

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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High School Calculus Final Exam Study Guide:

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 1978 National College Entrance Examination in the People's Republic of China* United States. Office of Education, 1979 **Psychology and Mathematics Education** Gila Hanna, Laura Macchi, Karin Binder, Laura Martignon, Katharina Loibl, 2023-09-05 Modern Mathematics is constructed rigorously through proofs based on truths which are either axioms or previously proven theorems Thus it is par excellence a model of rational inquiry Links between Cognitive Psychology and Mathematics Education have been particularly strong during the last decades Indeed the Enlightenment view of the rational human mind that reasons makes decisions and solves problems based on logic and probabilities was shaken during the second half of the twentieth century Cognitive psychologists discovered that humans thoughts and actions often deviate from rules imposed by strict normative theories of inference Yet these deviations should not be called errors as Cognitive Psychologists have demonstrated these deviations may be either valid heuristics that succeed in the environments in which humans have evolved or biases that are caused by a lack of adaptation to abstract information formats Humans as the cognitive psychologist and economist Herbert Simon claimed do not usually optimize but rather satisfice even when solving problem This Research Topic aims at demonstrating that these insights have had a decisive impact on Mathematics Education We want to stress that we are concerned with the view of bounded rationality that is different from the one espoused by the heuristics and biases program In Simon's bounded rationality and its direct descendant ecological rationality rationality is understood in terms of cognitive success in the world correspondence rather than in terms of conformity to content free norms of coherence e g transitivity *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

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