

CALCULUS ONLINE

CALCULUS ONLINE HAS REVOLUTIONIZED THE WAY STUDENTS AND PROFESSIONALS APPROACH THIS ESSENTIAL BRANCH OF MATHEMATICS. WITH THE ADVENT OF ADVANCED TECHNOLOGY, LEARNING CALCULUS ONLINE HAS BECOME INCREASINGLY ACCESSIBLE AND FLEXIBLE, CATERING TO VARIOUS LEARNING STYLES AND SCHEDULES. THIS ARTICLE EXPLORES THE WORLD OF ONLINE CALCULUS EDUCATION, DISCUSSING ITS BENEFITS, AVAILABLE RESOURCES, AND TIPS FOR EFFECTIVE LEARNING. ADDITIONALLY, WE WILL EXAMINE HOW STUDENTS CAN MAKE THE MOST OF ONLINE COURSES AND TOOLS TO ENHANCE THEIR UNDERSTANDING OF CALCULUS CONCEPTS. WHETHER YOU ARE A HIGH SCHOOL STUDENT PREPARING FOR COLLEGE OR A PROFESSIONAL LOOKING TO SHARPEN YOUR SKILLS, THIS GUIDE WILL PROVIDE VALUABLE INSIGHTS INTO MASTERING CALCULUS ONLINE.

- UNDERSTANDING CALCULUS
- BENEFITS OF LEARNING CALCULUS ONLINE
- TOP RESOURCES FOR ONLINE CALCULUS EDUCATION
- TIPS FOR EFFECTIVE ONLINE LEARNING
- CONCLUSION
- FAQs

UNDERSTANDING CALCULUS

CALCULUS IS A BRANCH OF MATHEMATICS THAT DEALS WITH THE STUDY OF CHANGE AND MOTION, FOCUSING ON CONCEPTS SUCH AS LIMITS, DERIVATIVES, INTEGRALS, AND INFINITE SERIES. IT IS ESSENTIAL IN VARIOUS FIELDS, INCLUDING PHYSICS, ENGINEERING, ECONOMICS, AND STATISTICS. UNDERSTANDING THE FUNDAMENTAL PRINCIPLES OF CALCULUS IS CRUCIAL FOR STUDENTS PURSUING CAREERS IN SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS (STEM).

AT ITS CORE, CALCULUS ALLOWS US TO ANALYZE AND MODEL DYNAMIC SYSTEMS. THE TWO MAIN BRANCHES OF CALCULUS ARE DIFFERENTIAL CALCULUS, WHICH CONCERNS THE CONCEPT OF THE DERIVATIVE, AND INTEGRAL CALCULUS, WHICH FOCUSES ON THE CONCEPT OF THE INTEGRAL. MASTERY OF THESE CONCEPTS PROVIDES THE TOOLS NEEDED TO SOLVE COMPLEX PROBLEMS INVOLVING RATES OF CHANGE AND AREAS UNDER CURVES.

BENEFITS OF LEARNING CALCULUS ONLINE

LEARNING CALCULUS ONLINE OFFERS NUMEROUS ADVANTAGES COMPARED TO TRADITIONAL CLASSROOM SETTINGS. NOT ONLY DOES IT PROVIDE FLEXIBILITY, BUT IT ALSO ALLOWS STUDENTS TO TAILOR THEIR LEARNING EXPERIENCES TO SUIT THEIR INDIVIDUAL NEEDS. HERE ARE SOME KEY BENEFITS OF ONLINE CALCULUS EDUCATION:

- **FLEXIBILITY:** STUDENTS CAN LEARN AT THEIR OWN PACE, FITTING STUDY SESSIONS AROUND THEIR SCHEDULES.
- **ACCESSIBILITY:** ONLINE CALCULUS COURSES CAN BE ACCESSED FROM ANYWHERE, MAKING IT EASIER FOR LEARNERS IN REMOTE AREAS OR THOSE WITH MOBILITY ISSUES.
- **DIVERSE RESOURCES:** A VARIETY OF MULTIMEDIA RESOURCES, INCLUDING VIDEOS, INTERACTIVE QUIZZES, AND FORUMS, ENHANCE THE LEARNING EXPERIENCE.

