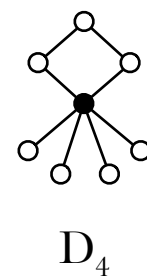
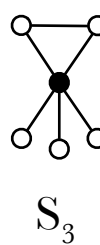
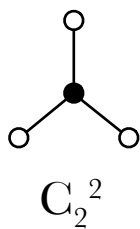
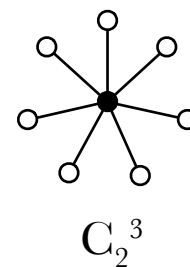
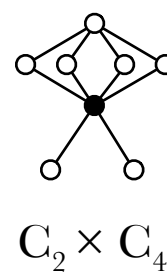
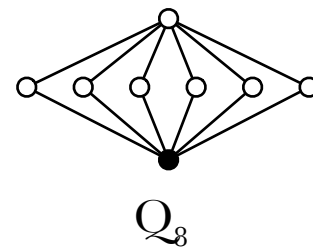


# Cycle Graphs of Groups up to Order 20

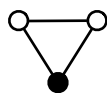
A. Marks 2010



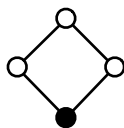
$C_1$



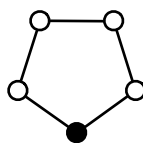
$C_2$



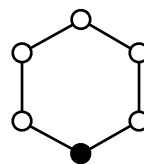
$C_3$



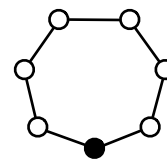
$C_4$



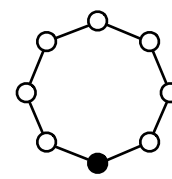
$C_5$



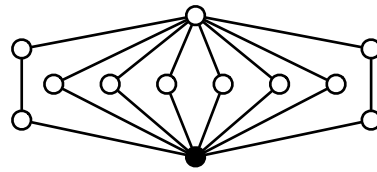
$C_6$



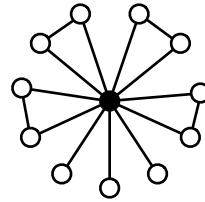
$C_7$



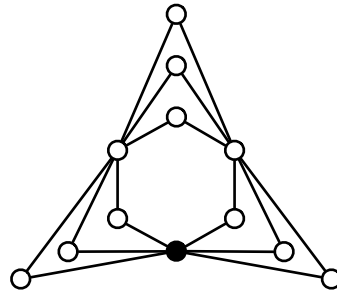
$C_8$



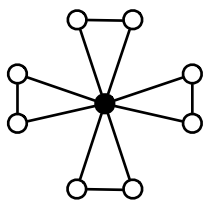
$C_3 \times C_4$



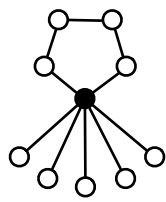
$A_4$



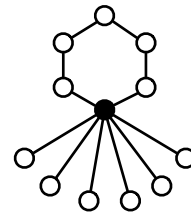
$C_2^2 \times C_3$



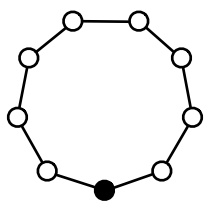
$C_3^2$



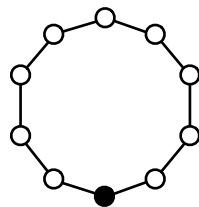
$D_5$



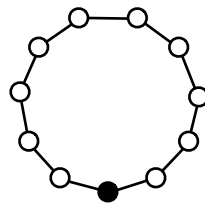
$D_6$



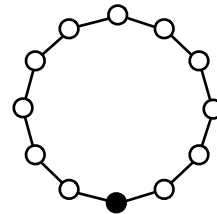
$C_9$



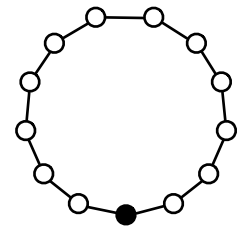
$C_{10}$



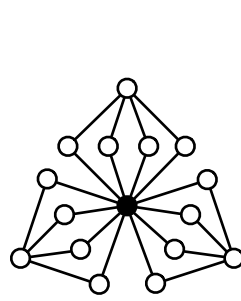
$C_{11}$



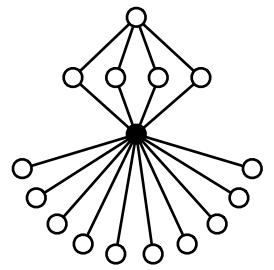
$C_{12}$



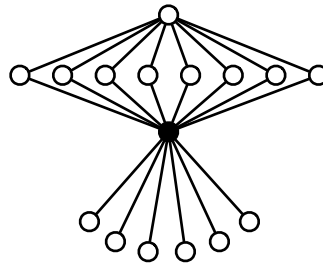
$C_{13}$



$C_4^2$

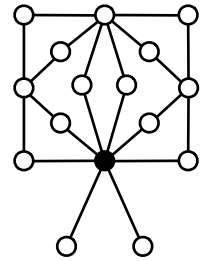


$C_2 \times D_4$



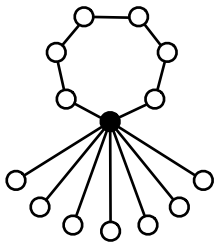
$C_2^2 \times C_4$

& [Pauli matrices group]

