Ordinary character table of $G \cong ((C2 \times C2) \cdot ((C4 \times C2) : C2) = (C4 \times C2) \cdot (C4 \times C2)) : 1$:

| | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ |
|--|--|
| Trivial source character table of $G \cong ((C2 \times C2) \cdot (C4 \times C2) : C2) = (C4 \times C2) \cdot (C4 \times C2) : 1$ at $p = 2$: $\begin{bmatrix} N_{1} & N_{2} & N_{3} & N_{4} & N_{5} & N_{5$ | |
| | |
| Representatives $n_j \in N_i$ | |
| $\frac{1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 2 \cdot \chi_9 + 2 \cdot \chi_{10} + 2 \cdot \chi_{11} + 2 \cdot \chi_{12} + 2 \cdot \chi_{13} + 2 \cdot \chi_{14} + 2 \cdot \chi_{15} + 2 \cdot \chi_{16} + 2 \cdot \chi_{17} + 2 \cdot \chi_{18} + 4 \cdot \chi_{19}}{1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 2 \cdot \chi_9 + 2 \cdot \chi_{10} + 2 \cdot \chi_{11} + 2 \cdot \chi_{12} + 2 \cdot \chi_{13} + 2 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19}} \frac{64}{32} \frac{0}{32} \frac$ | |
| $\left 1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 2 \cdot \chi_9 + 2 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 4 \cdot \chi_{19} \right 32 \left \begin{array}{cccccccccccccccccccccccccccccccccccc$ | |
| $\frac{1 \cdot \chi_1 + 1 \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 + 2 \cdot \chi_9 + 2 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 2 \cdot \chi_{15} + 2 \cdot \chi_{16} + 2 \cdot \chi_{17} + 2 \cdot \chi_{18} + 0 \cdot \chi_{19}}{1 \cdot \chi_1 + 1 \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 + 2 \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} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19}} 16 16 16 16 16 16 16 $ | |
| $\left 1 \cdot \chi_{1} + 1 \cdot \chi_{2} + 1 \cdot \chi_{3} + 1 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 2 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 2 \cdot \chi_{13} + 2 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} \right 16 \left 16 \right 0 \left 0 \left$ | |
| $\left[1 \cdot \chi_{1} + 1 \cdot \chi_{2} + 1 \cdot \chi_{3} + 1 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 2 \cdot \chi_{9} + 0 \cdot \chi_{10} + 2 \cdot \chi_{11} + 2 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} \right] 16 \left[16 \right] 0 \left[0 \right] 0$ | |
| | |
| $\left[1 \cdot \chi_{1} + 1 \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} + 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} + 2 \cdot \chi_{17} + 2 \cdot \chi_{18} + 0 \cdot \chi_{19}\right] 16 0 0 0 0 0 0 0 0 0 $ | |
| $\frac{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 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 2 \cdot \chi_{19}}{1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 2 \cdot \chi_{19}} 16 0 16 0 0 0 0 0 0 0 0 0 $ | |
