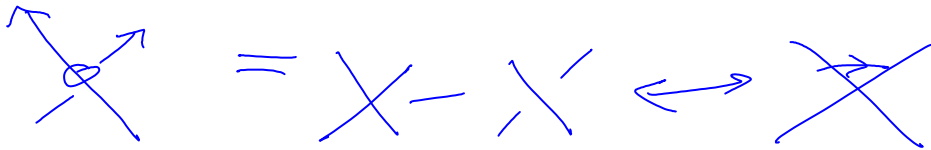
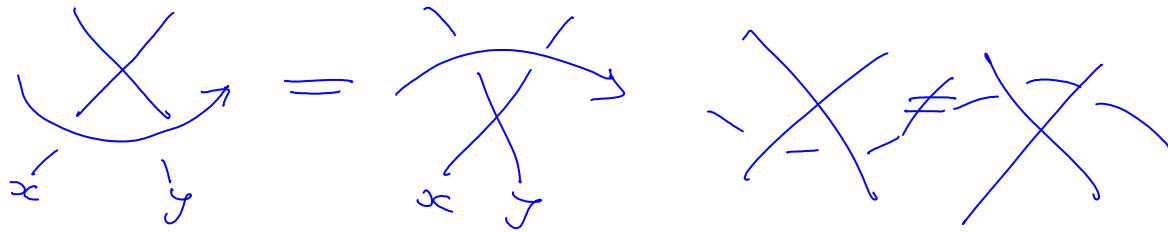


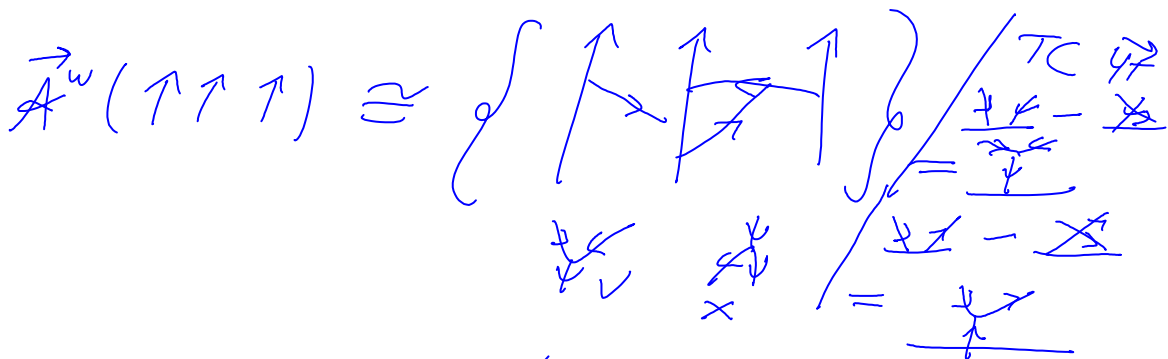
w-knots:



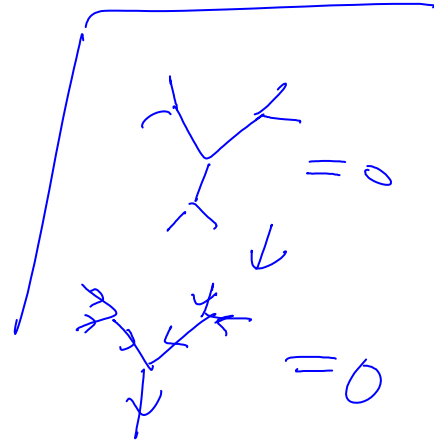
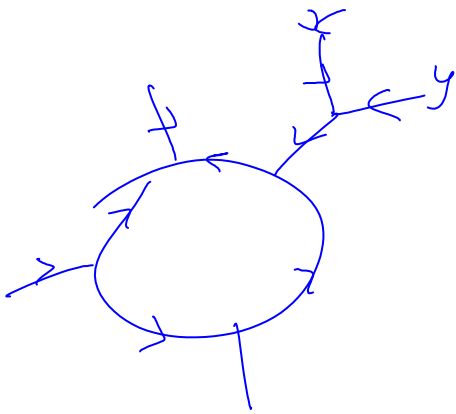
Tails Commute:



4T:



= Trees & wheels/rels.



$$K \rightarrow K^W$$

$$\alpha: A \rightarrow A^W: \longrightarrow \longrightarrow \longrightarrow + \longleftarrow$$

$$X \rightarrow X \xrightarrow{e^a} X = X + X + \frac{1}{2} X + \dots$$

$$X \rightarrow \text{nothing.}$$



$$\rightarrow \exp \sum \alpha_m \cdot \text{[diagram of sphere with points]}$$

$$\begin{aligned} T &= \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix} \\ \det(I - T \cdot (\dots)) \\ &= \dots \end{aligned}$$

$$\begin{array}{ccc} K & \xrightarrow{z^{\text{kon}}} & A \\ \downarrow \alpha & & \downarrow \alpha \\ K^W & \xrightarrow{z^{\text{exp}}} & A^W \end{array}$$

commutes \int_0