

$$\begin{array}{ccc}
 F(x) & \longrightarrow & F(y) \\
 \downarrow \varphi_x & & \downarrow \varphi_y \\
 G(\Gamma_1(x)) & \longrightarrow & G(\Gamma_1(y)) \\
 \downarrow \varphi'_{\Gamma_1(x)} & & \downarrow \varphi'_{\Gamma_1(y)} \\
 H(\Gamma_2(\Gamma_1(x))) & \longrightarrow & H(\Gamma_2(\Gamma_1(y)))
 \end{array}
 \qquad
 \begin{array}{ccc}
 H(x) & \longrightarrow & H(y) \\
 \downarrow \psi'_x & & \downarrow \psi'_y \\
 G(K_2(x)) & \longrightarrow & G(K_2(y)) \\
 \downarrow \psi_{K_2(x)} & & \downarrow \varphi'_{K_2(y)} \\
 F(K_1(K_2(x))) & \longrightarrow & F(K_1(K_2(y)))
 \end{array}$$