

- MATH1005 C - Fall 2023 - Carleton University - Test #1 - Sept. 25
- Ordinary Differential Equations and Infinite Series - Mohammad Ahmadpoor
- No Calculator/ No Formula Sheet/ 7 Questions/ 2 Pages/ Total Marks: 100/ Duration: 50 min.

Student Full Name: _____ Student ID: _____

Your TA Name: _____ Tutorial Section C _____

• **PART I: Multiple-Choice Questions (Choose Only One)**

1. (10 points) Choose the ODE which is Separable, Homogeneous and Bernoulli (your choice should be all of these three types simultaneously).

A. $\frac{y^2}{x^2} - y' = 0$ B. $y' = \frac{3x+6y}{3x+7y}$ C. $y' = \frac{x^2(y^2+1)}{y^2}$ D. $y' = \tan(\frac{x^2y}{x^2+y^2}) - \ln(\frac{2x+y^2+y^2}{x\sqrt{xy}})$

2. (10 points) Find the general solution to $y' = \frac{\ln(x)y^2}{x} - \cos(x)e^{\sin(x)}$, $x > 0$.

A. $y = \frac{1}{2}(\ln(x))^2 - e^{\cos(x)} + C$
 B. $y = \frac{1}{2}(\ln(x))^3 - e^{\sin(x)} + C$
 C. $y = \frac{1}{2}(\ln(x))^2 - e^{\sin(x)} + C$
 D. $y = \frac{1}{3}(\ln(x))^3 - e^{\cos(x)} + C$

3. (10 points) Choose the third-order linear ODE.

A. $yy''' - 2xy'' + e^x y - 1 = 0$
 B. $\frac{1}{2}y''' + \ln(x)y'' + \cos(x)y' - y = 0$
 C. $y''' - \frac{1}{9}y' + \tan(x)y - 10x^2 = 0$
 D. $x^3y'' - 5xy' + 10y^3 = 0$

4. (10 points) Choose the Exact ODE.

A. $(xye^{xy} + 4x - 2y)dx - (2x - 3y)dy = 0$
 B. $(\cos(x+y) - xy)dx - (\cos(x+y) + x^2y^2)dy = 0$
 C. $(ye^{xy} + 4x - 2y)dx + (xe^{xy} - 2x + 10y)dy = 0$
 D. $(x^2y^3)dx - (x^3y^2 + 5x)dy = 0$

• **PART II: Long-Answer Questions (Show Your Work)**

5. (20 points) Find the orthogonal trajectories to the family of curves $y = Cx^3$.

$$y = Cx^3 \Rightarrow C = \frac{y}{x^3} \quad \& \quad y' = 3Cx^2 \Rightarrow y' = 3\frac{y}{x^3}x^2 \Rightarrow y' = \frac{3y}{x}$$

$$-\frac{1}{y'} = \frac{3y}{x} \Rightarrow y' = -\frac{x}{3y}$$

$$\frac{3y^2}{2} = -\frac{x^2}{2} + C \Rightarrow x^2 + 3y^2 = C.$$

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William Lee Carlson, Betty Thorne



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Advanced Engineering Mathematics, 10e Volume 1: Chapters 1 - 12 Student Solutions Manual and Study Guide Herbert Kreyszig, Erwin Kreyszig, 2012-01-17 Student Solutions Manual to accompany Advanced Engineering Mathematics 10e The tenth edition of this bestselling text includes examples in more detail and more applied exercises both changes are aimed at making the material more relevant and accessible to readers Kreyszig introduces engineers and computer scientists to advanced math topics as they relate to practical problems It goes into the following topics at great depth differential equations partial differential equations Fourier analysis vector analysis complex analysis and linear algebra differential equations

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Continuum Mechanics and Thermodynamics E. E. Gdoutos, 2012 Treats subjects directly related to nonlinear materials modeling for graduate students and researchers in physics materials science chemistry and engineering

