The group G is isomorphic to the group labelled by [32, 46] in the Small Groups library

 $\chi_{20} \mid 2 \mid -2 \mid -2 \mid 2 \mid 0 \mid 0 \mid 0 \mid 0 \mid -2 \mid 2 \mid 2 \mid -2 \mid 0 \mid 0$ Trivial source character table of $G \cong C2 \times C2 \times D8$ at p = 2Normalisers Np-subgroups of G up to conjugacy in G $\frac{1}{\sqrt{1}} + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0$

 $1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot$ $P_1 = Group(|()|) \cong 1$ $P_2 = Group([(1,14)(2,20)(3,23)(4,5)(6,26)(7,27)(8,9)(10,30)(11,12)(13,31)(15,16)(17,18)(19,32)(21,22)(24,25)(28,29)]) \cong \mathbb{C}^2$ $P_3 = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)]) \cong \mathbb{C}^2$ $P_4 = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32)]) \cong \mathbb{C}_2$ $P_5 = Group([(1,16)(2,22)(3,25)(4,26)(5,6)(7,29)(8,30)(9,10)(11,31)(12,13)(14,15)(17,32)(18,19)(20,21)(23,24)(27,28)]) \cong \mathbb{C}^2$ $P_6 = Group([(1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(18,27)(19,28)(22,30)(25,31)(29,32)]) \cong \mathbb{C}^2$ $P_7 = Group([(1,15)(2,21)(3,24)(4,6)(5,26)(7,28)(8,10)(9,30)(11,13)(12,31)(14,16)(17,19)(18,32)(20,22)(23,25)(27,29)]) \cong \mathbf{C2}$ $P_8 = Group([(1,8)(2,4)(3,28)(5,20)(6,21)(7,24)(9,14)(10,15)(11,19)(12,32)(13,17)(16,30)(18,31)(22,26)(23,29)(25,27)]) \cong \mathbb{C}^2$ $P_9 = Group([(1,9)(2,5)(3,29)(4,20)(6,22)(7,25)(8,14)(10,16)(11,32)(12,19)(13,18)(15,30)(17,31)(21,26)(23,28)(24,27)]) \cong \mathbb{C}^2$ $P_{10} = Group([(1,23)(2,27)(3,14)(4,12)(5,11)(6,31)(7,20)(8,18)(9,17)(10,32)(13,26)(15,25)(16,24)(19,30)(21,29)(22,28)]) \cong \mathbb{C}^2$ $P_{11} = Group([(1,20)(2,14)(3,32)(4,9)(5,8)(6,30)(7,31)(10,26)(11,29)(12,28)(13,27)(15,22)(16,21)(17,25)(18,24)(19,23)]) \cong \mathbb{C}^2$ $P_{12} = Group([(1,2)(3,19)(4,8)(5,9)(6,10)(7,13)(11,28)(12,29)(14,20)(15,21)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31)]) \cong \mathbb{C}^2$ $P_{13} = Group([(1,11)(2,17)(3,4)(5,23)(6,24)(7,8)(9,27)(10,28)(12,14)(13,15)(16,31)(18,20)(19,21)(22,32)(25,26)(29,30)]) \cong \mathbb{C}^2$ $P_{14} = Group([(1,12)(2,18)(3,5)(4,23)(6,25)(7,9)(8,27)(10,29)(11,14)(13,16)(15,31)(17,20)(19,22)(21,32)(24,26)(28,30)]) \cong \mathbb{C}^2$ $P_{15} = Group([(1,3)(2,7)(4,11)(5,12)(6,13)(8,17)(9,18)(10,19)(14,23)(15,24)(16,25)(20,27)(21,28)(22,29)(26,31)(30,32)]) \cong \mathbb{C}^2$

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

 $P_{19} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,28,6,17)(2,24,10,11)(3,8,13,21)(4,19,15,7)(5,32,16,27)(9,31,22,23)(12,20,25,30)(14,29,26,18)]) \cong C4$ $P_{24} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,29,6,18)(2,25,10,12)(3,9,13,22)(4,32,15,27)(5,19,16,7)(8,31,21,23)(11,20,24,30)(14,28,26,17)]) \cong C4$ $P_{42} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,32,6,27)(2,31,10,23)(3,20,13,30)(4,29,15,18)(5,28,16,17)(7,14,19,26)(8,25,21,12)(9,24,22,11)]) \cong C4$

 $P_{58} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,19,6,7)(2,13,10,3)(4,28,15,17)(5,29,16,18)(8,24,21,11)(9,25,22,12)(14,32,26,27)(20,31,30,23)]) \cong C4$

 $P_{61} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(23,28)(24,27), (1,8)(2,4)(3,28)(24,27), (1,8)(2,4)(3,28)(24,27), (1,8)(2,4)(3,28)(24,27), (1,8)(2,4)(3,28)(24,27), (1,8)(2,4)(3,28)(24,27), (1,8)(2,4)(3,28)(24,27), (1,8)(2,4)(3,28)(24,27), (1,8)(2,4)(3,28)(24,27), (1,8)(2,4)(3,28)(24,27), (1,8)(2,4)(3,28)(24,27), (1,8)(2,4)(3,28)(24,27), (1,8)(2,4)(3,28)(24,27), (1,8)(2,4)(3,28)(24,27), (1,8)(24,27)(24,28)(24,27), (1,8)(24,27)(24,28)(24,27), (1,8)(24,27)(24,28)(24,27), (1,8)(24,27)(24,28)(24,27), (1,8)(24,27)(24,28)(24,27), (1,8)(24,27)(24,28)(24,27), (1,8)(24,27)(24,28)(24,27), (1,8)(24,27)(24,28)(24,27), (1,8)(24,27)(24,28)(24,27), (1,8)(24,27)(24,28)(24,27), (1,8)(24,27)(24,28)(24,27), (1,8)(24,28)(24,28)(24,27), (1,8)(24,28)(24,28)(24,28)(24,28), (1,8)(24,28)(24,$ $P_{62} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(13,24)(12,25)(14,26)(17,28)(13,24)(16,26)(18,27)(19,28)(21,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)(19,28)(21,24)(19,28)(21,24)$ $P_{65} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,2)(3,19)(4,8)(5,9)(6,10)(7,13)(11,28)(12,29)(14,20)(15,21)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31)] \\ \cong C_{2} \times C_{2} \times$ $P_{67} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(13,24)(12,25)(14,26)(17,28)(13,24)(12,25)(14,26)(17,28)(13,24)(12,25)(14,26)(17,28)(13,24)(12,25)(14,26)(17,28)(13,24)(12,25)(14,26)(17,28)(13,24)(12,25)(14,26)(17,28)(12,24)(12,25)(14,26)(17,28)$ $P_{69} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,3)(2,7)(4,11)(5,12)(6,13)(4,15)(5,16)(7,19)(11,28)(12,29)(14,20)(15,21)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31)] \cong D8$ $P_{70} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(13,27)(14,26)(17,28)(13,27)(14,26)(17,28)(13,27)(14,26)(17,28)(13,27)(14,26)(17,28)(13,27)(14,26)(17,28)(13,27)(14,26)(17,28)(17,28)$ $P_{71} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), \\ (1,3)(2,7)(4,11)(5,12)(6,13)(8,17)(9,18)(10,19)(14,23)(15,24)(16,25)(20,27)(21,28)(22,29)(26,31)(30,32)]) \cong D8$ $P_{72} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,24,21,11)(9,25,22,12)(14,32,26,27)(20,31,30,23)]) \\ \cong C4 \times C2 + C4$ $P_{73} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), \\ (1,9)(2,5)(3,29)(4,20)(6,22)(7,25)(8,14)(10,16)(11,32)(12,19)(13,18)(15,30)(17,31)(21,26)(23,28)(24,27), \\ (1,9)(2,5)(3,29)(4,20)(6,22)(7,25)(8,14)(10,16)(11,32)(12,19)(13,18)(15,30)(17,31)(12,19)(13,18)(15,30)(17,31)(12,19)(13,18)(15,30)(17,31)(12,19)(13,18)(15,30)(17,31)(12,19)(13,18)(15,30)(17,31)(12,19)(13,18)(15,30)(17,31)(12,19)(13,18)(15,30)(17,31)(12,19)(13,18)(15,30)(17,31)(17$ $P_{74} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), \\ (1,12)(2,18)(3,5)(4,23)(6,25)(7,9)(8,27)(10,29)(11,14)(13,16)(15,31)(17,20)(19,22)(21,32)(24,26)(28,30), \\ (1,12)(2,18)(3,5)(4,23)(6,25)(7,9)(8,27)(10,29)(11,14)(13,16)(15,31)(17,20)(19,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), \\ (1,12)(2,18)(3,5)(4,23)(6,25)(7,9)(8,27)(10,29)(11,14)(13,16)(15,31)(17,20)(19,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), \\ (1,12)(2,18)(3,12)(24,26)$ $P_{76} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), \\ (1,8)(2,4)(3,28)(5,20)(6,21)(7,24)(9,14)(10,15)(11,19)(12,32)(13,17)(16,30)(18,31)(27,32), \\ (1,8)(2,4)(3,28)(5,20)(6,21)(7,24)(9,14)(10,15)(11,19)(12,32)(13,17)(16,30)(18,31)(27,32), \\ (1,8)(2,4)(3,28)(5,20)(6,21)(7,24)(12,25)(14,26)(17,28)(12,26)(23,29)(25,27), \\ (1,8)(2,4)(3,28)(5,20)(6,21)(7,24)(12,25)(14,26)(17,28)(12,26)(13,28)(13,$ $P_{78} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), \\ (1,8)(2,4)(3,28)(5,20)(6,21)(7,24)(9,14)(10,15)(11,19)(12,32)(13,17)(16,30)(18,31)(22,26)(23,29)(25,27), \\ (1,9)(4,20)(1,$ $P_{81} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), \\ (1,29,6,18)(2,25,10,12)(3,9,13,22)(4,32,15,27)(5,19,16,7)(8,31,21,23)(11,20,24,30)(14,28,26,17), \\ (1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(18,27)(19,28)(22,30)(25,31)(29,32)] \cong C4 \times C2$ $P_{82} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), \\ (1,12)(2,18)(3,5)(4,23)(6,25)(7,9)(8,27)(10,29)(11,14)(13,16)(15,31)(17,20)(19,22)(11,24)(12,25)(14,26)(23,29)(25,27)]) \\ \cong D_{82} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(13,29)(23,29)(25,27)]) \\ = D_{82} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(13,29)(23,29)(25,27)]) \\ = D_{82} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(13,29)(23,29)(25,27)]) \\ = D_{82} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(13,29)(23,2$ $P_{83} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), \\ (1,29,6,18)(2,25,10,12)(3,9,13,22)(4,32,15,27)(5,19,16,7)(8,31,21,23)(11,20,24,30)(14,28,26,17), \\ (1,29,6,18)(2,25,10,12)(3,9,13,22)(4,32,15,27)(5,19,16,7)(8,31,21,23)(11,20,24,30)(14,28,26,17), \\ (1,29,6,18)(2,25,10,12)(3,9,13,22)(4,32,15,27)(5,19,16,7)(8,21,12)(11,20,24,30)(14,28,26,17), \\ (1,29,6,18)(2,25,10,12)(3,9,13,22)(4,32,15,27)(5,19,16,7)(8,21,12)(11,20,24,30)(14,28,26,17), \\ (1,29,6,18)(2,25,10,12)(3,9,13,22)(4,32,15,27)(5,19,16,7)(8,21,12)(11,20,24,30)(14,28,26,17), \\ (1,29,6,18)(2,25,10,12)(3,9,13,22)(4,32,15,27)(5,19,16,12)(12,25)(14,26)(12,2$ $P_{84} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32),\\ (1,9)(2,5)(3,29)(4,20)(6,22)(7,25)(8,14)(10,16)(11,32)(12,19)(13,18)(15,30)(17,31)(21,26)(23,28)(24,27),\\ (1,11)(2,17)(3,4)(5,23)(6,24)(7,8)(9,27)(10,28)(12,14)(13,15)(16,31)(18,20)(19,21)(22,32)(25,26)(29,30)]) \cong D_{84} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32),\\ (1,11)(2,17)(3,4)(2,12)(2,$ $P_{85} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,28,6,17)(2,24,10,11)(3,8,13,21)(4,19,15,7)(5,32,16,27)(9,31,22,23)(12,20,25,30)(14,29,26,18)]) \\ \cong C4 \times C2(3,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(13,25)(15,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,28)(13,25)(15,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,28)(13,25)(15,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,28)(13,25)(15,26)(17,27)(19,29)(11,24)(12,25)(14,26)(17,28$ $P_{86} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,9)(2,5)(3,29)(4,20)(6,22)(7,25)(8,14)(10,16)(11,32)(12,19)(13,18)(15,30)(17,31)(21,26)(23,28)(24,27), (1,28,6,17)(2,24,10,11)(3,8,13,21)(4,19,15,7)(5,32,16,27)(9,31,22,23)(12,20,25,30)(14,29,26,18)]) \cong D8$ $P_{87} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), \\ (1,29,6,18)(2,25,10,12)(3,9,13,22)(4,32,15,27)(5,19,16,7)(8,31,21,23)(11,20,24,30)(14,28,26,17), \\ (1,11)(2,17)(3,4)(5,23)(6,24)(7,8)(9,27)(10,28)(12,14)(13,15)(16,31)(18,20)(19,21)(22,32)(25,26)(29,30)] \cong D_{87} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), \\ (1,29,6,18)(2,25,10,12)(3,23)(2$ $P_{88} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), \\ (1,12)(2,18)(3,5)(4,23)(4,19,15,7)(5,32,16,27)(9,31,22,23)(12,20,25,30)(14,29,26,18)]) \cong D8$ $P_{90} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), \\ (1,20)(2,14)(3,32)(4,9)(5,8)(6,30)(7,31)(10,26)(11,29)(12,28)(13,27)(15,22)(16,21)(17,25)(18,24)(19,23), \\ (1,20)(2,14)(3,32)(4,9)(5,8)(6,30)(7,31)(10,26)(11,29)(12,28)(13,27)(15,22)(16,21)(17,28)(18,29)(20,30)(23,31)(27,32), \\ (1,20)(2,14)(3,32)(4,9)(5,8)(6,30)(7,31)(10,26)(11,29)(12,28)(13,27)(15,22)(16,21)(17,28)(18,29)(20,30)(23,31)(27,32), \\ (1,20)(2,14)(3,32)(4,9)(5,8)(12,29)(12,28)(13,27)(15,22)(16,21)(17,28)(18,29)(20,30)(23,31)(27,32), \\ (1,20)(2,14)(3,32)(4,9)(5,8)(12,29)(12,28)(13,27)(15,29)(16,21)(17,28)(18,29)(20,30)(23,31)(27,32), \\ (1,20)(2,14)(3,32)(4,9)(5,8)(12,29)(12,28)(13,29)(12,28)(12$ $P_{92} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), \\ (1,20)(2,31)(10,26)(11,29)(12,28)(13,27)(15,22)(16,21)(17,25)(18,24)(19,23), \\ (1,19,6,7)(2,13,10,3)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), \\ (1,20)(2,31)(10,26)(11,29)(12,28)(13,27)(15,22)(16,21)(17,25)(18,24)(19,23)(17,28)(18,24)(19,23)(19,24)(19,23)(19,24)(19,$ $P_{93} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), \\ (1,23)(2,27)(3,14)(4,12)(5,11)(6,31)(7,20)(8,18)(9,17)(10,32)(13,26)(15,25)(16,24)(19,30)(21,29)(22,28), \\ (1,23)(2,27)(3,14)(4,12)(5,11)(6,31)(7,20)(8,18)(9,17)(10,32)(13,26)(15,25)(16,24)(19,30)(21,29)(22,28), \\ (1,23)(2,27)(3,14)(4,12)(5,11)(6,31)(7,20)(8,18)(9,17)(10,32)(13,26)(15,25)(16,24)(19,30)(21,29)(22,28), \\ (1,23)(2,27)(3,14)(4,12)(5,11)(6,31)(7,20)(13,26)(15,25)(16,24)(19,30)(21,29)(22,28), \\ (1,23)(2,27)(3,14)(4,12)(5,11)(6,31)(7,20)(13,26)(15,25)(16,24)(19,30)(21,29)(22,28), \\ (1,23)(2,27)(3,14)(4,12)(5,11)(6,31)(7,20)(13,26)(15,25)(16,24)(19,30)(21,29)(22,28), \\ (1,23)(2,27)(3,14)(4,12)(5,11)(6,31)(7,20)(13,26)(15,25)(16,24)(19,26)(17,26$ $P_{94} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(13,24)(12,25)(14,26)(17,28)(13,24)(16,26)(17,28)(13,24)(16,26)(17,28)(13,24)(16,26)(17,28)(13,24)(16,26)(17,28)(18,29)(20,30)(23,31)(27,32), \\ (1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(17,28)(12,23)(13,24)(16,26)(17,28)(12,23)(13,24)(16,26)(17,28)(12,23)(13,24)(16,26)(17,28)(12,23)(13,24)(16,26)(17,28)(18,29)(19,28)(19,2$ $P_{95} = Group([(1,16)(2,22)(3,25)(4,26)(5,6)(7,29)(8,30)(9,10)(11,31)(12,13)(14,15)(17,32)(18,19)(20,21)(23,24)(27,28), \\ (1,15)(2,21)(3,24)(4,6)(5,20)(23,25)(27,29), \\ (1,15)(2,21)(3,24)(4,6)(5,20)(23,25)(27,29), \\ (1,15)(2,21)(3,24)(4,6)(5,20)(23,25)(27,29), \\ (1,15)(2,21)(3,24)(4,6)(5,20)(23,25)(27,29), \\ (1,15)(2,21)(3,24)(4,6)(5,20)(23,25)(27,29), \\ (1,15)(2,21)(3,24)(4,6)(5,20)(23,25)(27,29), \\ (1,15)(2,21)(3,24)(4,6)(5,20)(23,25)(27,29), \\ (1,15)(2,21)(3,24)(4,6)(5,20)(23,25)(27,29), \\ (1,15)(2,21)(3,24)(4,6)(5,20)(23,25)(27,29), \\ (1,15)(2,21)(3,24)(4,6)(5,20)(23,25)(27,29), \\ (1,15)(2,21)(3,24)(4,6)(5,20)(23,25)(27,29), \\ (1,15)(2,21)(3,24)(4,6)(5,20)(23,25)(27,29), \\ (1,15)(2,21)(3,24)(4,6)(5,21)(23,24)(27,28), \\ (1,15)(2,21)(3,24)(4,6)(5,21)(23,24)(27,28), \\ (1,15)(2,21)(3,24)(4,6)(5,21)(23,24)(27,28), \\ (1,15)(2,21)(27,28), \\ (1,15)(2,21)(27,28), \\ (1,15)(2,21)(27,28), \\ (1,15)(2,21)(27,28), \\ (1,15)(2,21)(27,28), \\ (1,15)(2,21)(27,28), \\ (1,15)(2,21)(27,28), \\ (1,15)(2,21$ $P_{97} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,15)(2,21)(3,24)(4,6)(5,26)(7,28)(8,10)(9,30)(11,13)(12,31)(14,16)(17,19)(18,32)(20,22)(23,25)(27,29), \\ (1,15)(2,21)(3,24)(4,6)(5,26)(7,28)(8,10)(9,30)(11,13)(12,31)(14,16)(17,19)(18,32)(19,24)(19$ $P_{100} = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(17,27)(19,29)(12,30)(24,31)(28,32), \\ (1,4)(2,8)(3,11)(5,14)(6,15)(17,27)(19,29)(11,23)(13,24)(16,26)(17,27)(19,29)(17,24)(18,25)(17,24)(19,27)(19,29)(19,27)($ $P_{101} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), \\ (1,14)(2,20)(3,23)(4,5)(6,26)(7,27)(8,9)(10,30)(11,12)(13,31)(15,16)(17,18)(19,32)(21,22)(24,25)(24,$ $P_{103} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(23,31)(27,32), \\ (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(17,27)(19,29)(11,24)(12,23)(13,24)(16,26)(17,27)(19,29)(11,24)(12,23)(13,24)(16,26)(17,27)(19,29)(11,24)(12,23)(13,24)(16,26)(17,27)(19,29)(11,24)(12,23)(13,24)(16,26)(17,27)(19,29)(11,24)(12,23)(13,24)(16,26)(17,27)(19,29)(11,24)(12,23)(13,24)(16,26)(17,27)(19,29)(11,24)(12,23)(13,24)(16,26)(17,27)(19,29)(11,24)(12,23)(13,24)(16,26)(17,27)(19,29)(11,24)(12,23)(13,24)(16,26)(17,27)(19,29)(11,24)(12,23)(13,24)(16,26)(17,27)(19,29)(11,24)(12,23)(13,24)(16,26)(17,24)(18,25)(17,24)(17,24)(18,25)(17$ $P_{104} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(13,24)(16,26)(17,28)(13,24)(16,26)(17,24)(18,25)(23,32)(26,30)(27,31)]) \\ \cong C_2 \times D_8 = C_{10} + C_{10} +$

 $P_{60} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(13,24)(16,26)(17,28)(13,24)(16,26)(18,27)(19,28)(22,30)(25,31)(27,32), \\ (1,12)(2,18)(3,5)(4,23)(6,25)(7,9)(8,27)(10,29)(11,14)(13,16)(15,31)(17,20)(19,22)(21,32)(24,26)(28,30), \\ (1,12)(2,18)(3,5)(4,23)(6,25)(7,9)(8,27)(10,29)(11,14)(13,16)(15,31)(17,20)(19,22)(11,24)(12,25)(14,26)(17,28)(13,24)(16,26)(18,27)(19,28)(12,23)(13,24)(16,26)(18,27)(19,28)(12,23)(13,24)(16,26)(18,27)(19,28)(12,23)(13,24)(16,26)(18,27)(19,28)(12,23)(13,24)(16,26)(18,27)(19,28)(12,23)(13,24)(16,26)(18,27)(19,28)(12,23)(13,24)(16,26)(18,27)(19,28)(12,23)(13,24)(16,26)(18,27)(19,28)(12,23)(13,24)(16,26)(18,27)(19,28)(12,23)(13,24)(16,26)(18,27)(19,28)(12,23)(13,24)(16,26)(18,27)(19,28)(12,23)(13,24)(16,26)(18,27)(19,28)(12,23)(13,24)(16,26)(18,27)(19,28)(12,23)(13,24)(16,26)(18,27)(19,28)(12,23)(13,24)(16,26)(18,27)(19,28)(12,23)(13,24)(16,26)(18,27)(19,28)(12,23)(13,24)(16,26)(18,27)(19,28)(12,23)(13,24)(16,26)(18,27)(19,28)(12,23)(13,24)(19,28)(19$

 $P_{106} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,27)(8,9)(10,30)(11,12)(13,31)(15,16)(17,28)(14,26)(28,30), (1,2)(24,25)(24,25)(28,29), (1,12)(2,32)(24,25)(28,29), (1,12)(24,25)(24,25)(28,29), (1,12)(24,25)(24,25)(28,29), (1,12)(24,25)(24,25)(28,29), (1,12)(24,25)(2$ $P_{107} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,17)(9,20)(10,21)(12,23)(13,25)(15,26)(17,27)(19,20)(21,30)(24,31)(27,32), \\ (1,5)(2,9)(2,30)(23,31)(27,32), \\ (1,5)(2,9)(2,30)(23,31)(27,32), \\ (1,5)(2,9)(2,30)(23,31)(27,32), \\ (1,5)(2,9)(2,30)(23,31)(27,32), \\ (1,5)(2,9)(2,30)(23,31)(27,32), \\ (1,5)(2,9)(2,30)(23,31)(27,32), \\ (1,5)(2,9)(2,30)(23,31)(27,32), \\ (1,5)(2,9)(2,30)(23,31)(27,32), \\ (1,5)(2,9)(2,30)(23,31)(27,32), \\ (1,5)(2,9)(2,30)(23,31)(27,32), \\ (1,5)(2,9)(2,30)(23,31)(27,32), \\ (1,5)(2,9)(2,30)(23,31)(27,32), \\ (1,5)(2,9)(2,30)(23,31)(27,32), \\ (1,5)(2,9)(2,30)(23,31)(27,32), \\ (1,5)(2,9)(2,30)(23,31)(27,32), \\ (1,5)(2,9)(23,31)(27,32), \\ (1,5)(23,31)(27,32), \\ (1,5)(23,31)(27,32), \\ (1,5)(23,31)(27,32)$ $P_{108} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(12,29)(24,25)(28,29), \\ (1,3)(2,7)(4,11)(5,12)(6,23)(14,26)(17,24)(18,25)(24,25)(2$ $P_{109} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,2)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(27,32), \\ (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,3)(2,13)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,3)(2,13)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,3)(2,13)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,3)(2,13)(4,14)(6,16)(7,18)(12,29)(14,20)(15,24)(16,25)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(1$ $P_{110} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,17)(9,20)(10,21)(12,23)(13,24)(16,25)(23,31)(27,32), (1,3)(2,7)(4,11)(5,12)(6,13)(4,15)(5,16)(7,17)(9,20)(10,21)(12,23)(13,24)(16,25)(23,32)(26,30)(27,31)] \\ \cong C2 \times D8 = C2 \times$ $P_{111} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(17,28)(22,30)(25,31)(27,32), (1,4)(2,8)(21,29)(26,31)(30,32), (1,9)(2,5)(3,29)(4,20)(6,21)(7,28)(12,29)(26,31)(30,32), (1,9)(2,30)(25,31)(27,32), (1,4)(2,8)(21,29)(26,31)(30,32), (1,9)(2,30)(25,31)(27,32), (1,4)(2,8)(21,29)(26,31)(30,32), (1,4)(2,8)(21,29)(26,31)(30,32), (1,4)(2,8)(21,29)(26,31)(30,32), (1,4)(2,8)(21,29)(26,31)(30,32), (1,4)(2,8)(21,29)(26,31)(30,32), (1,4)(26,31)(26,32)(26,31)(30,32), (1,4)(26,31$ $P_{112} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,2)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(27,32), \\ (1,5)(2,9)(2,31)(3,32)(1,5)(2,9)(2,31)(3,32)(13,17)(16,30)(18,31)(27,32)(13,17)(16,30)(18,31)(27,32)(17,28)(17,28)(18,29)(27,29)(27,28)(27,29)($ $P_{113} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,27)(8,9)(10,30)(11,12)(13,31)(15,16)(17,18)(19,22)(11,24)(12,25)(14,26)(17,28)(12,29)(24,25)(24,27)(21,28)(22,29)(26,31)(30,32), \\ (1,9)(2,12)(24,25)(24,2$ $P_{114} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(17,27)(19,29)(21,30)(23,31)(27,32), \\ (1,5)(2,9)(3,12)(4,14)(6,16)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,4)(2,8)(3,11)(5,14)(6,16)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,4)(2,8)(3,11)(5,14)(6,16)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,4)(2,8)(3,11)(5,14)(6,16)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,4)(2,8)(3,11)(5,14)(6,16)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(17,27)(19,29)(11,24)(12,25)(14,26)(12,25)(14,26)(12,25)(1$ $P_{115} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(17,28)(23,30)(25,31)(27,32), (1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(17,28)(13,24)(16,26)(17,28)(13,24)(16,26)(17,28)(17,2$ $P_{116} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,2)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(23,31)(27,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,17)(16,30)(18,31)(22,26)(23,29)(25,27)]) \\ \cong