| | |
| $\left 1 \cdot \chi_{1} + 1 \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} + 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} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} \right 8 \left 8 $ | |
| | |
| $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 + 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} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot $ | |
| $\frac{1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19}}{1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 1 \cdot \chi_{19}} + 0 \cdot 0$ | |
| $\left 1\cdot\chi_{1}+0\cdot\chi_{2}+1\cdot\chi_{3}+0\cdot\chi_{4}+0\cdot\chi_{5}+0\cdot\chi_{6}+1\cdot\chi_{7}+1\cdot\chi_{8}+0\cdot\chi_{9}+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}+0\cdot\chi_{16}+0\cdot\chi_{17}+0\cdot\chi_{18}+1\cdot\chi_{19}\right 8\ \left 0\ \left 0$ | |
| $\frac{1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19}}{1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19}} + \frac{4}{4} + \frac{4}{$ | |
| $\boxed{1 \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 + 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} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} \mid 4 \mid $ | |
| | |
| $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 + 1 \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} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 4 4 4 0 0 0 0 0 0 0 $ | |
| | |
| $\begin{bmatrix}1 \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 + 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} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & $ | |
| | |
| $P_1 = Group([()]) \cong 1 \\ P_2 = Group([(1,22)(2,32)(3,38)(4,41)(5,42)(6,7)(8,48)(9,51)(10,52)(11,12)(13,55)(14,56)(15,16)(17,57)(18,19)(20,21)(23,60)(24,61)(25,26)(27,62)(28,29)(30,31)(33,63)(34,35)(36,37)(39,40)(43,64)(44,45)(46,47)(49,50)(53,54)(58,59)]) \cong C2 \\ P_3 = Group([(1,7)(2,12)(3,16)(4,19)(5,2)(2,26)(9,29)(10,31)(11,32)(13,35)(14,37)(15,38)(17,40)(18,41)(20,42)(23,45)(24,47)(25,48)(27,50)(28,51)(30,52)(33,54)(34,55)(36,56)(39,57)(43,60)(44,60)(46,61)(49,62)(53,63)(58,64)]) \cong C2 \\ P_3 = Group([(1,7)(2,12)(3,16)(4,19)(5,20)(2,20)(3,20)(4,20)(3,20)(4,20)(3,20)(4,20)(3,20)(4,20)(3,20)(4,20)(3,20)(4,20)(3,20)(4,20)(3,20)(4,20)(3,20)(4,20)(4,20)(3,20)(4,20)(4,20)(3,20)(4,20)(4,20)(3,20)(4,20)(4,20)(3,20)(4,20)(4,20)(3,20)(4,20)(4,20)(3,20)(4,20)(4,20)(3,20)(4,$ | |
