

## 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

**Didier Musso**



## **Mathematical Methods:**

*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/9780521679718](http://www.cambridge.org/9780521679718)

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**Mathematical Methods in Science** George Pólya,1977 This book captures some of P ly a 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 of Statistics** Harald Cramér,1999-04-12 In this classic of statistical mathematical theory Harald Cram r 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 Cram r 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

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**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 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.

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More than ever before complicated mathematical procedures are integral to the success and advancement of technology engineering and even industrial production. Knowledge of and experience with these procedures is therefore vital to present and future scientists, engineers and technologists.

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**Mathematical Methods in Aerodynamics** Lazăr Dragos, 2003  
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**Mathematical Methods in Science**

**and Engineering** John Heading,1970      **A Guided Tour of Mathematical Methods** Roel Snieder,2004-09-23

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## **Table of Contents Mathematical Methods**

1. Understanding the eBook Mathematical Methods
  - The Rise of Digital Reading Mathematical Methods
  - Advantages of eBooks Over Traditional Books
2. Identifying Mathematical Methods
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Mathematical Methods
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematical Methods
  - Personalized Recommendations
  - Mathematical Methods User Reviews and Ratings
  - Mathematical Methods and Bestseller Lists
5. Accessing Mathematical Methods Free and Paid eBooks

- Mathematical Methods Public Domain eBooks
  - Mathematical Methods eBook Subscription Services
  - Mathematical Methods Budget-Friendly Options
6. Navigating Mathematical Methods eBook Formats
- ePub, PDF, MOBI, and More
  - Mathematical Methods Compatibility with Devices
  - Mathematical Methods Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Mathematical Methods
  - Highlighting and Note-Taking Mathematical Methods
  - Interactive Elements Mathematical Methods
8. Staying Engaged with Mathematical Methods
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mathematical Methods
9. Balancing eBooks and Physical Books Mathematical Methods
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mathematical Methods
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Mathematical Methods
- Setting Reading Goals Mathematical Methods
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematical Methods
- Fact-Checking eBook Content of Mathematical Methods
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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