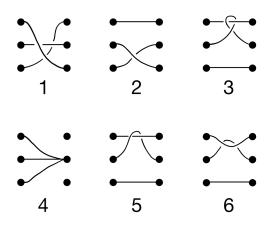
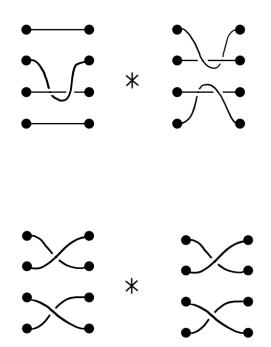


$\label{eq:Grade 9/10 Math Circles} \end{tabular} An Introduction to Group Theory Part 3 - Problem Set$

1. Identify which of the below diagrams are 3-braids.

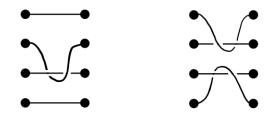


2. Compute the following two concatenations:





3. Compute the inverses of the following two braids:



4. Consider the set B_n of all *n*-braids, where $n \in \{1, 2, 3, ...\}$. Is B_n finite or infinite?