

$$\begin{array}{ccccc}
X \otimes (Y \otimes Z) & \xrightarrow{\text{Id}_X \otimes \text{br}_{Y,Z}} & X \otimes (Z \otimes Y) & \xrightarrow{\text{as}_{Y,X,Z}^{-1}} & (X \otimes Z) \otimes Y \\
\downarrow \text{as}_{X,Y,Z}^{-1} & & & & \downarrow \text{br}_{X,Z} \otimes \text{Id}_Y \\
(X \otimes Y) \otimes Z & \xrightarrow{\text{br}_{X \otimes Y, Z}} & Z \otimes (X \otimes Y) & \xrightarrow{\text{as}_{Y,Z,X}^{-1}} & (Z \otimes X) \otimes Y
\end{array}$$