Discrete MATH

Logic, Graphs & Trees, Sets, Probability

Logic of Statements

Statements & Logical Connectives

A **statement** is a sentence that is either true or false, but not both.
EX: The moon orbits the Earth is a true statement.
EX: 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
$\sim p$	"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 ($\sim$) and another logical connective, the negation ($\sim$) is performed first.
EX: $\sim p \vee q$ is equivalent to $(\sim p) \vee q$.
EX: $\sim p \wedge \sim q$ is equivalent to $(\sim p) \wedge (\sim q)$.

You can express compound statements symbolically using $\sim$, $\wedge$, and $\vee$.
EX: 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. $\sim q$
It is cloudy and it is raining. $p \wedge q$
It is cloudy but it is not raining. $p \wedge \sim q$ or $p \wedge (\sim q)$
It is not cloudy and it is not raining. $\sim p \wedge \sim q$ or $(\sim p) \wedge (\sim q)$

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.

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

p	$\sim p$
T	F
F	T

EX: 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

EX: 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.

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

p	q	r	$\sim p$	$q \wedge r$	$\sim p \vee (q \wedge r)$
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.
$\sim (p \wedge q) \equiv \sim p \vee \sim q$
EX: 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.
$\sim (p \vee q) \equiv \sim p \wedge \sim q$
EX: 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.
EX: Construct a truth table to show that $\sim (p \vee q) \equiv \sim p \wedge \sim q$.

p	q	$\sim p$	$\sim q$	$(p \vee q)$	$\sim (p \vee q)$	$\sim p \wedge \sim q$
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."
EX: 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.

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Susanna S. Epp

Discrete Math Study Guide:

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WHAT THIS BOOK IS FOR Students have generally found finite and discrete math difficult subjects to understand and learn Despite the publication of hundreds of textbooks in this field each one intended to provide an improvement over previous textbooks students of finite and discrete math continue to remain perplexed as a result of numerous subject areas that must be remembered and correlated when solving problems Various interpretations of finite and discrete math terms also contribute to the difficulties of mastering the subject In a study of finite and discrete math REA found the following basic reasons underlying the inherent difficulties of finite and discrete math No systematic rules of analysis were ever developed to follow in a step by step manner to solve typically encountered problems This results from numerous different conditions and principles involved in a problem that leads to many possible different solution methods To prescribe a set of rules for each of the possible variations would involve an enormous number of additional steps making this task more burdensome than solving the problem directly due to the expectation of much trial

and error Current textbooks normally explain a given principle in a few pages written by a finite and discrete math professional who has insight into the subject matter not shared by others These explanations are often written in an abstract manner that causes confusion as to the principle s use and application Explanations then are often not sufficiently detailed or extensive enough to make the reader aware of the wide range of applications and different aspects of the principle being studied The numerous possible variations of principles and their applications are usually not discussed and it is left to the reader to discover this while doing exercises Accordingly the average student is expected to rediscover that which has long been established and practiced but not always published or adequately explained The examples typically following the explanation of a topic are too few in number and too simple to enable the student to obtain a thorough grasp of the involved principles The explanations do not provide sufficient basis to solve problems that may be assigned for homework or given on examinations Poorly solved examples such as these can be presented in abbreviated form which leaves out much explanatory material between steps and as a result requires the reader to figure out the missing information This leaves the reader with an impression that the problems and even the subject are hard to learn completely the opposite of what an example is supposed to do Poor examples are often worded in a confusing or obscure way They might not state the nature of the problem or they present a solution which appears to have no direct relation to the problem These problems usually offer an overly general discussion never revealing how or what is to be solved Many examples do not include accompanying diagrams or graphs denying the reader the exposure necessary for drawing good diagrams and graphs Such practice only strengthens understanding by simplifying and organizing finite and discrete math processes Students can learn the subject only by doing the exercises themselves and reviewing them in class obtaining experience in applying the principles with their different ramifications In doing the exercises by themselves students find that they are required to devote considerable more time to finite and discrete math than to other subjects because they are uncertain with regard to the selection and application of the theorems and principles involved It is also often necessary for students to discover those tricks not revealed in their texts or review books that make it possible to solve problems easily Students must usually resort to methods of trial and error to discover these tricks therefore finding out that they may sometimes spend several hours to solve a single problem When reviewing the exercises in classrooms instructors usually request students to take turns in writing solutions on the boards and explaining them to the class Students often find it difficult to explain in a manner that holds the interest of the class and enables the remaining students to follow the material written on the boards The remaining students in the class are thus too occupied with copying the material off the boards to follow the professor s explanations This book is intended to aid students in finite and discrete math overcome the difficulties described by supplying detailed illustrations of the solution methods that are usually not apparent to students Solution methods are illustrated by problems that have been selected from those most often assigned for class work and given on examinations The problems are arranged in order of complexity to enable

