

The group G is isomorphic to the group labelled by [56, 1] in the Small Groups library.

$7b$	$8d$	$28b$	$28c$	$14b$	$7c$	$28d$	$28e$	$14c$	$28f$
1	1	1	1	1	1	1	1	1	1
1	-1	1	1	1	1	1	1	1	1
1	$E(4)$	-1	-1	1	1	-1	-1	1	-1
1	$-E(4)$	-1	-1	1	1	-1	-1	1	-1
1	$E(8)^3$	$-E(4)$	$E(4)$	-1	1	$-E(4)$	$E(4)$	-1	$-E(4)$
1	$E(8)$	$E(4)$	$-E(4)$	-1	1	$E(4)$	$-E(4)$	-1	$E(4)$
1	$-E(8)$	$E(4)$	$-E(4)$	-1	1	$E(4)$	$-E(4)$	-1	$E(4)$
1	$-E(8)^3$	$-E(4)$	$E(4)$	-1	1	$-E(4)$	$E(4)$	-1	$-E(4)$
$E(7) + E(7)^6$	0	$-E(7)^3 - E(7)^4$	$-E(7) - E(7)^6$	$E(7) + E(7)^6$	$E(7)^2 + E(7)^5$	$-E(7) - E(7)^6$	$-E(7)^2 - E(7)^5$	$E(7)^2 + E(7)^5$	$-E(7)^2 - E(7)$
$E(7)^3 + E(7)^4$	0	$-E(7)^2 - E(7)^5$	$-E(7)^3 - E(7)^4$	$E(7)^3 + E(7)^4$	$E(7) + E(7)^6$	$-E(7)^3 - E(7)^4$	$-E(7) - E(7)^6$	$E(7) + E(7)^6$	$-E(7) - E(7)^6$
$E(7)^2 + E(7)^5$	0	$-E(7) - E(7)^6$	$-E(7)^2 - E(7)^5$	$E(7)^2 + E(7)^5$	$E(7)^3 + E(7)^4$	$-E(7)^2 - E(7)^5$	$-E(7)^3 - E(7)^4$	$E(7)^3 + E(7)^4$	$-E(7)^3 - E(7)$
$E(7) + E(7)^6$	0	$E(7)^3 + E(7)^4$	$E(7) + E(7)^6$	$E(7) + E(7)^6$	$E(7)^2 + E(7)^5$	$E(7) + E(7)^6$	$E(7)^2 + E(7)^5$	$E(7)^2 + E(7)^5$	$E(7)^2 + E(7)^5$
$E(7)^3 + E(7)^4$	0	$E(7)^2 + E(7)^5$	$E(7)^3 + E(7)^4$	$E(7)^3 + E(7)^4$	$E(7) + E(7)^6$	$E(7)^3 + E(7)^4$	$E(7) + E(7)^6$	$E(7) + E(7)^6$	$E(7) + E(7)^6$
$E(7)^2 + E(7)^5$	0	$E(7) + E(7)^6$	$E(7)^2 + E(7)^5$	$E(7)^2 + E(7)^5$	$E(7)^3 + E(7)^4$	$E(7)^2 + E(7)^5$	$E(7)^3 + E(7)^4$	$E(7)^3 + E(7)^4$	$E(7)^3 + E(7)^4$
$E(7) + E(7)^6$	0	$E(28)^{19} + E(28)^{23}$	$-E(28)^3 - E(28)^{11}$	$-E(7) - E(7)^6$	$E(7)^2 + E(7)^5$	$E(28)^3 + E(28)^{11}$	$-E(28)^{15} - E(28)^{27}$	$-E(7)^2 - E(7)^5$	$E(28)^{15} + E(28)$
$E(7)^3 + E(7)^4$	0	$E(28)^{15} + E(28)^{27}$	$-E(28)^{19} - E(28)^{23}$	$-E(7)^3 - E(7)^4$	$E(7) + E(7)^6$	$E(28)^{19} + E(28)^{23}$	$-E(28)^3 - E(28)^{11}$	$-E(7) - E(7)^6$	$E(28)^3 + E(28)$
$E(7)^2 + E(7)^5$	0	$E(28)^3 + E(28)^{11}$	$-E(28)^{15} - E(28)^{27}$	$-E(7)^2 - E(7)^5$	$E(7)^3 + E(7)^4$	$E(28)^{15} + E(28)^{27}$	$-E(28)^{19} - E(28)^{23}$	$-E(7)^3 - E(7)^4$	$E(28)^{19} + E(28)$
$E(7) + E(7)^6$	0	$-E(28)^{19} - E(28)^{23}$	$E(28)^3 + E(28)^{11}$	$-E(7) - E(7)^6$	$E(7)^2 + E(7)^5$	$-E(28)^3 - E(28)^{11}$	$E(28)^{15} + E(28)^{27}$	$-E(7)^2 - E(7)^5$	$-E(28)^{15} - E(28)$
$E(7)^3 + E(7)^4$	0	$-E(28)^{15} - E(28)^{27}$	$E(28)^{19} + E(28)^{23}$	$-E(7)^3 - E(7)^4$	$E(7) + E(7)^6$	$-E(28)^{19} - E(28)^{23}$	$E(28)^3 + E(28)^{11}$	$-E(7) - E(7)^6$	$-E(28)^3 - E(28)$
$E(7)^2 + E(7)^5$	0	$-E(28)^3 - E(28)^{11}$	$E(28)^{15} + E(28)^{27}$	$-E(7)^2 - E(7)^5$	$E(7)^3 + E(7)^4$	$-E(28)^{15} - E(28)^{27}$	$E(28)^{19} + E(28)^{23}$	$-E(7)^3 - E(7)^4$	$-E(28)^{19} - E(28)$

