

$$\begin{array}{ccccc}
L(a + b) & \longrightarrow & L(a + b) & \longleftarrow & L(a + b) \\
\uparrow & & \uparrow & & \uparrow \\
L(a + b) & \longrightarrow & L(a + b) & \longleftarrow & L(a + b) \\
\downarrow & & \downarrow^s & & \downarrow \\
L(a + b) & \xrightarrow{s} & La + Lb & \xleftarrow{s} & L(a + b)
\end{array}$$