

$$\begin{array}{ccccc}
 & & I & \xlongequal{\quad} & I \\
 & & \downarrow & & \downarrow \\
 X & \xrightarrow{\begin{pmatrix} 0 \\ 1 \end{pmatrix}} & A \oplus X & \xrightarrow{(1,0)} & A \\
 \parallel & & \downarrow (\varphi, \subseteq) & & \downarrow \\
 X & \xrightarrow[\subseteq]{} & Y & \twoheadrightarrow & A/I
 \end{array}$$