

Function Operations and Composition of Functions Guided NotesFunction Operations

Let f and g be any two functions. You can add, subtract, multiply or divide $f(x)$ and $g(x)$ to form a new function.

The domain of new function consist of the x -values that are in the domains of both $f(x)$ and $g(x)$. When new function involves division, the domain does not include x -values for which the denominator is equal to zero.

Operation	Definition
Addition	$(f + g)(x) = f(x) + g(x)$
Subtraction	$(f - g)(x) = f(x) - g(x)$
Multiplication	$(f \cdot g)(x) = f(x) \cdot g(x)$
Division	$(f \div g)(x) = \frac{f(x)}{g(x)}$ where $g(x) \neq 0$

Sample Problem 1: Find $(f + g)(x)$, $(f - g)(x)$, $(f \cdot g)(x)$, and $(\frac{f}{g})(x)$ for each $f(x)$ and $g(x)$. Determine the domain of each new function.

a. $f(x) = x^2 + 2x - 1$
 $g(x) = x - 5$

$$(f + g)(x) = (x^2 + 2x - 1) + (x - 5)$$

$$(f + g)(x) = x^2 + 3x - 6$$

$$D_{f+g} = (-\infty, \infty)$$

$$(f - g)(x) = (x^2 + 2x - 1) - (x - 5)$$

$$(f - g)(x) = x^2 + 2x - 1 - x + 5$$

$$(f - g)(x) = x^2 + x + 4$$

$$D_{f-g} = (-\infty, \infty)$$

$$(f \cdot g)(x) = (x^2 + 2x - 1) \cdot (x - 5)$$

$$(f \cdot g)(x) = x^3 - 3x^2 - 11x + 5$$

$$D_{f \cdot g} = (-\infty, \infty)$$

$$\left(\frac{f}{g}\right)(x) = \frac{x^2 + 2x - 1}{x - 5}$$

$$D_{\frac{f}{g}} = (-\infty, 5) \cup (5, \infty)$$

b. $f(x) = x^2 - 81$
 $g(x) = x + 9$

$$(f + g)(x) = (x^2 - 81) + (x + 9)$$

$$(f + g)(x) = x^2 + x - 72$$

$$D_{f+g} = (-\infty, \infty)$$

$$(f - g)(x) = (x^2 - 81) - (x + 9)$$

$$(f - g)(x) = x^2 - 81 - x - 9$$

$$(f - g)(x) = x^2 - x - 90$$

$$D_{f-g} = (-\infty, \infty)$$

$$(f \cdot g)(x) = (x^2 - 81) \cdot (x + 9)$$

$$(f \cdot g)(x) = x^3 + 9x^2 - 81x - 729$$

$$D_{f \cdot g} = (-\infty, \infty)$$

$$\left(\frac{f}{g}\right)(x) = \frac{x^2 - 81}{x + 9} = \frac{(x + 9)(x - 9)}{x + 9} = x - 9$$

$$D_{\frac{f}{g}} = (-\infty, -9) \cup (-9, \infty)$$

If the function can be simplified, determine the domain before simplifying!

1 6 Function Operations And Composition Of Functions

Percy Alexander MacMahon



1 6 Function Operations And Composition Of Functions:

