

# 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.

# Discrete Math Study Guide

**Donald Bindner, Martin Erickson**



## Discrete Math Study Guide:

*The Discrete Math Workbook* Sergei Kurgalin, Sergei Borzunov, 2020-08-12 This practically focused study guide introduces the fundamentals of discrete mathematics through an extensive set of classroom tested problems Each chapter presents a concise introduction to the relevant theory followed by a detailed account of common challenges and methods for overcoming these The reader is then encouraged to practice solving such problems for themselves by tackling a varied selection of questions and assignments of different levels of complexity This updated second edition now covers the design and analysis of algorithms using Python and features more than 50 new problems complete with solutions Topics and features provides a substantial collection of problems and examples of varying levels of difficulty suitable for both laboratory practical training and self study offers detailed solutions to each problem 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 Turing machines 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 workbook is an invaluable resource for undergraduate students of computer science informatics and electronic engineering Suitable for use in a one or two semester course on discrete mathematics the text emphasizes the skills required to develop and implement an algorithm in a specific programming language

*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

Schaum's Outline of Discrete Mathematics, Fourth Edition Seymour Lipschutz, Marc Lipson, 2021-11-30 Study smarter and stay on top of your discrete mathematics course with the bestselling Schaum's Outline now with the NEW Schaum's app and website Schaum's Outline of Discrete Mathematics Fourth Edition is the go to study guide for more than 115 000 math majors and first and second year university students taking basic computer science courses With an outline format that facilitates quick and easy review Schaum's Outline of Discrete Mathematics Fourth Edition helps you understand basic concepts and get the extra practice you need to excel in these courses Coverage includes set theory relations functions and algorithms logic and propositional calculus techniques of counting advanced counting techniques recursion probability graph theory directed graphs binary trees properties of the integers languages automata machines finite state machines and Turing machines ordered sets and lattices and Boolean algebra Features NEW to this edition the new Schaum's app and website NEW to this edition 20 NEW problem solving videos online 467 solved problems and hundreds of additional practice problems Outline format to provide a concise guide to the standard college course in discrete mathematics Clear concise explanations of

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**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

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 theory has gone through an unprecedented growth in the last few decades both in terms of theory and implementations hence it deserves a thorough treatment which is not adequately found in any other contemporary books on discrete mathematics whereas about 40% of this textbook is devoted to graph theory The text follows an algorithmic approach for discrete mathematics and graph problems where applicable to reinforce learning and to show how to implement the concepts in real world applications

**Eureka Math Geometry Study Guide** Great Minds,2016-06-17 The team of teachers and mathematicians who created Eureka Math believe that it s not enough for students to know the process for solving a problem they need to know why that process works That s why students who learn math with Eureka can solve real world problems even those they have never encountered before The Study Guides are a companion to the Eureka Math program whether you use it online or in print The guides collect the key components of the curriculum for each grade in a single volume They also unpack the standards in detail so that anyone even non Eureka users can benefit The guides are particularly helpful for teachers or trainers seeking to undertake or lead a meaningful study of the grade level content in a way that highlights the coherence between modules and topics We re here to make sure you succeed with an ever growing library of resources Take advantage of the full set of Study Guides available for each grade PK 12 or materials at eureka math org such as free implementation and pacing guides material lists parent resources and more

**A Student's Guide to the Study, Practice, and Tools of Modern Mathematics** Donald Bindner,Martin Erickson,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

**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

**Eureka Math Curriculum Study Guide** Common Core,2015-03-23 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics

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and Area Fractions as Numbers on the Number Line and Collecting and Displaying Data      *Eureka Math Pre-K Study Guide*

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**A Beginner's Guide to Discrete Mathematics** W. D. Wallis, 2003 This introduction to discrete mathematics is aimed primarily at undergraduates in mathematics and computer science at the freshmen and sophomore levels The text has a distinctly applied orientation and begins with a survey of number systems and elementary set theory Included are discussions of scientific notation and the representation of numbers in computers Lists are presented as an example of data structures An introduction to counting includes the Binomial Theorem and mathematical induction which serves as a starting point for a brief study of recursion The basics of probability theory are then covered Graph study is discussed including Euler and Hamilton cycles and trees This is a vehicle for some easy proofs as well as serving as another example of a data structure Matrices and vectors are then defined The book concludes with an introduction to cryptography including the RSA cryptosystem together with the necessary elementary number theory e g Euclidean algorithm Fermat's Little Theorem Good examples occur throughout At the end of every section there are two problem sets of equal difficulty However solutions are only given to the first set References and index conclude the work A math course at the college level is required to handle this text College algebra would be the most helpful

**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

Essential Discrete Mathematics Richard Johnsonbaugh, 1987

Student Solutions Manual and Study Guide for Epp's Discrete Mathematics: Introduction to Mathematical Reasoning Susanna S. Epp, 2011

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resources and more     A Beginner's Guide to Finite Mathematics W.D. Wallis, 2012-04-23 This second edition of A Beginner's Guide to Finite Mathematics takes a distinctly applied approach to finite mathematics at the freshman and sophomore level. Topics are presented sequentially: the book opens with a brief review of sets and numbers followed by an introduction to data sets, histograms, means and medians. Counting techniques and the Binomial Theorem are covered, which provides the foundation for elementary probability theory; this in turn leads to basic statistics. This new edition includes chapters on game theory and financial mathematics. Requiring little mathematical background beyond high school algebra, the text will be especially useful for business and liberal arts majors.

## Whispering the Techniques of Language: An Emotional Journey through **Discrete Math Study Guide**

In a digitally-driven world where screens reign great and immediate interaction drowns out the subtleties of language, the profound secrets and psychological subtleties hidden within phrases frequently get unheard. Yet, situated within the pages of **Discrete Math Study Guide** a captivating literary treasure blinking with fresh thoughts, lies an extraordinary journey waiting to be undertaken. Written by a skilled wordsmith, that marvelous opus encourages viewers on an introspective journey, gently unraveling the veiled truths and profound impact resonating within the very fabric of each word. Within the psychological depths with this touching evaluation, we shall embark upon a honest exploration of the book is key styles, dissect their charming publishing style, and succumb to the powerful resonance it evokes deep within the recesses of readers hearts.

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