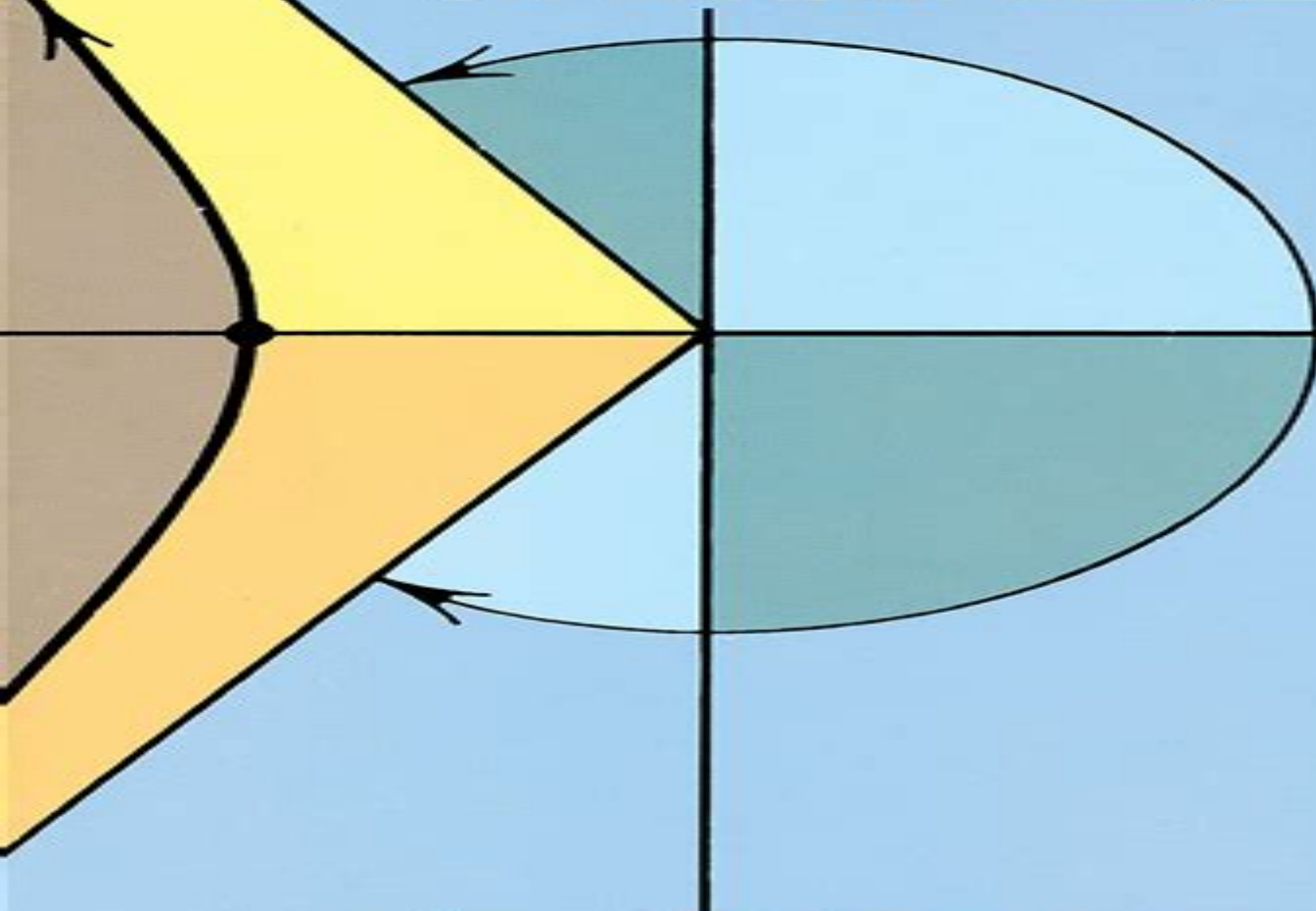


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Science and Hypothesis Henri Poincaré, 2012-08-21 Nontechnical essays on hypothesis in physical theory concept of number magnitude force intuition vs logic more Chapters include On the Nature of Mathematical Reasoning Mathematical Magnitude and Experiment and The Calculus of Probabilities

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It is assumed that the reader possesses an acquaintance with algebra and trigonometry as well as some familiarity with graphs. Additional background material is presented as needed. *An Introduction to Mathematical Taxonomy* G. Dunn, B. S. Everitt, 2012-04-30. Students of mathematical biology discover modern methods of taxonomy with this text which introduces taxonomic characters, the measurement of similarity, and the analysis of principal components. Other topics include multidimensional scaling, cluster analysis, identification, and assignment techniques. More familiarity with matrix algebra and elementary statistics are the sole prerequisites. **Combinatorial Optimization** Eugene Lawler, 2012-10-16. Perceptive text examines shortest paths, network flows, bipartite and nonbipartite matching, matroids, and the greedy algorithm, matroid intersections, and the matroid parity problems. Suitable for courses in combinatorial computing and concrete computational complexity. *Introduction to Partial Differential Equations and Hilbert Space Methods* Karl E. Gustafson, 1999-01-01. This volume offers an excellent undergraduate level introduction to the main topics, methods, and applications of partial differential equations. Chapter 1 presents a full introduction to partial differential equations and Fourier series as related to applied mathematics. Chapter 2 begins with a more comprehensive look at the principal method for solving partial differential equations, the separation of variables, and then more fully develops that approach in the contexts of Hilbert space and numerical methods. Chapter 3 includes an expanded treatment of first order systems, a short introduction to computational methods, and aspects of topical research on the partial differential equations of fluid dynamics. With over 600 problems and exercises along with explanations, examples, and a comprehensive section of answers, hints, and solutions, this superb, easy-to-use text is ideal for a one semester or full year course. It will also provide the mathematically inclined layperson with a stimulating review of the subject's essentials. *The Theory of Algebraic Numbers* Harry Pollard, Harold G. Diamond, 2012-07-12. Excellent intro to basics of algebraic number theory: Gaussian primes, polynomials over a field, algebraic number fields, algebraic integers, and integral bases, uses of arithmetic in algebraic number fields, more. 1975 edition.

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