

The group G is character labelled by [48, 28] in the Small Groups Library.
 Ordinary character table of $G \cong C2 \cdot S4 = \text{SL}(2,3) \cdot C2$:

	$1a$	$2a$	$4a$	$3a$	$6a$	$4b$	$8a$	$8b$
χ_1	1	1	1	1	1	1	1	1
χ_2	1	1	1	1	1	-1	-1	-1
χ_3	2	2	2	-1	-1	0	0	0
χ_4	3	3	-1	0	0	-1	1	1
χ_5	3	3	-1	0	0	1	-1	-1
χ_6	2	-2	0	-1	1	0	$E(8) - E(8)^3$	$-E(8) + E(8)^3$
χ_7	2	-2	0	-1	1	0	$-E(8) + E(8)^3$	$E(8) - E(8)^3$
χ_8	4	-4	0	1	-1	0	0	0

Trivial source character table of $G \cong C2 \cdot S4 = \text{SL}(2,3) \cdot C2$ at $p = 2$:

Normalisers N_i	N_1	N_2	N_3	N_4	N_5	N_6	N_7	N_8
p -subgroups of G up to conjugacy in G	P_1	P_2	P_3	P_4	P_5	P_6	P_7	P_8
Representatives $n_i \in N_i$	$1a$	$3a$	$1a$	$3a$	$1a$	$1a$	$1a$	$3a$
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 2 \cdot \chi_8$	16	4	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8$	16	-2	0	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8$	8	2	8	2	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8$	8	-1	8	-1	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 2 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8$	12	0	12	0	4	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8$	4	1	4	1	0	2	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8$	6	0	6	0	2	2	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8$	2	2	2	2	2	0	2	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8$	2	-1	2	-1	2	0	2	-1
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8$	6	0	6	0	2	0	0	2
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8$	1	1	1	1	1	1	1	1

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

$P_2 = \text{Group}([(1,6)(2,10)(3,14)(4,16)(5,17)(7,21)(8,23)(9,24)(11,27)(12,29)(13,30)(15,31)(18,34)(19,36)(20,37)(22,38)(25,40)(26,41)(28,42)(32,44)(33,45)(35,46)(39,47)(43,48)]) \cong C2$

$P_3 = \text{Group}([(1,6)(2,10)(3,14)(4,16)(5,17)(7,21)(8,23)(9,24)(11,27)(12,29)(13,30)(15,31)(18,34)(19,36)(20,37)(22,38)(25,40)(26,41)(28,42)(32,44)(33,45)(35,46)(39,47)(43,48), (1,31,6,15)(2,38,10,22)(3,42,14,28)(4,5,16,17)(7,46,21,35)(8,9,23,24)(11,47,27,39)(12,13,29,30)(18,48,34,43)(19,20,36,37)(25,26,40,41)(32,33,44,45)]) \cong C4$

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

$P_5 = \text{Group}([(1,6)(2,10)(3,14)(4,16)(5,17)(7,21)(8,23)(9,24)(11,27)(12,29)(13,30)(15,31)(18,34)(19,36)(20,37)(22,38)(25,40)(26,41)(28,42)(32,44)(33,45)(35,46)(39,47)(43,48), (1,31,6,15)(2,38,10,22)(3,42,14,28)(4,5,16,17)(7,46,21,35)(8,9,23,24)(11,47,27,39)(12,13,29,30)(18,48,34,43)(19,20,36,37)(25,26,40,41)(32,33,44,45), (1,2,6,10)(3,18,14,34)(4,9,16,24)(5,8,17,23)(7,27,21,11)(12,33,29,45)(13,32,30,44)(15,38,31,22)(19,41,36,26)(20,40,37,25)(28,48,42,43)(35,39,46,47)]) \cong Q8$