| $P_4 = Group([(1,6)(2,11)(3,15)(4,18)(5,20)(7,22)(8,25)(9,28)(10,30)(12,32)(13,34)(14,36)(16,38)(17,39)(19,41)(21,42)(23,44)(24,46)(26,48)(27,49)(29,51)(31,52)(33,53)(35,55)(37,56)(40,57)(43,58)(45,60)(47,61)(50,62)(54,63)(59,64)]) \cong C2$ $P_5 = Group([(1,7)(2,12)(3,16)(4,19)(5,21)(6,22)(8,26)(9,29)(10,31)(11,32)(13,35)(14,37)(15,38)(17,40)(18,41)(20,42)(23,45)(24,47)(25,48)(27,50)(28,51)(30,52)(33,54)(34,55)(36,56)(39,57)(43,59)(44,60)(46,61)(49,62)(53,63)(58,64),(1,22)(2,32)(3,38)(4,41)(5,42)(6,7)(8,48)(9,51)(10,52)(11,12)(13,55)(14,56)(15,16)(17,57)(18,19)(20,21)(23,60)(24,61)(25,26)(27,62)(28,29)(30,31)(33,63)(34,35)(36,37)(39,40)(43,64)(44,45)(46,47)(49,50)(53,54)(58,59)]) \cong C2 \times C2$ | |
| $P_6 = Group([(1,5,22,42)(2,10,32,52)(3,14,38,56)(4,17,41,57)(6,20,7,21)(8,24,48,61)(9,27,51,62)(11,30,12,31)(13,33,55,63)(15,36,16,37)(18,39,19,40)(23,43,60,64)(25,46,26,47)(28,49,29,50)(34,53,35,54)(44,58,45,59), (1,22)(2,32)(3,38)(4,41)(5,42)(6,7)(8,48)(9,51)(10,52)(11,12)(13,55)(14,56,16)(17,57)(18,19)(20,21)(23,60)(24,48,61)(9,27,51,62)(11,30,12,31)(13,33,55,63)(15,36,16,37)(18,39,19,40)(23,48,61)(25,26)(27,62)(28,29)(30,31)(33,31)(3$ | |
| $P_8 = Group([(1,4,7,19)(2,9,12,29)(3,13,16,35)(5,17,21,40)(6,18,22,41)(8,23,26,45)(24,47)(25,48)(27,50)(24,43,47,59)(25,44,48,60)(30,49,52,62)(36,53,56,63)(46,58,61,64),(1,7)(2,12)(3,16)(4,19)(5,21)(6,22)(8,26)(9,29)(10,31)(11,32)(13,35)(14,37)(15,38)(17,40)(18,41)(20,42)(23,45)(24,47)(25,48)(27,50)(28,51)(30,52)(33,54)(34,55)(36,56)(39,57)(43,59)(44,60)(46,61)(49,62)(53,63)(58,64)[(13,35)(14,37)(15,38)(17,40)(18,41)(20,42)(23,45)(24,47)(25,48)(27,50)(28,51)(30,52)(33,54)(34,55)(36,56)(39,57)(43,59)(44,60)(46,61)(49,62)(53,63)(58,64)[(13,35)(14,37)(15,38)(17,40)(18,41)(20,42)(23,45)(24,47)(25,48)(27,50)(28,51)(20,42)(23,45)(24,47)(25,48)(27,50)(28,51)(20,42)(23,45)(24,47)(25,48)(27,50)(28,51)(20,42)(23,45)(24,47)(25,48)(27,50)(28,51)(20,42)(23,45)(24,47)(25,48)(27,50)(28,51)(20,42)(23,45)(24,47)(25,48)(27,50)(28,51)(20,42)(23,45)(24,47)(25,48)(27,50)(28,51)(20,42)(23,45)(24,47)(25,48)(27,50)(28,41)(20,42)(23,45)(24,47)(25,48)(27,50)(28,41)(20,42)(23,45)(24,47)(25,48)(27,50)(28,41)(20,42)(23,45)(24,47)(25,48)(27,50)(28,41)(20,42)(23,45)(24,47)(25,48)(27,50)(28,41)(20,42)(23,45)(24,47)(25,48)(27,50)(28,41)(20,42)(23,45)(24,47)(25,48)(27,50)(28,41)(20,42)(23,45)(24,47)(25,48)(27,50)(28,41)(20,42)(23,45)(24,47)(25,48)(27,50)(28,41)(20,42)(23,45)(24,47)(25,48)(27,50)(28,41)(20,42)(23,45)(24,47)(25,48)(27,50)(28,41)(20,42)(23,45)(23,41)(23,42)(23,43$ | |
| $P_9 = Group([(1,17,6,39)(2,27,11,49)(3,33,15,53)(4,21,18,42)(5,41,20,19)(7,40,22,57)(8,43,25,58)(9,31,28,52)(10,51,30,29)(12,50,32,62)(13,37,34,56)(14,55,36,35)(16,54,38,63)(23,47,44,61)(24,60,46,45)(26,59,48,64),(1,6)(2,11)(3,15)(4,18)(5,20)(7,22)(8,25)(9,28)(10,30)(12,32)(13,34)(14,36)(16,38)(17,39)(19,41)(21,42)(23,44)(24,46)(26,48)(27,49)(29,51)(31,52)(33,53)(35,55)(37,56)(40,57)(43,58)(45,60)(47,61)(50,62)(54,63)(59,64)]) \cong C4$ | |
