

The group G is isomorphic to the projective special linear group $\text{PSU}(3,3)$.
Ordinary character table of $G \cong \text{PSU}(3,3)$:

	1a	2a	3a	3b	4a	4b	4c	6a	7a	7b	8a	8b	12a	12b
χ_1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
χ_2	6	−2	−3	0	−2	−2	2	1	−1	−1	0	0	1	1
χ_3	7	−1	−2	1	3	3	−1	2	0	0	−1	−1	0	0
χ_4	7	3	−2	1	$−1+2\ast E(4)$	$−1−2\ast E(4)$	1	0	0	0	$E(4)$	$−E(4)$	$−1+E(4)$	$−1−E(4)$
χ_5	7	3	−2	1	$−1−2\ast E(4)$	$−1+2\ast E(4)$	1	0	0	0	$−E(4)$	$E(4)$	$−1−E(4)$	$−1+E(4)$
χ_6	14	−2	5	−1	2	2	2	1	0	0	0	0	−1	−1
χ_7	21	5	3	0	1	1	1	−1	0	0	−1	−1	1	1
χ_8	21	1	3	0	$−3+2\ast E(4)$	$−3−2\ast E(4)$	−1	1	0	0	$−E(4)$	$E(4)$	$E(4)$	$−E(4)$
χ_9	21	1	3	0	$−3−2\ast E(4)$	$−3+2\ast E(4)$	−1	1	0	0	$E(4)$	$−E(4)$	$−E(4)$	$E(4)$
χ_{10}	27	3	0	0	3	3	−1	0	−1	−1	1	1	0	0
χ_{11}	28	−4	1	1	$4\ast E(4)$	$−4\ast E(4)$	0	−1	0	0	0	0	$−E(4)$	$E(4)$
χ_{12}	28	−4	1	1	$−4\ast E(4)$	$4\ast E(4)$	0	−1	0	0	0	0	$E(4)$	$−E(4)$
χ_{13}	32	0	−4	−1	0	0	0	0	$−E(7)^{\frown}3−E(7)^{\frown}5−E(7)^{\frown}6$	$−E(7)−E(7)^{\frown}2−E(7)^{\frown}4$	0	0	0	0
χ_{14}	32	0	−4	−1	0	0	0	0	$−E(7)−E(7)^{\frown}2−E(7)^{\frown}4$	$−E(7)^{\frown}3−E(7)^{\frown}5−E(7)^{\frown}6$	0	0	0	0