$P_6 = \text{Group}([(1,6)(2,10)(3,14)(4,16)(5,17)(7,21)(8,23)(9,24)(11,27)(12,29)(13,30)(15,31)(18,34)(19,36)(20,37)(22,38)(25,40)(26,41)(28,42)(32,44)(33,45)(35,46)(39,47)(43,48), (1,31,6,15)(2,38,10,22)(3,42,14,28)(4,5,16,17)(7,46,21,35)(8,9,23,24)(11,47,27,39)(12,13,29,30)(18,48,34,43)(19,20,36,37)(25,26,40,41)(32,33,44,45), (1,4,6,16)(2,8,10,23)(3,12,14,29)(5,31,17,15)(7,19,21,36)(9,38,24,22)(11,25,27,40)(13,42,30,28)(18,32,34,44)(20,46,37,35)(26,47,41,39)(33,48,45,43)]) \cong Q8$

$P_7 = \text{Group}([(1,6)(2,10)(3,14)(4,16)(5,17)(7,21)(8,23)(9,24)(11,27)(12,29)(13,30)(15,31)(18,34)(19,36)(20,37)(22,38)(25,40)(26,41)(28,42)(32,44)(33,45)(35,46)(39,47)(43,48), (1,31,6,15)(2,38,10,22)(3,42,14,28)(4,5,16,17)(7,46,21,35)(8,9,23,24)(11,47,27,39)(12,13,29,30)(18,48,34,43)(19,20,36,37)(25,26,40,41)(32,33,44,45), (1,8,15,24,6,23,31,9)(2,16,22,5,10,4,38,17)(3,32,28,45,14,44,42,33)(7,40,35,26,21,25,46,41)(11,19,39,37,27,36,47,20)(12,48,30,18,29,43,13,34)]) \cong C8$

$P_8 = \text{Group}([(1,6)(2,10)(3,14)(4,16)(5,17)(7,21)(8,23)(9,24)(11,27)(12,29)(13,30)(15,31)(18,34)(19,36)(20,37)(22,38)(25,40)(26,41)(28,42)(32,44)(33,45)(35,46)(39,47)(43,48), (1,31,6,15)(2,38,10,22)(3,42,14,28)(4,5,16,17)(7,46,21,35)(8,9,23,24)(11,47,27,39)(12,13,29,30)(18,48,34,43)(19,20,36,37)(25,26,40,41)(32,33,44,45), (1,2,6,10)(3,18,14,34)(4,9,16,24)(5,8,17,23)(7,27,21,11)(12,33,29,45)(13,32,30,44)(15,38,31,22)(19,41,36,26)(20,40,37,25)(28,48,42,43)(35,39,46,47), (1,4,6,16)(2,8,10,23)(3,12,14,29)(5,31,17,15)(7,19,21,36)(9,38,24,22)(11,25,27,40)(13,42,30,28)(18,32,34,44)(20,46,37,35)(26,47,41,39)(33,48,45,43)]) \cong Q16$

$N_1 = \text{Group}([(1,2,6,10)(3,18,14,34)(4,9,16,24)(5,8,17,23)(7,27,21,11)(12,33,29,45)(13,32,30,44)(15,38,31,22)(19,41,36,26)(20,40,37,25)(28,48,42,43)(35,39,46,47), (1,3,11)(2,7,18)(4,30,47)(5,28,40)(6,14,27)(8,37,48)(9,35,44)(10,21,34)(12,41,31)(13,39,16)(15,29,26)(17,42,25)(19,45,38)(20,43,23)(22,36,33)(24,46,32), (1,4,6,16)(2,8,10,23)(3,12,14,29)(5,31,17,15)(7,19,21,36)(9,38,24,22)(11,25,27,40)(13,42,30,28)(18,32,34,44)(20,46,37,35)(26,47,41,39)(33,48,45,43), (1,5,6,17)(2,9,10,24)(3,13,14,30)(4,15,16,31)(7,20,21,37)(8,22,23,38)(11,26,27,41)(12,28,29,42)(18,33,34,45)(19,35,36,46)(25,39,40,47)(32,43,44,48), (1,6)(2,10)(3,14)(4,16)(5,17)(7,21)(8,23)(9,24)(11,27)(12,29)(13,30)(15,31)(18,34)(19,36)(20,37)(22,38)(25,40)(26,41)(28,42)(32,44)(33,45)(35,46)(39,47)(43,48)]) \cong C2 \cdot S4 = \text{SL}(2,3) \cdot C2$

