

CHAPTER 3 - FUNCTIONS ASSIGNMENT

Question 1. Let $m \neq 0$ and b be real numbers and consider the function $f : \mathbb{R} \rightarrow \mathbb{R}$ given by $f(x) = mx + b$.

- (a) Prove that f is a bijection.
- (b) Since f is a bijection, it is invertible. Find its inverse f^{-1} , and show it is an inverse by demonstrating that

$$f^{-1}(f(x)) = x.$$

Solution 1.

Discussion 1(a):

What we want: We want to show that f is an injection as well as a surjection. This fact will ultimately prove that it is a bijection.

What we will do: To prove that f is an injection we will show that if $f(x) = f(y)$. To prove that f is a surjection, we will show that for every $t \in \mathbb{R}$, there exists some $s \in \mathbb{R}$ such that $f(s) = ms + b = t$.

Proof 1(a):

If $f(x) = f(y)$ then

$$mx + b = my + b$$

where $m \neq 0$. Then, the b s cancel out:

$$mx = my$$

From here, ms can also be canceled, leaving us with

$$x = y$$

If whenever $f(x) = f(y)$, then $x = y$. This shows that f is injective.

To show that $f : \mathbb{R} \rightarrow \mathbb{R}$ is a surjection, we can take an arbitrary element in the co-domain $t \in \mathbb{R}$ and find a pre-image in the domain $s \in \mathbb{R}$. Thus, s must satisfy the equation

$$f(s) = ms + b = t.$$

If we let

$$s = \frac{t - b}{m}$$

Algebra Functions Assignment Id Answers

Victor L. Winter, Sourav Bhattacharya



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Algebraic Methods in Semantics M. Nivat, John C. Reynolds, 1985 This book which contains contributions from leading researchers in France USA and Great Britain gives detailed accounts of a variety of methods for describing the semantics of programming languages i e for attaching to programs mathematical objects that encompass their meaning Consideration is given to both denotational semantics where the meaning of a program is regarded as a function from inputs to outputs and operational semantics where the meaning includes the sequence of states or terms generated internally during the computation The major problems considered include equivalence relations between operational and denotational semantics rules for obtaining optimal computations especially for nondeterministic programs equivalence of programs meaning preserving transformations of programs and program proving by assertions Such problems are discussed for a variety of programming languages and formalisms and a wealth of mathematical tools is described The Logic Programming Paradigm Krzysztof R. Apt, Victor W. Marek, Mirek Truszczyński, David S. Warren, 2012-12-06 Logic Programming was founded 25 years ago This exciting new text reveals both the evolution of this programming paradigm since its inception and the impressively broad scope of current research in Logic Programming The contributions to the book deal with both theoretical and practical issues They address such diverse topics as computational molecular biology machine learning mobile computing multi agent systems planning numerical computing and dynamical systems database systems an alternative to the formulas as types approach program semantics and analysis and natural language processing The contributors are all leading world experts in Logic Programming and their contributions were all invited and refereed

Compiler Construction Peter A. Fritzson, 1994-03-23 The International Conference on Compiler Construction provides a forum for presentation and discussion of recent developments in the area of compiler construction language implementation and language design Its scope ranges from compilation methods and tools to implementation techniques for specific requirements on languages and target architectures It also includes language design and programming environment issues which are related to language translation There is an emphasis on practical and efficient techniques This volume contains the papers selected for presentation at CC 94 the fifth International Conference on Compiler Construction held in Edinburgh U K in April 1994 , Executive Function and Dysfunction Scott J. Hunter, Elizabeth P. Sparrow, 2012-10-04 Provides a summary of executive function and dysfunction for practitioners researchers and educators including lifespan development assessment impact and interventions High Integrity Software Victor L. Winter, Sourav Bhattacharya, 2012-12-06 The second half of the twentieth century has witnessed remarkable advances in technology The unquestioned leader in this race has been computer technology Even the most modest personal computers today have computing power that would have astounded the leading technologists a few decades earlier and what's more similar advances are predicted for many years to come Looking towards the future it has been conservatively estimated that in 2047 computers could easily be 100 000

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technology Televisions microwave ovens and even electric shavers contain software And what's more the use of computer
technology has been estimated to double every two years Gibbs In order to keep up with the growing technology demands
and to fully utilize the ever more powerful computing platforms software projects have become more and more ambitious
This has led to software systems becoming dominant forces in system functionality Further more the ambition to realize
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software controls many critical functions in 1 airplanes 2 electronic commerce 3 space bound systems 4 medical systems and
5 various transportation systems such as automobiles and trains

Frontiers of Combining Systems Andreas Herzig, Andrei Popescu, 2019-08-22 This book constitutes the proceedings of the 12th International Symposium on Frontiers of Combining Systems FroCoS 2019 held in London UK in September 2019 colocated with the 28th International Conference on Automated Reasoning with Analytic Tableaux and Related Methods TABLEUX 2019 The 20 papers presented were carefully reviewed and selected from 30 submissions They present research on the development of techniques and methods for the combination and integration of formal systems their modularization and analysis The papers are organized in the following topical sections automated theorem proving and model building combinations of systems constraint solving description logics interactive theorem proving modal and epistemic logics and rewriting and unification

Computer-Assisted Language Learning: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2019-01-04 In a diverse society the ability to cross communication barriers is critical to the success of any individual personally professionally and academically With the constant acceleration of course programs and technology educators are continually being challenged to develop and implement creative methods for engaging English speaking and non English speaking learners Computer Assisted Language Learning Concepts Methodologies Tools and Applications is a vital reference source that examines the relationship between language education and technology and the potential for curriculum enhancements through the use of mobile technologies flipped instruction and language learning software This multi volume book is geared toward educators researchers academics linguists and upper level students seeking relevant research on the improvement of language education through the use of technology

Basic Algebraic Topology Anant R. Shastri, 2016-02-03 Building on rudimentary knowledge of real analysis point set topology and basic algebra Basic Algebraic Topology provides plenty of material for a two semester course in algebraic topology The book first introduces the necessary fundamental concepts such as relative homotopy fibrations and cofibrations category theory cell complexes and si

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Karim,2010-01-30 Technological Developments in Education and Automation includes set of rigorously reviewed world class manuscripts dealing with the increasing role of technology in daily lives including education and industrial automation Technological Developments in Education and Automation contains papers presented at the International Conference on Industrial Electronics Technology Automation and the International Conference on Engineering Education Instructional Technology Assessment and E learning which were part of the International Joint Conferences on Computer Information and Systems Sciences and Engineering

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