

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