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Monotony and convergence of recursive sequences. (Monotonia şi convergenţa unor şiruri recurente.)

Gaz. Mat., Ser. B 119, No. 12, 552-557 (2014).

Summary: Given a real-valued function, we consider three real sequences defined as convex combinations. For a increasing function we infer that the sequences are monotonic, while for a continuous function we have convergent sequences. Some applications are presented.

Classification: I30
Keywords: recursive sequences; iterations; monotony; convergence; fixed points