

Ovidiu D. Bagdasar and Peter J. Larcombe
On the Number of Complex Horadam Sequences with a Fixed Period,
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Abstract

The Horadam sequence is a direct generalization of the Fibonacci numbers in the complex plane, depending on a family of four complex parameters: two recurrence coefficients and two initial conditions. Here the Horadam sequences with a given period are enumerated. The result generates a new integer sequence whose representation involves some well-known functions such as Euler's totient function φ and the number of divisors function ω .