$$\mathrm{Ker}(\varphi - \psi) \xrightarrow{\ e\ } G \mathrel{\substack{\varphi \\ \longrightarrow \\ \longrightarrow \\ 0}} H$$

$$K \xrightarrow{\ \sigma\ }$$

$$\mathrm{Ker}(\varphi - \psi) \xrightarrow{\ e\ } G \mathrel{\substack{\varphi \\ \longrightarrow \\ \longrightarrow \\ 0}} H$$