# RELATIONS & FUNCTIONS

#### ANSWERS

#### IN CHAPTER EXERCISE-1

- 1. x = 2 & y = 1
- 2 9
- 3. F.T.T.
- 4.  $A \times A \times A = \{(1,1,1)(1,1,-1), (1,-1,1), (-1,1,1)(-1,-1,1), (-1,1,-1), (-1,1,-1), (-1,-1,-1), (-1,-1,-1)\}$
- A = (a, b), B = (x, y)
- To Venify
- Number of subsets of A×B = 2<sup>B(A×B)</sup> = 2<sup>4</sup> = 16

#### $P(A \times B)$

- S. A = (x, y, z), B = (1, 2)
- 9.  $A = \{-1,0,1\}$ . The remaining elements are (-1,-1),(-1,1),(0,-1),(0,0),(1,-1),(1,0),(1,1).
- Range of R = (3,6,9,12)
   Codomain of R = (1,2,3,...,14)
- R = {(1,6), (2,7), (3,8)}, Domain of R = {1, 2, 3}
   Range of R = (6,7,8), Codomain of R = The set of natural numbers N
- 12. R = {(1,4),(1,6),(2,9),(3,4),(3,6),(5,4),(5,6)}
- 13. Domain of R = (5,6,7) Range of R = (3,4,5)
- 14 (i) R in roster form is as given below:
  R = {(1,1), (1,2), (1,3), (1,4), (1,6), (2,2), (2,4), (3,6), (4,4), (6,6)}
  - (ii) Domain of R = (1,2,3,4,6)
  - (iii) Range of R = (1, 2, 3, 4, 6)
- 15. Domain = (0,1,2,3,4,5), Range = (5,6,7,8,9,10)
- 16. R = {(2,8),(3,27),(5,125),(7,343)}
- 17. 64
- Domain of R = The set of all integers Z

Range of R = The set of all integers Z

#### IN CHAPTER EXERCISE-2

Refer solutions

#### IN CHAPTER EXERCISE-3

- 35. Function, Function, Not a Function.
- 36. f(0) = -5, f(7) = 9, f(-3) = -11
- 37. (i) Domain = x e R , Range = (-00,0]
  - (ii) Domain = x e [-3,3], range = [0,3]
- 33. (i) t(0) = 32 degree Fahrenheit
  - (ii) t(28) = 82.4 degree Fahrenheit
  - (iii) t(-10) = 14 degree Fehrenheit
  - (rv) C = 100 degree Celsius
- 39. (i) Range = (-10, 2)
  - (ii) Range = [2,∞)
  - (iii) Range = R.
- 40. To Prove
- 41. 2.1
- 42 Domain of f is x e R (6,2).
- Domain of f is x e [1,∞), Range of f is [0,∞)
- 44. f(x) = |x-1| is defined for all x ∈ R. Hence domain set of f is x ∈ R.

Also  $|x-1| \ge 0 \Rightarrow f(x) \ge 0$ .

Hence range set of f is [0,00).

- 45. [0.1).
- 46.  $(f+g)(x) = 3x 2, x \in \mathbb{R}$

$$(f-g)(x) = -x + 4, x \in \mathbb{R}$$

$$\left(\frac{\mathbf{f}}{\mathbf{g}}\right)(\mathbf{x}) = \frac{\mathbf{x}+1}{2\mathbf{x}-3}, \mathbf{x} \in \mathbb{R} - \left\{\frac{3}{2}\right\}$$

- 47. a = 2, b = -1
- 48.  $R = \{(a,b) : a,b \in N \& a = b^2\}$

Hence a and b related to each other if a is square of b.

