

$$\begin{array}{ccc}
\mathrm{Cone}(g \circ f) & \xrightarrow{p(g \circ f)} & X[1] \\
i(g_*) \downarrow & \star & f[1] \downarrow \\
\mathrm{Cone}(g_*) & \xrightarrow{p(g)} & Y[1]
\end{array}$$