

The graph perspective:



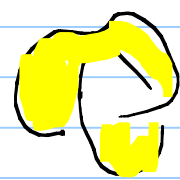
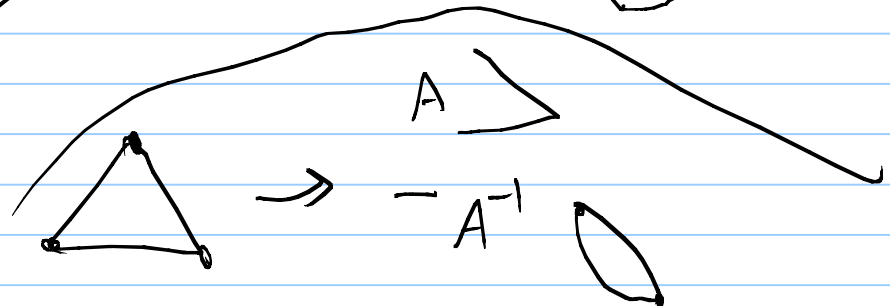
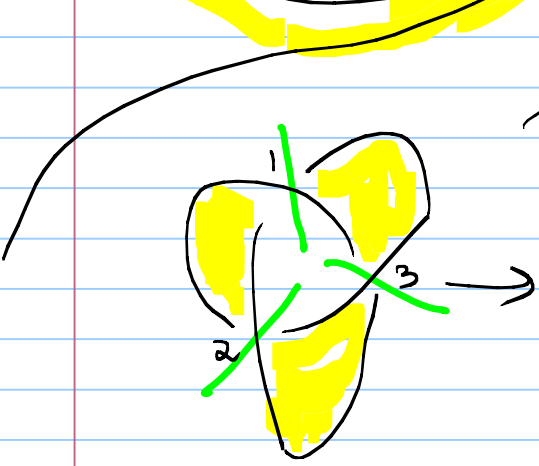
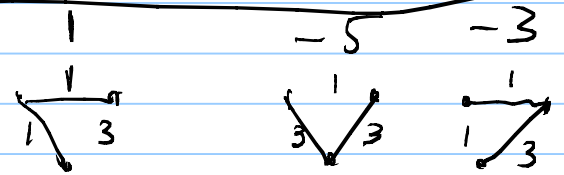
$\rightarrow -A \cdot (\text{edge remove})$
 $A^{-1} \cdot (\text{edge contract})$

So

Tangles



$$J = \sum_{\text{maximal trees}} (\dots)$$



$$\mathbb{Z} \langle A \rangle \rightarrow \mathbb{Z} \langle A^{-1} \rangle$$

