Exercises

E7.3 [OCV]Prerequisites:[OB9],[OBQ].*(Solved on 2022-11-24)* Let a_n, b_n real valued sequences, show that

$$\limsup_{n\to\infty}(a_n + b_n) \le (\limsup_{n\to\infty} a_n) + (\limsup_{n\to\infty} b_n) \ ;$$

find a case where inequality is strict.

Solution 1. *[OCW]*