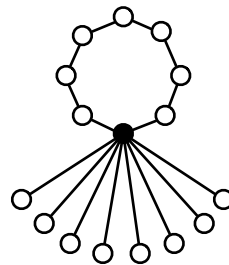


$C_2 \times C_8$

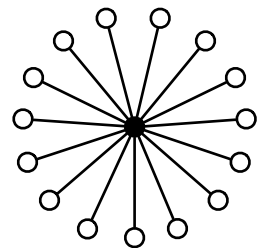
& Modular(16)



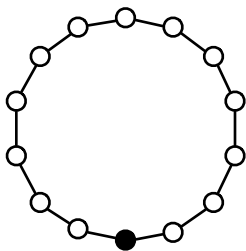
$D_7$



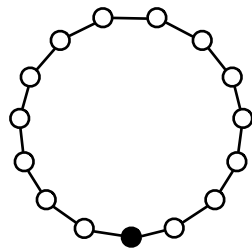
$D_8$



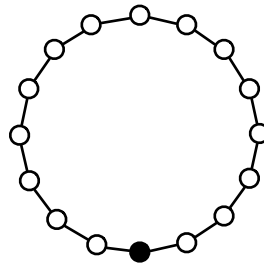
$C_2^4$



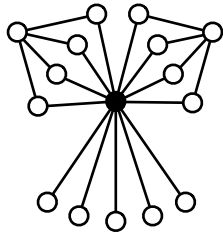
$C_{14}$



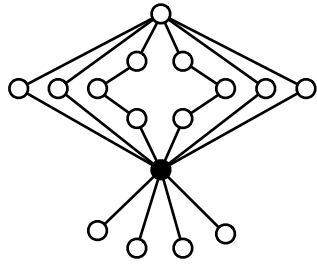
$C_{15}$



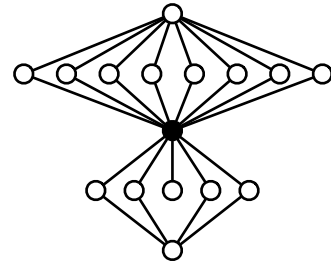
$C_{16}$



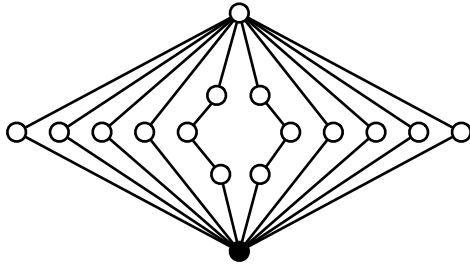
$$C_2^2 \rtimes C_4$$



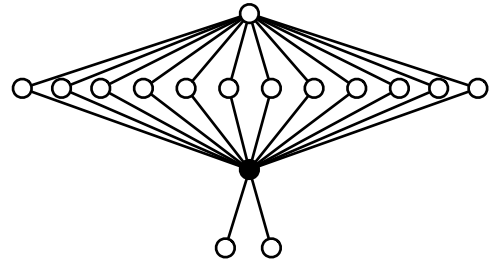
Quasihedral(16)



