Exercises

E7.31 [OFO] Note: *Exam of 9th APr 2011.* Let (a_n) be a sequence of real numbers (not necessarily positive) such that the series $\sum_{n=1}^{\infty} a_n$ converges to $a \in \mathbb{R}$; let $b_n = \frac{a_1+\cdots+a_n}{n}$; show that if the series $\sum_{n=1}^{\infty} b_n$ converges then $a = 0$.