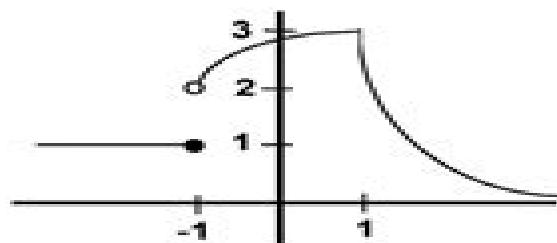


Calculus 1501: Practice Exam 1

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) $\lim_{t \rightarrow 0} \frac{t^2}{1 - \cos(t)}$	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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Proceedings Of The 14th International Congress On Mathematical Education (In 2 Volumes) Jianpan

Wang,2024-06-07 The International Congress on Mathematical Education ICME is the largest international conference on mathematics education in the world This quadrennial event is organized under the auspices of the International Commission on Mathematical Instruction ICMI This book the Proceedings of ICME 14 presents the latest trends in mathematics education research and mathematics teaching practices at all levels Each chapter covers an extensive range of topics in mathematics education Volume I consists of 4 Plenary Lectures 3 Plenary Panels 5 Lectures of Awardees 4 Survey Teams 62 Topic Study Groups 13 Discussion Groups 20 Workshops a Thematic Afternoon and an Early Career Researcher Day Plenary Lectures recognize substantial and continuing contributions to the growth of the field of Mathematics Education Plenary Panels address three major challenges currently facing mathematics educators across the globe The Survey Teams have a particular emphasis on identifying and characterizing important new knowledge recent developments new perspectives and emergent 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

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education to contribute to an ever expanding reservoir of mathematical knowledge facilitating the continuous development of the mathematical field *Resources in Education* ,2001 *Inferences with Ignorance: Logics of Questions* Michal Peliš,2017-03-01 Inferences with Ignorance focuses on two formal logic systems that employ the type of inferences in which questions are used in addition to statements Not merely capturing questions as part of a logical apparatus Michal Peli also emphasizes the role of question asking in communication The book presents options for formalizing questions using sets of direct answers demonstrates where questions are used in inferences and explores asking questions and seeking answers as important components of everyday communication proposing ways of using questions within a formal system that can capture a change in knowledge during this simple communication **Index to Mathematical Problems, 1975-1979**

Stanley Rabinowitz,Mark Bowron,1999 *The Educator's Handbook for Understanding and Closing Achievement Gaps* Joseph Murphy,2010 Beginning with a remarkably comprehensive and accessible analysis of the gap s causes the book offers a refreshingly balanced evidence based state of the art outline of productive solutions that should inform the work of all educational stakeholders Ken Leithwood Professor OISE University of Toronto No one is better positioned than Joseph Murphy to provide lessons for education leaders on this important topic Andrew Porter George and Diane Weiss Professor of Education University of Pennsylvania For too long the achievement gap has been proclaimed discussed and then dismissed as a subject of despair Seldom has it been systematically defined placed in historical perspective or positively addressed Through thorough scholarship comprehensive knowledge and creativity this book fills that void James W Guthrie Patricia and Rodes Hart Professor of Educational Leadership and Public Policy Vanderbilt University While offering no simple pathway to progress this book reminds us how much more we can do to close achievement gaps Michael S Knapp Director Center for the Study of Teaching Policy University of Washington Distinguished researcher Joseph F Murphy has gathered and analyzed the most up to date research and data to help headteachers understand what the achievement gap is why it persists and what teachers can do about it This comprehensive handbook Examines external factors that contribute to achievement gaps such as socioeconomic status family environment racism and individual differences Covers internal factors such as instruction school culture and school support Provides strategies for addressing both internal and external factors to make an impact

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