

Clark Kimberling

Beatty Sequences and Wythoff Sequences, Generalized,
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Abstract

Joint rankings of certain sets yield sequences called lower and upper s -Wythoff sequences. These generalizations of the classical Wythoff sequences include pairs of complementary Beatty sequences, both non-homogeneous and homogeneous. There is a unique sequence Ψ such that the Ψ -Wythoff sequence of Ψ is Ψ . Finally, the Beatty discrepancy of a certain form of complementary equation is determined.