

Unit Test - 1 **Relations and Functions**
Mathematics

Class: X

Marks:50

i) Choose the correct answer

5x1= 5

- If $n(A \times B) = 6$ and $A = \{1,3\}$ then $n(B)$ is
 a) 1 b) 2 c) 3 d) 6
- The range of the relation $R = \{(x, x^2) \mid x \text{ is a prime number less than } 13\}$ is
 a) $\{2,3,5,7\}$ b) $\{2,3,5,7,11\}$ c) $\{4,9,25, 49,121\}$ d) $\{1,4,9,25,49,121\}$
- If $\{(a, 8), (6, b)\}$ represents an identity function, then the value of a and b are respectively
 a) $(8,6)$ b) $(8, 8)$ c) $(6, 8)$ d) $(6,6)$
- If $f: A \rightarrow B$ is a bijective function and if $n(B) = 7$, then $n(A)$ is equal to
 a) 7 b) 49 c) 1 d) 14
- $f(x) = (x + 1)^2 - (x - 1)^2$ represents a function which is
 a) Linear b) cubic c) reciprocal d) quadratic

ii) Answer the following questions (any 10)

10X2= 20

- Let $A = \{1, 2, 3\}$ and $B = \{x \mid x \text{ is a prime number less than } 10\}$ Find $A \times B$ and $B \times A$
- If $B \times A = \{(-2, 3), (-2, 4), (0, 3), (0, 4), (3, 3), (3, 4)\}$ Find A and B
- If $A = \{5, 6\}$, $B = \{4, 5, 6\}$, $C = \{5, 6, 7\}$. Show that $A \times A = (B \times B) \cap (C \times C)$
- Let $A = \{3, 4, 7, 8\}$ and $B = \{1, 7, 10\}$. Which of the following sets are relations from A to B ? $R = \{(3, 7), (4, 7), (7, 10), (8, 1)\}$.
- Let $X = \{3, 4, 6, 8\}$. Determine whether the relation $R = \{(x, f(x)) \mid x \in X, f(x) = x^2 + 1\}$ is a function from X to N ?
- A function f is defined by $f(x) = 3 - 2x$. Find x such that $f(x^2) = (f(x))^2$
- A plane is flying at a speed of 500 km per hour. Express the distance d travelled by the plane as function of time t in hours.
- Let $A = \{1, 2, 3, 4\}$ and $B = N$. Let $f: A \rightarrow B$ be defined by $f(x) = x^2$ then
 1) find the range of f . 2) identify the type of function
- State whether the function is bijective or not. Justify your answer. $f: R \rightarrow R$ defined by $f(x) = 2x + 1$
- Let $A = \{-1, 1\}$ and $B = \{0, 2\}$. If the function $A \rightarrow B$ defined by $f(x) = ax + b$ is an onto function find a and b
- Find $f \circ g$ and $g \circ f$ when $f(x) = 2x + 1$ and $g(x) = x^2 - 2$
- Let $f = \{(-1, 3), (0, -1), (2, -9)\}$ be linear function from Z into Z . Find $f(x)$

iii. Answer the following questions

5 x 5 = 25

- Let $A = \{x \in N \mid 1 < x < 4\}$, $B = \{x \in W \mid 0 \leq x < 2\}$ and $C = \{x \in N \mid x < 3\}$ then verify that
 1) $A \times (B \cup C) = (A \times B) \cup (A \times C)$ 2) $A \times (B \cap C) = (A \times B) \cap (A \times C)$
- Given the function $f: x \rightarrow x^2 - 5x + 6$. Evaluate 1) $f(-1)$ 2) $f(2a)$ 3) $f(2)$ 4) $f(x - 1)$
- $f: A \rightarrow B$ be a function defined by $f(x) = \frac{x}{2} - 1$, where $A = \{2, 4, 6, 10, 12\}$
 $B = \{0, 1, 2, 4, 5, 9\}$. Represent f by 1) Set of ordered pairs; 2) a table form 3) an arrow diagram 4) a graph
- If $f(x) = 2x + 3$, $g(x) = 1 - 2x$ and $h(x) = 3x$ prove that $f \circ (g \circ h) = (f \circ g) \circ h$
- If the function $f: R \rightarrow R$ is defined by $f(x) = \begin{cases} 2x + 7, & x < -2 \\ x^2 - 2, & -2 \leq x < 3 \\ 3x - 2, & x \geq 3 \end{cases}$

