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Binet-like formulas from a simple expansion,
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Abstract

In this article we consider sequences arising from the expansions of certain simple expressions involving the golden ratio. The n th terms of these sequences are given by Binet-like formulas, and indeed Binet's formula for the Fibonacci numbers appears as a special case. We study here, via our general formulas, the extent to which three well-known mathematical properties of the Fibonacci sequence are mirrored in our more general sequences.