| $P_{11} = Group([(1,3,7,16)(2,8,12,26)(4,35,19,13)(5,56,21,36)(6,15,22,38)(9,45,29,23)(10,61,31,46)(11,25,32,48)(14,20,37,42)(17,53,40,63)(18,45)(24,47)(25,48)(27,50)(28,51)(30,52)(33,54)(34,55)(36,56)(39,57)(43,59)(44,60)(46,61)(49,62)(53,63)(58,64)]) \cong C4$ | |
| $P_{12} = Group([(1,14,7,37)(2,24,12,47)(3,21,16,5)(4,54)(25,48)(27,50)(28,51)(30,52)(33,54)(44,50)(45,47)(15,38)(17,40)(15,42)(3,45)(14,47)(15,38)(17,40)(15,42)(3,45)(44,50)(45,47)(15,38)(17,40)(15,42)(3,45)(44,50)(45,47)(15,48)(27,50)(28,51)(44,50)(45,47)(15,48)(27,50)(28,51)(44,50)(45,47)(45$ | $2.38, 56)(4, 17, 41, 57)(6, 20, 7, 21)(8, 24, 48, 61)(9, 27, 51, 62)(11, 30, 12, 31)(13, 33, 55, 63)(15, 36, 16, 37)(18, 39, 19, 40)(23, 43, 60, 64)(25, 46, 26, 47)(28, 49, 29, 50)(34, 53, 35, 54)(44, 58, 45, 59)]) \cong C4 \times C2$ |
| $P_{14} = Group([(1,7)(2,12)(3,16)(4,47)(5,24)(6,7)(4,56)(15,16)(17,57)(18,19)(20,21)(3,56)(4,47)(25,48)(27,50)(28,51)(30,52)(33,54)(44,47)(5,48)(6,7)(48,6$ | $(3.5)(5,17,21,40)(6,18,22,41)(8,23,26,45)(10,27,31,50)(11,28,32,51)(14,33,37,54)(15,34,38,55)(20,39,42,57)(24,43,47,59)(25,44,48,60)(30,49,52,62)(36,53,56,63)(46,58,61,64)]) \cong C4 \times C2$ |
| $P_{16} = Group([(1, 23, 39, 61, 6, 44, 17, 47)(2, 63, 49, 14, 50)(13, 15)(14, 35)(14$ | |
| $P_{17} = Group([(1,2,5,10,22,32,42,52)(3,23,14,43,38,60,56,64)(4,28,17,49,41,29,57,50)(6,11,20,30,7,12,21,31)(8,63,24,13,48,33,61,55)(9,39,27,19,51,40,62,18)(15,44,36,58,16,45,37,59)(25,54,46,34,26,53,47,35), (1,5,22,42)(2,10,32,52)(3,14,38,56)(4,17,41,57)(6,20,7,21)(8,24,48,61)(9,27,51,62)(11,30,12,31)(13,33,55,63)(15,36,16,37)(18,39,19,40)(23,43,60,64)(25,46,26,47)(28,49,29,50)(34,53,35,54)(44,58,45,59), (1,22)(2,32)(3,38)(4,41)(5,42)(6,7)(8,48)(9,51)(10,52)(11,11,32)(13,35)(14,37)(15,38)(17,40)(18,41)(20,42)(23,45)(24,47)(25,48)(27,50)(28,49)(30,31)(33,63)(34,41)(5,42)(6,7)(8,48)(9,51)(10,52)(11,12)(13,55)(14,56)(15,16)(17,57)(18,19)(20,21)(23,45)(24,47)(25,48)(27,50)(28,49)(30,31)(33,63)(34,41)(5,42)(6,7)(8,48)(9,51)(10,52)(11,12)(13,55)(14,56)(15,16)(17,57)(18,19)(20,21)(23,45)(24,47)(25,48)(27,50)(28,49)(30,31)(33,63)(34,45)(36,47)(39,40)(43,64)(44,45)(46,47)(49,50)(53,64)(44,45)(46,47)(49,50)(53,64)(44,45)(46,47)(49,50)(53,64)(44,45)(44,45)(46,47)(49,50)(53,64)(44,45)(46,47)(49,50)(53,64)(44,45)(44,45)(46,47)(49,50)(53,64)(44,45)(46,47)(49,50)(53,64)(44,45)(46,47)(49,50)(53,64)(44,45)(46,47)(49,50)(53,64)(44,45)(46,47)(49,50)(53,64)(44,45)(46,47)(49,50)(53,64)(44,45)(46,47)(49,50)(53,64)(44,45)(46,47)(49,50)(53,64)(44,45)(46,47)(49,50)(53,64)(44,45)(46,47)(49,50)(53,64)(44,45)(46,47)(49,50)(53,64)(44,45)(46,47)(49,50)(53,64)(44,45)(46,47)(49,50)(53,64)(44,45)(46,47)(49,50)(53,64)(44,45)(46,47)(49,50)(53,64)(44,45)(46,47)(49,50)(53,64)(44,45)(46,47)(49,50)(44,45)(46,47)(49,50)(44,45)(46,47)(49,50)(44,45)(46,47)(49,50)(44,45)(44,45)(46,47)(49,50)(44,45)(44,