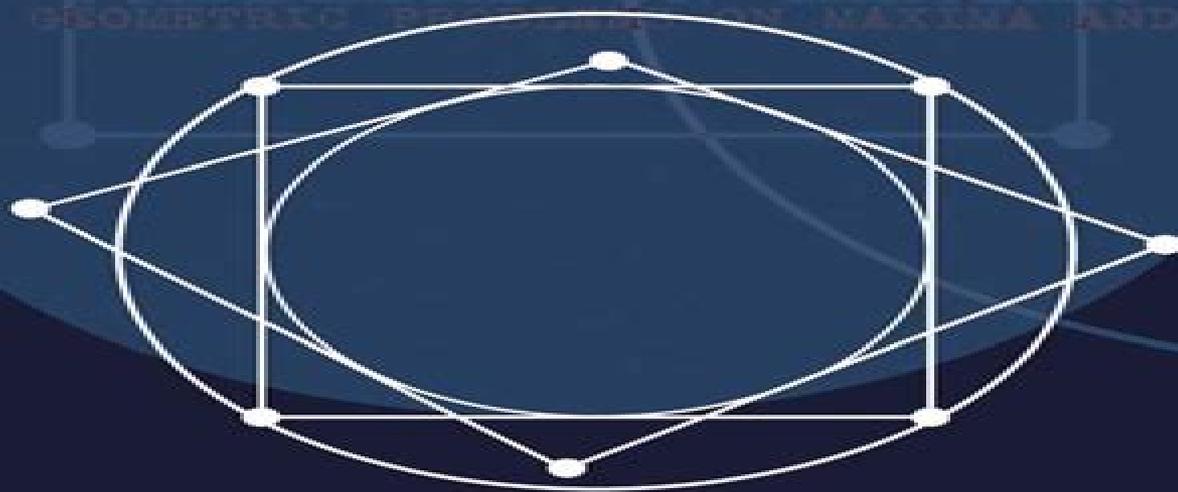


Geometric Problems on **MAXIMA** and **MINIMA**



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Geometric Problems On Maxima And Minima

James McMahon, Virgil Snyder



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Maxima and Minima Without Calculus Ivan Niven, 1981
Describes techniques for solving problems in maxima and minima other than the methods of calculus

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Elements of the Differential Calculus James McMahon, Virgil Snyder, 1898

Elementary Textbook on the Calculus Virgil Snyder, John Irwin Hutchinson, 1912

Stories about Maxima and Minima Vladimir Mikhaïlovich Tikhomirov, 1990
Throughout the history of mathematics maximum and minimum problems have played an important role in the evolution of the field Many beautiful and important problems have appeared in a variety of branches of mathematics and physics as well as in other fields of sciences The greatest scientists of the past Euclid Archimedes Heron the Bernoullis Newton and many others took part in seeking solutions to these concrete problems The solutions stimulated the development of the theory and as a result techniques were elaborated that made possible the solution of a tremendous variety of problems by a single method This book copublished with the Mathematical Association of America MAA presents fifteen stories designed to acquaint readers with the central concepts of the theory of maxima and minima as well as with its illustrious history Unlike most AMS publications the book is accessible to high school students and would likely be of interest to a wide variety of readers In Part One the author familiarizes readers with many concrete problems that lead to discussion of the work of some of the greatest mathematicians of all time Part Two introduces a method for solving maximum and minimum problems that originated with Lagrange While the content of this method has varied constantly its basic conception has endured for over two centuries The final story is addressed primarily to those who teach mathematics for it impinges on the question of how and why to teach Throughout the book the author strives to show how the analysis of diverse facts gives rise to a general idea how this idea is transformed how it is enriched by new content and how it remains the same in spite of these changes

Differential and Integral Calculus Virgil Snyder, John Irwin Hutchinson, 1902

Plane Geometry, with Problems and Application Herbert Ellsworth Slaught, 1918

An Elementary Treatise on the Differential and

Integral Calculus Edward Albert Bowser,1880 **An Elementary Treatise on the Differential and Integral Calculus, with Numerous Examples** Edward Albert Bowser,1886 *Elementary Mathematical Analysis* John Wesley Young, Frank Millett Morgan,1917 *Report of the Survey of the Public School System of Baltimore, Maryland* Baltimore (Md.). Board of School Commissioners,1921 **The American Mathematical Monthly** ,1922 Includes section Recent publications
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