

INTRODUCTION TO THIRD-ORDER JACOBSTHAL AND MODIFIED THIRD-ORDER JACOBSTHAL HYBRINOMIALS

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Abstract

The hybrid numbers are generalization of complex, hyperbolic and dual numbers. In this paper, we introduce and study the third-order Jacobsthal and modified third-order Jacobsthal hybrinomials, i.e., polynomials, which are a generalization of the Jacobsthal hybrid numbers and the Jacobsthal-Lucas hybrid numbers, respectively.

Keywords: third-order Jacobsthal numbers, recurrence relations, complex numbers, hyperbolic numbers, dual numbers, polynomials.

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