

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

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

**Susanna S. Epp**



## **Guide For Discrete Mathematics:**

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**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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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

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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

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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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