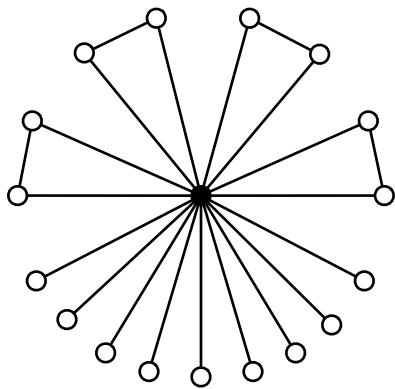
$$C_4 \rtimes C_4$$



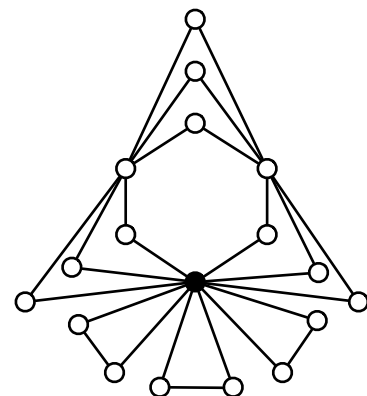
$$Q_{16}$$



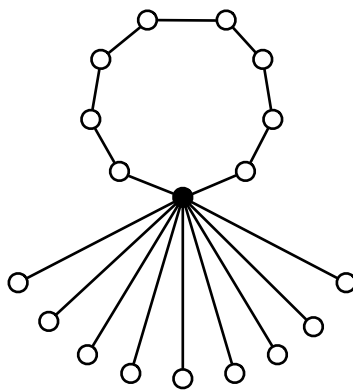
$$C_2 \times Q_8$$



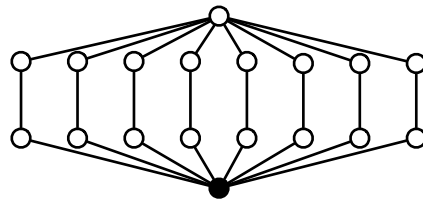
$$C_3 \times C_3 \rtimes C_2$$



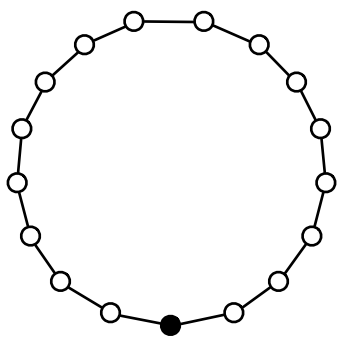
$$S_3 \times C_3$$



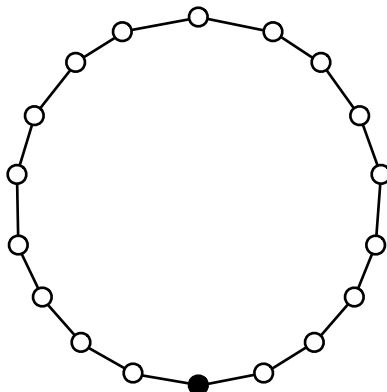
$$D_9$$



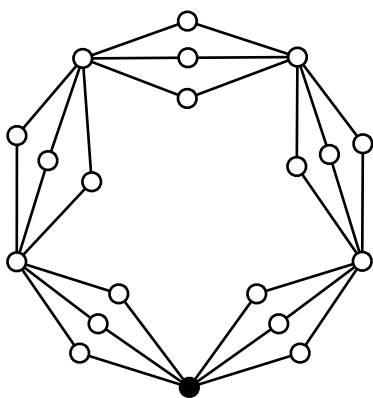
$$C_3 \times C_6$$



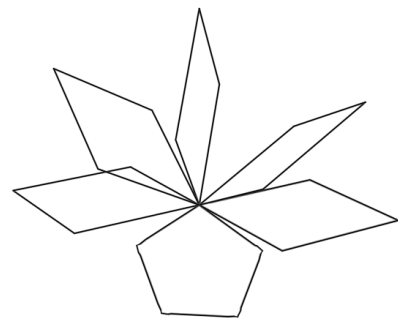
$$C_{17}$$



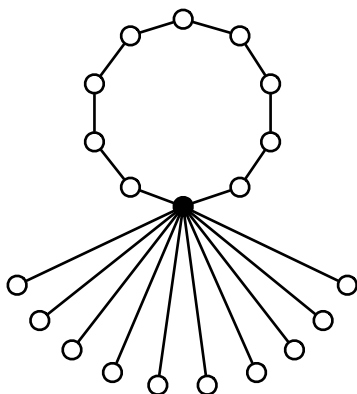
$$C_{18}$$



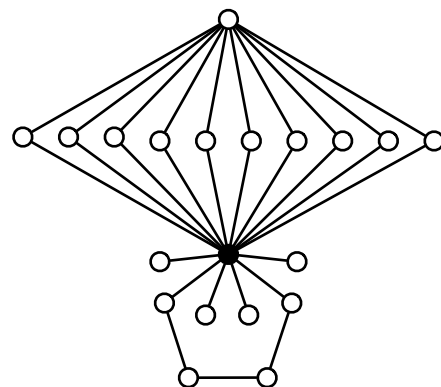
$C_2 \times C_{10}$



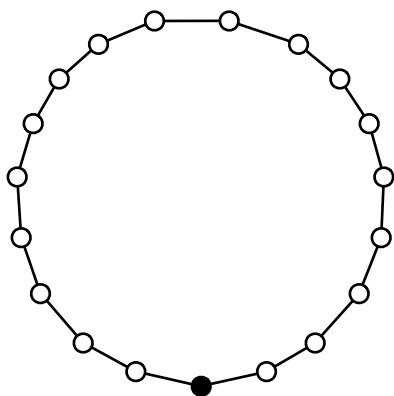
Frobenius(20)



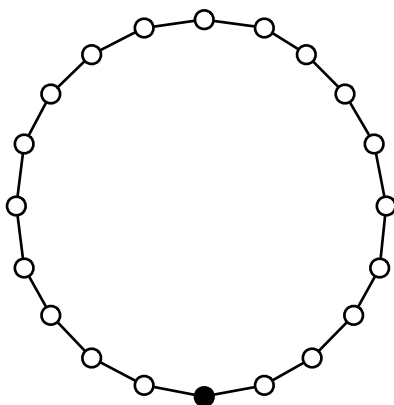
$D_{10}$



$C_4 \times C_5$



$C_{19}$



$C_{20}$