- **COST-EFFECTIVE:** MANY ONLINE PLATFORMS OFFER FREE OR LOW-COST OPTIONS, MAKING CALCULUS EDUCATION MORE AFFORDABLE.
- **PERSONALIZED LEARNING:** ONLINE PLATFORMS OFTEN ALLOW STUDENTS TO CHOOSE THEIR LEARNING PATHS, FOCUSING ON AREAS WHERE THEY NEED THE MOST IMPROVEMENT.

TOP RESOURCES FOR ONLINE CALCULUS EDUCATION

THERE ARE NUMEROUS PLATFORMS AND RESOURCES AVAILABLE FOR STUDENTS EAGER TO LEARN CALCULUS ONLINE. THESE RESOURCES VARY IN STRUCTURE, CONTENT, AND TEACHING METHODS. HERE ARE SOME OF THE TOP OPTIONS:

ONLINE COURSES

SEVERAL WELL-KNOWN PLATFORMS OFFER COMPREHENSIVE ONLINE CALCULUS COURSES, OFTEN TAUGHT BY EXPERIENCED EDUCATORS. SOME OF THESE PLATFORMS INCLUDE:

- **KHAN ACADEMY:** PROVIDES FREE RESOURCES AND VIDEO LECTURES COVERING A WIDE RANGE OF CALCULUS TOPICS.
- **COURSERA:** OFFERS COURSES FROM PRESTIGIOUS UNIVERSITIES, OFTEN PROVIDING CERTIFICATES UPON COMPLETION.
- **EDX:** SIMILAR TO COURSERA, EDX FEATURES COURSES FROM TOP UNIVERSITIES, COVERING BOTH BASIC AND ADVANCED CALCULUS.
- **UDEMY:** OFFERS A WIDE VARIETY OF CALCULUS COURSES, OFTEN AT DISCOUNTED PRICES, COVERING SPECIFIC TOPICS AND APPLICATIONS.

TEXTBOOKS AND EBOOKS

MANY STUDENTS BENEFIT FROM TRADITIONAL TEXTBOOKS OR EBOOKS THAT PROVIDE STRUCTURED LEARNING. NOTABLE AUTHORS AND TITLES INCLUDE:

- **THOMAS' CALCULUS:** A WIDELY USED TEXTBOOK THAT COVERS FUNDAMENTAL CONCEPTS IN DEPTH.
- **CALCULUS: EARLY TRANSCENDENTALS BY JAMES STEWART:** KNOWN FOR ITS CLEAR EXPLANATIONS AND NUMEROUS EXAMPLES.
- **CALCULUS MADE EASY BY SILVANUS P. THOMPSON:** A CLASSIC BOOK THAT SIMPLIFIES COMPLEX CONCEPTS.

INTERACTIVE TOOLS AND APPS

VARIOUS INTERACTIVE TOOLS AND APPLICATIONS CAN ENHANCE THE LEARNING EXPERIENCE, OFFERING PRACTICAL EXERCISES AND VISUAL AIDS. SOME POPULAR OPTIONS INCLUDE:

- **DESMOS:** A GRAPHING CALCULATOR THAT ALLOWS STUDENTS TO VISUALIZE FUNCTIONS AND THEIR DERIVATIVES.
- **WOLFRAM ALPHA:** A COMPUTATIONAL ENGINE THAT CAN SOLVE CALCULUS PROBLEMS AND PROVIDE STEP-BY-STEP EXPLANATIONS.
- **GEOGEBRA:** AN INTERACTIVE GEOMETRY AND ALGEBRA TOOL THAT SUPPORTS CALCULUS LEARNING.

TIPS FOR EFFECTIVE ONLINE LEARNING

WHILE LEARNING CALCULUS ONLINE CAN BE ADVANTAGEOUS, IT REQUIRES DISCIPLINE AND EFFECTIVE STRATEGIES TO ENSURE SUCCESS. HERE ARE SOME TIPS FOR MAXIMIZING THE ONLINE LEARNING EXPERIENCE:

CREATE A STUDY SCHEDULE

ESTABLISHING A CONSISTENT STUDY ROUTINE CAN HELP YOU STAY ON TRACK. ALLOCATE SPECIFIC TIMES EACH WEEK FOR STUDYING CALCULUS, ENSURING THAT YOU DEDICATE UNINTERRUPTED TIME TO FOCUS ON THE MATERIAL.

ENGAGE WITH THE MATERIAL

ACTIVE ENGAGEMENT WITH THE CONTENT IS CRUCIAL FOR RETENTION. TAKE NOTES DURING VIDEO LECTURES, PARTICIPATE IN DISCUSSION FORUMS, AND PRACTICE PROBLEMS FREQUENTLY TO SOLIDIFY YOUR UNDERSTANDING.

