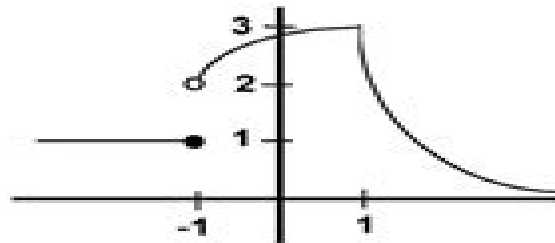


Calculus 1501: Practice Exam 1

1. State the following definitions or theorems:
 - a) Definition of a function $f(x)$ having a limit L .
 - b) Definition of a function $f(x)$ being continuous at $x = c$.
 - c) Definition of the derivative $f'(x)$ of a function $f(x)$.
 - d) The "Squeezing Theorem".
 - e) The "Intermediate Value Theorem".
 - f) Theorem on the connection of differentiability and continuity.
 - g) Derivatives of $\sin(x)$ and $\cos(x)$ (with proofs).
2. The picture on the left shows the graph of a certain function. Based on that graph, answer the questions:



- a) $\lim_{x \rightarrow -1^-} f(x)$
 - b) $\lim_{x \rightarrow -1^+} f(x)$
 - c) $\lim_{x \rightarrow 1} f(x)$
 - d) $\lim_{x \rightarrow 0} f(x)$
 - e) Is the function continuous at $x = -1$?
 - f) Is the function continuous at $x = 1$?
 - g) Is the function differentiable at $x = -1$?
 - h) Is the function differentiable at $x = 1$?
 - i) Is $f'(0)$ positive, negative, or zero?
 - k) What is $f'(-2)$?
3. Find each of the following limits (show your work):

a) $\lim_{x \rightarrow 3} 4x$	b) $\lim_{x \rightarrow 3} \frac{x^2 - 2x}{x + 3}$	c) $\lim_{x \rightarrow 3} \frac{3 - x}{x^2 + 2x - 15}$
d) $\lim_{x \rightarrow 1^+} \frac{x}{x - 1}$	e) $\lim_{x \rightarrow 1^-} \frac{x}{x - 1}$	f) $\lim_{x \rightarrow 1} \frac{x}{x - 1}$
g) $\lim_{x \rightarrow 0} \frac{\sin^2(x)}{3x^2}$	h) $\lim_{x \rightarrow 0} \frac{\sin^2(x)}{\cos^2(x)}$	i) $\lim_{x \rightarrow 0} \frac{\sin(6x)}{7x}$
j) $\lim_{x \rightarrow 0} \frac{e^x}{1 - \cos(x)}$	k) $\lim_{x \rightarrow 0} x \sin\left(\frac{1}{x}\right)$	l) $\lim_{x \rightarrow \infty} \frac{3x^2 - 1}{2 - 3x - 4x^2}$
m) $\lim_{x \rightarrow \infty} \frac{3x^2 - 1}{2 - 3x}$	n) $\lim_{x \rightarrow 2} \sqrt{x^2 - 1} - x$	

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Mathematical Problem Solving Peter Liljedahl, Manuel Santos-Trigo, 2019-02-12 This book contributes to the field of mathematical problem solving by exploring current themes trends and research perspectives It does so by addressing five broad and related dimensions problem solving heuristics problem solving and technology inquiry and problem posing in mathematics education assessment of and through problem solving and the problem solving environment Mathematical problem solving has long been recognized as an important aspect of mathematics teaching mathematics and learning mathematics It has influenced mathematics curricula around the world with calls for the teaching of problem solving as well as the teaching of mathematics through problem solving And as such it has been of interest to mathematics education researchers for as long as the field has existed Research in this area has generally aimed at understanding and relating the processes involved in solving problems to students development of mathematical knowledge and problem solving skills The accumulated knowledge and field developments have included conceptual frameworks for characterizing learners success in problem solving activities cognitive metacognitive social and affective analysis curriculum proposals and ways to promote problem solving approaches [200 technical questions and answers for job interview Offshore Drilling Rigs](#) Petrogav International Oil & Gas Training Center, 2020-06-29 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 200 questions and answers for job interview and as a BONUS web addresses to 309 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry

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issues The Topic Study Groups provides a coverage of important topics in mathematics education Volume II consists of 50 invited lectures which present the work and reflections of both established and emerging researchers from around the world These lectures cover a wide spectrum of topics themes and issues that reflect the latest challenges and development in the field of mathematics education

The Best Writing on Mathematics 2015 Mircea Pitici, 2016-01-12 The year's finest writing on mathematics from around the world This annual anthology brings together the year's finest mathematics writing from around the world Featuring promising new voices alongside some of the foremost names in the field The Best Writing on Mathematics 2015 makes available to a wide audience many articles not easily found anywhere else and you don't need to be a mathematician to enjoy them These writings offer surprising insights into the nature meaning and practice of mathematics today They delve into the history philosophy teaching and everyday occurrences of math and take readers behind the scenes of today's hottest mathematical debates Here David Hand explains why we should actually expect unlikely coincidences to happen Arthur Benjamin and Ethan Brown unveil techniques for improvising custom made magic number squares Dana Mackenzie describes how mathematicians are making essential contributions to the development of synthetic biology Steven Strogatz tells us why it's worth writing about math for people who are alienated from it Lisa Rougetet traces the earliest written descriptions of Nim a popular game of mathematical strategy Scott Aaronson looks at the unexpected implications of testing numbers for randomness and much much more In addition to presenting the year's most memorable writings on mathematics this must have anthology includes a bibliography of other notable writings and an introduction by the editor Mircea Pitici This book belongs on the shelf of anyone interested in where math has taken us and where it is headed

Mathematical Modeling and Applied Calculus Joel Kilty, Alex McAllister, 2018-09-13 This textbook is rich with real life data sets uses RStudio to streamline computations builds big picture conceptual understandings and applies them in diverse settings Mathematical Modeling and Applied Calculus will develop the insights and skills needed to describe and model many different aspects of our world This textbook provides an excellent introduction to the process of mathematical modeling the method of least squares and both differential and integral calculus perfectly meeting the needs of today's students Mathematical Modeling and Applied Calculus provides a modern outline of the ideas of Calculus and is aimed at those who do not intend to enter the traditional calculus sequence Topics that are not traditionally taught in a one semester Calculus course such as dimensional analysis and the method of least squares are woven together with the ideas of mathematical modeling and the ideas of calculus to provide a rich experience and a large toolbox of mathematical techniques for future studies Additionally multivariable functions are interspersed throughout the text presented alongside their single variable counterparts This text provides a fresh take on these ideas that is ideal for the modern student

Thinking of Questions Peter Limm, 2015-09-23 This is not a conventional book It is designed to stimulate and challenge all people who are curious to find out about the world they inhabit and their place within it It does this by suggesting questions and lines of

questioning on a wide range of topics The book does not provide answers or model arguments but prompts people to create their own questions and a reading log or journal To this end almost all questions have a list of books or articles to provide a starter for stimulating further reading Once you start you will be hooked Never stop questioning *273 technical questions and answers for job interview Offshore Drilling Rigs* Petrogav International Oil & Gas Training Center,2020-06-29 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 273 questions and answers for job interview and as a BONUS web addresses to 280 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry *100 technical questions and answers for job interview Offshore Drilling Platforms* Petrogav International Oil & Gas Training Center,2020-06-29 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 100 questions and answers for job interview and as a BONUS web addresses to 309 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry **100 technical questions and answers for job interview Offshore Oil & Gas Rigs** Petrogav International Oil & Gas Training Center,2020-06-30 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 100 questions and answers for job interview and as a BONUS web addresses to 230 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry *Teaching Undergraduate Science* Linda C. Hodges,2025-09-25 Teaching Undergraduate Science A Guide to Overcoming Obstacles to Student Learning offers college and university instructors evidence based strategies to help students learn those specific skills and habits of mind necessary for succeeding in STEM fields Updated and expanded from the first edition this text elaborates on critical factors in cultivating student success including how to engender a sense of belonging and agency in

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