

Discrete MATH

Logic of Statements

Statements & Logical Connectives

A **statement** is a sentence that is either true or false, but not both.

EC: This moon orbits this Earth is a true statement.

EC: One plus one equals three is a false statement.

A **compound statement** is a statement that is made up of one or more simple statements using **logical connectives**.

For statements p and q , the table summarizes the logical connectives that can be used to create compound statements.

Logical Connectives		
Expression	How it is read	Type of connective
$\neg p$	"not p "	negation
$p \wedge q$	" p and q "	conjunction
$p \vee q$	" p or q "	disjunction

Compound statements may contain multiple logical connectives. For compound statements that contain a negation and another logical connective, the negation ($\neg$) is performed first.

EC: $\neg p \vee q$ is equivalent to $[\neg p] \vee q$.

EC: $\neg p \wedge q$ is equivalent to $[\neg p] \wedge [q]$.

You can express compound statements symbolically using $\neg$, $\wedge$, and $\vee$.

EC: Let p represent the statement "It is cloudy." Let q represent the statement "It is raining." Represent each compound statement below symbolically.

It is not raining. $\neg q$

It is cloudy and it is raining. $p \wedge q$

It is cloudy but it is not raining. $p \wedge \neg q$ or $p \wedge [\neg q]$

It is not cloudy and it is not raining. $\neg p \wedge \neg q$ or $[\neg p] \wedge [\neg q]$

Truth Tables

A **statement** is either true or false and has a well-defined **truth value**. Compound statements also have well-defined truth values that are determined by the truth values of the simple statements that comprise them. **Truth tables** can be used to show the truth value of a compound statement based on the truth values of its components.

EC: Negation of a statement

For a statement p , the negation of p is written $\neg p$ and means "not p ." The truth value of $\neg p$ is the opposite of the truth value of p . If p is true, then $\neg p$ is false. If p is false, then $\neg p$ is true.

p	$\neg p$
T	F
F	T

EC: Conjunction of a statement

For statements p and q , the **conjunction** of p and q is written $p \wedge q$ and means " p and q ." The truth value of a conjunction is true when, and only when, both p and q are true. If either p or q is false, or if both p and q are false, the conjunction is false.

p	q	$p \wedge q$
T	T	T
T	F	F
F	T	F
F	F	F

EC: Disjunction of a statement

For statements p and q , the **disjunction** of p and q is written $p \vee q$ and means " p or q ." The truth value of a disjunction is true when at least one of p or q is true. If both p and q are false, then the disjunction is false.

p	q	$p \vee q$
T	T	T
T	F	T
F	T	T
F	F	F

Truth tables can also be used to determine the truth values of more complicated compound statements.

Logic, Graphs & Trees, Sets, Probability

EC: Construct a truth table for the compound statement $\neg p \vee (q \wedge r)$.

p	q	r	$\neg p$	$q \wedge r$	$\neg p \vee (q \wedge r)$
T	T	T	F	T	T
T	T	F	F	F	F
T	F	T	F	F	F
T	F	F	F	F	F
F	T	T	T	T	T
F	T	F	T	F	T
F	F	T	T	F	T
F	F	F	T	F	T

Logical Equivalence & De Morgan's Laws

Two statements are **logically equivalent** if and only if they have identical truth values. The symbol $\equiv$ is used to denote logical equivalence.

Steps to Determine Logical Equivalence

For compound statements P and Q :

1. Construct a truth table for P .
2. Construct a truth table for Q using the same statement variables as step 1.
3. Compare the truth values of the tables. If the truth values in each row are the same, the statements are logically equivalent. If the tables have a different truth value in any row, the statements are not logically equivalent.

De Morgan's laws are used to determine the negation of a conjunction and the negation of a disjunction.

The negation of a conjunction is logically equivalent to a disjunction in which each component is negated.

$\neg(p \wedge q) \equiv \neg p \vee \neg q$

EC: Find the negation of the statement *Justine is a sophomore and has blonde hair*.

The negation of this statement is *Justine is not a sophomore or does not have blonde hair*.

The negation of a disjunction is logically equivalent to a conjunction in which each component is negated.

$\neg(p \vee q) \equiv \neg p \wedge \neg q$

EC: Find the negation of the statement *Luis was sick on Monday or he missed the school bus*.