45)(46,47)(49,50)(44,45)(44,45)(46,47)(49,50)(44,45)(44,45)(46,47)(49,50)(44,45)(44,45)(46,47)(49,45)(44,45)(46,47)(49,45)(44,45)(46,47)(49,45)(44,45)(46,47)(49,45)(44,45)(46,47)(49,45)(44,45)(46,47)(49,45)(44,45)(46,47)(49,45)(44,45)(46,47)(49,45)(44,45)(46,47)(49,45)(44,45)(46,47)(49,45)(44,45)(46,47)(49,45)(44,45)(46,47)(49,45)(44,45)(46,47)(49,45)(44,45)(46,47)(49,45)(44,45)(46,47)(49,45)(44,45)(46,47)(49,45)(44,45)(46,47)(49,45)(44,45)(46,47)(49,4$ | |
| $P_{19} = Group([(1,7)(2,12)(3,16)(4,19)(5,21)(6,22)(8,26)(9,29)(10,31)(11,32)(13,35)(14,37)(15,38)(17,40)(18,41)(20,42)(23,45)(24,47)(25,48)(27,50)(28,29)(30,31)(33,63)(34,35)(36,37)(39,40)(43,64)(44,45)(46,47)(49,50)(53,54)(58,64), \\ (1,22)(2,32)(3,38)(4,41)(5,42)(6,7)(8,48)(9,51)(10,52)(11,12)(13,55)(14,56)(15,16)(17,57)(18,19)(20,21)(23,45)(24,47)(25,48)(27,50)(28,29)(30,31)(33,63)(34,35)(36,37)(39,40)(43,64)(44,45)(46,47)(49,50)(53,54)(58,64), \\ (1,22)(2,32)(3,34)(44,47)(25,48)(27,50)(28,29)(30,31)(33,63)(34,35)(36,37)(39,40)(43,64)(44,45)(46,47)(49,50)(53,64)(44,45)(46,47)(49,50)(43,45)(44,45)(46,47)(49,45)(46,47)(49,45)(46,47)(49,45)(46,47)(49,$ | $1, 16, 5)(4, 54, 19, 33)(6, 36, 22, 56)(8, 31, 26, 10)(9, 59, 29, 43)(11, 46, 32, 61)(13, 17, 35, 40)(15, 42, 38, 20)(18, 63, 41, 53)(23, 27, 45, 50)(25, 52, 48, 30)(28, 64, 51, 58)(34, 39, 55, 57)(44, 49, 60, 62)]) \cong C4 \times C2$ |
| $P_{20} = Group([(1,14,7,37)(2,24,12,47)(3,21,16,5)(4,54,19,33)(6,36,22,56)(8,31,26,10)(9,59,29,43)(11,46,32,51)(14,33,37,54)(15,34,38,55)(20,39,42,57)(24,43,47,59)(25,44,48,60)(30,49,52,62)(36,53,56,63)(46,58,61,64),(1,7)(2,12)(3,16)(4,19)(5,21)(6,22)(8,26)(9,29)(10,31,16,35)(23,27,45,50)(25,44,48,60)(30,49,52,62)(36,53,56,63)(46,58,61,64),(1,7)(2,12)(3,16)(4,19)(5,21)(6,22)(8,26)(9,29)(10,31,16,35)(23,27,45,50)(25,44,48,60)(30,49,52,62)(36,53,56,63)(46,58,61,64),(1,7)(2,12)(3,16)(4,19)(5,21)(6,22)(8,26)(9,29)(10,31,16,35)(23,27,45,50)(25,44,48,60)(30,49,52,62)(36,53,56,63)(46,58,61,64),(1,7)(2,12)(3,16)(4,19)(5,21)(6,22)(8,26)(9,29)(10,31,16,35)(23,27,45,50)(24,43,47,59)(25,44,48,60)(30,49,52,62)(36,53,56,63)(46,58,61,64),(1,7)(2,12)(3,16)(4,19)(5,21)(6,22)(8,26)(9,29)(10,31,16,35)(24,43,47,59)(25,44,48,60)(30,49,52,62)(36,53,56,63)(46,58,61,64),(1,7)(2,12)(3,16)(4,19)(5,21)(6,22)(8,26)(9,29)(10,31,16,35)(24,43,47,59)(25,44,48,60)(30,49,52,62)(36,53,56,63)(46,58,61,64),(1,7)(2,12)(3,16)(4,19)(5,21)(6,22)(8,26)(9,29)(10,31,16,35)(24,43,47,59)(25,44,48,60)(30,49,52,62)(36,53,56,63)(46,58,61,64),(1,7)(2,12)(3,16)(4,19)(5,21)(6,22)(8,26)(9,29)(10,31,16,35)(24,43,47,59)(25,44,48,60)(30,49,52,62)(36,53,56,63)(46,58,61,64),(1,7)(2,12)(3,16)(4,19)(5,21)(6,22)(8,26)(9,29)(10,31,16,35)(24,43,47,59)(25,44,48,60)(30,49,52,62)(36,53,56,63)(46,58,61,64),(1,7)(2,12)(3,16)(4,19)(5,21)(6,22)(8,26)(9,29)(10,31,16,35)(24,43,47,59)(25,44,48,60)(30,49,52,62)(36,53,56,63)(46,58,61,64),(1,7)(2,12)(3,16)(4,19)(5,21)(6,22)(8,26)(9,29)(10,31,16,35)(12,23,23,16,34$ | |
