

Chapter 5. Fundamentals of Logic

Objective: In this chapter, you will learn what is (compound) statement, logical connectives, truth tables, logical equivalence, laws of logic, arguments and rules of inference. You should be able to conclude if a statement/argument is valid or invalid, and true or false.

5.1 Statements and Logical Connectives

Statement (Proposition): A *declarative sentence* that is either *true or false* but not both. A *primary (simple) statement* is a statement that can be represented by a variable, like P, Q, R, S or p, q, r, s. The *truthfulness or falsity* of a statement is called its *truth value*. A true statement has truth value T or 1, a false statement has truth value F or 0.

Eg 1: Which of the following are statements? For a statement, find its truth value.

- a) The earth is round.
- b) $2 + 3 = 6$.
- c) Segamat is a big city.
- d) What a beautiful flower!
- e) Is Mr. Lau tall?
- f) Take two aspirins.

Statements can be combined by *logical connectives* to obtain compound statements. The truth value depends on the types of connectives use.

Eg 2: “The sun is shining and it is cold” is a compound statement.

Truth Table

- a table giving the truth values of a (compound) statement in terms of the truth values of its component parts.
- each component statement has 2 possible truth values, T and F.
- if there are n component statements in the compound statement, then the number of rows in its truth table is 2^n .

Types of Connectives

1. Conjunction (and, \wedge)

Let p and q be two primary statements, the conjunction of p and q is the compound statement “p and q”, denoted $p \wedge q$. It is true only if both p and q are true.

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

Fundamentals Of Logic

Yi-Tong Ma



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