

2.2 Linear Equations

- Learn about equations and recognize a linear equation
- Solve linear equations symbolically
- Solve linear equations graphically
- Solve linear equations numerically
- Solve problems involving percentages
- Solve for a variable
- Apply problem-solving strategies

Equations

An equation is a statement that two mathematical expressions are equal. Equations always contain an equals sign.

To solve an equation means to find all values for the variable that make the equation a true statement. Such values are called solutions. The set of all solutions is the solution set. For example, the solutions to the equation $x^2 - 1 = 0$ are 1 or -1, written as ± 1 . Either value for x satisfies the equation. The solution set is $\{-1, 1\}$. Two equations are equivalent if they have the same solution set. For example, the equations $x + 2 = 5$ and $x = 3$ are equivalent.

If an equation has no solutions, then its solution set is empty and the equation is called a contradiction. The equation $x + 2 = x$ has no solutions and is a contradiction. However, if every (meaningful) value for the variable is a solution, then the equation is an identity. The equation $x + x = 2x$ is an identity because every value for x makes the equation true. Any equation that is satisfied by some but not all values of the variable is a conditional equation. The equation $x^2 - 1 = 0$ is a conditional equation. Only the values -1 and 1, when substituted for x , make this equation a true statement.

Like functions, equations can be either *linear* or *nonlinear*. A linear equation is one of the simplest types of equations.

Linear Equations in One Variable

A linear equation in one variable is an equation that can be written in the form

$$ax + b = 0$$

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Breadth in Contemporary Topology David T. Gay, Weiwei Wu, 2019-06-27 This volume contains the proceedings of the 2017 Georgia International Topology Conference held from May 22 June 2 2017 at the University of Georgia Athens Georgia The papers contained in this volume cover topics ranging from symplectic topology to classical knot theory to topology of 3 and 4 dimensional manifolds to geometric group theory Several papers focus on open problems while other papers present new and insightful proofs of classical results Taken as a whole this volume captures the spirit of the conference both in terms of public lectures and informal conversations and presents a sampling of some of the great new ideas generated in topology over the preceding eight years Electronic Signals and Systems Muhammad Nasir Khan, Syed K. Hasnain, Mohsin Jamil, Ali

Imran, 2022-09-01 The subject of Signals and Systems is enormously complex involving many concepts such as signals mathematics and filter design that are woven together in an intricate manner To cope with this scope and complexity many Signals and Systems texts are often organized around the numerical examples of a system With such organization students can see through the complexity of Signals and Systems they can learn about the distinct concepts and protocols in one part of the communication system while seeing the big picture of how all parts fit together From a pedagogical perspective our personal experience has been that such approach indeed works well Based on the Authors extensive experience of teaching and research the book is written with such a reader in mind The Book is intended for a course on signals systems at the senior undergraduate level and above The authors consider all the requirements and tools used in analysis and design of discrete time systems for filter design and signal processing Key features of the International Edition The extensive use of MATLAB based examples to illustrate how to solve the signals systems problems The textbook includes a wealth of problems with solutions Worked out examples have been included to explain new and difficult concepts and to expose the reader to real life signal processing problems The inclusion of FIR and IIR filter design further enriches the contents of the book

Mathematics Magazine ,1996 Digital Communication John R. Barry, Edward A. Lee, David G. Messerschmitt, 2012-12-06 This book concerns digital communication Specifically we treat the transport of bit streams from one geographical location to another over various physical media such as wire pairs coaxial cable optical fiber and radio We also treat multiple access channels where there are potentially multiple transmitters and receivers sharing a common medium Ten years have elapsed since the Second Edition and there have been remarkable advances in wireless communication including cellular telephony and wireless local area networks This Third Edition expands treatment of communication theories underlying wireless and especially advanced techniques involving multiple antennas which turn the traditional single input single output channel into a multiple input multiple output MIMO channel This is more than a trivial advance as it stimulates many advanced techniques such as adaptive antennas and coding techniques that take advantage of space as well as time This is reflected in the addition of two new chapters one on the theory of MIMO channels and the other

on diversity techniques for mitigating fading The field of error control coding has similarly undergone tremendous changes in the past decade brought on by the invention of turbo codes in 1993 and the subsequent rediscovery of Gallager's low density parity check codes Our treatment of error control coding has been rewritten to reflect the current state of the art Other materials have been reorganized and reworked and three chapters from the previous edition have been moved to the book's Web site to make room

Mathematical Systems Theory I Diederich Hinrichsen, Anthony J. Pritchard, 2011-08-03 This book presents the mathematical foundations of systems theory in a self contained comprehensive detailed and mathematically rigorous way It is devoted to the analysis of dynamical systems and combines features of a detailed introductory textbook with that of a reference source The book contains many examples and figures illustrating the text which help to bring out the intuitive ideas behind the mathematical constructions

Digital Signal Processing with Examples in MATLAB Samuel D. Stearns, Donald R. Hush, 2016-04-19 Based on fundamental principles from mathematics linear systems and signal analysis digital signal processing DSP algorithms are useful for extracting information from signals collected all around us Combined with today's powerful computing capabilities they can be used in a wide range of application areas including engineering communication

Digital Audio Processing Fundamentals Aurelio Uncini, 2023-02-02 The book provides an accessible overview of audio signal processing and enables readers to design and write algorithms for the analysis synthesis and manipulation of musical and acoustic signals for any programming language It provides an overview of highly interdisciplinary topics developed in a simple but rigorous way and described in a unified and formal language which focuses on determining discrete time audio signal models Readers can find within a self contained volume basic topics ranging over different disciplines mechanical acoustics physical systems and linear and nonlinear models with lumped and distributed parameters described and developed with the same level of mathematical formalism easy to understand and oriented to the development of algorithms Topics include the fundamental concepts of acoustic mechanics and vibration the design of filters and equalizers for sound signals the so called audio effects abstract methods of sound synthesis and finally methods of synthesis by physical modeling

U.S. Government Research Reports, 1962

Essential Laboratory Mathematics Catherine W. Johnson, Daniel L. Timmons, Pamela E. Hall, 2009-12-03 This hands on manual with pedagogical features that draw the learner into the content offers clear and complete coverage of the mathematical topics most often used in today's clinical and medical laboratories Furthermore it provides a solid foundation for subsequent courses in the laboratory sciences The first two chapters present a review of basic mathematical concepts The remainder of the book provides students with a realistic means to build on previously learned concepts both mathematical and scientific to refine their mathematical skills and to gauge their mastery of those skills Outstanding features Each chapter opens with an outline objectives and key terms Key terms highlighted within the text are listed and defined in the glossary Margin problems and practice problem sets provide the chance to gain immediate proficiency Laboratory exercises and review problems allow students to apply what

they've learned and assess their understanding and progress. A special calculator icon signals explanations of calculator use for a particular mathematical function. Study hints, Keys to Success, offer practical suggestions and guidance for maximizing achievement. The workbook design enables users to solve problems and take notes directly on the pages. *Scientific and Technical Aerospace Reports*, 1989

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