

$$\begin{array}{ccc}
 & \xrightarrow{\pi_2} & \\
 \text{P} & \lrcorner & \text{Y} \\
 \pi_1 \downarrow & & \downarrow g \\
 \text{X} & \xrightarrow{f} & \text{Z}
 \end{array}$$