students to learn and understand a particular topic by reviewing the problems in sequence The problems are illustrated with detailed step by step explanations to save the students large amounts of time that is often needed to fill in the gaps that are usually found between steps of illustrations in textbooks or review outline books The staff of REA considers finite and discrete math a subject that is best learned by allowing students to view the methods of analysis and solution techniques This learning approach is similar to that practiced in various scientific laboratories particularly in the medical fields In using this book students may review and study the illustrated problems at their own pace students are not limited to the time such problems receive in the classroom When students want to look up a particular type of problem and solution they can readily locate it in the book by referring to the index that has been extensively prepared It is also possible to locate a particular type of problem by glancing at just the material within the boxed portions Each problem is numbered and surrounded by a heavy black border for speedy identification **Student Solutions Manual and Study Guide for Epp's Discrete Mathematics: Introduction to Mathematical Reasoning** Susanna S. Epp,2011 **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 of algorithms including asymptotic analysis and parallel algorithms includes reference lists of trigonometric and finite summation formulae in an appendix together with basic rules for differential and integral calculus This hands on study guide is designed to address the core needs of undergraduate students training in computer science informatics and electronic engineering emphasizing the skills required to develop and implement an algorithm in a specific programming language Essential Discrete Mathematics Richard Johnsonbaugh,1987 **Visions and Concepts for Education 4.0** Michael E. Auer,Dan Centea,2021-02-05 This book contains papers in the fields of Interactive Collaborative and Blended Learning Technology Supported Learning Education 4 0 Pedagogical and Psychological Issues With growing calls for affordable and quality education worldwide we are currently witnessing a significant transformation in the development of post secondary education and pedagogical practices Higher education is undergoing innovative transformations to respond to our urgent needs The change is hastened by the global pandemic that is currently underway The 9th International Conference on

Interactive Collaborative and Blended Learning Visions and Concepts for Education 4 0 was conducted in an online format at McMaster University Canada from 14th to 15th October 2020 to deliberate and share the innovations and strategies This conference s main objectives were to discuss guidelines and new concepts for engineering education in higher education institutions including emerging technologies in learning to debate new conference format in worldwide pandemic and post pandemic conditions and to discuss new technology based tools and resources that drive the education in non traditional ways such as Education 4 0 Since its beginning in 2007 this conference is devoted to new learning approaches with a focus on applications and experiences in the fields of interactive collaborative and blended learning and related new technologies Currently the ICBL conferences are forums to exchange recent trends research findings and disseminate practical experiences in collaborative and blended learning and engineering pedagogy The conference bridges the gap between pure scientific research and the everyday work of educators Interested readership includes policymakers academics educators researchers in pedagogy and learning theory school teachers industry centric educators continuing education practitioners etc   A Student's Guide to the Study, Practice, and Tools of Modern Mathematics Donald Bindner,2010-11-29 A Student s Guide to the Study Practice and Tools of Modern Mathematics provides an accessible introduction to the world of mathematics It offers tips on how to study and write mathematics as well as how to use various mathematical tools from LaTeX and Beamer to Mathematica and Maple to MATLAB and R Along with a color insert the text include   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 with Study Guide for Epp's Discrete Mathematics with Applications Susanna S. Epp,2019-07-10 The Student Solutions Manual contains fully worked out solutions to all of the exercises not completely answered in Appendix B and is divisible by 3 The Study Guide also includes alternate explanations for some of the concepts and review questions for each chapter enabling students to gain additional practice and succeed in the course   Discrete Mathematics Ken Yablonsky,2015-05-31 Skills used in business and also present in most middle high school math competitions Computer science is almost entirely built upon this higher level real world math that teaches reasoning and proof techniques Often a required course for computer science majors this 6 page guide is your reference tool for success Suggested uses Professors Teachers tool for continued reference throughout a course use to build quizzes for open guide tests and as support for struggling students Students quick and easy reference tool math competitions review guide for quizzes tests exams and homework help Computer Science Majors a must have for a core principle within your studies   Schaum's Outline of Discrete Mathematics, Revised Third Edition Seymour Lipschutz,Marc Lipson,2009-05-01 Tough Test Questions Missed Lectures Not Enough Time Fortunately for you there s Schaum s Outlines More than 40 million

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