

## 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  $\Sigma$ . We now extend this notion to provability in  $\Sigma$  from formulas in a set  $\Gamma$ .

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defn:Gamma proves **Definition prf.1.** A formula  $\varphi$  is derivable in a system  $\Sigma$  from a set of formulas  $\Gamma$ , 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