



Chebyshev-like Polynomials and Gegenbauer Polynomials

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Abstract

In [T. Takebayashi, On Chebyshev-like polynomials, *Pioneer J. Math. Math. Sci.* 26(1) (2019), 17-21], [T. Takebayashi, Chebyshev-like polynomials, *Pioneer J. Math. Math. Sci.* 26(1) (2019), 23-28], we defined some Chebyshev-like polynomials according to the idea of C. Cesarano [C. Cesarano, Identities and generating functions on Chebyshev polynomials, *Georgian Mathematical Journal* 19(3) (2012), 427-440], [C. Cesarano, Generalized Chebyshev polynomials, *Hacet. J. Math. Stat.* 43(5) (2014), 731-740], [C. Cesarano, Multi-dimensional Chebyshev polynomials: a non-conventional approach, *Commun. Appl. Ind. Math.* 10(1) (2019), 1-19]. Further, we define more general Chebyshev-like polynomials in those concepts.

Keywords and phrases: Chebyshev-like polynomial, Gegenbauer polynomials.

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