Trivial source character table of $G \cong \text{PSU}(3,3)$ at $p = 2$

<i>Normalisers</i> N_i	N_1						N_2	N_3	N_4	N_5	N_6	N_7	N_8	N_9	N_{10}	N_{11}	N_{12}	N_{13}
<i>p</i> − subgroups of <i>G</i> up to conjugacy in <i>G</i>	P_1						P_2	P_3	P_4	P_5	P_6	P_7	P_8	P_9	P_{10}	P_{11}	P_{12}	P_{13}
<i>Representatives</i> $n_j \in N_i$	1a	3a	3b	7a	7b		1a	3a	1a	3b	1a	3a	1a	3a	1a	1a	3a	1a
$1\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+1\cdot\chi_4+1\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+1\cdot\chi_8+1\cdot\chi_9+1\cdot\chi_{10}+2\cdot\chi_{11}+2\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}$	224	8	8	0	0		0	0	0	0	0	0	0	0	0	0	0	0
$0\cdot\chi_1+1\cdot\chi_2+1\cdot\chi_3+1\cdot\chi_4+1\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+1\cdot\chi_8+1\cdot\chi_9+2\cdot\chi_{10}+2\cdot\chi_{11}+2\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}$	256	4	7	−3	−3		0	0	0	0	0	0	0	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+1\cdot\chi_6+1\cdot\chi_7+1\cdot\chi_8+1\cdot\chi_9+1\cdot\chi_{10}+1\cdot\chi_{11}+1\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}$	160	16	1	−1	−1		0	0	0	0	0	0	0	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+1\cdot\chi_{13}+0\cdot\chi_{14}$	32	−4	−1	$−E(7)^{\frown}3−E(7)^{\frown}5−E(7)^{\frown}6$	$−E(7)−E(7)^{\frown}2−E(7)^{\frown}4$		0	0	0	0	0	0	0	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+1\cdot\chi_{14}$	32	−4	−1	$−E(7)−E(7)^{\frown}2−E(7)^{\frown}4$	$−E(7)^{\frown}3−E(7)^{\frown}5−E(7)^{\frown}6$		0	0	0	0	0	0	0	0	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+1\cdot\chi_4+1\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+1\cdot\chi_8+1\cdot\chi_9+1\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}$	112	4	4	0	0		16	4	0	0	0	0	0	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+1\cdot\chi_4+1\cdot\chi_5+0\cdot\chi_6+2\cdot\chi_7+1\cdot\chi_8+1\cdot\chi_9+2\cdot\chi_{10}+1\cdot\chi_{11}+1\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}$	208	10	4	−2	−2		16	−2	0	0	0	0	0	0	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+2\cdot\chi_4+2\cdot\chi_5+0\cdot\chi_6+3\cdot\chi_7+2\cdot\chi_8+2\cdot\chi_9+3\cdot\chi_{10}+2\cdot\chi_{11}+2\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}$	376	16	10	−2	−2		24	0	8	2	0	0	0	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+1\cdot\chi_4+1\cdot\chi_5+0\cdot\chi_6+2\cdot\chi_7+1\cdot\chi_8+1\cdot\chi_9+2\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}$	152	8	2	−2	−2		24	0	8	−1	0	0	0	0	0	0	0	0
$1\cdot\chi_1+2\cdot\chi_2+1\cdot\chi_3+3\cdot\chi_4+3\cdot\chi_5+2\cdot\chi_6+5\cdot\chi_7+3\cdot\chi_8+3\cdot\chi_9+5\cdot\chi_{10}+4\cdot\chi_{11}+4\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}$	680	32	14	−6	−6		24	0	0	0	8	0	0	0	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+1\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}$	56	2	2	0	0		8	2	0	0	0	8	2	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+1\cdot\chi_4+1\cdot\chi_5+1\cdot\chi_6+2\cdot\chi_7+1\cdot\chi_8+1\cdot\chi_9+3\cdot\chi_{10}+2\cdot\chi_{11}+2\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}$	312	15	6	−3	−3		8	−1	0	0	0	8	−1	0	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+1\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}$	28	1	1	0	0		4	1	0	0	0	4	1	2	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+2\cdot\chi_6+1\cdot\chi_7+1\cdot\chi_8+1\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}$	92	20	−1	1	1		4	4	0	0	4	0	0	0	0	0	0	0
$0\cdot\chi_1+1\cdot\chi_2+0\cdot\chi_3+1\cdot\chi_4+1\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+1\cdot\chi_{10}+1\cdot\chi_{11}+1\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}$	124	−2	4	−2	−2		4	−2	0	0	4	0	0	0	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+1\cdot\chi_4+1\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}$	36	0	3	1	1		12	0	8	2	4	0	0	0	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+2\cdot\chi_4+2\cdot\chi_5+2\cdot\chi_6+5\cdot\chi_7+2\cdot\chi_8+2\cdot\chi_9+5\cdot\chi_{10}+2\cdot\chi_{11}+2\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}$	500	32	8	−4	−4		36	0	12	0	4	12	0	0	0	4	0	0
$1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+1\cdot\chi_6+2\cdot\chi_7+1\cdot\chi_8+1\cdot\chi_9+1\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}$	126	18	0	0	0		14	2	6	0	2	2	2	0	2	2	0	0
$0\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+1\cdot\chi_4+1\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+1\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}$	62	−1	2	−1	−1		14	−1	6	0	2	2	−1	0	2	−1	0	0
$1\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+1\cdot\chi_4+1\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+1\cdot\chi_{10}+1\cdot\chi_{11}+1\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}$	126	0	6	0	0		6	0	2	2	2	6	0	0	0	2	0	0
$0\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+1\cdot\chi_6+1\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+1\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}$	62	8	−1	−1	−1		6	0	2	−1	2	6	0	0	0	2	−1	0
$1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+1\cdot\chi_4+1\cdot\chi_5+1\cdot\chi_6+2\cdot\chi_7+1\cdot\chi_8+1\cdot\chi_9+3\cdot\chi_{10}+1\cdot\chi_{11}+1\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}$	250	16	4	−2	−2		18	0	6	0	2	6	0	2	0	0	2	0
$1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}$	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1

