Logic of Statements

Statements & Logical Connectives

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

DC The moon orbits the farm is a true statement.

DC 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.

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

Logical Connectives						
Expression	Expression How it is read Type of connective					
~p	"not p"	negation				
D = Q	"p and q"	conjunction				
,p v 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 (-) is performed first.

DC -pv q is equivalent to [-p] v q.

EX: ~p.x~q is equivalent to (~p) x (~q).

You can express compound statements symbolically using ", \", and v.
EX: Let p represent the statement "it is cloudy." Let p represent the statement "it is remining." Represent each compound statement below symbolically.

it is not raining. ~a

It is cloudy and it is raining, p.-g.

If is cloudy but it is not raining, p A-q or p A (-q)

It is not cloudy and it is not raining, -p. -q or (-p) ... [-a)

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 $\neg p$ and means "not p." The truth value of $\neg p$ is the apposite of the truth value of p. If p is true, then $\neg p$ is take. If p is foliar, then $\neg p$ is take.

T	- 1
P P	T

EX: Conjunction of a statement

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

T	T	T
T	F.	F
F .	T	P.
- 6	- Property	- 10

EX: Disjunction of a statement

For statements p and q, the disjunction of p and q is written p-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 take.

T	Y	T
T	F.	T
- 6	T	7.
F	F	- 6

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

Logic, Graphs & Trees, Sets, Probability

EX: Construct a truth table for the compound statement ~pv (g . rt.

T	T.	Total Contract	F	T	To the second
T	OFFI	- 15	- 6	P.	P.
T	T. P.	T	P.	F	F
T	F	F	F.		F
P	T-T-	T	T	T	T
P.	T	100	T	P.	T
P.	F	T	T		T
100	100	100	T	- 1	- T

Logical Equivalence & De Morgan's Laws

Two statements are logically equivalent if and only if they have identical truth values. The symbol 0 is used to denote logical equivalence.

Steps to Determine Logical Equivalence

For compound statements P and Q:

- 1. Construct a truth table for P.
- Construct a truth table for Q using the same statement variables as step 1.
- Compare the truth values of the tables. If the truth values in each row are the same, the statements are logically opinivalent. 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.

Dewich II (Dwide)

EX: Find the negation of the statement Justine is a caphomore and has blands half.

The negation of this statement is Justine is not a sophomore or does not have blande has. The negation of a disjunction is logically equivalent to a conjunction in which each component

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

private # (pivid)-

EX: find the negation of the statement Luis was sick on Manday or he missed the school but.

The negation of this statement is Luis was not sick on Monday and he did not miss the school but,

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 -ip v qj ii -p x-q.

T	T	B2	- 1	T		
- 1	3 18	P. C.	T	- 1		
- F	THE RESERVE	Y	F	- 1	F	F
- 6	- 6	- 7	- 1	- F	T	- 1

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 feam, then he will play fullback.

If Christy does not earn at least a B on her final, then the 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.

(0)		0-0
T	T	T
T	F	F
	T	T
F	F	7

Truth tables can be used to analyze compound conditional statements.

Guide For Discrete Mathematics

Annelies Wilder-Smith

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