C2 \times D8 + C_{11} + C_{12} + C_{13} + C$ $P_{117} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,2)(4,25)(4,25)(24,25)$ $P_{118} = Group([(1,6)(2,10)(3,12)(4,12)(5,12)(4,23)(13,24)(16,25)(23,22)(14,26)(17,27)(19,22)(21,23)(23,32)(26,33)(27,32)(14,26)(17,23)(13,24)(16,25)(23,32)(26,33)(27,32)(14,26)(17,27)(19,22)(21,23)(23,32)(26,33)(27,32)(14,26)(17,27)(19,22)(11,23)(13,24)(16,25)(17,27)(19,22)(11,23)(13,24)(19,23)(19,24)(19,$ $N_1 = Group([(1,2)(3,19)(4,8)(5,9)(6,10)(7,13)(11,28)(12,29)(14,20)(15,21)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31)(1,28)(12,29)(14,20)(15,21)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31)(13,24)(16,25)(23,32)(26,30)(27,31)(13,24)(16,25)(23,32)(26,30)(27,31)(13,24)(16,25)(17,24)(18,25)(23,32)(26,30)(27,31)(17,24)(18,25)(23,32)(26,30)(27,31)(17,24)(18,25)(27,24)(18,25)(27,24)(18,27)(18,27)(18,$ $N_2 = Group([(1,2)(3,19)(4,8)(5,9)(6,10)(7,13)(11,28)(12,29)(14,20)(15,21)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31), \\ (1,3)(2,3)(1,2,3)(12,29)(14,20)(15,21)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31), \\ (1,3)(2,3)(1,3)(2,3)(1,2,3)(1,2,3)(1,2,3)(1,2,3)(1,2,3)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)$ $N_3 = Group([(1,2)(3,19)(4,8)(5,9)(6,10)(7,13)(11,28)(12,29)(14,20)(15,21)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31), \\ (1,3)(2,3)(1,2,3)(12,29)(14,20)(15,21)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31), \\ (1,3)(2,3)(1,2,3)(1,2,3)(1,2,3)(1,2,3)(1,2,3)(1,2,3)(13,24)(16,25)(14,26)(17,27)(19,29)(21,30)(24,31)(27,32)] \\ \cong C_2 \times C_2 \times D_3 \times D_3$

 $P_{105} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,2)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(27,32), \\ (1,5)(2,9)(3,12)(4,14)(6,16)(7,13)(11,28)(12,29)(14,20)(15,21)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31)] \cong C2 \times D8$

 $N_4 = Group([(1,2)(3,19)(4,8)(5,9)(6,10)(7,13)(11,28)(12,29)(14,20)(15,24)(16,25)(23,32)(26,30)(27,31)(1,28)(12,29)(14,20)(15,24)(16,25)(23,32)(26,30)(27,31)(1,28)(12,29)(14,20)(15,24)(16,25)(15,26)(17,27)(19,29)(21,30)(25,31)(29,32)(15,24)(16,25)(23,32)(26,31)(29,32)(15,24)(16,25)(23,32)(26,31)(29,32)(15,24)(16,25)(23,32)(26,31)(29,32)(15,24)(16,25)(23,32)(26,31)(29,32)(15,24)(16,25)(23,32)(26,31)(29,32)(15,24)(16,25)(23,32)(26,31)(29,32)(15,24)(16,25)(23,32)(26,31)(29,32)(15,24)(16,25)(23,32)(26,31)(29,32)(15,24)(16,25)(23,32)(26,31)(29,32)(15,24)(16,25)(23,32)(26,31)(29,32)(15,24)(16,25)(23,32)(26,31)(29,32)(15,24)(16,25)(23,32)(26,31)(29,32)(15,24)(16,25)(23,32)(26,31)(29,32)(29,3$ $N_5 = Group([(1,2)(3,19)(4,8)(5,9)(6,10)(7,13)(11,28)(12,29)(24,30)(25,31)(29,32)(15,24)(16,29)(13,24)(16,29)(16$ $N_6 = Group([(1,2)(3,19)(4,8)(5,9)(6,10)(7,13)(14,28)(12,29)(14,20)(15,21)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31), \\ (1,3)(2,7)(4,11)(5,12)(6,13)(4,12)(5,12)(16,22)(17,24)(18,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)($ $N_7 = Group([(1,2)(3,19)(4,8)(5,9)(6,10)(7,13)(11,28)(12,29)(14,20)(15,21)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31), \\ (1,3)(2,7)(4,11)(5,12)(6,13)(4,25)(13,24)(16,25)(16,25)$ $N_8 = Group([(1,8)(2,4)(3,28)(5,20)(6,21)(7,24)(9,14)(10,15)(11,19)(12,32)(13,24)(16,25)(23,32)(26,30)(25,27),
(1,2)(3,12)(4,20)(25,27)(12,23)(13,24)(16,25)(23,27)(24,28)(25,27)(13,24)(16,25)(23,27)(24,28)(25,27)(13,24)(16,25)(17,27)(19,29)(21,30)(24,31)(22,26)(23,27)(24,28)(25,27)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(16,2$ $N_9 = Group([(1,9)(2,5)(3,29)(4,20)(6,22)(7,25)(8,14)(10,16)(11,32)(12,29)(14,20)(15,22)(13,24)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31)(11,28)(12,29)(14,20)(15,21)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31)(11,28)(12,29)(14,20)(15,21)(16,22)(17,24)(18,25)(23,27)(24,28)(25,29)(31,32)(16,29)(16$ $N_{11} = Group([(1,20)(2,14)(3,32)(4,9)(5,8)(6,30)(7,31)(10,26)(11,29)(12,28)(13,27)(15,22)(16,21)(17,25)(18,24)(19,23)(13,27)(15,22)(16,21)(17,25)(18,24)(19,23)(13,27)(15,22)(16,21)(17,25)(18,24)(19,23)(13,27)(15,22)(16,21)(17,25)(18,24)(19,23)(13,27)(19,29)(21,30)(24,31)(28,32)(19,29)(21,30)(25,31)(29,32)$ $N_{12} = Group([(1,2)(3,19)(4,8)(5,9)(6,10)(7,13)(11,28)(12,29)(14,20)(15,21)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31), \\ (1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,5)(2,9)(3,12)(4,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,5)(2,9)(3,12)(4,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,5)(2,9)(3,12)(4,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,5)(2,9)(3,12)(4,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(17,27)(19,29)(21,30)(24,31)(28,32), \\ (1,5)(2,9)(3,12)(4,14)(6,15)(17,27)(19,29)(11,23)(13,24)(16,26)(17,27)(19,29)(11,23)(13,24)(16,26)(17,27)(19,29)(11,23)(13,24)(16,26)(17,27)(19,29)(11,23)(13,24)(16,26)(17,27)(19,29)(11,23)(13,24)(16,26)(17,27)(19,29)(11,23)(13,24)(16,26)(17,27)(19,29)(11,23)(13,24)(16,26)(17,27)(19,29)(11,23)(13,24)(16,26)(17,27)(19,29)(11,23)(13,24)(16,26)(17,27)(19,29)(11,23)(13,24)(16,26)(17,27)(19,29)(11,23)(13,24)(16,26)(17,27)(19,29)(11,23)(13,24)(16,26)(17,27)(19,29)(11,23)(13,24)(16,26)(17,27)(19,29)(11,23)(13,24)(16,26)(17,27)(19,29)(11,23)(13,24)(16,26)(17,27)(19,29)(11,23)(13,24)(16,26)(17,27)(19,29)(11,23)(13,24)(19,29)(11,23)$ $N_{13} =
Group([(1,11)(2,17)(3,4)(5,23)(6,24)(7,8)(9,27)(10,28)(12,14)(13,15)(15,24)$ (5, 2) (24, 20) (24 $V_{15} = Group([(1,3)(2,7)(4,11)(5,12)(6,13)(2,7)(4,11)(5,12)(6,13)(8,17)(9,18)(10,19)(14,23)(15,24)(16,25)(20,27)(21,28)(22,29)(26,31)(30,32), \\ (1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,25)(20,27)(21,28)(22,29)(26,31)(30,32), \\ (1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,25)(20,27)(21,28)(22,29)(26,31)(30,32), \\ (1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,25)(20,27)(21,28)(22,29)(26,31)(30,32), \\ (1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,25)(20,27)(21,28)(22,29)(26,31)(30,32), \\ (1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,25)(20,27)(21,28)(22,29)(26,31)(30,32), \\ (1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,25)(20,27)(21,28)(22,29)(26,31)(30,32), \\ (1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,25)(20,27)(21,28)(22,29)(26,31)(30,24)(16,25)(20,27)(21,28)(22,29)(26,31)(20,27)(21,28)(22,29)(26,31)(20,27)(21,28)(22,29)(26,31)(20,27)(21,28)(22,29)(26,31)(20,27)(21,28)(22,29)(26,31)(20,27)(21,28)(22,29)(26,31)(20,27)(21,28)(22,29)(26,31)(20,27)(21,28)(22,29)(26,31)(20,27)(21,28)(22,29)(26,31)(20,27)(21,28)(22,29)(26,31)(20,27)(21,28)(22,29)(26,31)(20,27)(21,28)(22,29)(22,29)(22,2$ $N_{16} = Group([(1,2)(3,19)(4,8)(5,9)(6,10)(7,13)(11,28)(12,29)(14,20)(15,21)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31),(1,3)(2,7)(4,11)(5,12)(6,13)(8,17)(9,18)(10,19)(14,23)(15,24)(16,25)(13,24)(16,25)(23,32)(26,30)(27,31),(1,3)(2,7)(4,11)(5,12)(6,13)(13,24)(16,25)(17,24)(17,24)$ $C_{1} = C_{1} = C_{2} = C_{2} = C_{3} = C_{3$ $V_{18} =
