 8, 14, 22, 31)(6, 11, 18, 27, 35)(9, 15, 23, 32, 39)(12, 19, 28, 36, 42)(16, 24, 33, 40, 45)(20, 29, 37, 43, 47)(25, 34, 41, 46, 49)(30, 38, 44, 48, 50), (1, 16, 4, 25, 9)(2, 20, 6, 30, 12)(3, 24, 8, 34, 15)(5, 29, 11, 38, 19)(7, 33, 14, 41, 23)(10, 37, 18, 44, 28)(13, 40, 22, 46, 32)(17, 43, 27, 48, 36)(21, 45, 31, 49, 39)(26, 47, 35, 50, 42)]) \cong C5 \times C5$

$N_1 = Group([(1, 2, 3, 5)(4, 30)(6, 25)(7, 10)(8, 38)(9, 20)(11, 34)(12, 16)(13, 17)(14, 44)(15, 29)(18, 41)(19, 24)(21, 26)(22, 48)(23, 37)(27, 46)(28, 33)(31, 50)(32, 43)(35, 49)(36, 40)(39, 47)(42, 45), (1, 3, 7, 13, 21)(2, 5, 10, 17, 26)(4, 8, 14, 22, 31)(6, 11, 18, 27, 35)(9, 15, 23, 32, 39)(12, 19, 28, 36, 42)(16, 24, 33, 40, 45)(20, 29, 37, 43, 47)(25, 34, 41, 46, 49)(30, 38, 44, 48, 50), (1, 4, 9, 16, 25)(2, 6, 12, 20, 30)(3, 8, 15, 24, 34)(5, 11, 19, 29, 38)(7, 14, 23, 33, 41)(10, 18, 28, 37, 44)(13, 22, 32, 40, 46)(17, 27, 36, 43, 48)(21, 31, 39, 45, 49)(26, 35, 42, 47, 50)]) \cong C5 \times D10$

$N_2 = Group([(1, 3, 7, 13, 21)(2, 5, 10, 17, 26)(4, 8, 14, 22, 31)(6, 11, 18, 27, 35)(9, 15, 23, 32, 39)(12, 19, 28, 36, 42)(16, 24, 33, 40, 45)(20, 29, 37, 43, 47)(25, 34, 41, 46, 49)(30, 38, 44, 48, 50), (1, 2)(3, 5)(4, 30)(6, 25)(7, 10)(8, 38)(9, 20)(11, 34)(12, 16)(13, 17)(14, 44)(15, 29)(18, 41)(19, 24)(21, 26)(22, 48)(23, 37)(27, 46)(28, 33)(31, 50)(32, 43)(35, 49)(36, 40)(39, 47)(42, 45), (1, 4, 9, 16, 25)(2, 6, 12, 20, 30)(3, 8, 15, 24, 34)(5, 11, 19, 29, 38)(7, 14, 23, 33, 41)(10, 18, 28, 37, 44)(13, 22, 32, 40, 46)(17, 27, 36, 43, 48)(21, 31, 39, 45, 49)(26, 35, 42, 47, 50)]) \cong C5 \times D10$

$N_3 = Group([(1, 16, 4, 25, 9)(2, 20, 6, 30, 12)(3, 24, 8, 34, 15)(5, 29, 11, 38, 19)(7, 33, 14, 41, 23)(10, 37, 18, 44, 28)(13, 40, 22, 46, 32)(17, 43, 27, 48, 36)(21, 45, 31, 49, 39)(26, 47, 35, 50, 42), (1, 2)(3, 5)(4, 30)(6, 25)(7, 10)(8, 38)(9, 20)(11, 34)(12, 16)(13, 17)(14, 44)(15, 29)(18, 41)(19, 24)(21, 26)(22, 48)(23, 37)(27, 46)(28, 33)(31, 50)(32, 43)(35, 49)(36, 40)(39, 47)(42, 45), (1, 3, 7, 13, 21)(2, 5, 10, 17, 26)(4, 8, 14, 22, 31)(6, 11, 18, 27, 35)(9, 15, 23, 32, 39)(12, 19, 28, 36, 42)(16, 24, 33, 40, 45)(20, 29, 37, 43, 47)(25, 34, 41, 46, 49)(30, 38, 44, 48, 50)]) \cong C5 \times D10$

$N_4 = Group([(1, 24, 14, 46, 39)(2, 29, 18, 48, 42)(3, 33, 22, 49, 9)(4, 34, 23, 13, 45)(5, 37, 27, 50, 12)(6, 38, 28, 17, 47)(7, 40, 31, 25, 15)(8, 41, 32, 21, 16)(10, 43, 35, 30, 19)(11, 44, 36, 26, 20), (1, 3, 7, 13, 21)(2, 5, 10, 17, 26)(4, 8, 14, 22, 31)(6, 11, 18, 27, 35)(9, 15, 23, 32, 39)(12, 19, 28, 36, 42)(16, 24, 33, 40, 45)(20, 29, 37, 43, 47)(25, 34, 41, 46, 49)(30, 38, 44, 48, 50)]) \cong C5 \times C5$

$N_5 = Group([(1, 8, 2$