

The group G is isomorphic to the group labelled by [18, 1] in the Small Groups library.

Ordinary character table of $G \cong \text{D18}$:

	$1a$	$9a$	$2a$	$9b$	$9c$	$3a$
χ_1	1	1	1	1	1	1
χ_2	1	1	-1	1	1	1
χ_3	2	-1	0	-1	-1	2
χ_4	2	$E(9)^2 + E(9)^7$	0	$E(9)^4 + E(9)^5$	$-E(9)^2 - E(9)^4 - E(9)^5 - E(9)^7$	-1
χ_5	2	$-E(9)^2 - E(9)^4 - E(9)^5 - E(9)^7$	0	$E(9)^2 + E(9)^7$	$E(9)^4 + E(9)^5$	-1
χ_6	2	$E(9)^4 + E(9)^5$	0	$-E(9)^2 - E(9)^4 - E(9)^5 - E(9)^7$	$E(9)^2 + E(9)^7$	-1

Trivial source character table of $G \cong \text{D18}$ 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 $n_j \in N_i$	$1a$	$2a$	$1a$	$2a$	$1a$	$2a$
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6$	9	1	0	0	0	0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6$	9	-1	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6$	3	1	3	1	0	0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6$	3	-1	3	-1	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	1	1	1	1	1
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6$	1	-1	1	-1	1	-1

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

$$P_2 = \text{Group}([(1, 9, 4)(2, 12, 6)(3, 14, 8)(5, 16, 11)(7, 17, 13)(10, 18, 15)]) \cong \text{C3}$$

$$P_3 = \text{Group}([(1, 13, 3, 9, 7, 14, 4, 17, 8)(2, 15, 5, 12, 10, 16, 6, 18, 11), (1, 9, 4)(2, 12, 6)(3, 14, 8)(5, 16, 11)(7, 17, 13)(10, 18, 15)]) \cong \text{C9}$$

$$N_1 = \text{Group}([(1, 2)(3, 18)(4, 12)(5, 17)(6, 9)(7, 16)(8, 15)(10, 14)(11, 13), (1, 3, 7, 4, 8, 13, 9, 14, 17)(2, 5, 10, 6, 11, 15, 12, 16, 18), (1, 4, 9)(2, 6, 12)(3, 8, 14)(5, 11, 16)(7, 13, 17)(10, 15, 18)]) \cong \text{D18}$$

$$N_2 = \text{Group}([(1, 9, 4)(2, 12, 6)(3, 14, 8)(5, 16, 11)(7, 17, 13)(10, 18, 15), (1, 2)(3, 18)(4, 12)(5, 17)(6, 9)(7, 16)(8, 15)(10, 14)(11, 13), (1, 3, 7, 4, 8, 13, 9, 14, 17)(2, 5, 10, 6, 11, 15, 12, 16, 18)]) \cong \text{D18}$$

$$N_3 = \text{Group}([(1, 13, 3, 9, 7, 14, 4, 17, 8)(2, 15, 5, 12, 10, 16, 6, 18, 11), (1, 9, 4)(2, 12, 6)(3, 14, 8)(5, 16, 11)(7, 17, 13)(10, 18, 15), (1, 2)(3, 18)(4, 12)(5, 17)(6, 9)(7, 16)(8, 15)(10, 14)(11, 13)]) \cong \text{D18}$$