UTILIZE RESOURCES

TAKE ADVANTAGE OF ALL AVAILABLE RESOURCES, INCLUDING TEXTBOOKS, ONLINE FORUMS, AND STUDY GROUPS. COLLABORATING WITH PEERS CAN PROVIDE DIFFERENT PERSPECTIVES AND ENHANCE YOUR LEARNING EXPERIENCE.

PRACTICE REGULARLY

CONSISTENT PRACTICE IS ESSENTIAL FOR MASTERING CALCULUS CONCEPTS. WORK THROUGH PROBLEMS DAILY, AND USE ONLINE TOOLS TO CHECK YOUR ANSWERS AND UNDERSTAND MISTAKES.

CONCLUSION

IN SUMMARY, CALCULUS ONLINE OFFERS AN ACCESSIBLE AND FLEXIBLE APPROACH TO MASTERING A VITAL AREA OF MATHEMATICS. WITH THE PLETHORA OF RESOURCES AVAILABLE, STUDENTS CAN FIND THE RIGHT TOOLS AND PLATFORMS TO ENHANCE THEIR LEARNING EXPERIENCE. BY FOLLOWING EFFECTIVE STUDY STRATEGIES AND ENGAGING WITH THE MATERIAL, LEARNERS CAN ACHIEVE A SOLID UNDERSTANDING OF CALCULUS CONCEPTS. WHETHER FOR ACADEMIC PURPOSES OR PROFESSIONAL DEVELOPMENT, ONLINE CALCULUS EDUCATION IS A VALUABLE INVESTMENT FOR ANYONE LOOKING TO ADVANCE THEIR KNOWLEDGE AND SKILLS IN THIS CRUCIAL FIELD OF STUDY.

FAQs

Q: WHAT IS THE BEST ONLINE PLATFORM FOR LEARNING CALCULUS?

A: THE BEST PLATFORM VARIES BY INDIVIDUAL PREFERENCE, BUT POPULAR OPTIONS INCLUDE KHAN ACADEMY FOR FREE RESOURCES, COURSERA FOR UNIVERSITY COURSES, AND UDEMY FOR DIVERSE TOPICS.

Q: CAN I LEARN CALCULUS ONLINE FOR FREE?

A: YES, MANY PLATFORMS OFFER FREE COURSES AND RESOURCES. KHAN ACADEMY IS A WELL-KNOWN SITE THAT PROVIDES COMPREHENSIVE COVERAGE OF CALCULUS AT NO COST.

Q: HOW CAN I IMPROVE MY CALCULUS SKILLS ONLINE?

A: TO IMPROVE YOUR SKILLS, CREATE A STUDY SCHEDULE, ENGAGE WITH THE MATERIAL ACTIVELY, PRACTICE REGULARLY, AND UTILIZE VARIOUS ONLINE RESOURCES AND TOOLS.

Q: ARE ONLINE CALCULUS COURSES EFFECTIVE?

A: YES, ONLINE CALCULUS COURSES CAN BE VERY EFFECTIVE, ESPECIALLY WHEN COMBINED WITH SELF-DISCIPLINE, CONSISTENT PRACTICE, AND INTERACTIVE LEARNING METHODS.

Q: WHAT TOPICS ARE TYPICALLY COVERED IN ONLINE CALCULUS COURSES?

A: ONLINE CALCULUS COURSES GENERALLY COVER LIMITS, DERIVATIVES, INTEGRALS, AND APPLICATIONS OF THESE CONCEPTS IN REAL-WORLD SCENARIOS.

Q: DO I NEED A STRONG MATH BACKGROUND TO LEARN CALCULUS ONLINE?

A: WHILE A BASIC UNDERSTANDING OF ALGEBRA AND FUNCTIONS IS HELPFUL, MANY ONLINE COURSES START WITH FOUNDATIONAL CONCEPTS TO PREPARE STUDENTS FOR CALCULUS.

Q: HOW DO I FIND A STUDY GROUP FOR ONLINE CALCULUS?

A: YOU CAN FIND STUDY GROUPS THROUGH ONLINE FORUMS, SOCIAL MEDIA PLATFORMS, OR BY JOINING COMMUNITY GROUPS RELATED TO YOUR ONLINE COURSE.

Q: CAN I GET A CERTIFICATION BY TAKING ONLINE CALCULUS COURSES?

