$$\langle 1, \langle 2, b \rangle \rangle \longmapsto \langle 2, \langle 1, b \rangle \rangle \downarrow$$

$$(\mathbf{A} + \mathbf{B}) + \mathbf{C} \xrightarrow{\mathrm{as}_{\mathbf{A}, \mathbf{B}, \mathbf{C}}} \mathbf{A} + (\mathbf{B} + \mathbf{C})$$

$$(f + g) + h \downarrow \qquad \qquad \downarrow f + (g + h)$$

$$(\mathbf{A}' + \mathbf{B}') + \mathbf{C}'_{\mathrm{as}_{\mathbf{A}', \mathbf{B}', \mathbf{C}'}} \mathbf{A}' + (\mathbf{B}' + \mathbf{C}')$$

$$\langle 1, \langle 2, g(b) \rangle \rangle \longmapsto \langle 2, \langle 1, g(b) \rangle \rangle$$