Group([1,14)(2,20)(3,23)(4,5)(6,26)(7,27)(8,9)(10,30)(21,22)(24,25)(28,29)(1,2)(12,20)(3,23)(4,5)(6,26)(7,27)(8,9)(10,30)(11,12)(13,23)(13,24)(16,26)(17,28)(22,30)(25,31)(27,32)(13,24)(16,26)(17,28)(22,30)(25,31)(27,32)(13,24)(16,26)(17,28)(22,30)(25,31)(27,32)(13,24)(16,26)(17,28)(22,30)(25,31)(27,32)(13,24)(16,26)(17,28)(22,30)(25,31)(27,32)(13,24)(16,26)(17,28)(22,30)(25,31)(27,32)(13,24)(16,26)(17,28)(12,29)(14,20)(15,21)(16,26)(17,28)(12,29)(14,20)(15,21)(16,26)(17,28)(17$ $Frac{1}{2} Frac{1}{2} Frac{1}{2$ $V_{20} = Group([(1,3)(2,7)(4,11)(5,12)(6,13)(2,7)(4,11)(5,12)(6,13)(8,17)(9,18)(10,12)(11,23)(13,24)(16,25)(22,29)(26,31)(30,32), \\ (1,5)(2,29)(21,30)(24,31)(25,21)(12,23)(13,24)(16,25)(12,23)(12,23)(13,24)(16,25)(12,23)(13,24)(16,25)(12,23)(13,24)(16,25)(12,23)(13,24)(16,25)(12,23)(13,24)(16,25)(12,23)(13,24)(16,25)(12,23)(13,24)(16,25)(12,23)(13,24)(16,25)(12,23)(13,24)(16,25)(12,23)(13,24)(16,25)(12,23)(12,$ $V_{21} = Group([(1,3)(2,7)(4,11)(5,12)(6,13)(2,7)(4,11)(5,12)(6,13)(8,17)(9,18)(10,12)(11,23)(13,24)(16,25)(22,29)(26,31)(30,32), \\ (1,4)(2,8)(3,11)(5,14)(6,15)(7,27)(19,29)(21,30)(24,31)(25,24)(16,25)(22,29)(26,31)(30,32), \\ (1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,25)(22,29)(26,31)(30,32), \\ (1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,25)(22,29)(26,31)(30,32), \\ (1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,25)(16$ $V_{22} = Group([(1,12)(2,18)(3,5)(4,23)(6,25)(7,9)(8,27)(10,29)(11,14)(13,16)(15,31)(17,20)(19,22)(21,32)(24,26)(28,30), (1,6)(2,10)(3,13)(4,15)(5,16)(7,17)(9,20)(10,21)(12,23)(13,24)(16,25)(23,32)(26,30)(27,31), (1,3)(2,7)(4,11)(5,12)(6,13)(4,25)(23,32)(26,30)(27,31), (1,3)(2,7)(4,11)(5,12)(6,13)(4,25)(23,32)(26,30)(27,31), (1,3)(2,7)(4,11)(5,12)(6,13)(4,25)(23,32)(26,30)(27,31), (1,3)(2,7)(4,11)(5,12)(6,13)(4,25)(23,32)(26,30)(27,31), (1,3)(2,7)(4,11)(5,12)(6,13)(4,25)(23,32)(26,30)(27,31), (1,3)(2,7)(4,11)(5,12)(6,13)(4,25)(23,32)(26,30)(27,31), (1,3)(2,7)(4,11)(5,12)(6,13)(4,25)(23,32)(26,30)(27,31), (1,3)(27,32)(16,22)(17,24)(16,25)(17,24$ F(x,y,y,z) =
Group([(1,15)(2,21)(3,24)(4,6)(5,26)(7,29)(4,10)(1,23)(14,16)(17,32)(18,19)(20,21)(23,24)(27,28)(14,20)(15,21)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31)(14,16)(17,19)(18,32)(20,22)(23,25)(27,29)(14,20)(15,21)(16,22)(17,24)(18,25)(23,24)(27,28)(14,20)(15,21)(16,22)(17,24)(18,25)(23,24)(27,28)(14,26)(15,24)(16,22)(17,24)(18,25)(23,24)(27,28)(17,24)(18,25)(23,24)(27,28)(18,24)(18 $N_{24} = Group([(1,29,6,18)(2,25,10,12)(3,9,13,22)(4,32,15,27)(5,19,16,7)(9,20)(14,20)(15,21)(6,23)(14,26)(17,28)(12,23)(14,26)(17,24)(16,25)(24,30)(25,31)(27,32)(14,26)(17,24)(16,25)(24,30)(25,31)(27,32)(16,22)(17,24)(16,25)(24,30)(25,31)(27,32)(16,22)(17,24)(16,25)(24,30)(25,31)(27,32)(16,22)(17,24)(16,25)(24,30)(25,31)(27,32)(16,22)(17,24)(16,25)(24,30)(25,31)(27,32)(16,22)(17,24)(16,25)(24,30)(25,31)(27,32)(16,22)(17,24)(16,25)(24,30)(25,31)(27,32)(16,22)(17,24)(16,25)(24,30)(25,31)(27,32)(16,22)(17,24)(16,25)(24,30)(25,31)(27,32)(16,22)(17,24)(16,25)(24,30)(25,31)(27,32)(16,22)(17,24)(16,25)(16,23)(16,24)(16,25)(16,24$ $N_{25} = Group([(1,3)(2,7)(4,11)(5,12)(6,13)(8,27)(4,11)(5,12)(6,13)(8,17)(9,18)(10,19)(14,23)(15,24)(16,25)(20,27)(21,28)(22,30)(25,31)(29,32), \\ (1,5)(2,9)(2,30)(25,31)(29,32), (1,5)(2,9)(21,30)(24,31)(25,32)(15,24)(16,25)(20,27)(21,28)(22,30)(25,31)(29,32), \\ (1,5)(2,9)(2,30)(25,31)(29,32), (1,5)(2,9)(21,30)(24,31)(25,24)(16,25)(20,27)(21,28)(22,30)(25,31)(29,32), \\ (1,5)(2,9)(21,30)(24,31)(24$ $N_{28} = Group([(1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,25)(23,32)(26,30)(27,31),(1,3)(2,7)(4,11)(5,12)(6,13)(12,23)(13,24)(16,25)(23,24)(27,28),(1,2)(3,24)(16,25)(23,24)(27,28),(1,2)(3,24)(16,25)(23,24)(27,28),(1,2)(3,24)(16,25)(23,24)(27,28),(1,2)(3,24)(16,25)(23,24)(27,28),(1,2)(3,24)(16,25)(23,24)(27,28),(1,2)(3,24)(27,28),(1,2)(3,24)(27,28),(1,2)(3,24)(27,28),(1,2)(3,24)(27,28),(1,2)(27,28)(27,28),(1,2)(27,28),(1,2)(27,28)(27,28),(1,2)(2$ F(x,y) =
Group([(1,15)(2,21)(3,24)(4,6)(5,26)(7,28)(4,10)(9,13)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32)(15,24)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31)(14,16)(17,19)(18,32)(20,22)(23,25)(27,29)(14,20)(15,24)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31)(14,16)(17,19)(18,32)(20,22)(23,25)(27,29)(14,20)(15,24)(16,22)(17,24)(18,25)(23,22)(23,25)(27,29)(14,20)(15,24)(16,22)(17,24)(18,25)(23,22)(23,25)(27,29)(14,20)(15,24)(16,22)(17,24)(18,25)(23,22)(23,25)(27,29)(14,20)(15,24)(16,22)(17,24)(18,25)(23,24)(16,22)(17,24)(18,25)(23,24)(16,22)(17,24)(18,25)(23,24)(16,22)(17,24)(18,25)(23,24)(16,22)(17,24)(18,25)(23,24)(16,22)(17,24)(18,25)(23,24)(16,22)(17,24)(18,25)(23,24)(16,22)(17,24)(18,25)(18,24) $C_{1}(1,1,2,3) = C_{2}(1,2,3) = C_{3}(1,2,3) = C_$ $I_{32} = Group([(1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(17,27)(19,29)(21,30)(25,31)(29,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,24)(16,26)(18,27)(19,28)(22,29)(26,31)(30,32)] \cong C2 \times C2 \times D8$ $I_{33} = Group([(1,11)(2,17)(3,4)(5,23)(6,24)(7,8)(9,27)(10,28)(12,24)(13,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(19,21)(12,23)(25,26)(29,30), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(19,21)(12,23)(13,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(19,21)(12,23)(13,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(19,21)(12,23)(13,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), (1,5)(29,20)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), (1,5)(29,20)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), (1,5)(29,20)(21,30)$ $I_{34} = Group([(1,11)(2,17)(3,4)(5,23)(6,24)(7,8)(9,27)(10,28)(12,14)(13,15)(16,31)(18,20)(19,21)(23,24)(27,28), (1,3)(2,7)(4,11)(5,12)(6,13)(18,20)(19,21)(23,24)(27,28), (1,3)(24,31)(18,20)(19,21)(23,24)(27,28), (1,3)(24,31)(24,3$ 35 = Group([(1,20)(2,14)(3,32)(4,9)(5,16)(2,29)(14,20)(15,24)(16,25)(23,32)(26,30)(27,31),(1,2)(15,24)(16,25)(23,32)(26,30)(27,31),(1,2)(15,24)(16,25)(14,26)(17,28)(12,29)(14,20)(15,24)(16,25)(14,26)(17,28)(12,29)(14,20)(15,24)(16,25)(14,26)(17,28)(12,29)(14,20)(15,24)(16,25)(14,26)(17,28)(12,29)(14,20)(15,24)(16,25)(14,26)(17,28)(12,29)(14,20)(15,24)(16,25)(14,26)(17,28)(12,29)(14,20)(15,24)(16,25)(16, $I_{36} = Group([(1,11)(2,17)(3,4)(5,23)(6,24)(7,8)(9,27)(10,28)(12,14)(13,15)(6,31)(17,20)(19,21)(22,32)(25,26)(29,30), (1,12)(2,18)(3,5)(4,23)(6,25)(7,9)(8,27)(10,28)(12,14)(13,15)(16,31)(17,20)(19,22)(21,32)(22,29)(26,31)(30,32),
