

Tricky Integrals Using the Substitution Rule

$$\int x^3 \sqrt{x^2 + 5} \, dx = \int x^2 \sqrt{x^2 + 5} \cdot x \, dx = \int (u - 5) \sqrt{u} \frac{du}{2}$$

$$u = x^2 + 5 \rightarrow x^2 = u - 5$$

$$du = 2x \, dx \rightarrow x \, dx = \frac{du}{2}$$

$$\boxed{x^3 = x^2 \cdot x}$$

$$= \int (u - 5) u^{1/2} \frac{du}{2}$$

$$= \frac{1}{2} \int (u^{3/2} - 5u^{1/2}) \, du$$

$$= \frac{1}{2} \left(\frac{2}{5} u^{5/2} - 5 \left(\frac{2}{3} \right) u^{3/2} \right) + C$$

$$= \frac{1}{5} u^{5/2} - \frac{5}{3} u^{3/2} + C$$

$$= \frac{1}{5} (x^2 + 5)^{5/2} - \frac{5}{3} (x^2 + 5)^{3/2} + C$$

Calculus Of One Variable

Amol Sasane



Calculus Of One Variable:

Calculus Of One Variable G. S. Pandey, 2002 The Inclusion Of Modern Topics In The Courses Of Studies In Mathematics At The Undergraduate Level Is Very Necessary To Provide A Foundation For Future And Upcoming Topics At The Higher Level This Book Is Based On This Fact It Has Been Planned With A View To Provide A Foundation For Future Analysis Courses And To Make Use Of Sister Topics Like Linear And Abstract Algebra In The Forthcoming Years This Book Contains Six Chapters Its First Chapter Explains The Basic Concepts On Sets And Numbers Etc The Second Chapter Deals With The Sequences And Series Of Real Numbers Third Chapter Discusses The Continuity And Differentiability Of Functions The Fourth Chapter Deals With Successive Differentiations And Mean Value Theorems Last Two Chapters Are On Integration And Application Of Calculus A Unique Feature Of This Book Is That Each Chapter Contains A Large Number Of Illustrations Which Will Help The Students To Understand Through Analytical Approach The Book Meets Requirements Of B Sc Part One Courses Of Many Indian Universities Including Those Of Madhya Pradesh *Calculus: The calculus of one variable* Stanley I. Grossman, 1981 **Calculus of One Variable** Stanley I. Grossman, 1986 **Calculus with One-Variable** Dennis D. Berkey, 1988 **Salas and Hille's Calculus** Saturnino L. Salas, Garret J. Etgen, Einar Hille, 1995-05-19 The new early transcendentals version presents the logarithmic exponential and other transcendental functions before the definite integral so these topics can be taught early in the course This organization allows the authors to provide interesting applications which include transcendental functions in the material on applications of the derivative integration and applications of the integral The latest edition incorporates modern technology and recent trends without sacrificing the acknowledged strengths of previous versions Contains over 1300 new problems as well as more illustrations Fresh technology based examples support numerous exercises requiring the use of a graphics calculator or other graphing software **Calculus of One Variable** Leon Gerber, Stanley I. Grossman, 1985-11-01 **How To Learn Calculus Of One Variable Vol. Ii** J. D. Ghosh, 2005 How To Learn Calculus Of One Variable A Central Part In Many Branches Of Physics And Engineering The Present Book Tries To Bring Out Some Of The Most Important Concepts Associates With The Theoretical Aspects Which Is Quite Exhaustively The Entire Book In A Manner Can Help The Student To Learn The Methods Of Calculus And Theoretical Aspects These Techniques Are Presented In This Book In A Lucid Manner With A Large Number Of Example Students Will Easily Understand The Principles Of Calculus It Helps To Solve Most Examples And Reasonings This Book Mainly Caters To The Need Of Intermediate And Competitive Students Who Will Find It A Pleasure In This Book It Can Also Be Useful For All Users Of Mathematics And For All Mathematical Modelers *Problems in Calculus of One Variable* Isaak Abramovich Maron, 1973 **How To Learn Calculus Of One Variable Vol. I** J. D. Ghosh, 2008-12 How To Learn Calculus Of One Variable A Central Part In Many Branches Of Physics And Engineering The Present Book Tries To Bring Out Some Of The Most Important Concepts Associates With The Theoretical Aspects Which Is Quite Exhaustively The Entire Book In A Manner

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One Variable Don R. Lick, 1971 Calculus of One Variable Ron Larson, Roland E. Larson, Robert P. Hostetler, David E. Heyd, 1982-01-01 **How to Learn Calculus of One Variable** J. D. Ghosh, Anwarul Haque, 2009 *Calculus of One*

Variable Joseph W. Kitchen, 2020-01-15 Richly textured and versatile text characterizes real numbers as a complete ordered field Rigorous development of the calculus plus thorough treatment of basic topics of limits and inequalities 1968 edition

Calculus of One Variable K. E. Hirst, 1972 **Calculus of One Variable** M. Thamban Nair, 2021 The book is designed to serve as a textbook for courses offered to undergraduate and graduate students enrolled in Mathematics The first edition of this book was published in 2015 As there is a demand for the next edition it is quite natural to take note of the several suggestions received from the users of the earlier edition over the past six years This is the prime motivation for bringing out a revised second edition with a thorough revision of all the chapters The book provides a clear understanding of the basic concepts of differential and integral calculus starting with the concepts of sequences and series of numbers and also introduces slightly advanced topics such as sequences and series of functions power series and Fourier series which would be of use for other courses in mathematics for science and engineering programs The salient features of the book are precise definitions of basic concepts several examples for understanding the concepts and for illustrating the results includes proofs of theorems exercises within the text a large number of problems at the end of each chapter as home assignments The student friendly approach of the exposition of the book would be of great use not only for students but also for the instructors The detailed coverage and pedagogical tools make this an ideal textbook for students and researchers enrolled in a

mathematics course Problems in Calculus of One Variable I.A. Maron,1973 Calculus of One Variable Michel Helfgott,2012-08-03 This textbook is intended for a two semester course on calculus of one variable The target audience is comprised of first year students in biology chemistry physics and other related disciplines The title of the book reflects the fact that it is not limited to one single approach to calculus Rather we use graphing calculators or applications whenever they are necessary to introduce certain topics Nonetheless as expected a conceptual framework permeates the whole book A distinctive characteristic of the book is the early introduction of sequences and geometric series and a gradual development of simple differential equations as well as the use of linear regression to analyze data The core of the book is to be found in the first three chapters in which examples from biology chemistry and physics are analyzed with care emphasizing the close links between calculus and the natural sciences The last two chapters or sections thereof can be used as a sort of capstone in order to show how mathematics helps in the understanding of enzyme kinetics and transport across cell membranes

Calculus of One Variable J. Douglas Faires,Barbara T. Faires,1989-01-01

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