

$$\begin{array}{ccccc}
 A & & F(A) & \xrightarrow{\eta_A + \varepsilon_A} & G(A) \\
 \downarrow f & & \downarrow F(f) & & \downarrow G(A) \\
 B & & F(B) & \xrightarrow{\eta_B + \varepsilon_B} & G(B)
 \end{array}$$