

$$\begin{array}{ccc}
 \cdot & \xrightarrow{\forall \alpha} & \cdot \\
 \downarrow f & \nearrow \exists s & \downarrow g \\
 \cdot & \xrightarrow{\forall \beta} & \cdot
 \end{array}
 \Leftrightarrow f \sqcap g$$