$$\begin{array}{cccc} X & \xrightarrow{\underline{c}} & Y & \xrightarrow{\underline{c}} & Z & \longrightarrow \\ \downarrow \underline{1_X} & & \downarrow \underline{\varphi} & & \downarrow \underline{1_Z} \\ Y & & \underline{f'} & & Y' & & \underline{g'} & & Z \end{array}$$