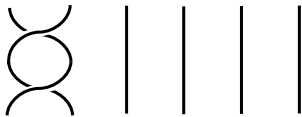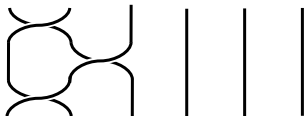$$X_1 = (R_{23})^2$$

$$Z_1 = (R_{12})^2$$

$$U_{H,1} = R_{12}R_{23}R_{12}$$

$$U_{CZ} = R_{12}^{-1}R_{56}^{-1}R_{34}$$