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Generalized Chebyshev polynomials and Pell–Abel equation

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Abstract: In this paper the question of the compositional reducibility of generalized Chebyshev polynomials is solved by studying the combinatorial structure of plane trees. As a particular case we deduce the criterion of minimality of the solution of Pell–Abel equation corresponding to a given plane tree. Some other applications are also considered.

● **Full text** (in Russian): [PDF file](#) (1119 kB)

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2. Djordjevic G.B., "Polynomials Related to Generalized Chebyshev Polynomials", *Filomat*, **23**:3 (2009), 279–290 [crossref](#) [ZentralMATH](#)
3. Ganguli H., Jankauskas J., "On the Equation $F(G(X)) = F(X)H(M)(X)$ for Composite Polynomials", *J. Aust. Math. Soc.*, **92**:2 (2012), 155–161 [crossref](#) [MathSciNet](#) [ZentralMATH](#)



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