Algebra I – autumn 2024 – Homework 4

- 1. Determine all permutations $\rho \in \mathbb{S}_7$ satisfying $\rho^{12} = (1,2) \circ (3,4)$.
- 2. Determine a subgroup of S_4 generated by

 $f = (2, 3, 4) \circ (1, 2, 3) \circ (2, 4)$ and $g = (1, 2, 3) \circ (3, 4)$.