

Exercises

E7.43 [OFK] (Proposed on 2022-12-13) If the series $\sum_{n=0}^{\infty} a_n$ and $\sum_{n=0}^{\infty} b_n$ converge absolutely, show that the series $\sum_{n=0}^{\infty} c_n$ converges absolutely and

$$\sum_{n=0}^{\infty} c_n = \sum_{n=0}^{\infty} a_n \sum_{n=0}^{\infty} b_n \quad .$$