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Weighted Sums of Some Second-Order Sequences,
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Abstract

We derive weighted summation identities involving the second-order recurrence sequence $\{w_n\} = \{w_n(a, b; p, q)\}$ defined by $w_0 = a$, $w_1 = b$; $w_n = pw_{n-1} - qw_{n-2}\,(n \geq 2)$, where a, b, p, and q are arbitrary complex numbers, with $p \neq 0$ and $q \neq 0$.