$N_2 = \text{Group}([(1,2,6,10)(3,18,14,34)(4,9,16,24)(5,8,17,23)(7,27,21,11)(12,33,29,45)(13,32,30,44)(15,38,31,22)(19,41,36,26)(20,40,37,25)(28,48,42,43)(35,39,46,47), (1,3,11)(2,7,18)(4,30,47)(5,28,40)(6,14,27)(8,37,48)(9,35,44)(10,21,34)(12,41,31)(13,39,16)(15,29,26)(17,42,25)(19,45,38)(20,43,23)(22,36,33)(24,46,32), (1,4,6,16)(2,8,10,23)(3,12,14,29)(5,31,17,15)(7,19,21,36)(9,38,24,22)(11,25,27,40)(13,42,30,28)(18,32,34,44)(20,46,37,35)(26,47,41,39)(33,48,45,43), (1,5,6,17)(2,9,10,24)(3,13,14,30)(4,15,16,31)(7,20,21,37)(8,22,23,38)(11,26,27,41)(12,28,29,42)(18,33,34,45)(19,35,36,46)(25,39,40,47)(32,43,44,48), (1,6)(2,10)(3,14)(4,16)(5,17)(7,21)(8,23)(9,24)(11,27)(12,29)(13,30)(15,31)(18,34)(19,36)(20,37)(22,38)(25,40)(26,41)(28,42)(32,44)(33,45)(35,46)(39,47)(43,48)]) \cong C2 \cdot S4 = \text{SL}(2,3) \cdot C2$

$N_3 = \text{Group}([(1,31,6,15)(2,38,10,22)(3,42,14,28)(4,5,16,17)(7,46,21,35)(8,9,23,24)(11,47,27,39)(12,13,29,30)(18,48,34,43)(19,20,36,37)(25,26,40,41)(32,33,44,45), (1,6)(2,10)(3,14)(4,16)(5,17)(7,21)(8,23)(9,24)(11,27)(12,29)(13,30)(15,31)(18,34)(19,36)(20,37)(22,38)(25,40)(26,41)(28,42)(32,44)(33,45)(35,46)(39,47)(43,48), (1,2,6,10)(3,18,14,34)(4,9,16,24)(5,8,17,23)(7,27,21,11)(12,33,29,45)(13,32,30,44)(15,38,31,22)(19,41,36,26)(20,40,37,25)(28,48,42,43)(35,39,46,47), (1,4,6,16)(2,8,10,23)(3,12,14,29)(5,31,17,15)(7,19,21,36)(9,38,24,22)(11,25,27,40)(13,42,30,28)(18,32,34,44)(20,46,37,35)(26,47,41,39)(33,48,45,43)]) \cong Q16$

$N_4 = \text{Group}([(1,2,6,10)(3,18,14,34)(4,9,16,24)(5,8,17,23)(7,27,21,11)(12,33,29,45)(13,32,30,44)(15,38,31,22)(19,41,36,26)(20,40,37,25)(28,48,42,43)(35,39,46,47), (1,6)(2,10)(3,14)(4,16)(5,17)(7,21)(8,23)(9,24)(11,27)(12,29)(13,30)(15,31)(18,34)(19,36)(20,37)(22,38)(25,40)(26,41)(28,42)(32,44)(33,45)(35,46)(39,47)(43,48), (1,15,6,31)(2,22,10,38)(3,28,14,42)(4,17,16,5)(7,35,21,46)(8,24,23,9)(11,39,27,47)(12,30,29,13)(18,43,34,48)(19,37,36,20)(25,41,40,26)(32,45,44,33)]) \cong Q8$

