

## Mathematical Methods Calculus Investigation

Stationary points in a function are those where the function's instantaneous rate of change is zero. If a tangent were drawn across that point, the line would be completely horizontal and have no gradient. The function changes direction at turning points, which are stationary positions. All stationary points are turning points, but not all turning points are stationary points.

Points of inflection are points on a graph where the shape shifts from concave to convex or vice versa. There can be a maximum of two turning points and a minimum of zero in a cubic function. Every cubic function, however, must have at least one point of inflection. The goal of this study is to discover the relationship between stationary points and inflection points in a cubic function. The first portion of the enquiry will focus on locating the stationary points and points of inflection in a group of cubic functions and determining a common link between them. The second section investigates cubic functions under various settings in order to test the validity of the discovered relationship regardless of the conditions. The final section looks at how to change the number of stationary points in a cubic function and whether the established relationship still holds for all cubic functions. Finally, the fourth section examines the impact of the first coefficient on the relationship between stationary and inflection points.

The first stage of the enquiry aimed to establish a link between stationary locations and inflection points. This section will look at three cubic functions. To begin, the function's turning points were determined by determining the function's derivative using the differentiation process, which is done either using first principles or by multiplying the power with the number multiplying the variable, subtracting the power by 1, and removing the constant value from the function, represented by the equation  $x^n = nx^{n-1}$ . The latter procedure was utilised, and the outcome was a quadratic function.

Cubic function a:  $y = x^3 - 3x^2 - 9x + 7$

Derivative a:  $\frac{dy}{dx} = 3x^2 - 6x - 9$

To find the x intercepts, these were factorised even more. The x values of the intercepts would thus be the same as the x values of the cubic function's stationary points.

Derivative a:  $\frac{dy}{dx} = 3(x^2 - 2x - 3)$

$\rightarrow \frac{dy}{dx} = 3(x + 1)(x - 3)$

X intercepts:  $\{-1, 0\}$  and  $\{3, 0\}$

In most cases, stationary points are either maximum or minimum turning points, and a sign diagram for the derivative function was used to identify this. Negative areas correspond to areas where the y value is dropping, and vice versa. It is a maximum turning point if the intercept point is between the positive and negative areas, and it is a minimum turning point if the intercept point is between the negative and positive areas.

Maximum turning point:  $\{-1, 12\}$

Cubic functions generally have sections where the shape of the line drawn is either concave or convex, the point where the change in shape occurs is referred to as the point of inflection. The point was found through the same process used to determine the stationary points, but the derivative function was differentiated instead of the cubic function.

Derivative a:  $\frac{d^2y}{dx^2} = 3x^2 - 6x - 9$

Second derivative a:  $\frac{d^2y}{dx^2} = 6x - 6$

Factorise:  $0 = 6(x - 1)$

In order to find which part of a function is concave or convex, another sign diagram can be constructed for the Second derivative function, the negative parts are concave, and the positive parts are convex.

Concave:  $x \leq 1$

The same process was done for function b and c, refer to appendix for calculations. The results are put into a table shown below.

The x value found was simply replaced into the variables of the cubic function to determine the exact coordinate point for the stationary point.

$y = (-1)^3 - 3(-1)^2 - 9(-1) + 7$

First stationary point:  $\{-1, 12\}$

$y = 3^3 - 3(3)^2 - 9(3) + 7$

Second stationary point:  $\{3, -20\}$

X intercept:  $\{1, 0\}$

Substitute:  $y = 1^3 - 3(1)^2 - 9(1) + 7$

Point of inflection a:  $\{1, -4\}$

# Mathematical Methods

**Francis E. Mensah**



## **Mathematical Methods:**

*Mathematical Methods for Physics and Engineering* Mattias Blennow, 2018-01-03 Suitable for advanced undergraduate and graduate students this new textbook contains an introduction to the mathematical concepts used in physics and engineering The entire book is unique in that it draws upon applications from physics rather than mathematical examples to ensure students are fully equipped with the tools they need This approach prepares the reader for advanced topics such as quantum mechanics and general relativity while offering examples problems and insights into classical physics The book is also distinctive in the coverage it devotes to modelling and to oft neglected topics such as Green's functions

*Mathematical Methods* Sadri Hassani, 2008-10-08 Intended to follow the usual introductory physics courses this book has the unique feature of addressing the mathematical needs of sophomores and juniors in physics engineering and other related fields Many original lucid and relevant examples from the physical sciences problems at the ends of chapters and boxes to emphasize important concepts help guide the student through the material Beginning with reviews of vector algebra and differential and integral calculus the book continues with infinite series vector analysis complex algebra and analysis ordinary and partial differential equations Discussions of numerical analysis nonlinear dynamics and chaos and the Dirac delta function provide an introduction to modern topics in mathematical physics This new edition has been made more user friendly through organization into convenient shorter chapters Also it includes an entirely new section on Probability and plenty of new material on tensors and integral transforms

