

$$\begin{array}{ccc}
 h^n(Y) & \xrightarrow[\cong]{\Sigma} & h^{n+1}(\Sigma Y) \\
 \downarrow f^* & & \downarrow \Sigma f^* \\
 h^n(X) & \xrightarrow[\Sigma]{\cong} & h^{n+1}(\Sigma X)
 \end{array}$$