

ON THE NOVEL GENERALIZATIONS OF THE PADOVAN SEQUENCE

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ABSTRACT. In the present work, we consider the Padovan sequence and define a sequence (called Quadrován) that is a new generalization. In addition, we give the previously defined Tridovan sequence as a generalization of the Padovan sequence. We derive the Binet-like formulas, the generating functions and the exponential generating functions for the Tridovan and Quadrován sequences. Also, we establish their series and matrices.

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