

The group G is isomorphic to the group $C2$. (PSL(3,2):C2) .
Ordinary character table of $G \cong C2$. (PSL(3,2):C2) \cong SL(2,7) . C2:

	1a	2a	4a	3a	6a	8a	8b	7a	14a	4b	12a	12b	16a	16b	16c	16d
χ_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
χ_3	6	6	-2	0	0	2	2	-1	-1	0	0	0	0	0	0	0
χ_4	6	6	2	0	0	0	0	-1	-1	0	0	0	$E(8) - E(8)^3$	$E(8) - E(8)^3$	$-E(8) + E(8)^3$	$-E(8) + E(8)^3$
χ_5	6	6	2	0	0	0	0	-1	-1	0	0	0	$-E(8) + E(8)^3$	$-E(8) + E(8)^3$	$E(8) - E(8)^3$	$E(8) - E(8)^3$
χ_6	7	7	-1	1	1	-1	-1	0	0	1	1	1	-1	-1	-1	-1
χ_7	7	7	-1	1	1	-1	-1	0	0	-1	-1	-1	1	1	1	1
χ_8	8	8	0	-1	-1	0	0	1	1	2	-1	-1	0	0	0	0
χ_9	8	8	0	-1	-1	0	0	1	1	-2	1	1	0	0	0	0
χ_{10}	8	-8	0	2	-2	0	0	1	-1	0	0	0	0	0	0	0
χ_{11}	6	-6	0	0	0	$E(8) - E(8)^3$	$-E(8) + E(8)^3$	-1	1	0	0	0	$E(16) - E(16)^7$	$-E(16) + E(16)^7$	$E(16)^3 - E(16)^5$	$-E(16)^3 + E(16)^5$
χ_{12}	6	-6	0	0	0	$E(8) - E(8)^3$	$-E(8) + E(8)^3$	-1	1	0	0	0	$-E(16) + E(16)^7$	$E(16) - E(16)^7$	$-E(16)^3 + E(16)^5$	$E(16)^3 - E(16)^5$
χ_{13}	6	-6	0	0	0	$-E(8) + E(8)^3$	$E(8) - E(8)^3$	-1	1	0	0	0	$-E(16)^3 + E(16)^5$	$E(16)^3 - E(16)^5$	$E(16) - E(16)^7$	$-E(16) + E(16)^7$
χ_{14}	6	-6	0	0	0	$-E(8) + E(8)^3$	$E(8) - E(8)^3$	-1	1	0	0	0	$E(16)^3 - E(16)^5$	$-E(16)^3 + E(16)^5$	$-E(16) + E(16)^7$	$E(16) - E(16)^7$
χ_{15}	8	-8	0	-1	1	0	0	1	-1	0	$-E(12)^7 + E(12)^{11}$	$E(12)^7 - E(12)^{11}$	0	0	0	0
χ_{16}	8	-8	0	-1	1	0	0	1	-1	0	$E(12)^7 - E(12)^{11}$	$-E(12)^7 + E(12)^{11}$	0	0	0	0

Trivial source character table of $G \cong C2$. (PSL(3,2) : C2) = SL(2,7) . C2 at $p = 2$:

Normalisers N_i	N_1			N_2			N_3	N_4			N_5	N_6	N_7			N_8	N_9	N_{10}	N_{11}
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	P_9	P_{10}	P_{11}
Representatives $n_j \in N_i$	1a	3a	7a	1a	3a	7a	1a	1a	3a	7a	1a	1a	1a	3a	7a	1a	1a	1a	1a
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 2 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	32	8	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	64	4	-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16}$	32	-4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	16	4	2	16	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	32	2	-3	32	2	-3	0	0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	16	-2	2	16	-2	2	0	0	0	0	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 2 \cdot \chi_4 + 2 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	40	4	-2	40	4	-2	8	0	0	0	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	8	2	1	8	2	1	0	2	2	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	8	-1	1	8	-1	1	0	2	-1	0	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	20	2	-1	20	2	-1	4	2	2	2	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 2 \cdot \chi_3 + 2 \cdot \chi_4 + 2 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	52	4	-4	52	4	-4	4	0	0	0	4	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	28	4	0	28	4	0	4	0	0	0	0	2	2	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	12	0	-2	12	0	-2	4	0	0	0	0	2	-1	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	26	2	-2	26	2	-2	2	2	2	2	2	0	0	2	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	2	2	2	2	2	2	2	0	0	0	2	2	2	0	2	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	26	2	-2	26	2	-2	2	0	0	0	2	0	0	0	0	2	0	2	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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

