

Calculus Final Exam Study Guide

1. (No Calc) What is the value of $\lim_{x \rightarrow -1} \frac{x^2 - 3x - 4}{x^2 - 1}$?

Start by plugging in:

$$= \frac{(-1)^2 - 3(-1) - 4}{(-1)^2 - 1} = \frac{1 + 3 - 4}{1 - 1} = \frac{0}{0}$$

We have the indeterminate form, we need to use L'Hopital's Rule. Take the derivative of the top and bottom (separately), then try plugging in again.

$$= \lim_{x \rightarrow -1} \frac{2x - 3}{2x} = \frac{2(-1) - 3}{2(-1)} = \frac{-2 - 3}{-2} = \frac{-5}{-2} = \frac{5}{2}$$

2. (No Calc) What is the equation of the line tangent to $f(x) = 3x - 5 \cos 2x$ at $x = 0$?

We will use the form: $y = m(x - x_1) + y_1$. We have our x_1 , we only need m and y_1 .

To get y_1 , plug into the original equation:

$$f(0) = 3(0) - 5 \cos(2 \cdot 0) = 0 - 5 \cos 0 = -5$$

To get m , plug into the derivative (remember to use the chain rule!):

$$\begin{aligned} f'(x) &= 3 + 10 \sin 2x \\ f'(0) &= 3 + 10 \sin(2 \cdot 0) \\ &= 3 \end{aligned}$$

And now we just plug into the equation of the line:

$$y = 3(x - 0) - 5$$

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E-Learning Adilson Guelfi, Elvis Pontes, Sergio Kofuji, 2012-02-17 Technology development mainly for telecommunications and computer systems was a key factor for the interactivity and thus for the expansion of e learning This book is divided into two parts presenting some proposals to deal with e learning challenges opening up a way of learning about and discussing new methodologies to increase the interaction level of classes and implementing technical tools for helping students to make better use of e learning resources In the first part the reader may find chapters mentioning the required infrastructure for e learning models and processes organizational practices suggestions implementation of methods for assessing results and case studies focused on pedagogical aspects that can be applied generically in different environments The second part is related to tools that can be adopted by users such as graphical tools for engineering mobile phone networks and techniques to build robots among others Moreover part two includes some chapters dedicated specifically to e learning areas like engineering and architecture

The Complete Idiot's Guide to College Survival

Laurie Rozakis, 2001-06-01 You d think getting into college was the hard part years of studying for great grades taking SATs filling out applications and waiting in agony for the acceptance letters Someone should have told you that was just the beginning The Complete Idiot s Guide to College Survival begins where those how to get into college guides leave off from packing gear and arriving on campus for the first time to graduation The bible of college life it offers information on making good grades dealing with roommates finding social activities balancing work and other extracurricular activities and more

Emma Thrift Study Edition Jane Austen, 2012-05-10 Includes the unabridged text of Austen s classic novel plus a complete study guide that features chapter by chapter summaries explanations and discussions of the plot question and answer sections author biography historical background and more

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A Statistical Study of the Grades in a Calculus Course Marie Margaret Ness, 1925

Resources in Education , 2001

CliffsAP Physics B & C James R. Centorino, 2004 Suitable for students who are enrolled in AP Physics B or C or who are preparing for the Advanced Placement Examination in AP Physics B or C this book offers hints for answering the free response and multiple choice sections an explanation of the exam formats and a look at how exams are graded

Foundations for the Future in Mathematics Education Richard A. Lesh, Eric Hamilton, James J. Kaput, 2020-10-07 The central question addressed in Foundations for the Future in Mathematics Education is this What kind of understandings and abilities should be emphasized to decrease mismatches between the narrow band of mathematical understandings and abilities that are emphasized in mathematics classrooms and tests and those that are needed for success beyond school in the 21st century This is an urgent question In fields ranging from aeronautical engineering to agriculture

and from biotechnologies to business administration outside advisors to future oriented university programs increasingly emphasize the fact that beyond school the nature of problem solving activities has changed dramatically during the past twenty years as powerful tools for computation conceptualization and communication have led to fundamental changes in the levels and types of mathematical understandings and abilities that are needed for success in such fields For K 12 students and teachers questions about the changing nature of mathematics and mathematical thinking beyond school might be rephrased to ask If the goal is to create a mathematics curriculum that will be adequate to prepare students for informed citizenship as well as preparing them for career opportunities in learning organizations in knowledge economies in an age of increasing globalization how should traditional conceptions of the 3Rs be extended or reconceived Overall this book suggests that it is not enough to simply make incremental changes in the existing curriculum whose traditions developed out of the needs of industrial societies The authors beyond simply stating conclusions from their research use results from it to describe promising directions for a research agenda related to this question The volume is organized in three sections Part I focuses on naturalistic observations aimed at clarifying what kind of mathematical thinking people really do when they are engaged in real life problem solving or decision making situations beyond school Part II shifts attention toward changes that have occurred in kinds of elementary but powerful mathematical concepts topics and tools that have evolved recently and that could replace past notions of basics by providing new foundations for the future This section also initiates discussions about what it means to understand the preceding ideas and abilities Part III extends these discussions about meaning and understanding and emphasizes teaching experiments aimed at investigating how instructional activities can be designed to facilitate the development of the preceding ideas and abilities Foundations for the Future in Mathematics Education is an essential reference for researchers curriculum developers assessment experts and teacher educators across the fields of mathematics and science education

, **The Glass in My Throat** B. R. White, 2005 The Glass In My Throat was recognized and awarded the Best Autobiography for 2005 by BlackRefer com the largest African American reference Web site Release 2 0 coming June 2011 For more information please click the link below The Glass In My Throat Full Web Site ABOUT THE BOOK AND AUTHOR 25 plus years after graduating high school I have enjoyed much success working for fortune 500 fortune 100 and fortune 50 companies as a Programmer Fiber Optic Engineer Financial Securities Broker Operations Executive and successful entrepreneur Today I am a top tier technology executive author and radio show host My journey over the years has taken me far beyond where I was as a kid and into areas of business and personal achievement I could never have imagined As a kid like many other poor black kids I watched TV to find images of success that looked different from neighborhood success where were people doing well surviving but working four jobs dealing drugs reselling stolen goods and living on welfare The only problem with watching TV is the shows only provide you the end result of someone being a business executive lawyer or doctor with very little information on how to make it happen As a result many

young black kids identify with sports figures that make it rich because the sports plan seems simple and clear play good ball go pro and get rich Unfortunately I never played a sport well enough to make millions so I had to figure out how to make it through life as a regular guy coming from a poor neighborhood To help others I documented the details of my journey and provide the raw scoop on many of the highs and lows of my experience as they relate to financial planning education family relationships racism and much more I outline what happens behind the scenes of becoming a black executive Release 2 0 provides some additional insights and outlines how regular people most of the population can find success with the right information and attitude In addition to the intimate personal documentation The Glass In My Throat has Personal Cookbooks which are designed to help our kids and parents focus on the basics that truly drive success The cookbooks also provide information on making it through college operating as an executive and becoming an entrepreneur Thank you for checking out my book The Glass In My Throat is also sole sponsor of The Black Eye Show Be sure to visit the show page The Black Eye Show Web Site

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