A: YES, MANY PLATFORMS, SUCH AS COURSERA AND EDX, OFFER CERTIFICATES UPON COMPLETION OF THEIR CALCULUS COURSES, WHICH CAN ENHANCE YOUR RESUME.

Q: WHAT IS THE DIFFERENCE BETWEEN DIFFERENTIAL AND INTEGRAL CALCULUS?

A: DIFFERENTIAL CALCULUS FOCUSES ON THE CONCEPT OF THE DERIVATIVE AND RATES OF CHANGE, WHILE INTEGRAL CALCULUS DEALS WITH THE CONCEPT OF THE INTEGRAL AND THE ACCUMULATION OF QUANTITIES.

Q: ARE INTERACTIVE TOOLS HELPFUL FOR LEARNING CALCULUS?

A: ABSOLUTELY. INTERACTIVE TOOLS LIKE GRAPHING CALCULATORS AND SOFTWARE CAN HELP VISUALIZE COMPLEX CONCEPTS AND ENHANCE UNDERSTANDING THROUGH PRACTICAL APPLICATION.

Calculus Online

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calculus online: *Calculus Workbook For Dummies with Online Practice* Mark Ryan, 2018-05-08
The easy way to conquer calculus Calculus is hard—no doubt about it—and students often need help understanding or retaining the key concepts covered in class. *Calculus Workbook For Dummies* serves up the concept review and practice problems with an easy-to-follow, practical approach. Plus, you'll get free access to a quiz for every chapter online. With a wide variety of problems on everything covered in calculus class, you'll find multiple examples of limits, vectors, continuity, differentiation, integration, curve-sketching, conic sections, natural logarithms, and infinite series. Plus, you'll get hundreds of practice opportunities with detailed solutions that will help you master the math that is critical for scoring your highest in calculus. Review key concepts Take hundreds of practice problems Get access to free chapter quizzes online Use as a classroom supplement or with a tutor Get ready to quickly and easily increase your confidence and improve your skills in calculus.

calculus online: Calculus: 1,001 Practice Problems For Dummies (+ Free Online Practice) Patrick Jones, 2014-07-22 Practice makes perfect—and helps deepen your understanding of calculus 1001 *Calculus Practice Problems For Dummies* takes you beyond the instruction and guidance offered in *Calculus For Dummies*, giving you 1001 opportunities to practice solving problems from the major topics in your calculus course. Plus, an online component provides you with a collection of calculus problems presented in multiple-choice format to further help you test your skills as you go. Gives you a chance to practice and reinforce the skills you learn in your calculus course Helps you refine your understanding of calculus Practice problems with answer explanations that detail every step of every problem The practice problems in 1001 *Calculus Practice Problems For Dummies* range in areas of difficulty and style, providing you with the practice help you need to score high at exam time.

calculus online: *Differential and Integral Calculus Theory and Cases* Carlos Polanco, 2020-08-05 *Differential and Integral Calculus - Theory and Cases* is a complete textbook designed to cover basic calculus at introductory college and undergraduate levels. Chapters provide information about calculus fundamentals and concepts including real numbers, series, functions, limits, continuity, differentiation, antidifferentiation (integration) and sequences. Readers will find a concise and clear study of calculus topics, giving them a solid foundation of mathematical analysis using calculus. The knowledge and concepts presented in this book will equip students with the knowledge to immediately practice the learned calculus theory in practical situations encountered at advanced levels. Key Features: - Complete coverage of basic calculus, including differentiation and integration - Easy to read presentation suitable for students - Information about functions and maps - Case studies and exercises for practical learning, with solutions - Case studies and exercises for practical learning, with solutions - References for further reading

calculus online: *Online Searching* Karen Markey, 2023-02-07 *Online Searching* prepares students in library and information science programs to assist information seekers at all levels, from

