

The group  $G$  is isomorphic to the group labelled by [ 36, 4 ] in the Small Groups library.  
 Ordinary character table of  $G \cong \text{D36}$ :

	1a	2a	2b	9a	3a	2c	18a	6a	9b	18b	9c	18c
$\chi_1$	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
$\chi_3$	1	-1	1	1	1	-1	1	1	1	1	1	1
$\chi_4$	1	1	-1	1	1	-1	-1	-1	1	-1	1	-1
$\chi_5$	2	0	2	-1	2	0	-1	2	-1	-1	-1	-1
$\chi_6$	2	0	-2	-1	2	0	1	-2	-1	1	-1	1
$\chi_7$	2	0	2	$E(9)^2 + E(9)^7$	-1	0	$E(9)^2 + E(9)^7$	-1	$E(9)^4 + E(9)^5$	$E(9)^4 + E(9)^5$	$-E(9)^2 - E(9)^4 - E(9)^5 - E(9)^7$	$-E(9)^2 - E(9)^4 - E(9)^5 - E(9)^7$
$\chi_8$	2	0	2	$E(9)^4 + E(9)^5$	-1	0	$E(9)^4 + E(9)^5$	-1	$-E(9)^2 - E(9)^4 - E(9)^5 - E(9)^7$	$-E(9)^2 - E(9)^4 - E(9)^5 - E(9)^7$	$E(9)^2 + E(9)^7$	$E(9)^2 + E(9)^7$
$\chi_9$	2	0	2	$-E(9)^2 - E(9)^4 - E(9)^5 - E(9)^7$	-1	0	$-E(9)^2 - E(9)^4 - E(9)^5 - E(9)^7$	-1	$E(9)^2 + E(9)^7$	$E(9)^2 + E(9)^7$	$E(9)^4 + E(9)^5$	$E(9)^4 + E(9)^5$
$\chi_{10}$	2	0	-2	$E(9)^2 + E(9)^7$	-1	0	$-E(9)^2 - E(9)^7$	1	$E(9)^4 + E(9)^5$	$-E(9)^4 - E(9)^5$	$-E(9)^2 - E(9)^4 - E(9)^5 - E(9)^7$	$E(9)^2 + E(9)^4 + E(9)^5 + E(9)^7$
$\chi_{11}$	2	0	-2	$E(9)^4 + E(9)^5$	-1	0	$-E(9)^4 - E(9)^5$	1	$-E(9)^2 - E(9)^4 - E(9)^5 - E(9)^7$	$E(9)^2 + E(9)^4 + E(9)^5 + E(9)^7$	$E(9)^2 + E(9)^7$	$-E(9)^2 - E(9)^7$
$\chi_{12}$	2	0	-2	$-E(9)^2 - E(9)^4 - E(9)^5 - E(9)^7$	-1	0	$E(9)^2 + E(9)^4 + E(9)^5 + E(9)^7$	1	$E(9)^2 + E(9)^7$	$-E(9)^2 - E(9)^7$	$E(9)^4 + E(9)^5$	$-E(9)^4 - E(9)^5$

Trivial source character table of  $G \cong \text{D36}$  at  $p = 3$ :

Normalisers $N_i$	$N_1$				$N_2$				$N_3$			
$p$ -subgroups of $G$ up to conjugacy in $G$	$P_1$				$P_2$				$P_3$			
Representatives $n_j \in N_i$	1a	2a	2b	2c	1a	2b	2a	2c	1a	2b	2a	2c
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	9	1	9	1	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12}$	9	-1	-9	1	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	9	-1	9	-1	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12}$	9	1	-9	-1	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	3	1	3	1	3	3	1	1	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	3	-1	3	-1	3	3	-1	-1	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	3	1	-3	-1	3	-3	1	-1	0	0	0	0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	3	-1	-3	1	3	-3	-1	1	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	1	1	1	1	1	1	1	1	1	1	1	1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	1	1	-1	-1	1	-1	1	-1	1	-1	1	-1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	1	-1	1	-1	1	1	-1	-1	1	1	-1	-1
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1

$$P_1 = \text{Group}([\langle \rangle]) \cong 1$$

$$P_2 = \text{Group}([(1, 5, 13)(2, 8, 18)(3, 10, 21)(4, 12, 23)(6, 15, 26)(7, 17, 28)(9, 20, 30)(11, 22, 31)(14, 25, 33)(16, 27, 34)(19, 29, 35)(24, 32, 36)]) \cong \text{C3}$$