(1,12)(2,18)(3,23)(21,24)(12,25)(14,26)(17,28)(12,24)(12,25)(14,26)(17,28)(12,24)(12,25)(14,26)(17,28)(12,24)(12,25)(14,26)(17,28)(12,24)(12,25)(14,26)(17,28)(18,29)(21,24)(12,25)(14,26)(17,28)(18,29)(21,24)(12,25)(14,26)(17,28)(18,29)(21,24)(18,29)(21,24)(18,29)(21,24)(18,24)(1$ $I_{37} = Group([(1,24)(2,28)(3,15)(4,13)(5,31)(6,11)(7,21)(8,19)(9,32)(10,17)(12,26)(14,25)(22,30)(25,31)(29,32)(10,17)(12,26)(14,25)(16,23)(18,30)(20,29)(22,27), (1,12)(2,18)(3,5)(4,23)(6,25)(7,9)(8,27)(10,29)(11,14)(13,16)(15,31)(17,20)(19,22)(21,32)(24,26)(28,30), (1,3)(2,7)(4,11)(5,12)(6,13)(8,17)(9,18)(10,19)(12,23)(13,24)(16,25)(12,23)(13,24)(16,25)(12,23)(13,24)(16,25)(12,23)(13,24)(16,25)(12,23)(13,24)(16,25)(12,23)(13,24)(16,25)(12,23)(13,24)(16,25)(12,23)(13,24)(16,25)(12,23)(13,24)(16,25)(12,23)(13,24)(16,25)(12,23)(13,24)(16,25)(12,23)(13,24)(16,25)(12,23)(13,24)(16,25)(12,23)(13,24)(16,25)(12,23)(13,24)(16,25)(12,23)(13,24)(16,25)(12,23)$ $I_{38} = Group([(1,2)(3,19)(4,8)(5,9)(6,10)(7,13)(11,28)(12,29)(14,20)(15,21)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31), (1,26)(2,30)(3,31)(4,16)(5,15)(6,14)(7,32)(13,24)(16,26)(17,27)(19,29)(14,20)(15,21)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31), (1,26)(2,30)(23,31)(4,16)(5,15)(6,14)(7,32)(13,24)(16,26)(17,27)(19,29)(14,20)(15,21)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31), (1,26)(2,30)(27,31), (1,26)(2,30)(27,31), (1,26)(2,30)(27,31), (1,26)(2,30)(27,31), (1,26)(27,31)(17,29)(18,28)(17,29)(18,28)(17,29)(18,28)(19,27), (1,26)(27,31)(17,29)(18,28)(17,29)(18,28)(17,29)(18,28)(17,29)(18,28)(17,29)(18,28)(17,29)(18,28)(17,29)(18,28)(17,29)(18,28)(17,29)(18,28)(19,29)$ $I_{39} = Group([(1,3)(2,7)(4,11)(5,12)(6,13)(8,17)(9,18)(10,19)(14,23)(15,24)(16,25)(20,27)(21,28)(22,29)(26,31)(30,32), \\ (1,4)(2,20)(3,23)(4,5)(6,26)(7,27)(8,9)(10,30)(11,12)(13,31)(15,16)(17,18)(19,32)(12,23)(13,24)(16,25)(20,27)(21,28)(22,29)(26,31)(30,32), \\ (1,4)(2,20)(3,23)(4,5)(6,26)(7,27)(8,9)(10,32)(12,23)(13,24)(16,25)(22,29)(26,31)(20,23)(13,24)(16,25)(22,29)(26,31)(20,23)(21,22)(24,25)(22,29)(26,31)(20,23)(21,22)(24,25)(22,29)(26,31)(20,23)(21,22)(24,25)(22,29)(26,31)(20,23)(21,22)(24,25)(22,29)(26,31)(23,24)(24,25)(24,2$ $I_{40} = Group([(1,3)(2,7)(4,11)(5,12)(6,13)(8,27)(4,11)(5,12)(6,13)(8,27)(1,28)(12,24)(13,23)(15,24)(16,25)(22,29)(26,31)(30,32), \\
I_{41}(1,23)(13,24)(16,25)(12,24)(13,23)(13,24)(16,25)(12,24)(13,23)(13,24)(16,25)(12,24)(13,23)(13,24)(16,25)(12,24)(13,23)(13,24)(16,25)(12,24)(13,23)(13,24)(16,25)(12,24)(13,23)(13,24)(16,25)(12,24)(13,23)(13,24)(16,25)(12,24)(13,23)(13,24)(16,25)(12,24)(13,23)(13,24)(16,25)(12,24)(13,23)(13,24)(16,25)(12,24)(13,23)(13,24)(16,25)(12,24)(13,23)(13,24)(16,25)(12,24)(13,23)(13,24)(16,25)(12,24)(13,23)(13,24)(16,25)(12,24)(13,23)(13,24)(16,25)(12,24)(12,24)(13,24)(16,25)(12,24)(1$ $I_{44} = Group([(1,23)(2,27)(3,14)(4,12)(5,11)(6,31)(7,20)(8,18)(9,17)(10,32)(13,24)(16,25)(23,32)(26,30)(27,31),(1,2)(3,12)(15,24)(16,25)(16,24)(19,22)(11,24)(12,25)(14,26)(15,24)(16,25)(23,32)(26,30)(27,31),(1,2)(21,24)(12,25)(14,26)(15,25)(16,24)(19,26)(15,25)(16,24)(19,26)(15,25)(16,24)(19,26)(15,25)(16,24)(19,26)(15,25)(16,24)(19,26)(17,24)(19,26)(19$ $I_{43} = Group([(1,2)(3,19)(4,8)(5,9)(6,10)(7,13)(14,28)(12,29)(14,20)(15,24)(16,25)(23,32)(26,30)(27,31),(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(12,23)(13,24)(16,25)(16,25)$ $I_{44} = Group([(1,8)(2,4)(3,28)(5,20)(6,21)(7,24)(9,14)(10,15)(11,28)(12,29)(23,24)(27,28), (1,2)(3,29)(25,27), (1,16)(2,22)(3,25)(4,26)(5,20)(6,21)(7,24)(9,14)(10,15)(11,28)(12,29)(24,20)(25,27), (1,16)(2,22)(3,22)(25,27), (1,16)(2,22)(3,22)(25,27), (1,16)(2,22)(3,22)(25,27), (1,16)(2,22)(3,22)(25,27), (1,16)(2,22)(3,23)(25,27), (1,16)(2,22)(3,22)(25,27), (1,16)(2,22)(3,22)(25,$ $I_{46} = Group([(1,2)(3,19)(4,8)(5,9)(6,10)(7,13)(11,28)(12,29)(14,20)(15,21)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31), (1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(28,32), (1,6)(2,10)(3,13)(4,15)(5,16)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(17,27)(19,29)(21,30)(24,31)(28,32), (1,6)(2,10)(3,13)(4,15)(5,16)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(17,27)(19,29)(21,30)(24,31)(28,32),
(1,6)(2,10)(3,13)(4,15)(5,16)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(17,27)(19,29)(11,24)(12,23)(13,24)(16,26)(17,28)(17,24)(17,$ $C_{1}(1,1,2,3) = C_{2}(1,2,3) = C_{3}(1,2,3) = C_$ $V_{49} = Group([(1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,25)(23,32)(26,30)(27,31),(1,2)(2,30)(25,31)(29,32)(15,24)(16,25)(12,20)(13,24)(16,25)(16,24)(16,25)(16,24)(16,24)(16,24)(16,24)(16,24)(16,24)(1$ $I_{50} = Group([(1,21)(2,15)(3,17)(4,10)(5,30)(6,8)(7,11)(9,26)(12,27)(13,28)(14,22)(16,20)(18,23)(19,24)(25,32)(29,31), (1,9)(2,5)(3,29)(4,20)(6,22)(7,25)(8,14)(10,16)(11,32)(12,23)(13,24)(16,20)(18,27)(19,28)(22,30)(25,31)(29,31), (1,9)(2,5)(3,29)(4,20)(6,20)(7,31), (1,9)(2,5)(3,29)(4,20)(6,20)(6,20)(7,20)(6,20)(7,20)(6,20)(7,20)(6,20)(7,20)(6,20)(7,20)(6,20)(7,20)(6,20)(7,20)(6,20)(7,20)(6,20)(7,20)(6,20)(7,20)(6,20)(7,20)(6,20)(7,20)(6,20)(7,20)(6,20)(7,20)(6,20)(7,20)(6,20)(7,20)(6,20)(7,20)(6,20)(7,20)($ $I_{51} = Group([(1,2)(3,19)(4,8)(5,9)(6,10)(7,13)(11,28)(12,29)(14,20)(15,21)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31), (1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(17,27)(19,29)(21,30)(24,31)(27,32)] \\ \cong C_{2} \times C_{2}$ $I_{52} = Group([(1,2)(3,19)(4,8)(5,9)(6,10)(7,13)(11,28)(12,29)(14,20)(15,21)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31), (1,15)(2,21)(3,24)(4,6)(5,26)(7,28)(8,10)(9,30)(11,13)(12,21)(13,24)(4,6)(5,26)(7,28)(8,10)(9,30)(11,13)(12,21)(13,24)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31), (1,15)(2,21)(3,24)(4,6)(5,26)(7,28)(8,10)(9,30)(11,13)(12,21)(13,24)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31), (1,15)(2,21)(3,24)(4,6)(5,26)(7,28)(8,10)(9,30)(11,13)(12,21)(13,24)(16,22)(17,24)(18,25)(23,24)(16,22)(17,24)(18,25)(23,24)(16,22)(17,24)(18,25)(23,24)(16,24$ $I_{53} = Group([(1,8)(2,4)(3,28)(5,20)(6,21)(7,24)(9,14)(10,15)(11,28)(12,29)(14,20)(15,21)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31), (1,3)(2,26)(23,29)(26,31)(27,32), (1,3)(2,3)(13,25)(15,24)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31), (1,3)(2,26)(23,29)(26,31)(27,32), (1,3)(24,31)(28,32)(26,30)(27,31), (1,3)(24,31)(28,32)(26,30)(27,31), (1,3)(24,31)(28,32)(26,30)(27,31), (1,3)(28,32)(26,30)(27,31),
