

$$\begin{array}{ccccc}
 M & \longrightarrow & N & \longrightarrow & \operatorname{coker} \phi \\
 & \searrow & \downarrow \psi & \nearrow \exists! \tilde{\psi} & \\
 & & M' & &
 \end{array}$$

The diagram illustrates a commutative triangle of maps between modules. The top row shows a sequence of maps $M \rightarrow N \rightarrow \operatorname{coker} \phi$. The bottom row shows a map $M' \rightarrow M'$. The left map is labeled 0 . The middle map is labeled ψ . The right map is labeled $\exists! \tilde{\psi}$.