Excise1.[Hartshorne,chapter2,ex.1.16,(b),(c)]

1. If $0 \to \mathcal{F}' \to \mathcal{F} \to \mathcal{F}'' \to 0$ is an exact sequence of sheaves over a topological space X, and if $\mathcal{F}'$ is flasque, then for any open set U, the sequence $0 \to \mathcal{F}'(U) \to \mathcal{F}(U) \to \mathcal{F}''(U) \to 0$ of Abelian groups is also exact.

2. If $0 \to \mathcal{F}' \to \mathcal{F} \to \mathcal{F}'' \to 0$ is an exact sequence of sheaves over a topological space X, and $\mathcal{F}', \mathcal{F}''$ are both flasque, then $\mathcal{F}$ is also flasque.

Excise2.[Hartshorne,chapter3,ex.2.1,(a)]

1. Let $X = \mathbb{A}_k^1$ be the affine line over an infinite field k. Let P,Q be distinct closed points of X, and let $U = X - P - Q$. Show that $H^1(X, \mathbb{Z}_U) \neq 0$