$$\cdots \longrightarrow H_i(\mathbf{R}^n) \longrightarrow H_i(\mathbf{R}^n \setminus \{\mathbf{0}\}) \longrightarrow H_i(\mathbf{R}^n, \mathbf{R}^n \setminus \{\mathbf{0}\}) \longrightarrow H_{i-1}(\mathbf{R}^n) \longrightarrow H_{i-1}(\mathbf{R}^n \setminus \{\mathbf{0}\}) \longrightarrow \cdots.$$