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The classical orthogonal polynomials arise from a differential equation of the form. Q (x) f ″ + L (x) f ′ + λ f = 0. {\displaystyle Q (x)\,f''+L (x)\,f'+\lambda f=0} where Q is a given quadratic (at most) polynomial, and L is a given linear polynomial. The function f, and the constant λ, are to be found.

Classical orthogonal polynomials - Wikipedia

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The classical orthogonal polynomials and the systems obtained from them by linear transformations of the independent variable can be characterized as the systems of orthogonal polynomials which satisfy any one of the following three properties (cf.): 1) the derivatives of the polynomials again form a system of orthogonal polynomials;

Classical orthogonal polynomials - Encyclopedia of Mathematics
Classical and quantum orthogonal polynomials in one variable J. J. Foncannon 1 The Mathematical Intelligencer volume 30 , pages 54 – 60 (2008) Cite this article

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In mathematics, an orthogonal polynomial sequence is a family of polynomials such that any two different polynomials in the sequence are orthogonal to each other under some inner product.. The most widely used orthogonal polynomials are the classical orthogonal polynomials, consisting of the Hermite polynomials, the Laguerre polynomials and the Jacobi polynomials together with their special ...

Orthogonal polynomials - Wikipedia
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The word “quantum” in the title of the book under review is an allusion to this, in that q-analogues of the classical orthogonal polynomials occur in

the representation theory of quantum groups. We now know many more examples of orthogonal polynomials than Szegö did, but more is true.

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Classical and Quantum Orthogonal Polynomials in One Variable Mourad E.H. Ismail University of Central Florida With two chapters by Walter Van Assche

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A 'missing' family of classical orthogonal polynomials ...

3-term relation and the measure, which was the birthplace of the theory of orthogonal polynomials in XIXth century. Then in sec.3, we describe the standard classical viewpoint (Askey scheme) on the hypergeometric orthogonal polynomials, which puts the main emphasize on the second order differential (or difference, if the