

$$ru_{V^*}^{-1} \circ (\mathrm{Id}_{V^*} \otimes \eta_V) \circ as_{V^*, V, V^*}^{-1} \circ (\epsilon_V \otimes \mathrm{Id}_{V^*}) \circ lu_{V^*} = \mathrm{Id}_{V^*}$$