Find i) $f(-4)$,ii) $f(-2)$,iii) $f(4) + 2f(1)$ iv) $\frac{f(1) - 3f(4)}{f(-3)}$

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Mathematical Models With Applications Answers Unit 9

**Laurie Callihan, Lisa Mullins, Stacey A.
Kiggins , Stephen Reiss**



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GED®Test, REA's Total Solution for the GED® Test, 2nd Edition Laurie Callihan, Lisa Mullins, Stacey A. Kiggins, Stephen Reiss, 2017-02-13 Comprehensive GED study guide that includes online diagnostic tests for each subject comprehensive review and two full length practice tests Adapted from back cover

Differential Equation Based Solutions for Emerging Real-Time Problems Papiya Debnath, Biswajit Sarkar, Manash Chanda, 2023-10-30 Modeling with differential equations is an effective tool to provide methodical and quantitative solutions to real world phenomena including investigating measurable features consolidation and processing of data and designing and developing complex engineering systems This book describes differential equations correlation with qualitative and quantitative analysis and mathematical modeling in the engineering and applied sciences Given equations are explained from multidimensional characterizations with MATLAB codes Features Addresses differential equation based approaches to solve varied engineering problems Discusses derivation and solution of major equations of engineering and applied science Reviews qualitative and quantitative numerical analysis and mathematical modelling Includes mathematical models of the discussed problems Discusses MATLAB codes Features code and online materials related to the differential equations This book is aimed at researchers graduate students in electrical and electronics engineering control systems electron devices society applied physics and engineering design

Key Tools for Human Resource Management (Collection) Steven Director, Wayne Cascio, John Boudreau, 2013-08-08 HR managers are under intense pressure to become strategic business partners Many unfortunately lack the technical skills in financial analysis to succeed in this role Now respected HR management educator Dr Steven Director addresses this skill gap head on Writing from HR's viewpoint Director covers everything mid level and senior level HR professionals need to know to formulate model and evaluate their HR initiatives from a financial and business perspective Drawing on his unsurpassed expertise working with HR executives he walks through each crucial financial issue associated with strategic talent management including the quantifiable links between workforces and business value the cost benefit analysis of HR and strategic financial initiatives and specific issues related to total rewards programs Unlike finance books for non financial managers Financial Analysis for HR Managers focuses entirely on core HR issues More than ever before HR practitioners must empirically demonstrate a clear link between their practices and firm performance In Investing in People Wayne F Cascio and John W Boudreau show exactly how to choose implement and use metrics to improve decision making optimize organizational effectiveness and maximize the value of HR investments They provide powerful techniques for looking inside the HR black box implementing human capital metrics that track the effectiveness of talent policies and practices demonstrating the logical connections to financial and line of business and using HR metrics to drive more effective decision making Using their powerful LAMP methodology Logic Analytics Measures and Process the authors demonstrate how to measure and analyze the value of every area of HR that impacts strategic value

