



Stories about Maxima and Minima

V. M. Tikhomirov



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Stories About Maxima And Minima

William Senhouse Kirkes

Stories About Maxima And Minima:

Stories about Maxima and Minima V.M. Tikhomirov,1990 This book aims to acquaint the reader with the whole circle of ideas and provide an understanding of how and why a mathematical theory is born In Part I the reader will get to know many concrete problems and in the course of the discussion of their solutions will get to know the creative work of some of the best mathematicians of the past In Part II the author introduces a method to solve maximum and minimum problems

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 to remains the same in spite of these changes

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