

 UNIVERSITY OF TECHNOLOGY VNUHCM FACULTY OF AS	MIDTERM EXAM		Semester/ Academic year		221	2022 - 2023
			Date	October 2022		
	Course title		Calculus I			
	Course ID		MT1003			
	Duration		50 mins	Question sheet code	1254	
Instructions to students: - There are 6 pages in the exam -This is a closed book exam. Only your calculator is allowed. Total available score: 10.						

- Question 01.** Find the domain of function $y = \sqrt{\ln\left(1 + \frac{1}{x}\right)}$
 (A) $x < -1$ (B) None of them (C) $x > 0$ or $x < -1$ (D) $x > 0$
- Question 02.** Find real values of a such that $f(x) = \begin{cases} ax - 2, & x \leq 1 \\ \arctan(\sqrt{x-1}), & x > 1 \end{cases}$ is continuous at $x = 1$.
 (A) None of them (B) 2 (C) 1 (D) -2
- Question 03.** Find real values of a such that $f(x) = \begin{cases} \arctan \frac{x^3 - 2}{x - 1}, & x \neq 1 \\ a, & x = 1 \end{cases}$ is continuous at $x = 1$.
 (A) $-\frac{\pi}{2}$ (B) $\frac{\pi}{2}$ (C) $-\frac{\pi}{4}$ (D) a does not exist
- Question 04.** Find ALL points on the graph of $f(x) = x^3 - 3x$ where the tangent line is parallel to the x -axis.
 (A) None of them (B) (1, -2) and (-1, 2) (C) (1, -2) (D) (1, 2) and (-1, -2)
- Question 05.** Find ALL points on the graph of $f(x) = \frac{1}{x}$ where the tangent line is perpendicular to the line $y = 4x - 3$.
 (A) $\left(1, \frac{1}{2}\right)$ and $\left(-1, -\frac{1}{2}\right)$ (B) $\left(2, \frac{1}{2}\right)$
 (C) None of them (D) $\left(2, \frac{1}{2}\right)$ and $\left(-2, -\frac{1}{2}\right)$
- Question 06.** Find constant A, B, C so that $y = Ax^3 + Bx + C$ satisfies the equation $y''' + 2y'' - 3y' + y = x$.
 (A) None of them (B) $A = 1, B = 1, C = 3$ (C) $A = 0, B = 1, C = 3$ (D) $A = 0, B = 2, C = 3$
- Question 07.** For what values of A and B does $y = Ax \cos x + Bx \sin x$ satisfy $y'' + y = -3 \cos x$?
 (A) $A = 1, B = 2$ (B) $A = 0, B = 1$ (C) $A = 0, B = -\frac{3}{2}$ (D) None of them
- Question 08.** Determine ALL values of x such that $f(x) = \frac{x^2 - 1}{x^2 - 4}$ is not differentiable.
 (A) $x \neq \pm 2$ (B) None of them (C) $x \neq 1$ (D) $x = \pm 2$
- Question 09.** Determine ALL values of x such that $f(x) = \sqrt[3]{(x^2 - 1)^2}$ is not differentiable.
 (A) $x = \pm 2$ (B) $x = \pm 1$ (C) None of them (D) $x \neq 1$
- Question 10.** Find a, b such that function f is differentiable at $x = 0$, if $f(x) = \begin{cases} x^2 + 2x, & x \leq 0 \\ \ln(ax + b), & x > 0 \end{cases}$
 (A) None of them (B) $a = 1, b = 1$ (C) $a = 2, b = 1$ (D) $a = 0, b = 2$
- Question 11.** A particle moving on the x -axis has position $s(t) = t^3 - 9t^2 + 24t + 20$ after an elapsed time of t seconds. What is the total distance travelled by the particle during the first 8 seconds?
 (A) None of them (B) 126 (C) 116 (D) 136

Answer Manual For Calculus A First Course

Paolo Amore, John Dirk Walecka



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Calculus Davison, Thomas M. K., James Stewart, Ferroni, Bryan, 1989-01-01 *Solutions Manual for Calculus, a First Course* Thomas M. K. Davison, James Stewart, Bryan Ferroni, 2002 A Student's Manual for A First Course in General Relativity Robert B. Scott, 2016 This comprehensive student manual has been designed to accompany the leading textbook by Bernard Schutz *A First Course in General Relativity* and uses detailed solutions cross referenced to several introductory and more advanced textbooks to enable self learners undergraduates and postgraduates to master general relativity through problem solving The perfect accompaniment to Schutz's textbook this manual guides the reader step by step through over 200 exercises with clear easy to follow derivations It provides detailed solutions to almost half of Schutz's exercises and includes 125 brand new supplementary problems that address the subtle points of each chapter It includes a comprehensive index and collects useful mathematical results such as transformation matrices and Christoffel symbols for commonly studied spacetimes in an appendix Supported by an online table categorising exercises a Maple worksheet and an instructors manual this text provides an invaluable resource for all students and instructors using Schutz's textbook A First Course in Stochastic Calculus Louis-Pierre Arguin, 2021-11-22 A First Course in Stochastic Calculus is a complete guide for advanced undergraduate students to take the next step in exploring probability theory and for master's students in mathematical finance who would like to build an intuitive and theoretical understanding of stochastic processes This book is also an essential tool for finance professionals who wish to sharpen their knowledge and intuition about stochastic calculus Louis Pierre Arguin offers an exceptionally clear introduction to Brownian motion and to random processes governed by the principles of stochastic calculus The beauty and power of the subject are made accessible to readers with a basic knowledge of probability linear algebra and multivariable calculus This is achieved by emphasizing numerical experiments using elementary Python coding to build intuition and adhering to a rigorous geometric point of view on the space of random variables This unique approach is used to elucidate the properties of Gaussian processes martingales and diffusions One of the book's highlights is a detailed and self contained account of stochastic calculus applications to option pricing in finance Louis Pierre Arguin's masterly introduction to stochastic calculus seduces the reader with its quietly conversational style even rigorous proofs seem natural and easy Full of insights and intuition reinforced with many examples numerical projects and exercises this book by a prize winning mathematician and great teacher fully lives up to the author's reputation I give it my strongest possible recommendation Jim Gatheral Baruch College I happen to be of a different persuasion about how stochastic processes should be taught to undergraduate and MA students But I have long been thinking to go against my own grain at some point and try to teach the subject at this level together with its applications to finance in one semester Louis Pierre Arguin's excellent and artfully designed text will give me the ideal vehicle to do so Ioannis Karatzas Columbia University New York **Student Study Guide to Accompany A First Course in Complex Analysis with Applications**

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