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Escalator Number Sequences,

Fibonacci Quart. **46/47** (2008/2009), no. 2, 98–102.

Abstract

An escalator sequence is an infinite sequence of rational numbers such that each partial sum is equal to the corresponding partial product. An escalator number is one of these partial sums, where at least the first two numbers of the sequence are included. So for each escalator sequence, there is an associated sequence of escalator numbers. In this paper we consider to what degree a single escalator number determines an associated sequence of escalator numbers in which it appears.