#2(a): Cayley graph of the semidirect product $C_7 \rtimes C_3$, with the nodes labeled by the order of the elements.
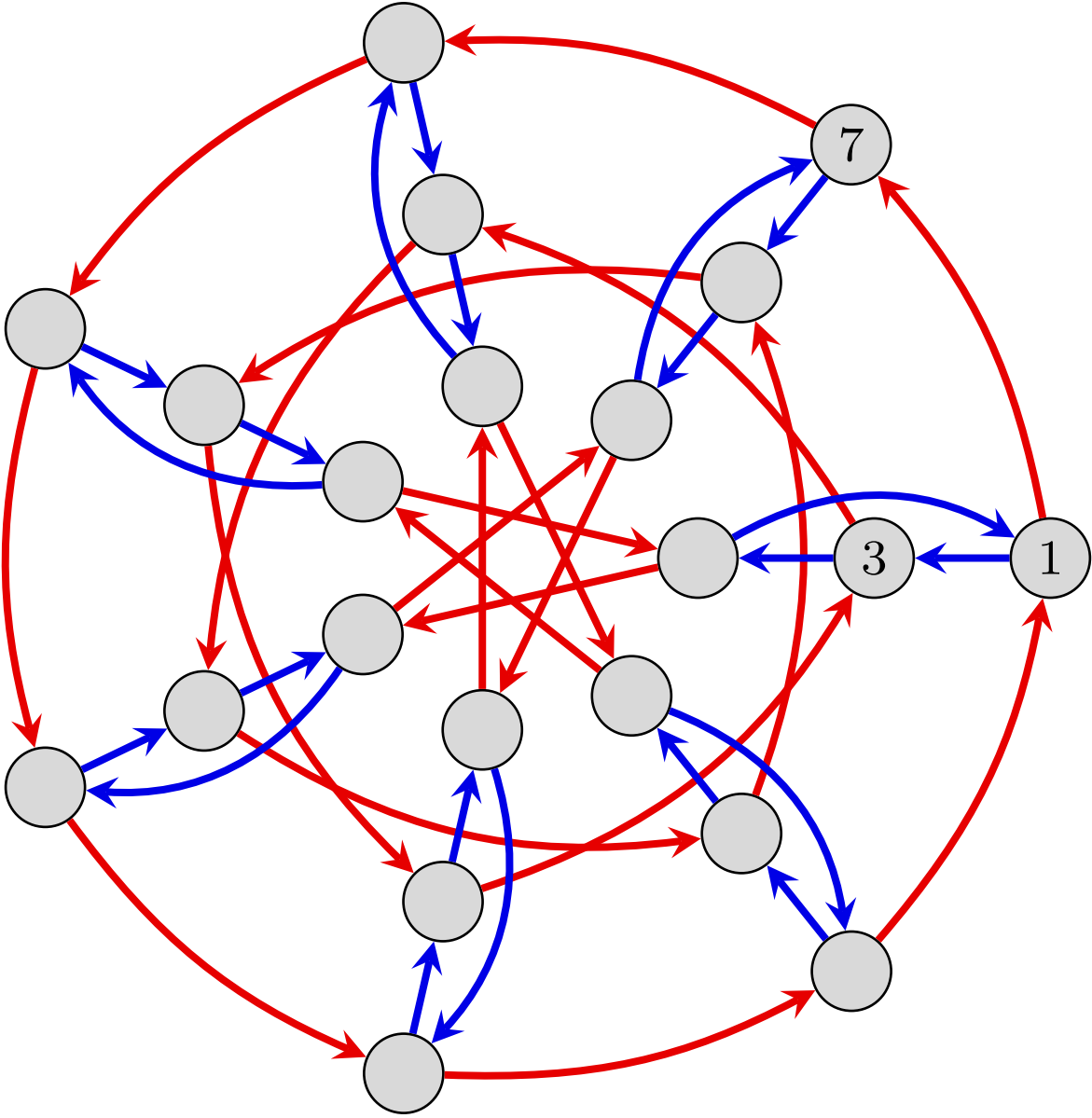
#5: Cayley graph of $C_9 \rtimes C_3 = \langle a, b \rangle = \left\{ a^i b^j \mid 0 \leq i \leq 8,\ 0 \leq j \leq 2 \right\}$.
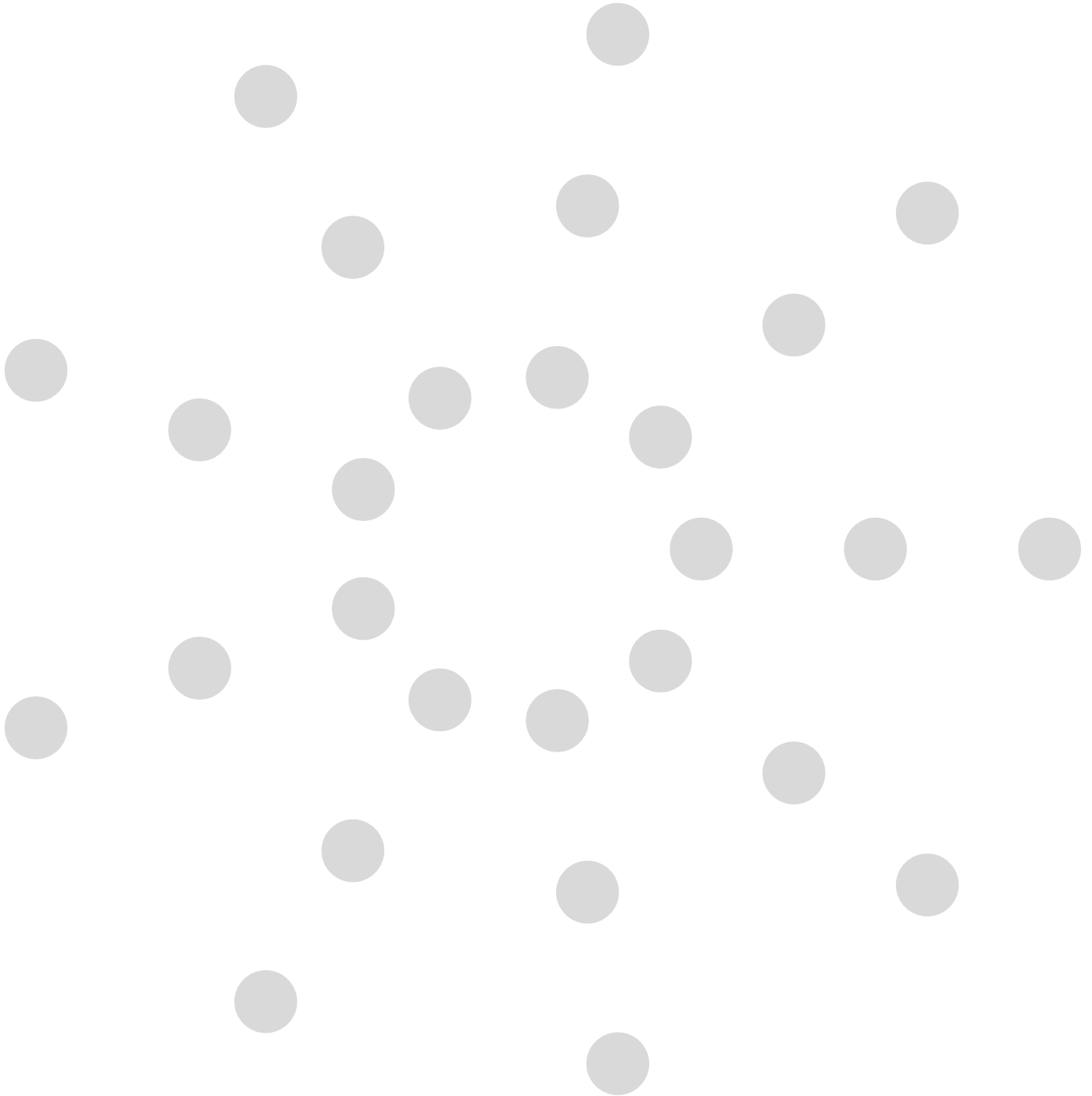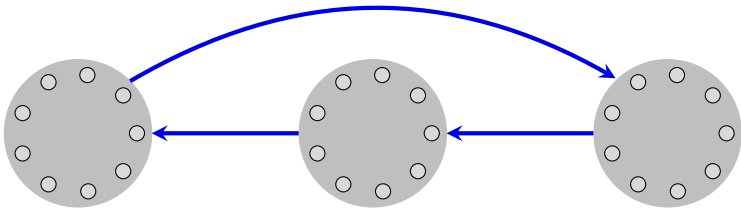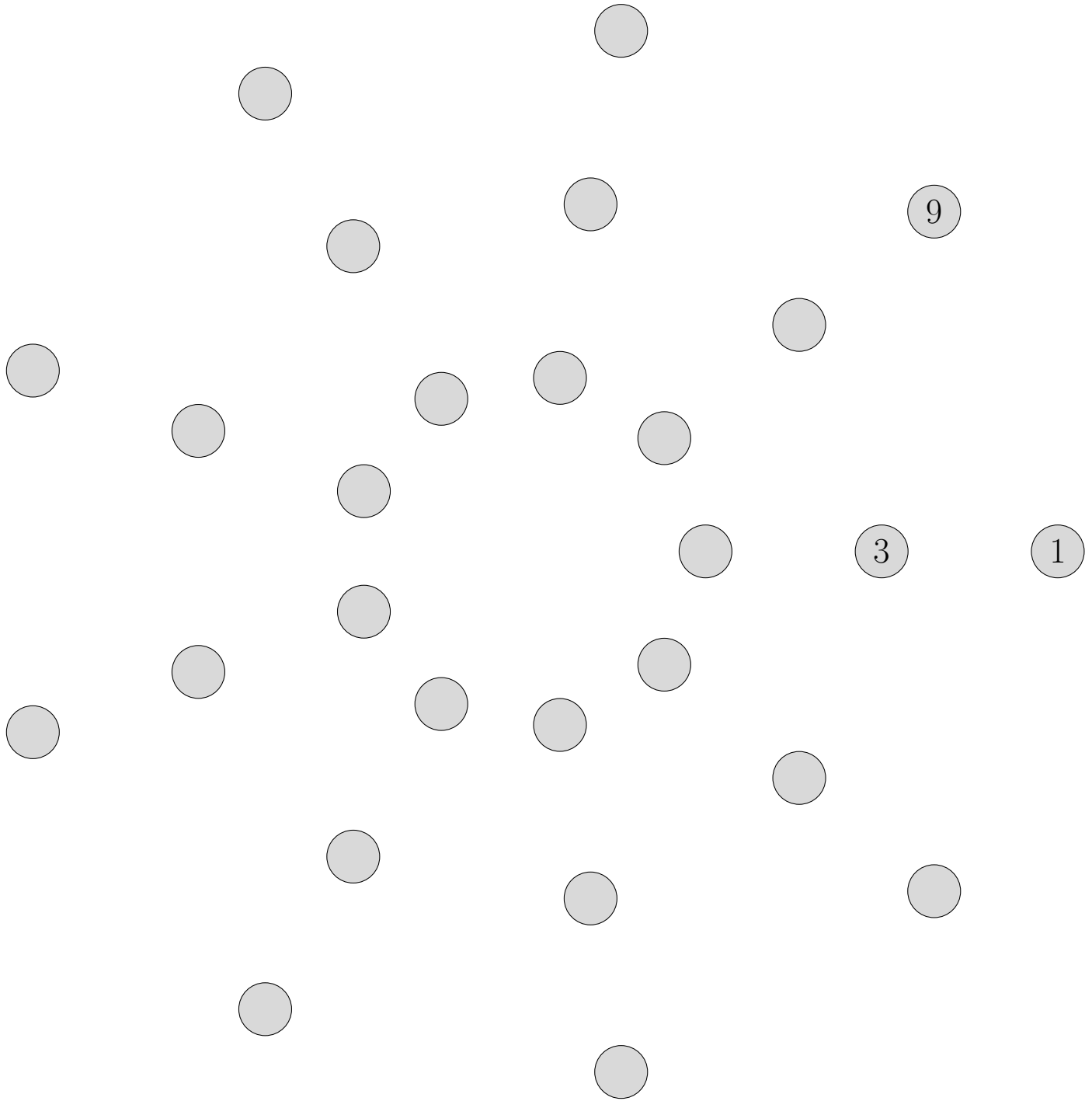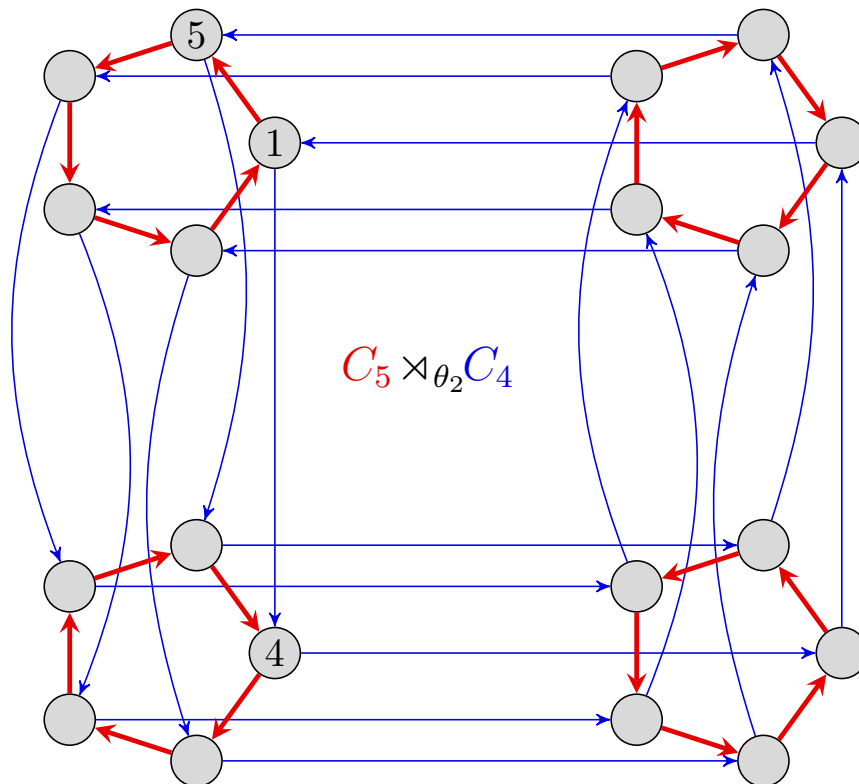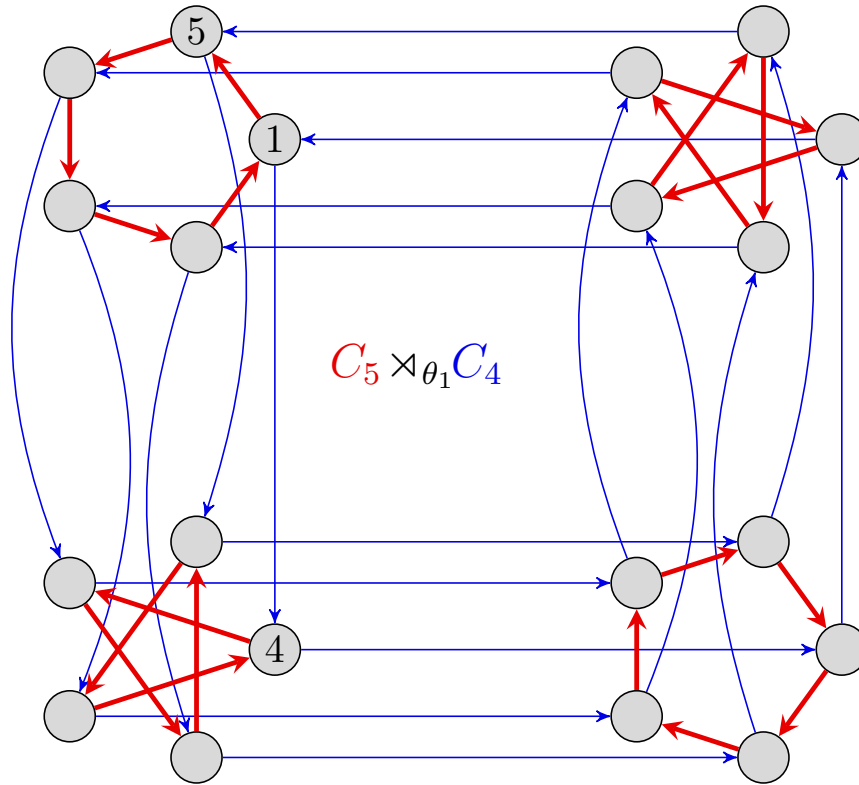
#3(c): The Cayley graph of the semidirect product $C_9 \rtimes C_3$ with the nodes labeled by the order of the corresponding elements.

#4(a): Cayley graphs of two nonisomorphic semidirect products, with the nodes labeled by the order of the corresponding elements.

$C_5 \rtimes_{\theta_1} C_4$

$C_5 \rtimes_{\theta_2} C_4$

#4(b): Subgroup lattices of two semidirect products of C_5 with C_4.

$\langle a, b \rangle$

$\langle 1 \rangle$

$\langle a, b \rangle$

$\langle 1 \rangle$