

Definition

A **propositional function** is a family of propositions depending on one or more variables. The set of allowable variables is known as the **domain** of the proposition.

Definition

A **quantified proposition** is propositional function with a quantifier.

① $\forall x \in \mathbb{R}, \{x^2 \geq 0\}$

② $\exists y \in \mathbb{R}, y < 0$