

\mathcal{C}

$$\begin{array}{ccccc} 1_A & & 1_B & & 1_C \\ \Downarrow & & \Downarrow & & \Downarrow \\ A & \xrightarrow{f} & B & \xrightarrow{g} & C \\ & \searrow & & \nearrow & \\ & g \circ f & & & \end{array}$$