

Psychedelic art in geometry

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Psychedelic art in the geometry of location of the elements of sequence

$$a_{n+1} = |a_n| - a_{n-1}, \quad n \geq 1,$$

where a_0 and a_1 are the complex numbers, but they cannot be simultaneously the real numbers. The successive elements of the sequence $\{a_n\}$ in the Gauss plane are connected with the lines.

The obtained geometric figures do not possess any axis of symmetry, even though they look like the symmetric figures – it is just an illusion!

More facts concerning the given sequence can be found in paper: H. Hanslik, E. Hetmaniok, I. Sobstyl, M. Pleszczyński, R. Wituła: *Orbits of the Kaprekar's transformations – some introductory facts*, Scientific Notes of Silesian University of Technology, series: Applied Mathematics, in print (the paper will be available online).