## Exercise sheet 10

- 1. Prove that if  $f,g:|K|\to |L|$  are homotopic to each other, then  $f_*,g_*:$   $\mathrm{H}_n(K)\to\mathrm{H}_n(L)$  are equal.
- 2. Prove that any continuous map  $f:B^n\to B^n$  has a fixed point.