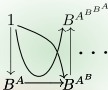




$$\exists f \quad \begin{array}{ccc} 1 & \xrightarrow{f} & B^A \\ A & \xrightarrow{f} & B \end{array}$$



$$\exists g \quad \begin{array}{ccc} 1 & \xrightarrow{g} & B^{A^B} \\ B & \xrightarrow{g} & B^A \end{array}$$



$$\nexists h \quad \begin{array}{ccc} 1 & \xrightarrow{h} & B \\ B^A & \xrightarrow{h} & B^{A^B} \end{array}$$