| $P_{22} = Group([(1,7)(2,12)(3,16)(4,49)(5,21)(6,22)(8,26)(9,29)(10,31)(11,32)(13,35)(14,37)(15,38)(17,40)(18,41)(20,42)(23,45)(24,47)(25,48)(27,50)(28,51)(30,52)(33,54)(34,55)(36,56)(39,57)(43,59)(44,60)(46,61)(49,62)(53,63)(58,64), (1,22)(2,32)(3,38)(4,41)(5,42)(6,7)(8,48)(9,51)(10,52)(11,12)(13,55)(14,56)(15,16)(17,57)(18,19)(20,21)(23,63)(34,45)(34,55)(36,56)(39,57)(43,59)(44,61)(49,62)(53,63)(34,45)(34,55)(36,56)(39,57)(43,59)(44,61)(35,56)(39,57)(43,59)(33,57)(43,57)$ | \bullet |
| $P_{23} = Group([(1,7)(2,12)(3,16)(4,19)(5,21)(6,22)(8,26)(9,29)(10,31)(11,32)(13,35)(14,57)(15,38)(17,40)(18,41)(20,42)(23,45)(24,47)(25,48)(27,50)(28,51)(30,52)(33,54)(34,55)(36,56)(39,57)(43,59)(44,60)(46,61)(49,62)(53,63)(58,64), (1,22)(2,32)(3,38)(4,41)(5,42)(6,7)(8,48)(9,51)(10,52)(11,12)(13,55)(14,56)(15,16)(17,57)(18,19)(20,21)(23,45)(24,47)(25,48)(27,50)(28,51)(30,52)(33,54)(34,55)(36,56)(39,57)(43,59)(44,60)(46,61)(49,62)(53,63)(58,64), (1,22)(2,32)(3,38)(4,41)(5,42)(6,7)(8,48)(9,51)(10,52)(11,12)(13,55)(14,56)(15,16)(17,57)(18,19)(20,21)(23,45)(24,47)(25,48)(27,50)(28,29)(30,31)(33,63)(34,35)(36,37)(39,40)(43,64)(44,45)(46,47)(49,50)(53,54)(58,59), (1,14,7,37)(2,24,12,47)(3,21,12)(13,16)(14,16)($ | , , , , , , , , , , |
| $P_{25} = Group([(1,7)(2,12)(3,16)(4,19)(5,21)(6,22)(8,26)(9,29)(10,31)(11,32)(13,35)(14,37)(15,38)(17,40)(18,41)(20,42)(23,45)(24,47)(25,48)(27,50)(28,29)(30,31)(33,63)(34,35)(36,37)(39,40)(43,64)(44,45)(46,47)(49,50)(53,63)(34,35)(36,37)(39,40)(43,64)(44,45)(46,47)(49,50)(43,64)(44,45)(46,47)(49,50)(43,64)(44,45)(46,47)(49,50)(43,64)(44,45)(46,47)(49,50)(43,64)(44,45)(46,47)(49,50)(43,64)(44,45)(46,47)(49,50)(43,64)(44,45)(46,47)(49,50)(43,64)(44,45)(46,47)(49,50)(43,64)(44,45)(46,47)(49,50)(43,64)(44,45)(46,47)(49,50)(43,64)(44,45)(46,47)(49,50)(43,64)(44,45)(46,47)(49,50)(43,64)(44,45)(46,47)(49,50)(43,64)(44,45)(46,47)(49,50)(43,64)(44,45)(46,47)(49,50)(43,64)(44,45)(46,47)(49,50)(43,64)(44,45)(46,47)(49,50)(43,64)(44,45)(46,47)(49,50)(43,64)$ | |
| $P_{27} = Group([](1,7)(2,12)(3,16)(4,19)(5,21)(6,22)(8,26)(27,50)(28,51)(30,52)(33,54)(34,55)(36,56)(39,57)(43,59)(44,60)(46,61)(49,62)(53,63)(58,64), (1,22)(2,32)(3,38)(4,41)(5,42)(6,7)(8,48)(9,51)(10,52)(11,12)(13,55)(14,56)(15,16)(17,57)(18,19)(20,21)(23,60)(24,61)(25,26)(27,62)(28,29)(30,31)(33,63)(34,35)(36,37)(39,40)(43,64)(44,45)(46,47)(49,50)(53,54)(34,55)(36,56)(39,57)(43,59)(44,60)(46,61)(49,62)(53,63)(58,64), (1,22)(2,32)(3,38)(4,41)(5,42)(6,7)(8,48)(9,51)(10,52)(11,12)(13,55)(14,56)(15,16)(17,57)(18,19)(20,21)(23,60)(24,61)(25,26)(27,62)(28,29