(1,3)(28,32)(28,$ (4, 14)(6, 16)(7, 18)(8, 20)(10, 22)(11, 23)(13, 25)(15, 26)(17, 27)(19, 29)(21, 30)(25, 31)(27, 32), (1, 2)(25, 32)(26, 30)(27, 31), (1, 2)(25, 32)(26, 32)5. 20/(6, 21)(7, 24)(9, 14)(10, 15)(11, 19)(12, 32)(13, 17)(16, 20)(17, 24)(19, 12)(11, 24)(12, 26)(23, 29)(24, 27), (1, 2)(1, 24)(12, 26)(23, 24)(24, 27), (1, 2)(13, 14)(12, 26)(23, 24)(13, 14)(14, 26)(17, 28)(18, 24)(19, 24)(1 $I_{56} = Group([(1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,26)(17,24)(12,23)(13,24)(16,26)(17,24)(12,23)(13,24)(16,26)(17,24)(12,23)(13,24)(16,26)(17,24)(12,23)(13,24)(16,26)(17,24)(12,23)(13,24)(16,26)(17,24)(18,25)(23,24)(16,26)(17,24)(18,25)(23,24)(16,26)(17,24)(18,25)(23,24)(16,26)(17,24)(18,25)(23,24)(16,26)(17,24)(18,25)(23,24)(16,26)(17,24)(18,25)(23,24)(16,26)(17,24)(18,25)(23,24)(16,26)(17,24)(18,25)(23,24)(16,26)(17,24)(18,25)(23,24)(16,26)(17,24)(18,25)(23,24)(18,25)$ $C_{1}(1,1,2,3) = C_{2}(1,2,3) = C_{3}(1,2,3) = C_$ $C_{1}(1,1,2,3)(1,1,2,3)(1,1,3)(1,2,3)(1,2,3)(1,3,$ $I_{62} = Group([(1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,25)(23,23)(25,31)(27,32), (1,9)(2,5)(3,29)(4,20)(6,23)(25,31)(27,32), (1,9)(2,5)(3,29)(4,20)(6,23)(25,31)(27,32), (1,9)(2,5)(3,29)(4,20)(6,23)(25,31)(27,32), (1,9)(2,5)(3,29)(4,20)(6,23)(25,31)(27,32), (1,9)(2,5)(3,29)(4,20)(6,23)(25,31)(27,32), (1,9)(2,5)(3,29)(4,20)(25,31)(27,32), (1,9)(25,31)(27,32), (1,9)(25,31)(27,32), (1,9)(25,31)(27,32), (1,9)(25,31)(27,32), (1,9)(25,31)(27,32), (1,9)(25,31)(27,32), (1,9)(25,31)(27,32), (1,9)(25,31)(27,32), (1,9)(25,31)(27,32), (1,9)(25,31)(27,32), (1,9)(25,31)(27,32), (1,9)(25,31)(27,32), (1,9)(25,31)(27,32), (1,9)(25,31)(27,32),
(1,9)(25,31)(27,32), (1,9)(25,31)(27,32),$ $N_{63} = Group([(1,2)(3,19)(4,8)(5,9)(6,10)(7,13)(11,28)(12,29)(14,20)(15,24)(16,25)(23,32)(26,31)(27,32), (1,5)(2,9)(21,28)(22,29)(26,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(2,9)(21,30)(24,31)(27,32), (1,5)(27,32)(27,32), (1,5)(27,32)(27,32), (1,5)(27,32)(27,32), (1,5)(27,32)(27$ $C_{2} = C_{2} = C_{2} = C_{2} = C_{3} = C_{3$ $C_{1}(1,1,2,3) = C_{1}(1,2,3) = C_{2}(1,2,3) = C_{3}(1,2,3) = C_$ $N_{67} = Group([(1,11)(2,17)(3,4)(5,23)(6,24)(7,8)(9,27)(10,28)(12,24)(13,24)(13,25)(24,26)(23,23)(25,26)(29,30), (1,12)(2,13)(24,26)(23,23)(25,26)(29,30), (1,12)(2,13)(24,26)(23,23)(25,26)(29,30), (1,12)(2,13)(24,26)(23,23)(25,26)(29,30), (1,12)(2,13)(24,26)(23,23)(25,26)(29,30), (1,12)(2,13)(24,26)(23,23)(25,26)(29,30), (1,12)(2,13)(24,26)(23,23)(25,26)(29,30), (1,12)(2,13)(24,26)(23,23)(25,26)(29,30), (1,12)(2,13)(24,26)$ $N_{68} = Group([(1,11)(2,17)(3,4)(5,23)(6,24)(7,8)(9,27)(10,28)(12,29)(21,20)(23,2)(25,26)(29,30), (1,5)(2,29)(21,20)(25,26)(29,30), (1,5)(2,29)(21,20)(25,26)(29,30), (1,5)(2,29)(21,20)(25,26)(29,30), (1,5)(2,29)(21,20)(25,26)(29,30), (1,5)(2,29)(21,20)(25,26)(29,30), (1,5)(2,29)(21,20)(25,26)(29,30), (1,5)(2,29)(21,20)(25,26)(29,30), (1,5)(2,29)(21,20)(25,26)(29,30), (1,5)(2,29)(21,20)(25,26)(29,30), (1,5)(2,29)(21,20)(25,26)(29,30), (1,5)(2,29)(21,20)(25,26)(29,30), (1,5)(25,20)(25,26)(25,20), (1,5)(25,20)(25,20)(25,20), (1,5)(25,20)(25,2$ $N_{69} = Group([(1,2)(3,19)(4,8)(5,9)(6,10)(7,13)(11,28)(12,29)(14,20)(15,21)(15,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(13,24)(16,25)(14,26)(17,28)(12,29)(14,28)(12,29)(14,28)$ $C_{1}(1,1,2,3) = C_{1}(1,2,3) = C_{2}(1,3) = C_{3}(1,3) = C_{3}(1,3)$ (7, 2)(1,
2)(1, 2)(1,

 $C_{1}(1,1,2,3)(1,2,3)$ $C_{1}(1,1,2,3)(1,1,2,3)(1,2,$ (1, 2, 3, 1, 2, 3, 1, 2, 3, 1, 3, 1, 2, 3, 1, $C_{1}(1,1,2,3)(1,2,3)$ F(x,y,z) = G(x,y,z) $N_{82} = Grow([1,8)(2,4)(3,28)(5,20)(6,21)(7,24)(9,22)(11,24)(12,25)(14,26)(17,24)(13,24)(1$ $N_{89} = Grow([(1,28,6,17)(2,24,10,11)(3,8,13,21)(4,19,15,7)(5,32,16,27)(9,11,24)(12,25)(14,20)(15,21)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31), (1,3)(2,7)(4,11)(5,12)(6,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,24)(18,25)(23,21)(27,24)(18,25)(28,21)(18,29)(28,29$ $S_{N_0} = Grow([1,3)(2,7)(4,11)(5,12)(6,13)(2,7)(4,11)(5,12)(6,13)(2,7)(4,11)(5,12)(6,13)(2,2)(12,2)$ $S_{1} = Group([(1,2)(3,19)(4,8)(5,9)(2,30)(25,31)(14,20)(15,21)(14,20)$ $C_{1}(1,1,2,3) = C_{2}(1,2,3) = C_{3}(1,2,3) = C_$ $N_{95} = Group([1,3)(2,7)(4,11)(5,12)(6,13)(2,7)(4,11)(5,12)(6,13)(8,17)(9,18)(10,19)(14,23)(15,24)(16,25)(20,27)(21,28)(22,29)(23,25)(27,29), \\ (1,15)(2,21)(3,24)(4,6)(5,20)(2,23)(13,24)(16,25)(20,27)(21,28)(22,29)(23,25)(27,29), \\ (1,15)(2,21)(3,24)(4,6)(5,20)(4,25)(4,20)(4,25)(22,29)(23,25)(27,29), \\ (1,15)(2,21)(3,24)(4,6)(5,20)(4,25)(22,29)(23,25)(27,29), \\ (1,15)(2,21)(3,24)(4,6)(5,20)(4,25)(22,29)(23,25)(27,29), \\ (1,15)(2,21)(3,24)(4,25)(22,29)(23,25)(27,29), \\ (1,15)(2,21)(3,24)(4,25)(22,29)(23,25)(27,29), \\ (1,15)(2,21)(3,24)(4,25)(22,29)(23,25)(27,29), \\ (1,15)(2,21)(3,24)(4,25)(22,29)(23,25)(27,29), \\ (1,15)(2,21)(3,24)(4,25)(22,29)(23,25)(27,29), \\ (1,15)(2,21)(3,24)(4,25)(22,29)(23,25)(27,29), \\ (1,15)(2,21)(3,24)(27,29), \\ (1,15)(2,21)(27,29), \\ (1,15)(2,21)(27,29), \\ (1,15)(2,21)(27,29), \\ (1,15)(2,21)(27,29), \\ (1,15)(2,21)(27,29), \\ (1,15)(2,21)(27,29), \\ (1,15)(2,21)(27,29), \\ (1,15)(2,21)(27,29), \\ (1,15)(2,2$ $C_{2} = C_{2} = C_{2$ $C_{2} = C_{2} = C_{2$ $C_{1}(1,1,2,3) = C_{2}(1,1,2,3) = C_{3}(1,1,2,3) = C_{3$ $N_{99} = Group([(1,2)(3,19)(4,8)(5,9)(6,10)(7,13)(11,28)(12,29)(14,20)(15,21)(16,22)(23,25)(27,29),(1,16)(2,21)(3,24)(16,26)(15,21)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31),(1,15)(2,21)(3,24)(4,6)(5,26)(7,28)(8,10)(9,30)(11,13)(12,13)(14,15)(17,29)(18,20)(19$

