

prf.1 Derivability from a Set of Formulas

mod:prf:prg:sec In ?? we defined a notion of provability of a formula in a system Σ . We now extend this notion to provability in Σ from formulas in a set Γ .

mod:prf:prg:defn:Gamma proves **Definition prf.1.** A formula φ is derivable in a system Σ from a set of formulas Γ , written $\Gamma \vdash_{\Sigma} \varphi$ if and only if there are $\psi_1, \dots, \psi_n \in \Gamma$ such that $\Sigma \vdash \psi_1 \rightarrow (\psi_2 \rightarrow \dots (\psi_n \rightarrow \varphi) \dots)$.

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Bibliography