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

$$P_2 = \text{Group}([(1,6)(2,28)(3,24)(7,18)(8,21)(9,11)(10,14)(12,16)(13,23)(15,20)(22,26)(25,27)]) \cong \text{C2}$$

$$P_3 = \text{Group}([(1,6)(2,28)(3,24)(7,18)(8,21)(9,11)(10,14)(12,16)(13,23)(15,20)(22,26)(25,27),(2,9)(3,24)(4,19)(5,17)(7,18)(8,20)(11,28)(12,26)(13,27)(15,21)(16,22)(23,25)]) \cong \text{C2} \times \text{C2}$$

$$P_4 = \text{Group}([(1,14,6,10)(2,12,28,16)(3,7,24,18)(4,19)(5,17)(8,27,21,25)(9,26,11,22)(13,15,23,20),(1,6)(2,28)(3,24)(7,18)(8,21)(9,11)(10,14)(12,16)(13,23)(15,20)(22,26)(25,27)]) \cong \text{C4}$$

$$P_5 = \text{Group}([(1,6)(2,28)(3,24)(7,18)(8,21)(9,11)(10,14)(12,16)(13,23)(15,20)(22,26)(25,27),(1,14,6,10)(2,26,28,22)(3,18,24,7)(8,13,21,23)(9,12,11,16)(15,25,20,27)]) \cong \text{C4}$$

$$P_6 = \text{Group}([(1,6)(2,28)(3,24)(7,18)(8,21)(9,11)(10,14)(12,16)(13,23)(15,20)(22,26)(25,27),(1,14,6,10)(2,26,28,22)(3,18,24,7)(8,13,21,23)(9,12,11,16)(15,25,20,27),(1,3,14,18,6,24,10,7)(2,27,26,15,28,25,22,20)(5,17)(8,11,13,16,21,9,23,12)]) \cong \text{C8}$$

$$P_7 = \text{Group}([(1,14,6,10)(2,12,28,16)(3,7,24,18)(4,19)(5,17)(8,27,21,25)(9,26,11,22)(13,15,23,20),(1,6)(2,28)(3,24)(7,18)(8,21)(9,11)(10,14)(12,16)(13,23)(15,20)(22,26)(25,27),(1,24,6,3)(2,9,28,11)(4,17)(5,19)(7,10,18,14)(8,13,21,23)(12,22,16,26)(15,27,20,25)]) \cong \text{Q8}$$

$$P_8 = \text{Group}([(1,3)(4,5)(6,24)(7,10)(8,27)(9,11)(12,16)(13,15)(14,18)(17,19)(20,23)(21,25),(1,14,6,10)(2,12,28,16)(3,7,24,18)(4,19)(5,17)(8,27,21,25)(9,26,11,22)(13,15,23,20),(1,6)(2,28)(3,24)(7,18)(8,21)(9,11)(10,14)(12,16)(13,23)(15,20)(22,26)(25,27),(2,20,9,8)(3,7,24,18)(4,17,19,5)(11,21,28,15)(12,13,26,27)(16,23,22,25),(2,9)(3,24)(4,19)(5,17)(7,18)(8,20)(11,28)(12,26)(13,27)(15,21)(16,22)(23,25)]) \cong \text{D8}$$