Third, the β parameter is added to G_3 , G_5 , G_7 , and G_9 .

Trivial source character table of $G \cong C_7 : C_8$	
Normalisers N_i	p -subgroups of G up to conjugacy in G
Representatives $n_j \in N_i$	
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6$	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6$	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6$	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6$	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6$	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6$	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6$	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6$	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6$	
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6$	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6$	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6$	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6$	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6$	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6$	

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

$$P_2 = \text{Group}([(1, 5, 12, 20, 28, 36, 44)(2, 8, 16, 24, 32, 40, 48)(3, 10, 18, 26, 34, 42, 50)(4, 11, 19, 27, 35, 43, 51)(6, 14, 22, 30, 38, 46, 53)(7, 15, 23, 31, 39, 47, 54)(9, 17, 25, 33, 41, 49, 55)(13, 21, 29, 37, 45, 52, 56)]) \cong C_7$$

$$N_1 = \text{Group}([(1, 2, 3, 6, 4, 7, 9, 13)(5, 48, 10, 53, 11, 54, 17, 56)(8, 50, 14, 51, 15, 55, 21, 44)(12, 40, 18, 46, 19, 47, 25, 52)(16, 42, 22, 43, 23, 49, 29, 36)(20, 32, 26, 38, 27, 39, 33, 45)(24, 34, 30, 35, 31, 41, 37, 28), (1, 3, 4, 9)(2, 6, 7, 13)(5, 10, 11, 17)(8, 14, 15, 21)(12, 18, 19, 25)(16, 22, 23, 29)(20, 26, 27, 33)(24, 30, 31, 37)(28, 34, 35, 41)(32, 38, 39, 45)(36, 42, 43, 49)(40, 46, 47, 52)(44, 50, 51, 55)(48, 53, 54, 56), (1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 21)(16, 23)(18, 25)(20, 27)(22, 29)(24, 31)(26, 33)(28, 35)(30, 37)(32, 39)(34, 41)(36, 43)(38, 45)(40, 47)(44, 51)(46, 52)(48, 54)(50, 55)(53, 56), (1, 5, 12, 20, 28, 36, 44)(2, 8, 16, 24, 32, 40, 48)(3, 10, 18, 26, 34, 42, 50)(4, 11, 19, 27, 35, 43, 51)(6, 14, 22, 30, 38, 46, 53)(7, 15, 23, 31, 39, 47, 54)(9, 17, 25, 33, 41, 49, 55)(13, 21, 29, 37, 45, 52, 56)], \cong C7 : C8) \\ N_2 = \text{Group}([(1, 5, 12, 20, 28, 36, 44)(2, 8, 16, 24, 32, 40, 48)(3, 10, 18, 26, 34, 42, 50)(4, 11, 19, 27, 35, 43, 51)(6, 14, 22, 30, 38, 46, 53)(7, 15, 23, 31, 39, 47, 54)(9, 17, 25, 33, 41, 49, 55)(12, 21, 29, 37, 45, 52, 56), (1, 2, 3, 6, 4, 7, 9, 12)(5, 18, 10, 52, 11, 54, 17, 56)(8, 50, 14, 51, 15, 55, 21, 44)(12, 40, 18, 46, 19, 47, 25, 52)(16, 42, 22, 43, 24, 49, 20, 26)(20, 22, 26, 28, 27, 30, 32, 45)(24, 34, 30, 35, 31, 41, 37, 28)], \cong C7 : C8)$$