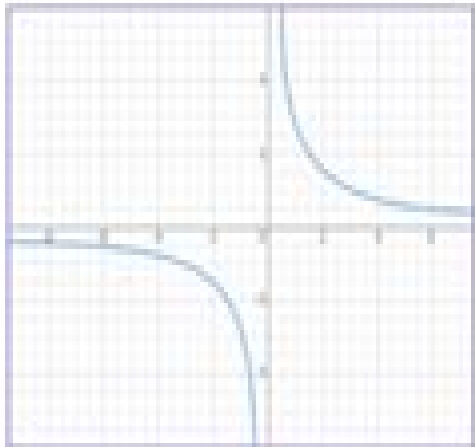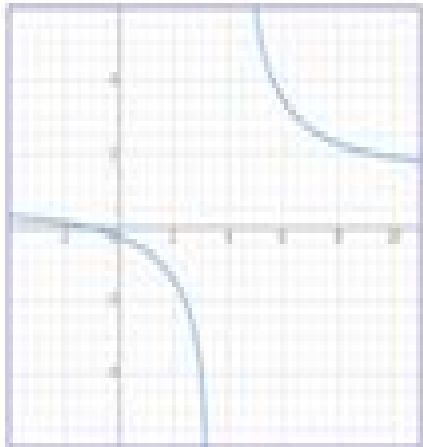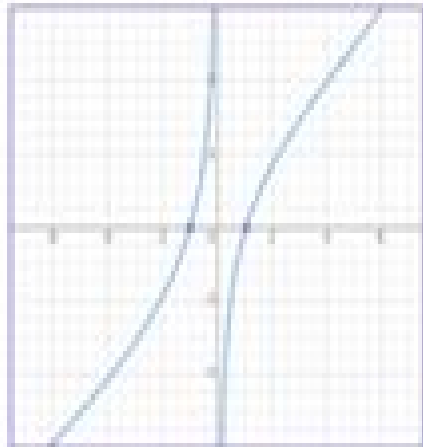# Rational Functions

Rational functions or algebraic fractions are functions that are fractions because they have a numerator and denominator. Rational functions are expressed as the ratio of two polynomials such that the denominator is not equal to 0.

$$R(x) = \frac{p(x)}{q(x)} \quad \text{where } q(x) \neq 0.$$

Here are the three types of rational functions and the graph of the functions:

Degree of the numerator is < Degree of the denominator	Degree of the numerator is = Degree of the denominator	Degree of the numerator is > Degree of the denominator
$f(x) = \dfrac{3}{x}$	$f(x) = \dfrac{x+1}{x-4}$	$f(x) = \dfrac{x^2-1}{x}$

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    Concepts of Function Theory Jürgen Müller,2025-03-01 This textbook presents a direct path from real analysis of one variable to function theory Classical topics of one dimensional real analysis such as differential and integral calculus are largely presented from a complex perspective The goal is a self contained exposition extending to the Runge theorems and the dynamics of entire functions Short sections appended to each chapter on concepts of function theory provide glimpses into higher dimensional analysis and an impression of its universal significance for mathematics The book is structured so that parts can also serve as a basis for a seminar Thus this fascinating area of mathematics becomes accessible to students whose programs do not focus on mathematics and for whom a classical introduction to function theory would be too time consuming This book enables them to take a step into complex analysis through which they can recognize a multitude of connections that remain hidden in real analysis The translation was done with the help of artificial intelligence A subsequent human revision was done primarily in terms of content   **Fundamentals of the Analytical Mechanics of Shells** Nikolaĭ Aleksandrovich Kilʹchevskiĭ,1965   Complex Analysis with MATHEMATICA® William T. Shaw,2006-04-20 This book presents a way of learning complex analysis using Mathematica Includes CD with electronic version of the book

