$0 \longleftarrow \operatorname{Hom}_{R}(M_{1}, M) \stackrel{i^{*}}{\longleftarrow} \operatorname{Hom}_{R}(M_{1} \oplus M_{2}, M) \stackrel{\pi^{*}}{\longleftarrow} \operatorname{Hom}_{R}(M_{2}, M) \longleftarrow 0$