Linear Algebra Harvey E. Rose, 2002-10-01 In algebra an entity is called linear if it can be expressed in terms of addition and multiplication by a scalar a linear expression is a sum of scalar multiples of the entities under consideration Also an operation is called linear if it preserves addition and multiplication by a scalar For example if A and B are 2×2 real matrices v is a row vector in the real plane and c is a real number then $v(A+B) = vA + vB$ and $(cv)A = c(vA)$ that is the process of applying a matrix to a vector is linear Linear Algebra is the study of properties and systems which preserve these two operations and the following pages present the basic theory and results of this important branch of pure mathematics There are many books on linear algebra in the bookshops and libraries of the world so why write another A number of excellent texts were written about fifty years ago see the bibliography in the intervening period the style of mathematical presentation has changed Also some of the more modern texts have concentrated on applications both inside and outside mathematics There is nothing wrong with this approach these books serve a very useful purpose But linear algebra contains some fine pure mathematics and so a modern text taking the pure mathematician's viewpoint was thought to be worthwhile *CliffsStudySolver: Algebra II* Mary Jane Sterling, 2012-10-11 The CliffsStudySolver workbooks combine 20 percent review material with 80 percent practice problems and the answers to help make your lessons stick CliffsStudySolver Algebra II is for students who want to reinforce their knowledge with a learn by doing approach Inside you'll get the practice you need to factor and solve equations with handy tools such as Straightforward concise reviews of every topic Practice problems in every chapter with explanations and solutions A diagnostic pretest to assess your current skills A full length exam that adapts to your skill level Beginning with the rules for exponents and operations involving polynomials this workbook ventures into quadratic equations function transformations rational root theorem and more You'll explore factoring by grouping graphing complex numbers and hyperbola plus details about Solving exponential and logarithmic equations Using a graphing calculator to graph lines and polynomials Dealing with story problems using systems of equations Performing scalar and matrix multiplication Factoring binomials trinomials and other polynomials Practice makes perfect and whether you're taking lessons or teaching yourself CliffsStudySolver guides can help you make the grade *Integration in Finite Terms: Fundamental Sources* Clemens G. Raab, Michael F. Singer, 2022-06-06 This volume gives an up to date review of the subject Integration in Finite Terms The book collects four significant texts together with an extensive bibliography and commentaries discussing these works and their impact These texts either out of print or never published before are fundamental to the subject of the book Applications in combinatorics and physics have aroused a renewed interest in this well developed area devoted to finding solutions of differential equations and in particular antiderivatives expressible in terms of classes of elementary and special functions

Additional Skill and Drill Manual for College Algebra Margaret L. Lial, John Hornsby, David I. Schneider, 2007-12-27 By Cathy Ferrer Valencia Community College Provides additional practice and test preparation for students *Functions of*

Composition Vito Volterra, 1920 *College Algebra* Margaret L. Lial, 2005 **Brief Calculus for Business, Social, and Life Sciences** Bill Armstrong, Don Davis, 2012-12-28 Intended for a one term or two term course for undergraduate students majoring in economics business social or behavioral sciences Brief Calculus for the Business Social and Life Sciences presents mathematics in a clear and accessible language that students can read and understand The clear easy to read conversational writing style will have students feeling as though they are engaging in a one on one tutorial session Rich in pedagogical features this Third Edition opens each chapter and section with clearly defined learning objectives to help students focus on understanding the fundamental concepts that lie ahead Within each chapter are flashbacks of selected examples from an earlier chapter that help to reinforce the necessary problem solving skills as well as introduce new topics employing familiar applications engaging Section Projects to promote hands on application of the newly learned problem solving techniques and interactive Try It Yourself example problems that help students develop good study habits Every chapter concludes with three components a Section by Section Study Guide that reviews the theorems definitions and properties with the page number where these items were first introduced as well as a review of the chapter learning objectives and additional exercises a Chapter Practice Test for students to test their acquisition of the material and a Chapter Project that uses real world data to explore and extend the concepts discussed in the chapter The clear and accessible writing style numerous and varied engaging exercises and proven pedagogical features make learning and understanding calculus achievable for students of a variety of disciplines **Elementary Functions** William Wooton, Irving Drooyan, 1975

The Rice Institute Pamphlet , 1920 Combinatory Analysis: Symmetric functions ; Generalization of the theory of Section I ; Permutations ; Theory of the compositions of numbers ; Distributions upon a chess board, to which is prefixed a chapter on perfect partitions ; The enumeration of the partitions of multipartite numbers Percy Alexander MacMahon, 1915

Intermediate Algebra with Nolting Seventh Edition, Custom Publication Aufmann, 2005-03 The Essence of Discrete Mathematics Neville Dean, 1997 Presenting a gentle introduction to all the basics of discrete mathematics this book introduces sets propositional logic predicate logic and mathematical models It discusses relations including homogeneous relations *Rice Institute Pamphlet* , 1920 Topological Galois Theory Askold Khovanskii, 2014-10-10 This book provides a detailed and largely self contained description of various classical and new results on solvability and unsolvability of equations in explicit form In particular it offers a complete exposition of the relatively new area of topological Galois theory initiated by the author Applications of Galois theory to solvability of algebraic equations by radicals basics of Picard Vessiot theory and Liouville's results on the class of functions representable by quadratures are also discussed A unique feature of this book is that recent results are presented in the same elementary manner as classical Galois theory which will make the book useful and interesting to readers with varied backgrounds in mathematics from undergraduate students to researchers In this English language edition extra material has been added Appendices A D the last two of which were written jointly with

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