The negation of this statement is *Luis was not sick on Monday and he did not miss the school bus*.

As with other compound statements, a truth table can be used to demonstrate the logical equivalence of De Morgan's laws.

EC: Construct a truth table to show that $\neg(p \vee q) \equiv \neg p \wedge \neg q$.

p	q	$\neg p$	$\neg q$	$p \vee q$	$\neg(p \vee q)$	$\neg p \wedge \neg q$
T	T	F	F	T	F	F
T	F	F	T	T	F	F
F	T	T	F	T	F	F
F	F	T	T	F	T	T

Conditional Statements

A **conditional statement** is an if-then statement of the form "if p , then q ," where p is the **hypothesis** and q is the **conclusion**. This is symbolized by $p \rightarrow q$ or read as " p implies q ."

EC: If 12 is divided by 4, then the quotient is 3.

If Nathan makes the soccer team, then he will play fullback.

If Christy does not earn at least a B on her final, then she will earn a C for the class.

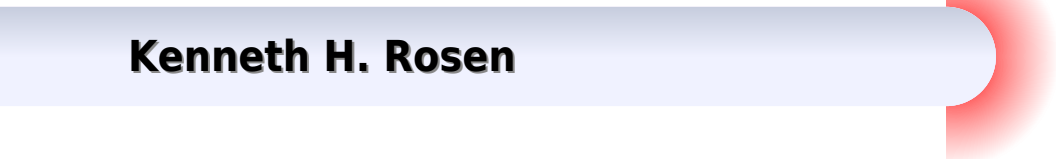
A conditional statement is false when, and only when, the hypothesis p is true and the conclusion q is false. Otherwise, the conditional statement is true.

p	q	$p \rightarrow q$
T	T	T
T	F	F
F	T	T
F	F	T

Truth tables can be used to analyze compound conditional statements.

Guide For Discrete Mathematics

Kenneth H. Rosen



Guide For Discrete Mathematics:

Guide to Discrete Mathematics Gerard O'Regan, 2016-09-16 This stimulating textbook presents a broad and accessible guide to the fundamentals of discrete mathematics highlighting how the techniques may be applied to various exciting areas in computing The text is designed to motivate and inspire the reader encouraging further study in this important skill Features provides an introduction to the building blocks of discrete mathematics including sets relations and functions describes the basics of number theory the techniques of induction and recursion and the applications of mathematical sequences series permutations and combinations presents the essentials of algebra explains the fundamentals of automata theory matrices graph theory cryptography coding theory language theory and the concepts of computability and decidability reviews the history of logic discussing propositional and predicate logic as well as advanced topics examines the field of software engineering describing formal methods investigates probability and statistics

A Beginner's Guide to Discrete Mathematics W.D. Wallis, 2011-10-07 Wallis's book on discrete mathematics is a resource for an introductory course in a subject fundamental to both mathematics and computer science a course that is expected not only to cover certain specific topics but also to introduce students to important modes of thought specific to each discipline Lower division undergraduates through graduate students Choice reviews Review of the First Edition Very appropriately entitled as a beginner's guide this textbook presents itself as the first exposure to discrete mathematics and rigorous proof for the mathematics or computer science student Zentralblatt Math Review of the First Edition This second edition of A Beginner's Guide to Discrete Mathematics presents a detailed guide to discrete mathematics and its relationship to other mathematical subjects including set theory probability cryptography graph theory and number theory This textbook has a distinctly applied orientation and explores a variety of applications Key Features of the second edition Includes a new chapter on the theory of voting as well as numerous new examples and exercises throughout the book Introduces functions vectors matrices number systems scientific notations and the representation of numbers in computers Provides examples which then lead into easy practice problems throughout the text and full exercise at the end of each chapter Full solutions for practice problems are provided at the end of the book This text is intended for undergraduates in mathematics and computer science however featured special topics and applications may also interest graduate students

Discrete Mathematics and Graph Theory K. Erciyes, 2021-01-28 This textbook can serve as a comprehensive manual of discrete mathematics and graph theory for non Computer Science majors as a reference and study aid for professionals and researchers who have not taken any discrete math course before It can also be used as a reference book for a course on Discrete Mathematics in Computer Science or Mathematics curricula The study of discrete mathematics is one of the first courses on curricula in various disciplines such as Computer Science Mathematics and Engineering education practices Graphs are key data structures used to represent networks chemical structures games etc and are increasingly used more in various applications such as bioinformatics and the Internet Graph