$$P_9 = \text{Group}([(1,14,6,10)(2,12,28,16)(3,7,24,18)(4,19)(5,17)(8,27,21,25)(9,26,11,22)(13,15,23,20),(1,6)(2,28)(3,24)(7,18)(8,21)(9,11)(10,14)(12,16)(13,23)(15,20)(22,26)(25,27),(2,9)(3,24)(4,19)(5,17)(7,18)(8,20)(11,28)(12,26)(13,27)(15,21)(16,22)(23,25)]) \cong \text{C4} \times \text{C2}$$

$$P_{10} = \text{Group}([(1,3)(4,5)(6,24)(7,10)(8,27)(9,11)(12,16)(13,15)(14,18)(17,19)(20,23)(21,25),(1,14,6,10)(2,12,28,16)(3,7,24,18)(4,19)(5,17)(8,27,21,25)(9,26,11,22)(13,15,23,20),(1,6)(2,28)(3,24)(7,18)(8,21)(9,11)(10,14)(12,16)(13,23)(15,20)(22,26)(25,27),(2,9)(3,24)(4,19)(5,17)(7,18)(8,20)(11,28)(12,26)(13,27)(15,21)(16,22)(23,25)]) \cong (\text{C4} \times \text{C2}) : \text{C2}$$

$$P_{11} = \text{Group}([(1,14,6,10)(2,12,28,16)(3,7,24,18)(4,19)(5,17)(8,27,21,25)(9,26,11,22)(13,15,23,20),(1,6)(2,28)(3,24)(7,18)(8,21)(9,11)(10,14)(12,16)(13,23)(15,20)(22,26)(25,27),(2,20,9,8)(3,7,24,18)(4,17,19,5)(11,21,28,15)(12,13,26,27)(16,23,22,25),(2,9)(3,24)(4,19)(5,17)(7,18)(8,20)(11,28)(12,26)(13,27)(15,21)(16,22)(23,25)]) \cong \text{C4} \times \text{C4}$$

$$P_{12} = \text{Group}([(1,14,6,10)(2,12,28,16)(3,7,24,18)(4,19)(5,17)(8,27,21,25)(9,26,11,22)(13,15,23,20),(1,6)(2,28)(3,24)(7,18)(8,21)(9,11)(10,14)(12,16)(13,23)(15,20)(22,26)(25,27),(2,9)(3,24)(4,19)(5,17)(7,18)(8,20)(11,28)(12,26)(13,27)(15,21)(16,22)(23,25),(1,3,14,18,6,24,10,7)(2,27,26,15,28,25,22,20)(5,17)(8,11,13,16,21,9,23,12)]) \cong \text{C8} : \text{C2}$$

$$P_{13} = \text{Group}([(2,20,9,8)(3,7,24,18)(4,17,19,5)(11,21,28,15)(12,13,26,27)(16,23,22,25),(1,3,14,18,6,24,10,7)(2,27,26,15,28,25,22,20)(5,17)(8,11,13,16,21,9,23,12)]) \cong (\text{C4} \times \text{C4}) : \text{C2}$$

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

$$N_2 = \text{Group}([(1,6)(2,28)(3,24)(7,18)(8,21)(9,11)(10,14)(12,16)(13,23)(15,20)(22,26)(25,27),(1,2,14,26,6,28,10,22)(3,9,18,12,24,11,7,16)(5,19)(8,27,13,15,21,25,23,20),(2,20,9,8)(3,7,24,18)(4,17,19,5)(11,21,28,15)(12,13,26,27)(16,23,22,25),(1,10,6,14)(2,25,11,13)(3,24)(4,17,19,5)(7,18)(8,22,15,12)(9,23,28,27)(16,21,26,20)]) \cong \text{SL}(2,3) : \text{C4}$$

$$N_3 = \text{Group}([(1,3)(4,5)(6,24)(7,10)(8,27)(9,11)(12,16)(13,15)(14,18)(17,19)(20,23)(21,25),(1,6)(2,28)(3,24)(7,18)(8,21)(9,11)(10,14)(12,16)(13,23)(15,20)(22,26)(25,27),(1,6)(2,21,9,15)(3,7,24,18)(4,5,19,17)(8,11,20,28)(10,14)(12,25,26,23)(13,16,27,22),(1$$