

## Exercises

E15.2 [1BW] Let  $f : [a, b] \rightarrow \mathbb{R}$  continuous and such that

$$\int_a^b f(x)g(x) \, dx = 0$$

for any  $g : [a, b] \rightarrow \mathbb{R}$  continuous: prove that  $f \equiv 0$ .