$$\mathrm{Hom}_{\mathbf{C}}\,(X;Y) \otimes \mathrm{Hom}_{\mathbf{C}}\,(Y;Y) \xrightarrow{m_{X,Y,Y}} \mathrm{Hom}_{\mathbf{C}}\,(X;Y) \xleftarrow{m_{X,X,Y}} \mathrm{Hom}_{\mathbf{C}}\,(X;Y) \otimes \mathrm{Hom}_{\mathbf{C}}\,(X;X)$$

$j_Y \otimes \mathrm{Id}_{\mathrm{Hom}_{\mathbf{C}}(X;Y)}$

$\mathrm{Id}_{\mathrm{Hom}_{\mathbf{C}}(X;Y)} \otimes j_X$

lu

ru

$$\mathbf{1} \otimes \mathrm{Hom}_{\mathbf{C}}\,(X;Y)$$

$$\mathrm{Hom}_{\mathbf{C}}\,(X;Y) \otimes \mathbf{1}$$