$$P_2 = Group([(1,4)(2,3)(5,7)(6,8)(9,10)(11,12)(13,15)(14,16)(17,19)(18,20)(21,22)(23,24)(25,26)(27,28)(29,30)(31,32)]) \cong C2$$

$$P_3 = Group([(1,4)(2,3)(5,7)(6,8)(9,10)(11,12)(13,15)(14,16)(17,19)(18,20)(21,22)(23,24)(25,26)(27,28)(29,30)(31,32), (1,13,4,15)(2,7,3,5)(6,24,8,23)(9,14,10,16)(11,32,12,31)(17,20,19,18)(21,27,22,28)(25,29,26,30)]) \cong C4$$

$$P_4 = Group([(1,4)(2,3)(5,7)(6,8)(9,10)(11,12)(13,15)(14,16)(17,19)(18,20)(21,22)(23,24)(25,26)(27,28)(29,30)(31,32), (1,26,4,25)(2,9,3,10)(5,14,7,16)(6,18,8,20)(11,21,12,22)(13,29,15,30)(17,24,19,23)(27,32,28,31)]) \cong C4$$

$$P_5 = Group([(1,4)(2,3)(5,7)(6,8)(9,10)(11,12)(13,15)(14,16)(17,19)(18,20)(21,22)(23,24)(25,26)(27,28)(29,30)(31,32), (1,13,4,15)(2,7,3,5)(6,24,8,23)(9,14,10,16)(11,32,12,31)(17,20,19,18)(21,27,22,28)(25,29,26,30), (1,26,4,25)(2,9,3,10)(5,14,7,16)(6,18,8,20)(11,21,12,22)(13,29,15,30)(17,24,19,23)(27,32,28,31)]) \cong Q8$$

$$P_6 = Group([(1,4)(2,3)(5,7)(6,8)(9,10)(11,12)(13,15)(14,16)(17,19)(18,20)(21,22)(23,24)(25,26)(27,28)(29,30)(31,32), (1,13,4,15)(2,7,3,5)(6,24,8,23)(9,14,10,16)(11,32,12,31)(17,20,19,18)(21,27,22,28)(25,29,26,30), (1,18,13,17,4,20,15,19)(2,27,7,22,3,28,5,21)(6,25,24,29,8,26,23,30)(9,12,14,31,10,11,16,32)]) \cong C8$$

$$P_7 = Group([(1,4)(2,3)(5,7)(6,8)(9,10)(11,12)(13,15)(14,16)(17,19)(18,20)(21,22)(23,24)(25,26)(27,28)(29,30)(31,32), (1,13,4,15)(2,7,3,5)(6,24,8,23)(9,14,10,16)(11,32,12,31)(17,20,19,18)(21,27,22,28)(25,29,26,30), (1,10,4,9)(2,8,3,6)(5,23,7,24)(11,17,12,19)(13,14,15,16)(18,31,20,32)(21,26,22,25)(27,29,28,30)]) \cong Q8$$

$$P_8 = Group([(1,4)(2,3)(5,7)(6,8)(9,10)(11,12)(13,15)(14,16)(17,19)(18,20)(21,22)(23,24)(25,26)(27,28)(29,30)(31,32), (1,13,4,15)(2,7,3,5)(6,24,8,23)(9,14,10,16)(11,32,12,31)(17,20,19,18)(21,27,22,28)(25,29,26,30), (1,6,4,8)(2,31,3,32)(5,11,7,12)(9,21,10,22)(13,23,15,24)(14,28,16,27)(17,26,19,25)(18,30,20,29), (1,26,4,25)(2,9,3,10)(5,14,7,16)(6,18,8,20)(11,21,12,22)(13,29,15,30)(17,24,19,23)(27,32,28,31)]) \cong Q16$$

