

$$\begin{array}{ccccc}
 \text{Hom}_{\mathbf{E}}(X; Y) \otimes \text{Hom}_{\mathbf{E}}(Y; Y) & \xrightarrow{\text{ei}_{X, Y, Y}} & \text{Hom}_{\mathbf{E}}(X; Y) & \xleftarrow{\text{ei}_{X, X, Y}} & \text{Hom}_{\mathbf{E}}(X; X) \otimes \text{Hom}_{\mathbf{E}}(X; Y) \\
 \text{id}_{\text{Hom}_{\mathbf{E}}(X; Y)} \otimes \text{em}_Y \uparrow & \nearrow \text{ru} & & \nwarrow \text{lu} & \uparrow \text{em}_X \otimes \text{id}_{\text{Hom}_{\mathbf{E}}(X; Y)} \\
 \text{Hom}_{\mathbf{E}}(X; Y) \otimes \mathbf{1} & & & & \mathbf{1} \otimes \text{Hom}_{\mathbf{E}}(X; Y)
 \end{array}$$