**Mathematical Methods for Physics and Engineering** K. F. Riley, M. P. Hobson, S. J. Bence, 2006-03-13 The third edition of this highly acclaimed undergraduate textbook is suitable for teaching all the mathematics for an undergraduate course in any of the physical sciences As well as lucid descriptions of all the topics and many worked examples it contains over 800 exercises New stand alone chapters give a systematic account of the special functions of physical science cover an extended range of practical applications of complex variables and give an introduction to quantum operators Further tabulations of relevance in statistics and numerical integration have been added In this edition half of the exercises are provided with hints and answers and in a separate manual available to both students and their teachers complete worked solutions The remaining exercises have no hints answers or worked solutions and can be used for unaided homework full solutions are available to instructors on a password protected web site [www.cambridge.org](http://www.cambridge.org) 9780521679718

*Mathematical Methods and Physical Insights* Alec J. Schramm, 2022 Mathematics instruction is often more effective when presented in a physical context Schramm uses this insight to help develop students physical intuition as he guides them through the mathematical methods required to study upper level physics Based on the undergraduate Math Methods course he has taught for many years at Occidental College the text encourages a symbiosis through which the physics illuminates the math which in turn informs the physics Appropriate for both classroom and self study use the text begins with a review of useful techniques to ensure students are comfortable with prerequisite material It then moves on to

cover vector fields analytic functions linear algebra function spaces and differential equations Written in an informal and engaging style it also includes short supplementary digressions By the Ways as optional boxes showcasing directions in which the math or physics may be explored further Extensive problems are included throughout many taking advantage of Mathematica to test and deepen comprehension [Mathematical Methods of Statistics](#) Harald Cramér,1999-04-12 In this classic of statistical mathematical theory Harald Cramér joins the two major lines of development in the field while British and American statisticians were developing the science of statistical inference French and Russian probabilists transformed the classical calculus of probability into a rigorous and pure mathematical theory The result of Cramér's work is a masterly exposition of the mathematical methods of modern statistics that set the standard that others have since sought to follow For anyone with a working knowledge of undergraduate mathematics the book is self contained The first part is an introduction to the fundamental concept of a distribution and of integration with respect to a distribution The second part contains the general theory of random variables and probability distributions while the third is devoted to the theory of sampling statistical estimation and tests of significance **Mathematical Methods for Optical Physics and Engineering** Gregory J. Gbur,2011-01-06 The first textbook on mathematical methods focusing on techniques for optical science and engineering this text is ideal for upper division undergraduate and graduate students in optical physics Containing detailed sections on the basic theory the textbook places strong emphasis on connecting the abstract mathematical concepts to the optical systems to which they are applied It covers many topics which usually only appear in more specialized books such as Zernike polynomials wavelet and fractional Fourier transforms vector spherical harmonics the z transform and the angular spectrum representation Most chapters end by showing how the techniques covered can be used to solve an optical problem Essay problems based on research publications and numerous exercises help to further strengthen the connection between the theory and its applications [Mathematical Methods in Business](#) Rolando A. Danao,2007 [Mathematical Methods in Chemical and Biological Engineering](#) Binay Kanti Dutta,2016-11-03 [Mathematical Methods in Chemical and Biological Engineering](#) describes basic to moderately advanced mathematical techniques useful for shaping the model based analysis of chemical and biological engineering systems Covering an ideal balance of basic mathematical principles and applications to physico chemical problems this book presents examples drawn from recent scientific and technical literature on chemical engineering biological and biomedical engineering food processing and a variety of diffusional problems to demonstrate the real world value of the mathematical methods Emphasis is placed on the background and physical understanding of the problems to prepare students for future challenging and innovative applications **Mathematical Methods in the Physical Sciences** Mary L. Boas,2006 Market\_Desc Physicists and Engineers Students in Physics and Engineering Special Features Covers everything from Linear Algebra Calculus Analysis Probability and Statistics to ODE PDE Transforms and more Emphasizes intuition and computational abilities Expands the material on DE and multiple integrals Focuses on the

applied side exploring material that is relevant to physics and engineering Explains each concept in clear easy to understand steps About The Book The book provides a comprehensive introduction to the areas of mathematical physics It combines all the essential math concepts into one compact clearly written reference This book helps readers gain a solid foundation in the many areas of mathematical methods in order to achieve a basic competence in advanced physics chemistry and engineering

*Mathematical Methods in Interdisciplinary Sciences* Snehashish Chakraverty,2020-06-15 Brings mathematics to bear on your real world scientific problems Mathematical Methods in Interdisciplinary Sciences provides a practical and usable framework for bringing a mathematical approach to modelling real life scientific and technological problems The collection of chapters Dr Snehashish Chakraverty has provided describe in detail how to bring mathematics statistics and computational methods to the fore to solve even the most stubborn problems involving the intersection of multiple fields of study Graduate students postgraduate students researchers and professors will all benefit significantly from the author s clear approach to applied mathematics The book covers a wide range of interdisciplinary topics in which mathematics can be brought to bear on challenging problems requiring creative solutions Subjects include Structural static and vibration problems Heat conduction and diffusion problems Fluid dynamics problems The book also covers topics as diverse as soft computing and machine intelligence It concludes with examinations of various fields of application like infectious diseases autonomous car and monotone inclusion problems

**Mathematical Methods for Physicists** George B. Arfken,Hans J. Weber, Frank E. Harris,2011-12-26 Now in its 7th edition Mathematical Methods for Physicists continues to provide all the mathematical methods that aspiring scientists and engineers are likely to encounter as students and beginning researchers This bestselling text provides mathematical relations and their proofs essential to the study of physics and related fields While retaining the key features of the 6th edition the new edition provides a more careful balance of explanation theory and examples Taking a problem solving skills approach to incorporating theorems with applications the book s improved focus will help students succeed throughout their academic careers and well into their professions Some notable enhancements include more refined and focused content in important topics improved organization updated notations extensive explanations and intuitive exercise sets a wider range of problem solutions improvement in the placement and a wider range of difficulty of exercises Revised and updated version of the leading text in mathematical physics Focuses on problem solving skills and active learning offering numerous chapter problems Clearly identified definitions theorems and proofs promote clarity and understanding New to this edition Improved modular chapters New up to date examples More intuitive explanations

**Mathematical Methods Using Mathematica®** Sadri Hassani,2006-04-10 Intended as a companion for textbooks in mathematical methods for science and engineering this book presents a large number of numerical topics and exercises together with discussions of methods for solving such problems using Mathematica R Although it is primarily designed for use with the author s Mathematical Methods For Students of Physics and Related Fields the discussions in the book

sufficiently self contained that the book can be used as a supplement to any of the standard textbooks in mathematical methods for undergraduate students of physical sciences or engineering

*Mathematical Methods with Applications to Problems in the Physical Sciences* Ted Clay Bradbury, 1984

*Mathematical Methods in Physics and Engineering* John W. Dettman, 2013-01-23 Intended for college level physics engineering or mathematics students this volume offers an algebraically based approach to various topics in applied math It is accessible to undergraduates with a good course in calculus which includes infinite series and uniform convergence Exercises follow each chapter to test the student s grasp of the material however the author has also included exercises that extend the results to new situations and lay the groundwork for new concepts to be introduced later A list of references for further reading will be found at the end of each chapter For this second revised edition Professor Dettman included a new section on generalized functions to help explain the use of the Dirac delta function in connection with Green s functions In addition a new approach to series solutions of ordinary differential equations has made the treatment independent of complex variable theory This means that the first six chapters can be grasped without prior knowledge of complex variables However since Chapter 8 depends heavily on analytic functions of a complex variable a new Chapter 7 on analytic function theory has been written

**Mathematical Methods in Science** George Pólya, 1977 This book captures some of P lya s excitement and vision Its distinctive feature is the stress on the history of certain elementary chapters of science these can be a source of enjoyment and deeper understanding of mathematics even for beginners who have little or perhaps no knowledge of physics

**Mathematical Methods for Physicists and Engineers** Royal Eugene Collins, 2012-06-11 Practical text focuses on fundamental applied math needed to deal with physics and engineering problems elementary vector calculus special functions of mathematical physics calculus of variations much more 1968 edition

**Mathematical Methods of Statistics** Harald Cramér, 1946

**Mathematical Methods for Digital Computers** Anthony Ralston, Herbert S. Wilf, Kurt Enslein, 1960

**Elements of Mathematical Methods for Physics** Francis E. Mensah, 2024-08-23 Elements of Mathematical Methods for Physics provides students with an approachable and innovative introduction to key concepts of mathematical physics accompanied by clear and concise explanations relevant real world examples and problems that help them to master the fundamentals of mathematical physics The topics are presented at a basic level for students lacking a prior mathematical background This book is designed to be covered in two semesters presenting 18 chapters on topics varying from differential equations matrix algebra and tensor analysis to Fourier transform including special functions and dynamical systems Upper level undergraduate and graduate students of physics and engineering as well as professionals will gain a better grip of the basics and a deeper insight into and appreciation for mathematical methods for physics Key Features Reviews and presents the basic math skills needed at the undergraduate level Chapters accompanied by examples and end of chapter problems to enhance understanding Introduces dynamical systems and includes a chapter on Hilbert Space

[A Guided Tour of Mathematical Methods](#) Roel Snieder, 2004-09-23

Mathematical methods are essential tools for all physical scientists. This second edition provides a comprehensive tour of the mathematical knowledge and techniques that are needed by students in this area. In contrast to more traditional textbooks, all the material is presented in the form of problems. Within these problems, the basic mathematical theory and its physical applications are well integrated. The mathematical insights that the student acquires are therefore driven by their physical insight. Topics that are covered include vector calculus, linear algebra, Fourier analysis, scale analysis, complex integration, Green's functions, normal modes, tensor calculus, and perturbation theory. The second edition contains new chapters on dimensional analysis, variational calculus, and the asymptotic evaluation of integrals. This book can be used by undergraduates and lower level graduate students in the physical sciences. It can serve as a stand alone text or as a source of problems and examples to complement other textbooks.

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