## Supplemental material for Math 4130, HW 11

\#1: The distinct ways to collapse the Cayley graph of

$$
C_{4} \rtimes C_{4}=\left\langle a, b \mid a^{4}=b^{4}=a b a b^{-1}=1\right\rangle
$$

and the corresponding relation(s) added, if the result is a group.

$$
\cos \begin{aligned}
& a=1 \\
& b=1
\end{aligned}
$$