$N_5 = \text{Group}([(1,2,6,10)(3,18,14,34)(4,9,16,24)(5,8,17,23)(7,27,21,11)(12,33,29,45)(13,32,30,44)(15,38,31,22)(19,41,36,26)(20,40,37,25)(28,48,42,43)(35,39,46,47), (1,31,6,15)(2,38,10,22)(3,42,14,28)(4,5,16,17)(7,46,21,35)(8,9,23,24)(11,47,27,39)(12,13,29,30)(18,48,34,43)(19,20,36,37)(25,26,40,41)(32,33,44,45), (1,6)(2,10)(3,14)(4,16)(5,17)(7,21)(8,23)(9,24)(11,27)(12,29)(13,30)(15,31)(18,34)(19,36)(20,37)(22,38)(25,40)(26,41)(28,42)(32,44)(33,45)(35,46)(39,47)(43,48), (1,4,6,16)(2,8,10,23)(3,12,14,29)(5,31,17,15)(7,19,21,36)(9,38,24,22)(11,25,27,40)(13,42,30,28)(18,32,34,44)(20,46,37,35)(26,47,41,39)(33,48,45,43)]) \cong Q16$

$N_6 = \text{Group}([(1,4,6,16)(2,8,10,23)(3,12,14,29)(5,31,17,15)(7,19,21,36)(9,38,24,22)(11,25,27,40)(13,42,30,28)(18,32,34,44)(20,46,37,35)(26,47,41,39)(33,48,45,43), (1,31,6,15)(2,38,10,22)(3,42,14,28)(4,5,16,17)(7,46,21,35)(8,9,23,24)(11,47,27,39)(12,13,29,30)(18,48,34,43)(19,20,36,37)(25,26,40,41)(32,33,44,45), (1,6)(2,10)(3,14)(4,16)(5,17)(7,21)(8,23)(9,24)(11,27)(12,29)(13,30)(15,31)(18,34)(19,36)(20,37)(22,38)(25,40)(26,41)(28,42)(32,44)(33,45)(35,46)(39,47)(43,48), (1,2,6,10)(3,18,14,34)(4,9,16,24)(5,8,17,23)(7,27,21,11)(12,33,29,45)(13,32,30,44)(15,38,31,22)(19,41,36,26)(20,40,37,25)(28,48,42,43)(35,39,46,47), (1,3,11)(2,7,18)(4,30,47)(5,28,40)(6,14,27)(8,37,48)(9,35,44)(10,21,34)(12,41,31)(13,39,16)(15,29,26)(17,42,25)(19,45,38)(20,43,23)(22,36,33)(24,46,32)]) \cong C2 \cdot S4 = \text{SL}(2,3) \cdot C2$

$N_7 = \text{Group}([(1,8,15,24,6,23,31,9)(2,16,22,5,10,4,38,17)(3,32,28,45,14,44,42,33)(7,40,35,26,21,25,46,41)(11,19,39,37,27,36,47,20)(12,48,30,18,29,43,13,34), (1,31,6,15)(2,38,10,22)(3,42,14,28)(4,5,16,17)(7,46,21,35)(8,9,23,24)(11,47,27,39)(12,13,29,30)(18,48,34,43)(19,20,36,37)(25,26,40,41)(32,33,44,45), (1,6)(2,10)(3,14)(4,16)(5,17)(7,21)(8,23)(9,24)(11,27)(12,29)(13,30)(15,31)(18,34)(19,36)(20,37)(22,38)(25,40)(26,41)(28,42)(32,44)(33,45)(35,46)(39,47)(43,48), (1,2,6,10)(3,18,14,34)(4,9,16,24)(5,8,17,23)(7,27,21,11)(12,33,29,45)(13,32,30,44)(15,38,31,22)(19,41,36,26)(20,40,37,25)(28,48,42,43)(35,39,46,47)]) \cong Q16$

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