)(30,31)(33,63)(34,35)(36,37)(39,40)(43,64)(44,45)(46,47)(49,50)(53,54)(34,55)(36,56)(39,57)(43,59)(44,60)(46,61)(49,62)(53,63)(58,64), (1,22)(23,45)(24,47)(25,48)(27,50)(28,29)(30,31)(33,54)(34,55)(36,56)(39,57)(43,59)(44,60)(46,61)(49,62)(53,63)(58,64), (1,22)(23,45)(24,47)(25,48)(27,50)(28,29)(30,31)(33,53)(34,35)(36,37)(39,40)(43,64)(44,45)(46,47)(49,50)(53,54)(34,55)(36,56)(39,57)(43,59)(44,60)(46,61)(49,62)(53,63)(34,35)(36,37)(39,40)(43,64)(44,45)(46,47)(49,50)(53,54)(36,47)(49,50)(36,47)(49,47)(49,50)(36,47)(49$ | $3,49,38,11,54,27,16)(3,12,53,62,15,32,33,50)(4,25,42,43,18,8,21,58)(5,64,19,48,20,59,41,26)(7,45,57,46,22,60,40,24)(9,37,52,13,28,56,31,34)(10,55,29,14,30,35,51,36)(14,55,36,35)(16,54,38,63)(23,47,44,61)(24,60,46,45)(26,59,48,64)]) \cong C8 \times C2$ |
| $P_{28} = Group([(1,7)(2,12)(3,16)(4,19)(5,21)(6,22)(8,26)(9,29)(10,31)(11,32)(13,35)(14,37)(15,38)(17,40)(18,41)(20,42)(23,45)(24,47)(25,48)(27,50)(28,51)(30,52)(33,54)(34,55)(36,56)(39,57)(43,59)(44,60)(46,61)(49,62)(53,63)(58,64), (1,22)(2,32)(3,38)(4,41)(5,42)(6,7)(8,48)(9,51)(10,52)(11,12)(13,55)(14,57)(15,38)(17,40)(18,41)(20,42)(23,45)(24,47)(25,48)(27,50)(28,51)(30,52)(33,54)(34,55)(36,56)(39,57)(43,59)(44,60)(46,61)(49,62)(53,63)(58,64), (1,22)(2,32)(3,38)(4,41)(5,42)(6,7)(8,48)(9,51)(10,52)(11,12)(13,55)(14,57)(18,19)(20,41)(23,45)(24,47)(25,48)(27,50)(28,51)(30,52)(33,54)(34,55)(36,56)(39,57)(43,59)(44,60)(46,61)(49,62)(53,63)(58,64), (1,22)(2,32)(3,38)(4,41)(5,42)(6,7)(8,48)(9,51)(10,52)(11,12)(13,55)(14,57)(18,19)(20,41)(23,45)(24,47)(25,48)(27,50)(28,48)(28,48)$ | $(6,35)(5,17,21,40)(6,18,22,41)(8,23,26,45)(10,27,31,50)(11,28,32,51)(14,33,37,54)(15,34,38,55)(20,39,42,57)(24,48,61)(9,27,51,62)(11,30,12,31)(13,33,55,63)(15,36,16,37)(18,39,19,40)(23,43,60,64)(25,46,26,47)(28,49,29,50)(34,53,35,54)(44,58,45,59)] \\ = C4 \times C4 \\ (1,5,22,42)(2,10,32,52)(3,14,38,55)(20,39,42,57)(24,43,47,59)(25,44,48,61)(9,27,51,62)(11,30,12,31)(13,33,55,63)(15,36,16,37)(18,39,19,40)(23,43,60,64)(25,46,26,47)(28,49,29,50)(34,53,35,54)(44,58,45,59)] \\ = C4 \times C4 \\ (1,5,22,42)(2,10,32,52)(3,14,38,56)(4,17,41,57)(6,20,7,21)(8,24,48,61)(9,27,51,62)(11,30,12,31)(13,33,55,63)(15,36,16,37)(18,39,19,40)(23,43,60,64)(25,46,26,47)(28,49,29,50)(34,53,35,54)(44,58,45,59)] \\ = C4 \times C4 \\ (1,5,22,42)(2,10,32,52)(3,14,38,56)(4,17,41,57)(6,20,7,21)(8,24,48,61)(9,27,51,62)(11,30,12,31)(13,33,55,63)(15,36,16,37)(18,39,19,40)(23,43,60,64)(25,46,26,47)(28,49,29,50)(34,53,35,54)(44,58,45,59)] \\ = C4 \times C4 \\ (1,5,22,42)(2,10,32,52)(3,14,38,56)(4,17,41,57)(6,20,7,21)(8,24,48,61)(9,27,51,62)(11,30,12,31)(13,33,55,63)(15,36,16,37)(18,39,19,40)(23,43,60,64)(25,46,26,47)(28,49,29,50)(34,48,61)(9,27,51,62)(11,30,12,31)(13,33,55,63)(15,36,46,37)(18,39,19,40)(23,48,48,61)(9,27,51,62)(11,30,12,31)(13,33,55,63)(15,36,46,37)(18,39,19,40)(23,48,48,61)(9,27,51,62)(11,30,12,31)(13,33,55,63)(15,36,46,37)(18,39,19,40)(23,48,48,61)(9,27,51,62)(11,30,12,31)(13,33,55,63)(15,36,46,37)(18,39,19,40)(23,48,48,48,48,48)(19,27,51,48)(18,39,19,40)(23,48,48,48,48)(19,27,51,48)(18,39,19,40)(23,48,48,48)(19,27,51,48)(18,39,19,40)(23,48,48,48)(19,27,51,48)(18,39,19,40)(23,48,48,48)(19,27,51,48)(18,39,19,40)(23,48,48,48)(19,27,51,48)(18,39,19,40)(23,48,48,48)(19,27,51,48)(19,28,48,48)(19,28,48)(19$ |
| $P_{30} = Group([(1,7)(2,12)(3,16)(4,19)(5,21)(6,22)(8,26)(9,29)(10,31)(11,32)(13,35)(14,37)(15,38)(17,40)(18,41)(20,42)(23,45)(24,47)(25,48)(27,50)(28,29)(30,31)(33,63)(34,35)(36,37)(39,40)(43,64)(44,45)(46,47)(49,50)(53,54)(58,59), (1,4,7,19)(2,9,12,29)(3,13,16)(4,19)(20,11,12)(13,16)(14,19)($ | (6,35)(5,17,21,40)(6,18,22,41)(8,23,26,45)(10,27,51,62)(11,30,12,31)(13,33,55,63)(15,36,16,37)(18,39,19,40)(23,43,60,64)(25,46,26,47)(28,49,29,50)(34,53,35,54)(44,58,45,59), (1,3,7,16)(2,8,12,26)(4,35,19,13)(5,56,21,36)(6,15,22,38)(9,45,29,23)(10,61,31,46)(11,25,32,48)(14,20,37,42)(17,53,40,63)(18,55,41,34)(24,30,47,52)(27,58,50,64)(28,49,29,50)(34,53,35,54)(44,58,45,59), (1,3,7,16)(2,8,12,26)(4,35,19,13)(5,56,21,36)(6,15,22,38)(9,45,29,23)(10,61,31,46)(11,25,32,48)(14,20,37,42)(17,53,40,63)(18,35,41,34)(24,30,47,52)(27,58,50,64)(28,49,29,50)(34,53,35,54)(44,58,45,59), (1,3,7,16)(2,8,12,26)(4,35,19,13)(5,56,21,36)(4,17,41,57)(6,20,7,21)(8,24,48,61)(9,27,51,62)(11,30,12,31)(13,33,55,63)(15,36,16,37)(18,39,19,40)(23,43,60,64)(25,46,26,47)(28,49,29,50)(34,53,35,54)(44,58,45,59), (1,3,7,16)(2,8,12,26)(4,35,19,13)(5,56,21,36)(4,17,41,57)(6,20,7,21)(8,24,48,61)(9,27,51,62)(11,30,12,31)(13,33,55,63)(15,36,16,37)(18,39,19,40)(23,43,60,64)(23,43,40,64)(23,43,4 |
| | (5, 5, 5, 5, 5, 1, 2, 1, 4, 0)(6, 1, 3, 2, 4, 1, 4, 5, 0)(1, 2, 3, 3, 5, 5, 4, 4, 4, 5, 0)(3, 4, 3, 3, 5, 5, 4, 4, 4, 4, 5, 0)(3, 4, 3, 3, 5, 5, 4, 4, 4, 5, 0)(3, 4, 3, 3, 5, 5, 4, 4, 4, 5, 0)(3, 4, 3, 3, 5, 5, 4, 4, 4, 5, 0)(3, 4, 3, 3, 5, 5, 4, 4, 4, 5, 0)(3, 4, 3, 3, 5, 5, 4, 4, 4, 5, 0)(3, 4, 3, 3, 5, 5, 4, 4, 4, 5, 0)(3, 4, 3, 3, 5, 5, 4, 4, 4, 5, 0)(3, 4, 3, 3, 5, 5, 4, 4, 4, 5, 5, 6, 3, 4, 4, 5, 5, 6, 3, 4, 4, 5, 5, 6, 3, 4, 4, 5, 5, 6, 6, 4, 4, 4, 5, 5, 6, 6, 4, 4, 4, 5, 5, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, |

 $(C4 \times C2) \times (C4 \times C2) \times (C4$

(6, 5, 5, 5, 1, 5, 1, 5, 5, 1, 5, 5, 1,

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 $x_{1}, x_{2}, x_{3}, x_{4}, x_{5}, x_{5},$ 3, 3, 5, 5, 1, 4, 3, 5, 5, 1

 1a
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 4a
 4b
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 2a
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