

Maxima and Minima of Functions of Two Variables

Locate relative maxima, minima and saddle points of functions of two variables. Several examples with detailed solutions are presented. 3-Dimensional graphs of functions are shown to confirm the existence of these points. More on [Optimization Problems with Functions of Two Variables](#) in this web site.

Theorem

Let f be a function with two variables with continuous second order partial derivatives f_{xx} , f_{yy} and f_{xy} at a [critical](#) point (a,b) . Let

$$D = f_{xx}(a,b) f_{yy}(a,b) - f_{xy}^2(a,b)$$

- If $D > 0$ and $f_{xx}(a,b) > 0$, then f has a relative minimum at (a,b) .
- If $D > 0$ and $f_{xx}(a,b) < 0$, then f has a relative maximum at (a,b) .
- If $D < 0$, then f has a saddle point at (a,b) .
- If $D = 0$, then no conclusion can be drawn.

We now present several examples with detailed solutions on how to locate relative minima, maxima and saddle points of functions of two variables. When too many critical points are found, the use of a table is very convenient.

Example 1: Determine the critical points and locate any relative minima, maxima and saddle points of function f defined by

$$f(x, y) = 2x^2 + 2xy + 2y^2 - 6x$$

Solution to Example 1:

Find the first partial derivatives f_x and f_y .

Theory Of Maxima And Minima

R. Frisch



Theory Of Maxima And Minima:

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Anderson,1959 *Theory of Maxima and Minima* Harris Hancock,2015-06-26 Excerpt from Theory of Maxima and Minima Vol 9 Mathematicians have always been occupied with questions of maxima and minima With Euclid one of the simplest problems of this character was Find the shortest line which may be drawn from a point to a line and in the fifth book of the conics of Apollonius of Perga occur such problems as the determination of the shortest line which may be drawn from a point to a given conic section It is thus seen that a sort of theory of maxima and minima was known long before the discovery of the differential calculus and it may be shown that the attempts to develop this theory exercised considerable influence upon the discovery of the calculus Fermat for example after making numerous restorations of two books of Apollonius often cites this old geometer in his method for determining maximum and minimum 1638 a work which in some instances is so closely related to the calculus that Lagrange Laplace Fourier and others wished to consider Fermat as the discoverer of the calculus This he probably would have been had he started from a somewhat more general point of view as in fact was done by Newton

Opuscula Newtoni I 86 88 Maclaurin A Treatise of Fluxions Vol I p 214 1742 wrote There are hardly any speculations in geometry more useful or more entertaining than those which relate to maxima and minima Amongst the various improvements that began to appear in the higher parts of geometry about a hundred years ago Mr de Fermat proposed a method for finding the maxima and minima How the methods that were then invented for the mensuration of figures and drawing tangents to curves are comprehended and improved by the method of Fluxions may be understood from what has already been demonstrated About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at www.forgottenbooks.com This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works *The Theory of Maxima and Minima* Ivan M. Walsh, 1950

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