$$P_3 = \text{Group}([(1, 5, 13)(2, 8, 18)(3, 10, 21)(4, 12, 23)(6, 15, 26)(7, 17, 28)(9, 20, 30)(11, 22, 31)(14, 25, 33)(16, 27, 34)(19, 29, 35)(24, 32, 36)], (1, 31, 4, 5, 11, 12, 13, 22, 23)(2, 34, 7, 8, 16, 17, 18, 27, 28)(3, 35, 9, 10, 19, 20, 21, 29, 30)(6, 36, 14, 15, 24, 25, 26, 32, 33)]) \cong \text{C9}$$

$$N_1 = \text{Group}([(1, 2)(3, 6)(4, 27)(5, 18)(7, 22)(8, 13)(9, 32)(10, 26)(11, 17)(12, 16)(14, 29)(15, 21)(19, 25)(20, 24)(23, 34)(28, 31)(30, 36)(33, 35), (1, 3)(2, 6)(4, 9)(5, 10)(7, 14)(8, 15)(11, 19)(12, 20)(13, 21)(16, 24)(17, 25)(18, 26)(22, 29)(23, 30)(27, 32)(28, 33)(31, 35)(34, 36), (1, 4, 11, 13, 23, 31, 5, 12, 22)(2, 7, 16, 18, 28, 34, 8, 17, 27)(3, 9, 19, 21, 30, 35, 10, 20, 29)(6, 14, 24, 26, 33, 36, 15, 25, 32), (1, 5, 13)(2, 8, 18)(3, 10, 21)(4, 12, 23)(6, 15, 26)(7, 17, 28)(9, 20, 30)(11, 22, 31)(14, 25, 33)(16, 27, 34)(19, 29, 35)(24, 32, 36)]) \cong \text{D36}$$

$$N_2 = \text{Group}([(1, 5, 13)(2, 8, 18)(3, 10, 21)(4, 12, 23)(6, 15, 26)(7, 17, 28)(9, 20, 30)(11, 22, 31)(14, 25, 33)(16, 27, 34)(19, 29, 35)(24, 32, 36), (1, 2)(3, 6)(4, 27)(5, 18)(7, 22)(8, 13)(9, 32)(10, 26)(11, 17)(12, 16)(14, 29)(15, 21)(19, 25)(20, 24)(23, 34)(28, 31)(30, 36)(33, 35), (1, 3)(2, 6)(4, 9)(5, 10)(7, 14)(8, 15)(11, 19)(12, 20)(13, 21)(16, 24)(17, 25)(18, 26)(22, 29)(23, 30)(27, 32)(28, 33)(31, 35)(34, 36), (1, 4, 11, 13, 23, 31, 5, 12, 22)(2, 7, 16, 18, 28, 34, 8, 17, 27)(3, 9, 19, 21, 30, 35, 10, 20, 29)(6, 14, 24, 26, 33, 36, 15, 25, 32)]) \cong \text{D36}$$

$$N_3 = \text{Group}([(1, 31, 4, 5, 11, 12, 13, 22, 23)(2, 34, 7, 8, 16, 17, 18, 27, 28)(3, 35, 9, 10, 19, 20, 21, 29, 30)(6, 36, 14, 15, 24, 25, 26, 32, 33), (1, 5, 13)(2, 8, 18)(3, 10, 21)(4, 12, 23)(6, 15, 26)(7, 17, 28)(9, 20, 30)(11, 22, 31)(14, 25, 33)(16, 27, 34)(19, 29, 35)(24, 32, 36), (1, 2)(3, 6)(4, 27)(5, 18)(7, 22)(8, 13)(9, 32)(10, 26)(11, 17)(12, 16)(14, 29)(15, 21)(19, 25)(20, 24)(23, 34)(28, 31)(30, 36)(33, 35), (1, 3)(2, 6)(4, 9)(5, 10)(7, 14)(8, 15)(11, 19)(12, 20)(13, 21)(16, 24)(17, 25)(18, 26)(22, 29)(23, 30)(27, 32)(28, 33)(31, 35)(34, 36)]) \cong \text{D36}$$