$$A_{1} \xrightarrow{f_{A}} A_{2} \xrightarrow{g_{A}} A_{3} \xrightarrow{\delta_{A}}$$

$$\parallel \qquad \downarrow^{i_{2}} \qquad \downarrow^{y} \qquad \downarrow^{y}$$

$$A_{1} \xrightarrow{i_{2}f_{A}} B_{2} \xrightarrow{x} E \xrightarrow{\eta}$$

$$\downarrow^{p_{2}} \qquad \downarrow^{z}$$

$$C_{2} = = C_{2}$$

$$\downarrow^{\varepsilon_{2}} \qquad \downarrow^{(g_{A})_{*}\varepsilon_{2}}$$