    Noniterative Coordination in Multilevel Systems Todor Stoilov,2012-12-06 Multilevel decision theory arises to resolve the contradiction between increasing requirements towards the process of design synthesis control and management of complex systems and the limitation of the power of technical control computer and other executive devices which have to perform actions and to satisfy requirements in real time This theory rises suggestions how to replace the centralised management of the system by hierarchical co ordination of sub processes All sub processes have lower dimensions which support easier management and decision making But the sub processes are interconnected and they influence each other Multilevel systems theory supports two main methodological tools decomposition and co ordination Both have been developed and implemented in practical applications concerning design control and management of complex systems In general it is always beneficial to find the best or optimal solution in processes of system design control and management The real tendency towards the best optimal decision requires to present all activities in the form of a definition and then the solution of an appropriate optimization problem Every optimization process needs the mathematical definition and solution of a well stated optimization problem These problems belong to two classes static optimization and dynamic optimization Static optimization problems are solved applying methods of mathematical programming conditional and unconditional optimization Dynamic optimization problems are solved by methods of variation calculus Euler Lagrange method maximum principle dynamical programming   Antennas Boris Levin,2024-12-26 This book describes both known and new results In the sections devoted to the use of integral equations for the current in a linear metal radiator the focus is on Leontovich s equation An advantage of this equation is the simplicity of the solution and the absence of the argument in it because the

integration over already performed The refined solution makes it possible to determine the total sum of the series for the current which is close to the known solution including only the first terms The results of the synthesis of different types of antennas with capacitive loads are presented which makes it possible to implement Hallen s hypothesis about the usefulness of applying such loads to create an in phase current distribution in antennas and to obtain required characteristics New results include the widespread use of the complex potential method in relation to the calculation of capacitive structures in homogeneous and inhomogeneous media antenna patterns and flows of electrical fields between antenna elements and in the surrounding space In particular the analysis of field flows makes it possible to substantiate a rigorous method for analyzing microstrip antennas The characteristics of antennas in various conditions of their installation are considered and compared The results of the use of multi floors structures that provide in the wide frequency range the radiation in direction perpendicular to the antenna axis and structures that make it possible to reduce the mutual influence of antennas located at different heights on a common mast are described   Wide-Range Antennas Boris Levin,2019-02-21 Expanding the range of antenna frequency is the main objective of this book Solutions proposed are based on the development of new theoretical methods for analyzing and synthesizing antennas The book shows that concentrated capacitive loads connected along linear and V antennas provide a high level of matching with a cable over a wide frequency range and improves directional characteristics of antennas i e increases the communication distance New theoretical methods are proposed for analysis and synthesis of antennas under consideration 1 method of calculating directional characteristics of radiators with a given current distribution and 2 method of electrostatic analogy for calculating mutual and total fields of complex multi element radiating structures These methods allow us to obtain optimal directional characteristics for director type antennas arrays of Yagi Uda and log periodic antennas with concentrated capacitances and show that use of capacitors makes it possible to extend the frequency range of the director antennas and to decrease dimensions of the log periodic antennas Multi element flat and three dimensional self complementary antennas with different variants of connecting generator poles and cable wires to antenna elements are proposed which improves the matching with a cable Characteristics of flat structures are compared with characteristics of volume structures conical parabolic and located on a pyramid edges The book describes new versions of transparent antennas antennas for cellular communication multi tier and multi radiator antennas and much more   **Synergetics and Dynamic Instabilities** G. Caglioti,L. Lugiato,H. Haken,1988-01-01 This collection of papers presented at the Enrico Fermi School considers the subject of synergetics as a firmly established field of interdisciplinary research ranging from physics chemistry and biology to subjects like economy and sociology These proceedings focus on the natural sciences   **Bulletin (new Series) of the American Mathematical Society** ,1985   **Bulletin of the American Mathematical Society** ,1985   Theoretical Considerations on Discharge Measurements by the Allen Method Pierre de Haller,1938   **2000 IEEE International Symposium on Performance Analysis of Systems and Software** IEEE

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