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A Beginner's Guide to Discrete Mathematics W. D. Wallis,2014-01-15 A Beginner's Guide to Discrete Mathematics ,2014 **A Comprehensive Guide to Discrete Mathematics** Christopher Rhoades,2025-08-25 Discrete mathematics is the study of mathematical structures that are fundamentally non continuous including concepts such as integers logical statements and graphs Number theory logic probability graph theory algebra set theory information theory combinatorics geometry game theory and topology among others are the key topics explored under this discipline The topics included in this book on discrete mathematics are of utmost significance and bound to provide incredible insights to readers It explores all the important aspects of the discipline in the present day scenario Coherent flow of topics student friendly language and extensive use of examples make this book an invaluable source of knowledge

Student's Solutions Guide for Discrete Mathematics and Its Applications Kenneth H. Rosen,2018-07-23 Rosen s Discrete Mathematics and its Applications presents a precise relevant comprehensive approach to mathematical concepts This world renowned best selling text was written to accommodate the needs across a variety of majors and departments including mathematics computer science and engineering As the market leader the book is highly flexible comprehensive and a proven pedagogical teaching tool for instructors Digital is becoming increasingly important and gaining popularity crowning Connect as the digital leader for this discipline McGraw Hill Education s Connect available as an optional add on item Connect is the only integrated learning system that empowers students by continuously adapting to deliver precisely what they need when they need it how they need it so that class time is more effective Connect allows the professor to assign homework quizzes and tests easily and automatically grades and records the scores of the student s work Problems are randomized to prevent sharing of answers and may also have a multi step solution which helps move the students learning along if they experience difficulty

Student Solutions Guide for Discrete Mathematics and Its Applications Kenneth H. Rosen,2002-09-01 This text is designed for students preparing for future coursework in areas such as math computer science and engineering Discrete Mathematics and Its Applications has become a best seller largely due to how effectively it addresses the main portion of the discrete market which is typically characterized as the mid to upper level in rigor The strength of Rosen s approach has been the effective balance of theory with relevant applications as well as the overall comprehensive nature of the topic coverage *Student's Solutions Guide for Discrete Mathematics and Its Applications* Jerrold W. Grossman, Professor,Kenneth H. Rosen,2011-07-26 Answers to ODD numbered problems are in the back of the book WORKED OUT SOLUTIONS for these ODD numbered problems are in the PRINTED Student s Solutions Guide 0 07

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Student Solutions Guide for Discrete Mathematics and Its Applications Kenneth H. Rosen, 1995 This text provides a balanced survey of major sub fields within discrete mathematics. It demonstrates the utility of discrete mathematics in the solutions of real world problems in diverse areas such as zoology, linguistics and business. Over 200 new problems have been added to this third edition.

Handbook of Discrete and Combinatorial Mathematics Kenneth H. Rosen, 2017-10-19 Handbook of Discrete and Combinatorial Mathematics provides a comprehensive reference volume for mathematicians, computer scientists, engineers, as well as students and reference librarians. The material is presented so that key information can be located and used quickly and easily. Each chapter includes a glossary. Individual topics are covered in sections and subsections within chapters, each of which is organized into clearly identifiable parts: definitions, facts, and examples. Examples are provided to illustrate some of the key definitions, facts, and algorithms. Some curious and entertaining facts and puzzles are also included. Readers will also find an extensive collection of biographies. This second edition is a major revision. It includes extensive additions and updates. Since the first edition appeared in 1999, many new discoveries have been made and new areas have grown in importance which are covered in this edition.

Instructor's Guide for Discrete Mathematics Kenneth P. Bogart, 1988

Handbook of Discrete and Combinatorial Mathematics Kenneth H. Rosen, 1999-09-28 The importance of discrete and combinatorial mathematics continues to increase as the range of applications to computer science, electrical engineering, and the biological sciences grows dramatically. Providing a ready reference for practitioners in the field, the Handbook of Discrete and Combinatorial Mathematics, Second Edition, presents additional material on Google's matrix, random graphs, geometric graphs, computational topology, and other key topics. New chapters highlight essential background information on bioinformatics and computational geometry. Each chapter includes a glossary, definitions, facts, examples, algorithms, major applications, and references.