university faculty to elementary school students. Included in the third edition are interviews with librarians and other information professionals whose words of wisdom broaden graduate students' perspectives regarding online searching in a variety of work settings serving different kinds of information seekers. The book's chapters are organized according to the steps in the search process: 1. Conducting a reference interview to determine what the seeker wants 2. Identifying sources that are likely to produce relevant information for the seeker's query 3. Determining whether the user seeks a known item or information about a subject 4. Dividing the query into main ideas and combining them logically 5. Representing the query as input to the search system 6. Conducting the search and responding strategically 7. Displaying retrievals, assessing them, and responding tactically A new chapter on web search engines builds on students' existing experience with keyword searching and relevance ranking by introducing them to more sophisticated techniques to use in the search box and on the results page. A completely revised chapter on assessing research impact discusses the widespread use of author and article iMetrics, a trend that has developed rapidly since the publication of the second edition. More than 100 figures and tables provide readers with visualizations of concepts and examples of real searches and actual results. Textboxes offer additional topical details and professional insights. New videos supplement the text by delving more deeply into topics such as database types, information organization, specialized search techniques, results filtering, and the role of browsing in the information seeking process. An updated glossary makes it easy to find definitions of terms used throughout the book. With new and updated material, this edition of Online Searching gives students knowledge and skills for success when intermediating between information seekers and the sources they need.

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interactive distance education Focuses on mathematical education for developing early mathematics courses

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Patrick Jones, 2014-08-04 Practice makes perfect—and helps deepen your understanding of calculus 1001 Calculus Practice Problems For Dummies takes you beyond the instruction and guidance offered in Calculus For Dummies, giving you 1001 opportunities to practice solving problems from the major topics in your calculus course. Plus, an online component provides you with a collection of calculus problems presented in multiple-choice format to further help you test your skills as you go. Gives you a chance to practice and reinforce the skills you learn in your calculus course Helps you refine your understanding of calculus Practice problems with answer explanations that detail every step of every problem The practice problems in 1001 Calculus Practice Problems For Dummies range in areas of difficulty and style, providing you with the practice help you need to score high at exam time.

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Practice) Patrick Jones, 2022-06-01 Practice your way to a higher grade in Calculus! Calculus is a hands-on skill. You've gotta use it or lose it. And the best way to get the practice you need to develop your mathematical talents is Calculus: 1001 Practice Problems For Dummies. The perfect companion to Calculus For Dummies—and your class— this book offers readers challenging practice problems with step-by-step and detailed answer explanations and narrative walkthroughs. You'll get free access to all 1,001 practice problems online so you can create your own study sets for extra-focused learning. Readers will also find: A useful course supplement and resource for students in high school and college taking Calculus I Free, one-year access to all practice problems online, for on-the-go study and practice An excellent preparatory resource for faster-paced college classes Calculus: 1001 Practice Problems For Dummies (+ Free Online Practice) is an essential resource for high school and college students looking for more practice and extra help with this challenging math subject. Calculus: 1001 Practice Problems For Dummies (9781119883654) was previously published as 1,001 Calculus Practice Problems For Dummies (9781118496718). While this version features a new Dummies cover and design, the content is the same as the prior release and should not be considered a new or updated product.

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Mark Ryan, 2023-04-25 Make calculus more manageable with simplified instruction and tons of practice Calculus All-in-One For Dummies pairs no-nonsense explanations of calculus content with practical examples and practice problems, so you can untangle the difficult concepts and improve your score in any calculus class. Plus, this book comes with access to chapter quizzes online. Dummies makes differentiation, integration, and everything in between more manageable, so you can crush calculus with confidence. Review the foundational basics, then dive into calc lessons that track your class. This book takes you through a full year of high-school calculus or a first semester of college calculus, only explained more clearly. Work through easy-to-understand lessons on everything in a typical calc class Get the score you want and need on standardized tests like AP Calculus Access online chapter quizzes for additional practice Untangle tricky problems and discover clever ways to solve them With clear definitions, concise explanations, and plenty of helpful information on everything from limits and vectors to integration and curve-sketching, Calculus All-in-One For Dummies is the must-have resource for students who want to review for exams or just need extra help understanding the concepts from class.

calculus online: *Common Core Math For Parents For Dummies with Videos Online*

Christopher Danielson, 2015-03-27 Help your child succeed with a better understanding of Common Core Math Common Core Math For Parents For Dummies is packed with tools and information to help you promote your child's success in math. The grade-by-grade walk-through brings you up to speed on what your child is learning, and the sample problems and video lessons help you become more involved as you study together. You'll learn how to effectively collaborate with teachers and keep tabs on your child's progress, so minor missteps can be corrected quickly, before your child

falls behind. The Common Core was designed to improve college- and career-readiness, and to prepare U.S. students to be more competitive on an international stage when it's time to enter the workforce. This guide shows you how the standards were created, and how they've evolved over time to help ensure your child's future success. The Common Core Math Standards prepare students to do real math in the real world. Many new teaching methods are very different from the way most parents learned math, leading to frustration and confusion as parents find themselves unable to help with homework or explain difficult concepts. This book cuts the confusion and shows you everything you need to know to help your child succeed in math. Understand the key concepts being taught in your child's grade Utilize the homework tools that help you help your child Communicate more effectively with your child's teacher Guide your child through sample problems to foster understanding The Common Core was designed to ensure that every student, regardless of location or background, receives the education they need. Math skills are critical to real-world success, and the new standards reflect that reality in scope and rigor. Common Core Math For Parents For Dummies helps you help your child succeed.

