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Differences of Gibonacci Products with the Same Order,
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Abstract

We investigate differences of the form $\prod_{i \geq 1} g_{n+r_i}^{a_i} - \prod_{i \geq 1} g_{n+s_i}^{b_i}$, where $g_j = g_j(x)$ denotes the j th gibbonacci (Fibonacci, Lucas, Pell, or Pell-Lucas) polynomial; n, r_i , and s_i are integers; $a_i, b_i \geq 0$; $\sum a_i = \sum b_i$ denotes the order m of each product, and $m = 2$ or 3 . This investigation yields interesting byproducts.