

*Learning*

# Calculus 3: Summations & Series



Maple™

*Tutorials*

$$\gt \text{sum}_1 := \sum_{k=0}^n e^{-k}$$

$$\text{sum}_1 := \frac{e^{-1} - 0}{e^{-1} - 1} = \frac{1}{e^{-1} - 1}$$

$$\gt \text{sum}_2 := \sum_{k=0}^n (a r^k) \text{ assuming } |r| < 1;$$

$$\text{sum}_2 := -\frac{a}{r-1}$$



$$\gt \text{sin\_ser} := \text{series}(\sin(x_0 + \epsilon), \epsilon, 3);$$

$$\text{sin\_ser} := \sin(x_0) + \cos(x_0) \epsilon - \frac{1}{2} \sin(x_0) \epsilon^2 + O(\epsilon^3)$$

# Calculus With Maple

**A Loxley**



## Calculus With Maple:

**Calculus with Maple Labs** Wiesław Krawcewicz, Bindhyachal Rai, 2003 Offering a universally taught course this complete exposition of a single variable calculus elucidates transcendental functions the notion of a sequence and its limit and the introduction of a limit of a function **Differential Calculus with Maple** S. Velumyilum, P. Varatharajah, K. Mahalingam, **Discovering Calculus with Maple** Kent Harris, Robert J. Lopez, 1995-01-03 This substantially illustrated manual describes how to use Maple as an investigative tool to explore calculus concepts numerically graphically symbolically and verbally Every chapter begins with Maple commands employed in the chapter an introduction to the mathematical concepts being covered worked examples in Maple worksheet format followed by thought provoking exercises and extensive discovery projects to encourage readers to investigate ideas on their own **Calculus with Maple** Frank G. Hagin, Jack K. Cohen, 1996-01-01 **Calculus the Maple Way** Robert B. Israel, 2000 **Maple via Calculus** Robert J. Lopez, 2012-01-30 Modern software tools like Maple have the potential to alter radically the way mathematics is taught learned and done Bringing such tools into the classroom during lectures assignments and examinations means that new ways of looking at mathematics can become permanent fixtures of the curriculum It is universal access that will make a software based approach to mathematics become the norm In 1988 with NSF funding under an III grant I had the opportunity to bring Maple into the calculus classroom at Rose Hulman Institute of Technology Since then a new curriculum based on the availability of computer algebra systems has evolved at RHIT and in my own courses This volume contains a record of some of the insights gained into pedagogy using Maple in calculus The activities and ideas captured in these Maple worksheets reflect concepts in calculus implemented in Maple There is an overt message to the reader that carries with it a side effect However it is possible that for one reader the side effect is the message and the message is the side effect I had intended to put before my audience examples extracted from my Maple based curriculum to entice a wider acceptance of the benefits of making a computer algebra system become the basis of a revised calculus syllabus By examples I had hoped to demonstrate the rightness of using software tools for teaching and learning calculus **Multivariable Mathematics with Maple** James A. Carlson, Jennifer M. Johnson, 1997 **Multivariable Calculus with Maple V, Preliminary Edition** C-K. Cheung, John Harer, 1993-09-15 Designed as a supplement to any multivariable calculus texts in order to utilize Maple as an integral part of the instruction Geared to helping students understand the calculus concepts while taking full advantage of the computing power and graphic capabilities of Maple Contains 28 modules to guide readers through an array of examples which aid them in visualizing the problem at hand before or after learning the theory All concepts are developed from the geometric viewpoint rather than abstract definition **A Maple Approach to Calculus** John T. Gresser, 1999 Ideally suited for use with either Strauss Bradley Smith or Varberg Purcell Rigdon this manual may also be used in conjunction with other calculus texts Many of the exercise sets have additional problems labeled projects which are somewhat more involved These projects

are designed to enhance problem solving skills by making use of not only topics currently under discussion but occasionally a wide variety of previously discussed topics as well

**Calculus Explorations Using Maple** Judson, Daniel, Phoebe Judson, Arnold Ostebee, 1996

**Calculus, Maple Supplement** Deborah Hughes-Hallett, Andrew M. Gleason, Daniel E. Flath, David Lovelock, Douglas Quinney, Eric Connally, Guadalupe I. Lonzano, Karen R. Rhea, Selin Kalaycıoğlu, William G. McCallum, Adam H. Speigler, Karen R. Thrash, Brad G. Osgood, 1994-10-28 An innovative text that emphasizes the graphical numerical and analytical aspects of calculus throughout and often asks students to explain ideas using words This problem driven text introduces topics with a real world problem and derives the general results from it It can be used with any technology that can graph and find definite integrals numerically The derivative the integral differentiation and differential equations are among the topics covered

*Maple for Basic Calculus* Richard Parker, 1996-12 Learn calculus from the new vantage point of a PC based interactive computer algebra system This book shows how Maple V Release 3 and 4 can be applied to topics such as derivatives integration sequences and differential equations Students learn the essential concepts by combining paper and pencil exercises with problem solving using Maple

*Exploring Calculus with Maple* Goldstein, 1996-01-01

**VISUALIZING CALCULUS BY WAY OF MAPLE: AN EMPHASIS ON PROBLEM SOLVING** Nadia Benakli, Satyanand Singh, Lecturer, Arnavaz Taraporevala, 2011-04-19 Getting started with maple An introduction on maple commands Limits Derivatives Graphs of function using limits and derivatives Applications of differentiation

*Calculus and Getting Started with Maple Set* Deborah Hughes-Hallett, 2001-08-01

**Calculus Exploring with Maple** Frank G. Hagin, Jack K. Cohen, 1995 To accompany Bradley Smith Calculus

The Maple V Primer, Release 4 Frank Garvan, 1996-11-06 Learn how to use the modern techniques offered by Maple V a powerful and popular computer algebra system The Maple V Primer Release 4 covers all the basic topics a reader needs to know to use Maple V in its major revision encompassed in Release 4 to do algebra and calculus solve equations graph 2 and 3 dimensional plots perform simple programming tasks and prepare mathematical documents Every common command and function is supported by a specific example so you won't waste time struggling with the syntax Graphs plots and other Maple output are provided along with the syntax so the user knows what to expect when she or he uses a particular command And all the examples come with a short discussion answering questions you might have about applying the example to your own work This is a painless even fun way to learn how to use Maple V

**Multivariable Calculus and Discovering Calculus with Maple Set** Howard Anton, 1992-09-01

Maple for the Calculus Student Wade Ellis, Ed Lodi, 1989 Mathematics of Computing Mathematical Software

**Calculus Using Maple, Calculus with Analysis** Edwards, 1994

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