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ck 12 foundation s single variable calculus flexbook introduces high school students to the topics covered in the calculus ab course topics include limits derivatives and integration this is the last of three volumes that together give an exposition of the mathematics of grades 9 12 that is simultaneously mathematically correct and grade level appropriate the volumes are consistent with ccsm common core state standards for mathematics and aim at presenting the mathematics of k 12 as a totally transparent subject this volume distinguishes itself from others of the same genre in getting the mathematics right in trigonometry this volume makes explicit the fact that the trigonometric functions cannot even be defined without the theory of similar triangles it also provides details for extending the domain of definition of sine and cosine to all real numbers it explains as well why radians should be used for angle measurements and gives a proof of the conversion formulas between degrees and radians in calculus this volume pares the technicalities concerning limits down to the essential minimum to make the proofs of basic facts about differentiation and integration both correct and accessible to school teachers and educators the exposition may also benefit beginning math majors who are learning to write proofs an added bonus is a correct proof that one can get a repeating decimal equal to a given fraction by the long division of the numerator by the denominator this proof attends to all three things all at once what an infinite decimal is why it is equal to the fraction and how long division enters the picture this book should be useful for current and future teachers of k 12 mathematics as well as for some high school students and for education professionals welcome to a practical approach to learning calculus pies tutoring is a tutoring service committed to providing effective learning materials online or in person individual or group tutoring pies is an approach to learning that involves presentation illustration exercises and solutions the author emmanuel okwunwa holds a

bachelor of mathematics bmath degree from the university of windsor as well as a bachelor of education bed degree from lakehead university he is a member of the ontario college of teachers oct a professional teacher and tutor emmanuel has helped scores of students achieve their academic goals through high school and university he has found the most effective approach to ensuring students understanding of concepts and has distilled this experience into pies as explained further below pies stands for presentation illustration exercises and solutions these four components are critical to teaching explaining testing and providing feedback to students it is hoped that students will find this material helpful in getting a firm handle on the processes of differentiation and integration on which so many other advanced calculus classes depend this material is suitable for high school as well as first year university students while every effort has been made to avoid errors any comments observations or suggestions that might improve the accuracy effectiveness or functionality of this material will be gratefully acknowledged and considered emmanuel okwunwabmath bed oct october 21 2015toronto canada great supplement to support students in calculus vectors this textbook offers a comprehensive coverage of the fundamentals of calculus linear algebra and analytic geometry intended for bachelor s students in science engineering architecture economics the presentation is self contained and supported by numerous graphs to facilitate visualization and also to stimulate readers intuition the proofs of the theorems are rigorous yet presented in straightforward and comprehensive way with a good balance between algebra geometry and analysis this book guides readers to apply the theory to solve differential equations many problems and solved exercises are included students are expected to gain a solid background and a versatile attitude towards calculus algebra and geometry which can be later used to acquire new skills in more advanced scientific disciplines such as bioinformatics process engineering and finance at the same time instructors are provided with extensive information and inspiration for the preparation of their own courses the wesolvethem team consists of a group of us educated math physics and engineering students with years of tutoring experience and high achievements in college wesolvethem llc is not affiliated with the publishers of the stewart calculus textbooks all work is original solutions writtenand solved by the wesolvethem team we do not provide

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