How to Apply HR Financial

Strategies (Collection) Bashker D. Biswas, Wayne Cascio, John Boudreau, 2013-08-08 In Compensation and Benefit Design Bashker D Biswas shows exactly how to bring financial rigor to the crucial people decisions associated with compensation and benefit program development This comprehensive book begins by introducing a valuable Human Resource Life Cycle Model for considering compensation and benefit programs Next Biswas thoroughly addresses the acquisition component of compensation as well as issues related to general compensation equity compensation and pension accounting He assesses the full financial impact of executive compensation programs and employee benefit plans and discusses the unique issues associated with international HR systems and programs This book contains a full chapter on HR key indicator reporting and concludes with detailed coverage of trends in human resource accounting and the deepening linkages between financial and HR planning Replete with both full and mini case examples throughout the book also contains chapter ending exercises and problems for use by students in HR and finance programs More than ever before HR practitioners must empirically demonstrate a clear link between their practices and firm performance In Investing in People Wayne F Cascio and John W Boudreau show exactly how to choose implement and use metrics to improve decision making optimize organizational effectiveness and maximize the value of HR investments They provide powerful techniques for looking inside the HR black box implementing human capital metrics that track the effectiveness of talent policies and practices demonstrating the logical connections to financial and line of business and using HR metrics to drive more effective decision making Using their powerful LAMP methodology Logic Analytics Measures and Process the authors demonstrate how to measure and analyze the value of every area of HR that impacts strategic value

Mathematical Models in Biology Leah Edelstein-Keshet, 1988 The major aim of this book is to present instances of interaction between two major disciplines biology and mathematics The goal has been that of addressing a fairly wide audience Biology students will find this text useful as a summary of modern mathematical methods currently used in modelling and furthermore applied mathematics students may benefit from examples of applications of mathematics to real life problems As little background as possible has been assumed throughout the book prerequisites are basic calculus so that undergraduate students as well as beginning graduate students will find most of the material accessible

EBOOK: Applied Calculus for Business, Economics and the Social and Life Sciences, Expanded Edition Laurence Hoffmann, Gerald Bradley, David Sobecki, Michael Price, 2012-02-16 Applied Calculus for Business Economics and the Social and Life Sciences Expanded Edition provides a sound intuitive understanding of the basic concepts students need as they pursue careers in business economics and the life and social sciences Students achieve success using this text as a result of the author's applied and real world orientation to concepts problem solving approach straight forward and concise writing style and comprehensive exercise sets More than 100 000 students worldwide have studied from this text

Student Solutions Manual for Tipler and Mosca's Physics for Scientists and Engineers, Sixth Edition: Chapters 1-20 Todd Ruskell, 2008

Solutions Manual to Accompany Spence's Finite Mathematics Janet

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Innovative Trends in Computational Intelligence Ravi Tomar,Manolo Dulva Hina,Rafik Zitouni,Amar Ramdane-Cherif,2021-11-29 This book addresses the key problems that computational intelligence aims to solve including i the involved computational process might be too complex for mathematical reasoning ii it might contain some uncertainties during the process or iii by nature the computational process is a randomly determined one heuristic The contributors make use of methods that are close to the human s way of reasoning that is available information might be inexact or incomplete yet it would be able to produce controlled actions in an adaptive way Approaches presented in the book include swarm intelligence artificial immune systems image processing data mining natural language processing text mining and other solutions involving artificial intelligence methodologies **Mathematica - revue d'analyse numérique et de théorie de l'approximation** ,1981 **Student Solutions Manual for Goodman/Hirsch's Precalculus** Hirsch Goodman,Ross Ruegger,2000 Detailed solutions to odd numbered problems and strategies for solving additional exercises **Introductory Differential Equations** Eric John Kostelich,Dieter Armbruster,1997 From Newton s simple harmonic motion to contemporary problems of chaotic dynamics Kostelich and Armbruster focus much of their attention on the connection between the basic mathematical theory behind differential equations and their relevance to natural phenomena