$$P_9 = Group([(1,4)(2,3)(5,7)(6,8)(9,10)(11,12)(13,15)(14,16)(17,19)(18,20)(21,22)(23,24)(25,26)(27,28)(29,30)(31,32), (1,13,4,15)(2,7,3,5)(6,24,8,23)(9,14,10,16)(11,32,12,31)(17,20,19,18)(21,27,22,28)(25,29,26,30), (1,10,4,9)(2,8,3,6)(5,23,7,24)(11,17,12,19)(13,14,15,16)(18,31,20,32)(21,26,22,25)(27,29,28,30), (1,18,13,17,4,20,15,19)(2,27,7,22,3,28,5,21)(6,25,24,29,8,26,23,30)(9,12,14,31,10,11,16,32)]) \cong Q16$$

$$P_{10} = Group([(1,4)(2,3)(5,7)(6,8)(9,10)(11,12)(13,15)(14,16)(17,19)(18,20)(21,22)(23,24)(25,26)(27,28)(29,30)(31,32), (1,13,4,15)(2,7,3,5)(6,24,8,23)(9,14,10,16)(11,32,12,31)(17,20,19,18)(21,27,22,28)(25,29,26,30), (1,2,20,28,13,7,19,21,4,3,18,27,15,5,17,22)(6,9,26,11,24,14,30,32,8,10,25,12,23,16,29,31), (1,18,13,17,4,20,15,19)(2,27,7,22,3,28,5,21)(6,25,24,29,8,26,23,30)(9,12,14,31,10,11,16,32)]) \cong C16$$

$$P_{11} = Group([(1,4)(2,3)(5,7)(6,8)(9,10)(11,12)(13,15)(14,16)(17,19)(18,20)(21,22)(23,24)(25,26)(27,28)(29,30)(31,32), (1,13,4,15)(2,7,3,5)(6,24,8,23)(9,14,10,16)(11,32,12,31)(17,20,19,18)(21,27,22,28)(25,29,26,30), (1,6,4,8)(2,31,3,32)(5,11,7,12)(9,21,10,22)(13,23,15,24)(14,28,16,27)(17,26,19,25)(18,30,20,29), (1,26,4,25)(2,9,3,10)(5,14,7,16)(6,18,8,20)(11,21,12,22)(13,29,15,30)(17,24,19,23)(27,32,28,31), (1,10,4,9)(2,8,3,6)(5,23,7,24)(11,17,12,19)(13,14,15,16)(18,31,20,32)(21,26,22,25)(27,29,28,30)]) \cong Q32$$

$$N_1 = Group([(1,2,4,3)(5,9,7,10)(6,11,8,12)(13,21,15,22)(14,23,16,24)(17,25,19,26)(18,27,20,28)(29,31,30,32), (2,5,6)(3,7,8)(9,13,14)(10,15,16)(11,17,18)(12,19,20)(21,26,29)(22,25,30)]) \cong C2 \quad . \quad \text{PSL}(3,2) : C2) = \text{SL}(2,7) \quad . \quad C2$$

$$N_2 = Group([(1,2,4,3)(5,9,7,10)(6,11,8,12)(13,21,15,22)(14,23,16,24)(17,25,19,26)(18,27,20,28)(29,31,30,32), (2,5,6)(3,7,8)(9,13,14)(10,15,16)(11,17,18)(12,19,20)(21,26,29)(22,25,30)]) \cong C2 \quad . \quad \text{PSL}(3,2) : C2) = \text{SL}(2,7) \quad . \quad C2$$

$$N_3 = Group([(1,13,4,15)(2,7,3,5)(6,24,8,23)(9,14,10,16)(11,32,12,31)(17,20,19,18)(21,27,22,28)(25,29,26,30), (1,4)(2,3)(5,7)(6,8)(9,10)(11,12)(13,15)(14,16)(17,19)(18,20)(21,22)(23,24)(25,26)(27,28)(29,30)(31,32), (1,2,20,28,13,7,19,21,4,3,18,27,15,5,17,22)(6,9,26,11,24,14,30,32,8,10,25,12,23,16,29,31), (1,6,4,8)(2,31,3,32)(5,11,7,12)(9,21,10,22)(13,23,15,24)(14,28,16,27)(1$$