- (i) Felse
- (ii) Felse
- (iii) Felice
- 49. f = {(1,5),(2,9),(3,1),(4,5),(2,11)}
  - (i) f is a relation from A to B
  - (ii) f is not a function from A to B
- Not a function.
- 51. f(n) = {3,5,11,13}

# **Relations And Functions Answers**

**Thomas Griffiths** 

#### **Relations And Functions Answers:**

**Relations and Functions** Marilyn Occhiogrosso, 2010-09-01 This easy to use packet is full of stimulating activities that will give your students a solid introduction to relations and functions A variety of lessons puzzles mazes and practice problems will challenge students to think creatively as they work to build their precalculus skills Each lesson begins with a clear explanation and provides extra review and reinforcement Relations and Functions within and around Language David Lockwood, Michael Cummings, Peter Fries, William Spruiell, 2005-05-01 Currently there is a movement in linguistics towards careful use of corpora in linguistic and text analysis which has involved both written and spoken corpora and those which combine spoken and written text Most text analyses address written texts often literary works but detailed discussion of the language of a single oral text from multiple perspectives has rarely been published This book is among the first to integrate the analysis of the language of spoken and written texts It describes language as a network of functional relations involving a context which is also a network of functional relations. The essays in Part One present several perspectives on the theory of language as functional relations those in Part Two discuss a single oral text using a variety of functional perspectives All of the essays are by linguists interested in oral and written texts who have achieved international recognition in their fields Illustrated in this book are cognitive social construction social praxis and anthropological approaches to the description of text Relations and functions University of Illinois at Urbana-Champaign. Committee on School Mathematics, 1960 High School Mathematics: Relations and functions 1960 University of Illinois (Urbana-Champaign Class 12th Mathematics Chapter-Wise Worksheet ,2019-12-18 campus). Committee on School Mathematics, 1960 This book is as per the guidelines syllabus and marking scheme issued by CBSE for Class X The salient features of this workbook are The questions in the this book have been so designed that complete syllabus is covered This book help students to identify their weak areas and improve them Additional it will help students gain confidence The questions in the book are of varying difficulty level and will help students evaluate their reasoning analysis and understanding of the subject matter

A Tight, Practical Integration of Relations and Functions Harold Boley,1999-09-29 As in other fields in computer science certain objects of study can be synthesized from different basic elements in different ways and with different resulting stabilities In subfields such as artificial intelligence computational logic and programming languages various relational and functional ingredients and techniques have been tried for the synthesis of declarative programs This text considers the notions of relations as found in logic programming or in relational databases and of functions as found in functional programming or in equational languages We study a declarative integration which is tight because it takes place right at the level of these notions and which is still practical because it preserves the advantages of the widely used relational and functional languages PROLOG and LISP The resulting relational and functional language RELFUN is used here for exemplifying all integration principles

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,2019-12-18 This is the best practice book of class 12th mathematics Students can score 90 after practicing this book If students have any query they can immediately email at aakashsingh12111 gmail com *Problem Solving with Computers* Greg W. Scragg, 1997 An introduction to computer science focusing on the methods of problem solving rather than on the hardware or software tools employed as aids for problem solving Coverage includes algorithms hypermedia and telecomputing Includes definitions and exercises throughout chapters and uses feminine p Engineering Mathematics by *Example* Robert Sobot, 2025-05-08 This textbook is a complete self sufficient self study tutorial type source of mathematical problems It serves as a primary source for practicing and developing mathematical skills and techniques that will be essential in future studies and engineering practice Rigor and mathematical formalism is drastically reduced while the main focus is on developing practical skills and techniques for solving mathematical problems given in forms typically found in engineering and science These practical techniques are split into three separate books the topics of algebra complex algebra and linear algebra Vol I calculus of single and multiple argument functions Vol II continues and discrete Convolution and Fourier integrals sums of typical functions used in signal processing and Laplace transform examples Vol III Problems and Exercises for High School (Sets, Sets Operations, Relations, Functions, Aspects of Combinatorics) Ion Goian, Raisa Grigor, Vasile Marin, Florentin Smarandache, 2015-07-01 In this book you will find algebra exercises and problems grouped by chapters intended for higher grades in high schools or middle schools of general education Its purpose is to facilitate training in mathematics for students in all high school categories but can be equally helpful in a standalone workout The book can also be used as an extracurricular source as the reader shall find enclosed important theorems and formulas standard definitions and notions that are not always included in school textbooks The SAGE Handbook of **Public Relations** Robert Lawrence Heath, 2010 Reflecting advances in theory research and application in the discipline since the publication of the Handbook of Public Relations in 2001 this new volume is global in scope and unmatched in its coverage of both academic research and professional best practice It presents major theories in the words of the leading advocates for each theory positions public relations as a positive force to help make society more fully functional and challenges academics and practitioners to identify best practices that can inform the work of those in the profession