Discrete Mathematics and Its Applications + Student's Solution Guide Kenneth H. Rosen, 2011-07-06

Instructor's Resource Guide for Discrete Mathematics and Its Applications Kenneth H. Rosen, 1995

Handbook of Discrete and Combinatorial Mathematics, Second Edition Kenneth H. Rosen, 2016-01-15 The importance of discrete and combinatorial mathematics continues to increase as the range of applications to computer science, electrical engineering, and the biological sciences grows dramatically. Providing a ready reference for practitioners in the field, the Handbook of Discrete and Combinatorial Mathematics, Second Edition, presents additional material on Google's matrix, random graphs, geometric graphs, computational topology, and other key topics. New chapters highlight essential background information on bioinformatics and computational geometry. Each chapter includes a glossary, definitions, facts, examples, algorithms, major applications, and references.

Discrete Mathematics with Proof Eric Gossett, 2009-06-22 A Trusted Guide to Discrete Mathematics with Proof. Now in a Newly Revised Edition. Discrete mathematics has become increasingly popular in recent years due to its

growing applications in the field of computer science Discrete Mathematics with Proof Second Edition continues to facilitate an up to date understanding of this important topic exposing readers to a wide range of modern and technological applications The book begins with an introductory chapter that provides an accessible explanation of discrete mathematics Subsequent chapters explore additional related topics including counting finite probability theory recursion formal models in computer science graph theory trees the concepts of functions and relations Additional features of the Second Edition include An intense focus on the formal settings of proofs and their techniques such as constructive proofs proof by contradiction and combinatorial proofs New sections on applications of elementary number theory multidimensional induction counting tulips and the binomial distribution Important examples from the field of computer science presented as applications including the Halting problem Shannon s mathematical model of information regular expressions XML and Normal Forms in relational databases Numerous examples that are not often found in books on discrete mathematics including the deferred acceptance algorithm the Boyer Moore algorithm for pattern matching Sierpinski curves adaptive quadrature the Josephus problem and the five color theorem Extensive appendices that outline supplemental material on analyzing claims and writing mathematics along with solutions to selected chapter exercises Combinatorics receives a full chapter treatment that extends beyond the combinations and permutations material by delving into non standard topics such as Latin squares finite projective planes balanced incomplete block designs coding theory partitions occupancy problems Stirling numbers Ramsey numbers and systems of distinct representatives A related Web site features animations and visualizations of combinatorial proofs that assist readers with comprehension In addition approximately 500 examples and over 2 800 exercises are presented throughout the book to motivate ideas and illustrate the proofs and conclusions of theorems Assuming only a basic background in calculus Discrete Mathematics with Proof Second Edition is an excellent book for mathematics and computer science courses at the undergraduate level It is also a valuable resource for professionals in various technical fields who would like an introduction to discrete mathematics

The Discrete Math Workbook Sergei Kurgalin, Sergei Borzunov, 2018-07-31 This practically oriented textbook presents an accessible introduction to discrete mathematics through a substantial collection of classroom tested exercises Each chapter opens with concise coverage of the theory underlying the topic reviewing the basic concepts and establishing the terminology as well as providing the key formulae and instructions on their use This is then followed by a detailed account of the most common problems in the area before the reader is invited to practice solving such problems for themselves through a varied series of questions and assignments Topics and features provides an extensive set of exercises and examples of varying levels of complexity suitable for both laboratory practical training and self study offers detailed solutions to many problems applying commonly used methods and computational schemes introduces the fundamentals of mathematical logic the theory of algorithms Boolean algebra graph theory sets relations functions and combinatorics presents more advanced material on the design and analysis

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Schaum's Outline of Theory and Problems of Discrete Mathematics Seymour Lipschutz, 1997 Offers explanations and step by step guidance on solving the kinds of problems students find in exams This guide features the applications of discrete mathematics to computer science and is useful for independent study or to supplement reinforce and strengthen work in class

Student Solutions Manual and Study Guide, Discrete Mathematics with Applications Susanna S. Epp, 2011-04 A solutions manual designed to accompany the fourth edition of the text Discrete mathematics with applications by Susanna S Epp It contains complete solutions to every third exercise in the text that is not fully answered in the appendix of the text itself Additional review material is also provided

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