

(updated 16.7.2017)

The PA use the meta-standards, model obligations

Def $A \models PA, a \in A$. Assuming, so a logic

25151 $X \in IN$ just $X = \{a \in M : A \models p_a\}$

The Robinson standard language in A use

universalizing sig, giving universe def. language in

up. $X = \{a \in M : a \text{ is } b, t \text{ or } \neg\}$

Sh. just $\{ \varphi(x) \text{ free, to show } \{a \in M : A \models \varphi(a)\}$

just language in A .

Den. Free indices, so \times denotation $\mathbb{Z}(x)$

$\exists u [A \models \varphi \rightarrow (p_a \mid u \Rightarrow \varphi(u)) \wedge \forall y \exists x p_y \mid u]$

Thence meta-standards to denotation & free

$A \models \forall y \leq b (p_y \mid a \Rightarrow \varphi(y))$

in standard model $A \models p_a \mid a \Rightarrow \varphi(a)$ all $a \in M$ in

Why Denoting meta-standards model $A \models PA$ look

(a) is simple verification procedure

(b) rather interesting

Den (a) just $X \in IN$ so power property

to ist. \mathbb{Z} , the $\varphi_p(x)$ free all $a \in M$

$a \in X$ with $IN \models \varphi_p(a)$ with $A \models \varphi_p(a)$

Assume $\varphi_p(x)$ true:

"ist. nontriviale Aussage p mit $a \in M$ & type one obj. IM "