

Section 1.2 Truth Tables

A list of truth values that depend on the values assigned to its components is displayed by presenting all possible combinations for the truth values of its components in a truth table.

Two propositional forms are equivalent if and only if they have the same truth tables.

A tautology is a propositional form that is true for every assignment of truth values to its components.

A contradiction is a propositional form that is false for every assignment of truth values to its components.

A denial of a statement P is any statement equivalent to $\sim P$.