

$$\begin{array}{ccc}
 n + (m + p) & \xrightarrow{\alpha_{n,m,p}} & (n + m) + p \\
 \downarrow f+(g+h) & & \downarrow (f+g)+h \\
 n' + (m' + p') & \xrightarrow{\alpha_{n',m',p'}} & (n' + m') + p'
 \end{array}$$