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Divisibility properties of factors of the discriminant of generalized Fibonacci numbers.
(English) Zbl 07391638
Fibonacci Q. 59, No. 1, 65-77 (2021)

Summary: We study some divisibility properties related to the factors of the discriminant of the characteristic polynomial of generalized Fibonacci numbers \((G_n)_{n \geq 0}\) defined by \(G_0 = 0\), \(G_1 = 1\), and \(G_n = pG_{n-1} + qG_{n-2}\) for \(n \geq 2\), where \(p\) and \(q\) are given integers. As corollaries, we give some divisibility properties of some well-known sequences.

MSC:
11Bxx Sequences and sets

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