Introduction to Scientific Computing Gabriel A. Pall,1971 Part I describes the digital computer in terms of technology and systems design concepts Chapters 1 and 2 provide certain background information necessary to understand and recognize the characteristics of a computing system designed to solve scientific computing problems and they also define the role of the digital computer as a modern problem solving tool Chapter 3 comprises material helpful for a clear understanding of the remaining chapters especially those m Part III and it is presented principally for the sake of definitions and uniform terminology The material on operating systems has been included since students who have had an introduction to programming may not necessarily have an understanding of operating systems monitor programs and such related concepts as input output control throughout turnaround time and operating efficiency This chapter also deals with properties and

characteristics of high level programming languages suitable for scientific problem solving It is assumed that the reader already knows one of these languages and is familiar with its syntax and external specifications The intent is to enhance and complement this basic information rather than to teach how to design an artificial language or construct a compiler An abridged version of Part 1 was taught to students ranging in level from second year undergraduates in engineering and science and third and fourth year undergraduates in applied mathematics to graduate students in engineering

Integrated Mathematics Holt McDougal,1998 **Cost and Management** ,1978 Issues for Jan 1961 June 1968 include the Society of Industrial and Cost Accountants of Canada s S I C A news July Aug 1968 the Society s SIA news Sept 1968 Feb 1969 include the Society of Industrial Accountants of Canada s SIA news Mar Apr 1969 Mar Apr 1975 the Society s RIA news May June 1975 Mar Apr 1977 the Society s Nouvelles RIA and May June 1977 July Aug 1985 include the Society of Management Accountants of Canadas Nouvelles RIA the latter three being published in alternate months in the RIA digest

Studia Universitatis Babeş-Bolyai Universitatea "Babeş-Bolyai.",2008 **The Quarterly Journal of Engineering Geology** ,1994 Elementary Differential Equations Werner E. Kohler, Lee W. Johnson,2003 Elementary Differential Equations with Boundary Value Problems integrates the underlying theory the solution procedures and the numerical computational aspects of differential equations in a seamless way that provides students with the necessary framework to understand and solve differential equations Theory is presented as simply as possible with an emphasis on how to use it With an emphasis on linear equations linear and nonlinear equations first order and higher order are treated in separate chapters In developing mathematical models this text guides the student carefully through the underlying physical principles leading to the relevant mathematics Asking students to use common sense intuition and back of the envelope checks as well as challenging them to anticipate and interpret the physical content of the solution encourage critical thinking MARKET Intended for use in introductory course in differential equations

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Table of Contents Mathematical Models With Applications Answers Unit 9

1. Understanding the eBook Mathematical Models With Applications Answers Unit 9
 - The Rise of Digital Reading Mathematical Models With Applications Answers Unit 9
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematical Models With Applications Answers Unit 9
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mathematical Models With Applications Answers Unit 9
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematical Models With Applications Answers Unit 9
 - Personalized Recommendations
 - Mathematical Models With Applications Answers Unit 9 User Reviews and Ratings
 - Mathematical Models With Applications Answers Unit 9 and Bestseller Lists
5. Accessing Mathematical Models With Applications Answers Unit 9 Free and Paid eBooks
 - Mathematical Models With Applications Answers Unit 9 Public Domain eBooks
 - Mathematical Models With Applications Answers Unit 9 eBook Subscription Services
 - Mathematical Models With Applications Answers Unit 9 Budget-Friendly Options

6. Navigating Mathematical Models With Applications Answers Unit 9 eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematical Models With Applications Answers Unit 9 Compatibility with Devices
 - Mathematical Models With Applications Answers Unit 9 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematical Models With Applications Answers Unit 9
 - Highlighting and Note-Taking Mathematical Models With Applications Answers Unit 9
 - Interactive Elements Mathematical Models With Applications Answers Unit 9
8. Staying Engaged with Mathematical Models With Applications Answers Unit 9
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematical Models With Applications Answers Unit 9
9. Balancing eBooks and Physical Books Mathematical Models With Applications Answers Unit 9
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematical Models With Applications Answers Unit 9
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathematical Models With Applications Answers Unit 9
 - Setting Reading Goals Mathematical Models With Applications Answers Unit 9
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematical Models With Applications Answers Unit 9
 - Fact-Checking eBook Content of Mathematical Models With Applications Answers Unit 9
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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