

TOPIC: UNDERSTANDING POLYNOMIAL FUNCTIONS

Intro to Polynomial Functions

- You will need to know how recognize polynomial functions & their graphs.

- Recall: Polynomials have *only* positive whole number exponents (*no negatives, no fractions*)

- Standard form: Like terms combined & in descending order of power

$$f(x) = a_n x^n + a_{n-1} x^{n-1} + \cdots + a_1 x + a_0$$

Degree n (highest exponent)

$$\text{---} = 6x^3 + 3x^2 + 5x + 4$$

Leading Coefficient Coefficients Constant

EXAMPLE: Determine if each function is a polynomial function. If so, put in standard form. State **degree** & **leading coeff.**

(A)

$$f(x) = -x^2 + 5x^3 - 6x + 4$$

Polynomial function? ☐

Polynomial

(B)

$$f(x) = 2x^{\frac{1}{2}} + 3$$

Polynomial function? ☐

Polynomial

(C)

$$f(x) = -\frac{2}{3}x^4 + 3$$

Polynomial function? ☐

Polynomial



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Michael Rajnik



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Quadratic and Other Polynomial Functions Michael Wheal,1999 **Polynomial functions** Burt Kaufman,1967 *An Original Formula that Produces Polynomial Functions with Integral Critical Points and Zeros. Will the Classroom Teacher Use It?*. Roy C. Gregory,1989 *Polynomials and Equations* K. T. Leung,I. A. C. Mok,S. N. Suen,1992 Primarily a textbook to prepare Sixth Form students for public examinations in Hong Kong this book is also useful as a reference for undergraduate students since it contains some advanced theory of equations beyond the sixth form level Polynomial Approximation of Differential Equations Daniele Funaro,1992-04-22 This book is devoted to the analysis of approximate solution techniques for differential equations based on classical orthogonal polynomials These techniques are popularly known as spectral methods In the last few decades there has been a growing interest in this subject As a matter of fact spectral methods provide a competitive alternative to other standard approximation techniques for a large variety of problems Initial applications were concerned with the investigation of periodic solutions of boundary value problems using trigonometric polynomials Subsequently the analysis was extended to algebraic polynomials Expansions in orthogonal basis functions were preferred due to their high accuracy and flexibility in computations The aim of this book is to present a preliminary mathematical background for beginners who wish to study and perform numerical experiments or who wish to improve their skill in order to tackle more specific applications In addition it furnishes a comprehensive collection of basic formulas and theorems that are useful for implementations at any level of complexity We tried to maintain an elementary exposition so that no experience in functional analysis is required **Polynomial functions on $\mathbb{O}$** . Barry William Wetherilt,1981 Graph Polynomials Yongtang Shi,Matthias Dehmer,Xueliang Li,Ivan Gutman,2017 10 Alliance Polynomial 11 Graph Polynomials and Set Functions Index **Complex Polynomials** T. Sheil-Small,2002-11-07 This book studies the geometric theory of polynomials and rational functions in the plane Any theory in the plane should make full use of the complex numbers and thus the early chapters build the foundations of complex variable theory melding together ideas from algebra topology and analysis In fact throughout the book the author introduces a variety of ideas and constructs theories around them incorporating much of the classical theory of polynomials as he proceeds These ideas are used to study a number of unsolved problems bearing in mind that such problems indicate the current limitations of our knowledge and present challenges for the future However theories also lead to solutions of some problems and several such solutions are given including a comprehensive account of the geometric convolution theory This is an ideal reference for graduate students and researchers working in this area **Polynomials and Polynomial Functions** Feng-Kuo Huang,2000 Polynomial Functions Geoffrey A. Ricketts,1971 Signature Varieties of Polynomial Functions Thomas Hannan Wears,2011 **Investigation of Polynomial Functions and Equations by Finite Differences** Hughes Bayne Hoyle,1965 **The Algebra of Polynomial Functions on a Non-associative Algebra** David R. Finston,1983 Polynomial Functions Lyudmyla Amundson,2013

Rational Periodic and Preperiodic Points of Polynomial Functions Paul Reschke, 2004 **Local Polynomial Functions on Semilattices** Peter Alexander Grossman, 1979 **Orthogonal Polynomials and Special Functions** Richard Askey, 1975-01-01 Originally presented as lectures the theme of this volume is that one studies orthogonal polynomials and special functions not for their own sake but to be able to use them to solve problems The author presents problems suggested by the isometric embedding of projective spaces in other projective spaces by the desire to construct large classes of univalent functions by applications to quadrature problems and theorems on the location of zeros of trigonometric polynomials There are also applications to combinatorial problems statistics and physical problems **Complex Numbers; Polynomial Functions [By] Charles C. Carico. Consulting Editor** Charles C. Carico, 1974 Theory of Uniform Approximation of Functions by Polynomials Vladislav K. Dzyadyk, Igor A. Shevchuk, 2008-09-25 A thorough self contained and easily accessible treatment of the theory on the polynomial best approximation of functions with respect to maximum norms The topics include Chebychev theory Weierstra theorems smoothness of functions and continuation of functions
Polynomials, Power Series, and Calculus Howard Levi, 1967

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