

$$\begin{array}{ccccccc}
 A & \xhookrightarrow{\alpha} & B & \xrightarrow{\beta} & \twoheadrightarrow & C & \xrightarrow{\gamma} & \Sigma(A) \\
 \parallel & & \downarrow \iota & & \nearrow & & & \\
 A & \xhookrightarrow{\quad} & I_A & & & & &
 \end{array}$$