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Polynomial Identities And Combinatorial Methods

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In mathematics, the polynomial method is an algebraic approach

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to combinatorics problems that involves capturing some combinatorial structure using polynomials and proceeding to argue about their algebraic properties. Recently, the polynomial method has led to the development of remarkably simple solutions to several long-standing open problems. The polynomial method encompasses a wide range of specific techniques for using polynomials and ideas from areas such as algebraic geometry to solve com

Polynomial method in combinatorics - Wikipedia

ISBN: 0824740513 9780824740511: OCLC Number: 52538282: Description: ix, 422 pages : illustrations ; 26 cm. Contents: 1. Linearization Method of Computing Z^2 -Codimensions of Identities of the Grassmann Algebra / N. Anisimov --2. Cocommutative Hopf Algebras Acting on Quantum Polynomials and Their Invariants / Vyacheslav A. Artamonov --3.. Combinatorial Properties of Free Algebras of ...

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Finally we prove certain combinatorial identities that arise from the polynomial $A_n(x)$. Let $T_n(x)$ and $U_n(x)$ be the Chebyshev's polynomial of the first kind and second kind of degree n , respectively. For $n \geq 1$, $U_{2n-1}(x) = 2T_n(x)U_{n-1}(x)$ and $U_{2n}(x) = (1 - x^2)A_n(x)A_n'(x)$, where $A_n(x) = \sum_{k=0}^n \binom{n}{k} (x \cos \theta)^k = 2^{-n} (2n+1)!$.

[PDF] On Chebyshev's Polynomials and Certain Combinatorial ...

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3. Identities for the characteristic polynomial and 1Vlius function In this section we present our principal results giving, via arguments for the broken-circuit complex, combinatorial interpretations for the quotient and remainder when $X(G)$ is divided by $X(x)$ for a flat (or subgeometry) x .

Several identities for the characteristic polynomial of a ...

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...
problem of (1), and they used the elementary method and some complex calculation to obtain three identities for (2) with $k = 3, 5, 7$. In this paper, as a comment on article [18], we will study this problem again and give an effective calculation of formula (1), by using the basic and combinatorial methods.

Some Types of Identities Involving the Legendre Polynomials

Based on a pair of reciprocal relations due to H. W. Gould and L. C. Hsu [Duke Math. J. 40, 885-891 (1973; Zbl 0281.05008)], a general attack for verifying and discovering binomial identities is ...

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