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Applied Statistical Methods William Lee Carlson, Betty Thorne, 1997 This book describes and explains the entire process of designing and building a distributed object application with the VisualAge Smalltalk Distributed feature This book contains an overview of the features and architecture of SmallTalk's Distributed feature sample application components with supporting documentation to illustrate design and coding and recommendations for building distributed object applications with VisualAge Learn how to set up the development environment and special considerations for testing

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Handbook of Data Quality Shazia Sadiq, 2013-08-13 The issue of data quality is as old as data itself However the proliferation of diverse large scale and often publically available data on the Web has increased the risk of poor data quality and misleading data interpretations On the other hand data is now exposed at a much more strategic level e g through business intelligence systems increasing manifold the stakes involved for individuals corporations as well as government agencies There the lack of knowledge about data accuracy currency or completeness can have erroneous and even catastrophic results With these changes traditional approaches to data management in general and data quality control specifically are challenged There is an evident need to incorporate data quality considerations into the whole data cycle encompassing managerial governance as well as technical aspects Data quality experts from research and industry agree that a unified framework for data quality management should bring together organizational architectural and computational approaches Accordingly Sadiq structured this handbook in four parts Part I is on organizational solutions i e the development of data quality objectives for the organization and the development of strategies to establish roles processes policies and standards required to manage and ensure data quality Part II on architectural solutions covers the technology landscape required to deploy developed data quality management processes standards and policies Part III on computational solutions presents effective and efficient tools and techniques related to record linkage lineage and provenance data uncertainty and advanced integrity constraints Finally Part IV is devoted to case studies of successful data quality initiatives that highlight the various aspects of data quality in action The individual chapters present both an overview of the respective topic in terms of historical research and or practice and state of the art as well as specific techniques methodologies and frameworks developed by the individual contributors Researchers and students of computer science information systems or business management as well as data professionals and practitioners will benefit most from this handbook by not only focusing on the various sections relevant to their research area or particular practical work but by also studying chapters that they may initially consider not to be directly relevant to them as there they will learn about new perspectives and approaches

Economic Growth David N. Weil, 2016-06-03 Why are some countries rich and others poor David N Weil one of the top researchers in economic growth introduces students to the latest theoretical tools data and insights underlying this pivotal question By showing how empirical data relate to new and old theoretical ideas *Economic Growth* provides students with a complete introduction to the discipline and the latest research With its comprehensive and flexible organization *Economic Growth* is ideal for a wide array of courses including undergraduate and graduate courses in economic growth economic development macro theory applied econometrics and development studies

Trigonometry Dennis G. Zill, Jacqueline M. Dewar, 1990 Rev ed of College algebra and trigonometry 1988 Now published in two separate volumes Reprint Originally published New York Random

House 1989 *Financial Accounting* Brian George Gaber,1993 Calculus Richard A. Hunt,1994 This textbook was written to help students truly comprehend the ideas of calculus rather than blindly memorize formulas This edition improves upon the first by including a new design full use of colour throughout and a new organization to aid flexibility Canadian Books in Print ,1995 **Mechanical Engineering News** ,1970 *Monthly Bulletin* St. Louis Public Library,1927 Teachers bulletin vol 4 issued as part of v 23 no 9 *Monthly Bulletin. New Series* St. Louis Public Library,1927 **Business Books and Serials in Print** ,1977 *Genetics* Leland Hartwell,2000 Genetics From Genes to Genomes is a cutting edge introductory genetics text authored by an unparalleled author team including Nobel Prize winner Leland Hartwell The Third Edition continues to build upon the integration of Mendelian and molecular principles providing students with the links between early genetics understanding and the new molecular discoveries that have changed the way the field of genetics is viewed *Canadian Financial Management* Eugene F. Brigham,Alfred L. Kahl,William F. Rentz,1987 *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office,1977 The American Mathematical Monthly ,1981

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