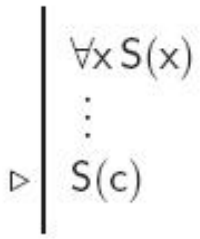
Rules of Inference for FOL

∀ Elimination

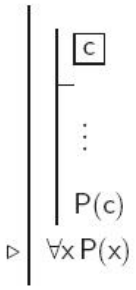
Universal Elimination (∀ Elim):



- x: any variable,
- c: any individual constant, whether used or not

∀ Introduction

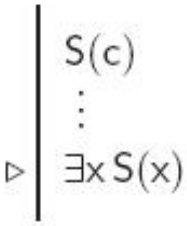
Universal Introduction (∀ Intro):



- c: does not occur in the subproof where it is introduced.

∃ Introduction

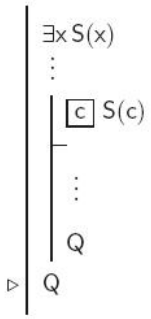
Existential Introduction (∃ Intro):



- x: any variable
- c: individual constant

∃ Elimination

Existential Elimination (∃ Elim):



- c: does not occur outside of the subproof where it is introduced.