### Definition: Tautology

A propositional logical expression that is always true regardless of the assignment of the variables occurring in it is called a tautology.

#### Example: Tautology

Let T := trueA . Then T is a tautology, because A ∨ ¬AT is always true.

Let be a propositional expression. Then is a tautology, as can be illustrated by the following truth table:

Let A be a propositional expression. Then A ∨ 1 is a tautology, as can be illustrated by the following truth table: