

$$\begin{array}{ccccccc}
& & X & \xlongequal{\quad} & X & & \\
& & \downarrow \begin{pmatrix} a_1 \\ b_1 \end{pmatrix} & & \downarrow a_1 & & \\
Y_1 & \xrightarrow{\begin{pmatrix} 1 \\ 0 \end{pmatrix}} & Y_1 \oplus Y_2 & \xrightarrow{(0,1)} & Y_2 & \xrightarrow{0} & Y_1[1] \\
\parallel & & \downarrow (a_2, -b_2) & & \downarrow & & \parallel \\
Y_1 & \xrightarrow{a_2} & Z & \longrightarrow & Q[1] & \xrightarrow{-} & Y_1[1] \\
& & \downarrow h & & \downarrow - & & \downarrow \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\
& & X[1] & \xlongequal{\quad} & X[1] & \xrightarrow{\begin{pmatrix} a_1 \\ b_1 \end{pmatrix}[1]} & Y_1[1] \oplus Y_2[1]
\end{array}$$