 $N_{114} = Group([(1,19,6,7)(2,13,10,3)(4,28,15,17)(5,29,16,18)(4,24)(11,28)(13,24)(16,26)(17,27)(19,29)(21,30)(25,31)(29,32), \\ (1,5)(2,9)(3,12)(4,12)(2,32)(13,24)(16,22)(17,24)(18,25)(23,32)(26,30)(25,31)(29,32), \\ (1,5)(2,9)(3,12)(4,12)(2,32)(13,24)(16,22)(17,24)(18,25)(13,24)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31)] \cong C2 \times C2 \times D8 \\ (1,5)(2,12)(1,23)(13,24)(16,22)(17,24)(18,25)(13,24)(16,22)(17,24)(18,25)(17,24)(18,25)(17,24)(18,25)(17,24)(18,25)(18,24)(18,25)(18,24)(18,25)(18,24)(18,25)(18,24)(18,25)(18,24)(18,25)(18,24)(18,25)(18,24)(18,25)(18,24)(18,25)(18,24)(18,25)(18,24)(18,25)(18,24)(18,25)(18,24)(18,25)(18,24)(18,24)(18,25)(18,24)$ $N_{115} = Group([(1, 9)(2, 5)(3, 29)(4, 20)(6, 22)(7, 25)(8, 14)(10, 16)(17, 20)(19, 22)(21, 32)(24, 26)(28, 30), (1, 4)(2, 8)(3, 24)(16, 20)(17, 24)(18, 25)(23, 32)(26, 30)(27, 31)(27, 23)(18, 24)(16, 26)(17, 24)(18, 25)(23, 32)(26, 30)(27, 31)(27, 24)(18, 25)(23, 32)(26, 30)(27, 31)(27, 24)(18, 25)(23, 32)(26, 30)(27, 31)(27, 24)(18, 25)(23, 32)(26, 30)(27, 31)(27, 32$ $N_{117} = Group([(1,9)(2,5)(3,29)(4,20)(6,22)(7,25)(8,14)(10,16)(11,32)(12,19)(13,18)(15,30)(17,31)(15,16)(17,18)(19,32)(21,22)(24,25)(28,29), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,27)(10,29)(11,14)(13,16)(15,31)(17,20)(19,22)(21,32)(24,25)(28,29), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,27)(10,29)(11,14)(13,16)(15,31)(17,20)(19,22)(21,32)(24,26)(28,29), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,27)(10,29)(11,14)(13,16)(15,16)(17,18)(19,22)(11,14)(13,16)(15,16)(17,18)(19$ $N_{118} = Group([(1,2)(3,19)(4,8)(5,9)(6,10)(7,13)(11,28)(12,29)(14,20)(15,21)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31), (1,3)(2,7)(4,11)(5,12)(6,13)(27,32)]) \\ \cong C2 \times C2 \times D89(20,30)(23,31)(27,32)]) \\ \cong C2 \times C2 \times D89(20,30)(23,31)(27,32)]) \\ \cong C3 \times C2 \times D89(20,30)(23,31)(27,32)]) \\ \cong C4 \times C2 \times D89(20,30)(23,31)(27,32)]$

 $N_{101} = Group([(1,19,6,7)(2,13,10,3)(4,28,15,17)(5,29,16,18)(4,28)(17,29)(14,29)(1$ $N_{102} = Group([(1,2)(3,19)(4,8)(5,9)(6,10)(7,13)(14,28)(12,29)(14,20)(15,21)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31), \\ (1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31), \\ (1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31), \\ (1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31), \\ (1,4)(2,8)(3,11)(5,14)(6,15)(7,17)(9,20)(10,21)(12,23)(13,24)(16,22)(17,24)(18,25)(18,25)(18,25)(18,25)(18,25)(18,25)(18,25)(18,2$ $N_{103} = Group([(1,2)(3,19)(4,8)(5,9)(6,10)(7,13)(11,28)(12,29)(14,20)(15,21)(16,22)(17,24)(18,29)(23,30)(25,31)(27,32), \\ (1,3)(2,7)(4,11)(5,12)(6,13)(4,15)(5,16)(7,17)(9,20)(10,21)(12,23)(13,24)(16,25)(23,32)(26,30)(27,31), \\ (1,3)(2,7)(4,11)(5,12)(6,13)(4,15)(5,16)(7,17)(9,20)(10,21)(12,23)(13,24)(16,25)(23,29)(26,31)(30,32)] \cong C2 \times C2 \times D3(13,24)(16,25)(17,27)(19,29)(21,30)(24,31)(27,32), \\ (1,3)(2,7)(4,11)(5,12)(6,13)(4,15)(5,16)(7,17)(9,20)(10,21)(12,23)(13,24)(16,25)(17,27)(19,29)(21,30)(24,31)(27,32), \\ (1,3)(2,7)(4,11)(5,12)(6,13)(4,15)(5,16)(7,17)(9,20)(10,21)(12,23)(13,24)(16,25)(17,27)(19,29)(11,24)(12,25)(14,26)(17,27)(19,29)(11,24)(12,25)(12,29)(12,$ $\{f_{1}, f_{2}, f_{3}, f_{4}, f_{5}, f_{5},$ $N_{105} = Group([(1,2)(3,19)(4,8)(5,9)(6,10)(7,13)(14,28)(12,29)(14,20)(15,21)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31), (1,11)(2,17)(3,4)(5,23)(6,24)(7,8)(9,27)(10,28)(12,29)(26,31)(30,32)] \\ \cong C2 \times C2 \times D80((10,2)(11,23)(13,25)(15,24)(16,25)(14,20)(15,21)(16,22)(17,24)(18,25)(26,31)(27,32)(16,22)(17,24)(18,25)(26,31)(27,32)(16,22)(17,24)(18,25)(26,31)(27,32)(16,22)(17,24)(18,25)(26,31)(27,32)(16,22)(17,24)(18,25)(26,31)(27,32)(16,22)(17,24)(18,25)(26,31)(27,32)(17,24)(18,25)(27,24)(18,25)(18,25)(18,25)(18,25)(18,25)(18,25)(18,25)(18,25)(18,25)(18,25)($ $N_{106} = Group([(1,2)(3,19)(4,8)(5,9)(21,20)(13,$ $N_{108} = Group([(1,2)(3,19)(4,8)(5,9)(2,29)(24,25)(28,29),(1,3)(2,29)(24,25)(28,29),(1,4)(2,29)(24,25)(28,29),(1,4)(2,29)(24,25)(28,29),(1,4)(2,29)(24,25)(28,29),(1,4)(2,29)(24,25)(28,29),(1,4)(2,29)(24,25)(28,29),(1,4)(2,29)(24,25)(28,29),(1,4)(2,29)(24,25)(28,29),(1,4)(2,29)(24,25)(28,29),(1,4)(2,29)(24,25)(28,29),(1,4)(2,29)(24,25)(28,29),(1,4)(2,29)(24,25)(28,29),(1,4)(2,29)(24,25)(28,29),(1,4)(2,29)(24,25)(28,29),(1,4)(2,29)(24,25)(28,29),(1,4)(28,29)(24,25)(28,29),(1,4)(28,29)(24,25)(28,29),(1,4)(28,29)(24,25)(28,29),(1,4)(28,29)(24,25)(28,29),(1,4)(28,29),(1,4)(28,29)(28,29),(1,4)(28$ $N_{109} = Group([(1,2)(3,19)(4,8)(5,9)(6,10)(7,13)(14,28)(12,29)(14,20)(15,24)(16,23)(16,23$ $N_{110} = Group([(1,2)(3,19)(4,8)(5,9)(6,10)(7,13)(14,28)(12,29)(14,20)(15,24)(16,25)(23,32)(26,30)(27,31)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,27)(19,29)(21,30)(24,31)(25,32)(26,30)(27,31)(13,24)(16,25)(15,26)(17,27)(19,29)(21,30)(24,31)(25,32)(26,30)(27,31)(13,24)(16,25)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31)(13,24)(16,25)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31)(27,32)(17,24)(18,25)(27,32)(17,24)(18,25)(27,32)(17,24)(18,25)(27,32)(17,24)(18,25)(27,32)(17,24)(18,25)(27,32)(17,24)(18,25)(27,32)(17,24)(18,25)(27,32)(17,24)(18,25)(27,32)(17,24)(18,25)(27,32)(17,24)(18,25)(27,32)(17,24)(18,25)(27,32)(17,24)(18,25)(27,32)(17,24)(18,25)(27,32)(17,24)(18,25)(27,32)(17,24)(18,25)(27,32)(17,24)(18,25)(27,32)(17,24)(18,25)(27,32)(17,24)(18,25)(17,24)(17,$ $N_{111} = Group([(1, 9)(2, 5)(3, 29)(4, 20)(6, 12)(1, 24)(12, 23)(13, 24)(16, 25)(23, 20)(25, 31)(27, 23)(13, 24)(16, 25)(23, 28)(24, 27), (1, 3)(2, 7, 24)(16, 25)(23, 28)(24, 27), (1, 3)(2, 7, 24)(16, 25)(23, 28)(24, 27), (1, 3)(2, 7, 24)(16, 25)(23, 28)(24, 27), (1, 3)(2, 7, 24)(16, 25)(23, 28)(24, 27), (1, 3)(2, 7, 24)(16, 25)(23, 28)(24, 27), (1, 3)(2, 7, 24)(16, 25)(23, 24)(23, 24$ $N_{112} = Group([(1,3)(2,4)(3,28)(5,20)(6,21)(7,24)(9,14)(10,15)(11,19)(12,32)(13,17)(16,30)(18,31)(22,29)(26,31)(30,32), (1,5)(2,10)(3,13)(4,15)(5,12)(6,13)(12,29)(12,32)(13,17)(16,23)(13,25)(13,$ $N_{113} = Group([(1, 9)(2, 5)(3, 29)(4, 20)(6, 22)(7, 25)(8, 14)(10, 16)(17, 18)(19, 20)(27, 25)(8, 14)(10, 16)(17, 18)(19, 20)(17, 24)(18, 25)(23, 28)(24, 27), (1, 3)(2, 7, 24)(18, 25)(23, 28)(24, 27), (1, 3)(2, 7, 24)(18, 25)(23, 28)(24, 27), (1, 3)(2, 7, 24)(18, 25)(23, 28)(24, 27), (1, 3)(2, 7, 24)(18, 25)(23, 28)(24, 27), (1, 3)(2, 7, 24)(18, 25)(23, 28)(24, 27), (1, 3)(2, 7, 24)(18, 25)(23, 28)(24, 27), (1, 3)(2, 7, 24)(18, 25)(23, 28)(24, 27), (1, 3)(27, 24)(18, 25)(23, 28)(24, 27), (1, 3)(27, 24)(18, 25)(23, 28)(24, 27), (1, 3)(27, 24)(18, 25)(23, 28)(24, 27), (1, 3)(27, 24)(18, 25)(23, 28)(24, 27), (1, 3)(27, 24)(18, 25)(23, 28)(24, 27), (1, 3)(27, 24)(18, 25)(23, 28)(24, 27), (1, 3)(27, 24)(18, 25)(23, 28)(24, 27), (1, 3)(27, 24)(18, 25)(23, 28)(24, 27), (1, 3)(27, 24)(18, 25)(23, 28)(24, 27), (1, 3)(27, 24)(18, 25)(23, 28)(24, 27), (1, 3)(27, 24)(18, 25)(23, 28)(24, 27), (1, 3)(27, 24)(18, 25)(23, 28)(24, 27), (1, 3)(27, 24)(18, 25)(23, 28)(24, 27), (1, 3)(27, 24)(18, 25)(23, 28)(24, 27), (1, 3)(27, 24)(18, 25)(23, 28)(24, 27), (1, 3)(27, 24)(18, 25)(23, 24)(24, 27), (1, 3)(27, 24)(18, 25)(23, 24)(24, 27), (1, 3)(27, 24)(18, 25)(23, 24)(24, 27), (1, 3)(27, 24)(18, 25)(23, 24)(24, 27), (1, 3)(27, 24)(18, 24$