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calculus online: Online Harassment Jennifer Golbeck, 2018-07-20 Online Harassment is one of the most serious problems in social media. To address it requires understanding the forms harassment takes, how it impacts the targets, who harasses, and how technology that stands between users and social media can stop harassers and protect users. The field of Human-Computer Interaction provides a unique set of tools to address this challenge. This book brings together experts in theory, socio-technical systems, network analysis, text analysis, and machine learning to present a broad set of analyses and applications that improve our understanding of the harassment problem and how to address it. This book tackles the problem of harassment by addressing it in three major domains. First, chapters explore how harassment manifests, including extensive analysis of the Gamer Gate incident, stylistic features of different types of harassment, how gender differences affect misogynistic harassment. Then, we look at the results of harassment, including how it drives people offline and the impacts it has on targets. Finally, we address techniques for mitigating harassment, both through automated detection and filtering and interface options that users control. Together, many branches of HCI come together to provide a comprehensive look at the phenomenon of online harassment and to advance the field toward effective human-oriented solutions.

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frameworks, online learning technologies in practice, online learning strategies and resources, etc.

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calculus online: *ECAI 2014* T. Schaub, G. Friedrich, B. O'Sullivan, 2014-08 The role of artificial intelligence (AI) applications in fields as diverse as medicine, economics, linguistics, logical analysis and industry continues to grow in scope and importance. AI has become integral to the effective functioning of much of the technical infrastructure we all now take for granted as part of our daily lives. This book presents the papers from the 21st biennial European Conference on Artificial Intelligence, ECAI 2014, held in Prague, Czech Republic, in August 2014. The ECAI conference remains Europe's principal opportunity for researchers and practitioners of Artificial Intelligence to gather and to discuss the latest trends and challenges in all subfields of AI, as well as to demonstrate innovative applications and uses of advanced AI technology. Included here are the 158 long papers and 94 short papers selected for presentation at the conference. Many of the papers cover the fields of knowledge representation, reasoning and logic as well as agent-based and multi-agent systems, machine learning, and data mining. The proceedings of PAIS 2014 and the PAIS System Demonstrations are also included in this volume, which will be of interest to all those wishing to keep abreast of the latest developments in the field of AI.

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calculus online: *Online Distance Education* Margaret Gorts Morabito, 1999 Many educators and the public are interested in online distance education, in particular Internet-based schooling. The underlying assumption is that this is a new and untested fad in education. This is due in part to a lack of documentation within academia of the early development of online distance education, and, in part, to a shortage of experienced, practicing online schools. On the Internet, one may become confused by the flurry of activity and by the various claims from organizations that they are

providing a revolutionary method of instruction--online teaching. Furthermore, many people are unaware of the long and distinguished history of distance education itself that is the root of current day Internet-based schooling. Despite the uncertainty, the public is clearly demanding online distance education. This dissertation helps to resolve these problems. This study fills various needs for the purpose of showing the effective application of online distance education. Educational administrators, teachers, and the public must be assured that online distance teaching is a valid and proven instructional method. Furthermore, administrators and teachers need to know what to expect when planning, operating, and teaching in an online school. Through historical analysis and the presentation of a practicing Internet-based school, this study fills these needs. This dissertation results from fifteen years of independent study and research by the author, combined with professional experience in the field of online distance education, including Internet-based school design and operation. Conclusions result from published studies in distance education; from research conducted in the 1980s concerning publicly available online distance education; and from experience in developing, administering, and teaching in an international, Internet-based school that has been in continual operation online since 1986. The author concludes that: (1) online distance education has a proven track record; (2) there is continual demand from the global community for Internet-based instruction, as well as a public demand for traditional institutions to accept this nontraditional method of study; and (3) administrators and teachers can economically create and operate an effective Internet-based school that is accessible to and affordable for individual learners using low-cost personal computers.

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