Public Relations Writing Donald Treadwell, Jill B. Treadwell, 2005-04-19 Public Relations Writing is currently the best public relations writing text available The authors offer a no nonsense approach to teaching public relations writing The text has great explanations of how to write an assortment of public relations documents and includes examples of each Treadwell and Treadwell also spend time dealing with the aesthetics of public relations or how documents should look color paper format etc as well as how they should be written Of special note are the excellent discussions of communication theory that many of the other writing texts lack Michael L Kent Montclair State University This book integrates experiential exercises useful to understanding writing from an organizational perspective The assignments require a student to become

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Intercultural Public Relations Lan Ni, Qi Wang, Bey-Ling Sha, 2018-06-12 Intercultural Public Relations Theories for Managing Relationships and Conflicts with Strategic Publics develops a coherent framework to unify the theories of public relations and intercultural communication and within the framework examines empirical studies of intercultural interactions. This book follows an intercultural approach which considers how individuals and entities with dissimilar cultural identities interact and negotiate to solve problems and reach mutually satisfying outcomes. This work provides a theory driven empirically supported framework that will inform and guide the research and practices of intercultural public relations. Furthermore it provides numerous levels of analysis and incorporates the use and challenges of social media. The book examines theories and issues in three integrated processes Identification of publics. Relationship management Conflict resolution. These areas represent the most critical functions that public relations contributes to organizational effectiveness scanning the environment identifying strategic publics and building long term quality relationships with these publics to reduce costs gain support and empower the publics themselves. In doing so the book adopts simultaneously public centered and organization centered perspectives. This unique work will serve as an essential reference for students practitioners and

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Mathematics and Methodology for Economics Wolfgang Eichhorn, Winfried Gleißner, 2016-02-11 This book about mathematics and methodology for economics is the result of the lifelong experience of the authors It is written for university students as well as for students of applied sciences This self contained book does not assume any previous knowledge of high school mathematics and helps understanding the basics of economic theory building Starting from set theory it thoroughly discusses linear and non linear functions differential equations difference equations and all necessary theoretical constructs for building sound economic models The authors also present a solid introduction to linear optimisation and game theory using production systems A detailed discussion on market equilibrium in particular on Nash Equilibrium and on non linear optimisation is also provided Throughout the book the student is well supplied with numerous examples some 2000 problems

and their solutions to apply the knowledge to economic theories and models **Linear mathematics** Edley Wainright Teaching to the Math Common Core State Standards F. D. Rivera, 2015-06-17 This is a methods book for Martin.1969 preservice middle level majors and beginning middle school teachers It takes a very practical approach to learning to teach middle school mathematics in an emerging Age of the Common Core State Standards The Common Core State Standards in Mathematics CCSSM is not meant to be the official mathematics curriculum it was purposefully developed primarily to provide clear learning expectations of mathematics content that are appropriate at every grade level and to help prepare all students to be ready for college and the workplace A quick glance at the Table of Contents in this book indicates a serious engagement with the recommended mathematics underlying the Grade 5 through Grade 8 and traditional pathway Algebra I portions of the CCSSM first with issues in content practice assessment learning teaching and classroom management pursued next and in that order In this book we explore what it means to teach to the CCSSM within an alignment mindset involving content practice learning teaching and assessment The Common Core state content standards which pertain to mathematical knowledge skills and applications have been carefully crafted so that they are teachable learnable coherent fewer clearer and higher The practice standards which refer to institutionally valued mathematical actions processes and habits have been conceptualized in ways that will hopefully encourage all middle school students to engage with the content standards more deeply than merely acquiring mathematical knowledge by rote and imitation Thus in the CCSSM proficiency in content alone is not sufficient and so does practice without content which is limited Content and practice are both equally important and thus must come together in teaching learning and assessment in order to support authentic mathematical understanding This blended multisourced text is a getting smart book It prepares preservice middle level majors and beginning middle school teachers to work within the realities of accountable pedagogy and to develop a proactive disposition that is capable of supporting all middle school students in order for them to experience growth in mathematical understanding that is necessary for high school and beyond including future careers *State board examination questions* & answers of the United States and Canada Medical record, 1912

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