

25-4-2013

$$\vdash (\forall x \phi \rightarrow \psi) \rightarrow \exists x (\phi \rightarrow \psi).$$

$$(\forall x \phi \rightarrow \psi) \vdash \exists x (\phi \rightarrow \psi)$$

$\forall x \phi \rightarrow \psi, \neg \exists x (\phi \rightarrow \psi)$ αδυσχετηές

$\forall x \phi \rightarrow \psi, \forall x \neg (\phi \rightarrow \psi)$ αδυσχετηές.

$$\forall x \neg(\phi \rightarrow \psi) \vdash \phi, \neg \psi$$

$$\forall x \neg(\phi \rightarrow \psi) \vdash \forall x \phi, \neg \psi$$

$$\forall x \phi \rightarrow \psi, \forall x \neg(\phi \rightarrow \psi) \text{ \u0395\u039d\u03a4 \u2264}$$

\u03bd\u03b1 \u03b4\u03b5\u03ba\u03b4\u03b5 \u03b1\u03b4\u03b5\u03bd\u03b5\u03bb\u03b5\u03b9\u03c3

\u03a0\u03c1\u03ac\u03b3\u03bc\u03b1\u03c4\u03b9 \u03b4\u03b5\u03c7\u03b4\u03b9\u03ba\u03b5\u03c4.

Γιωββα $0, S, <, +, \cdot, \mathbb{E}$.

\mathcal{L}_G Σοφία των φυσικών αρ

$\text{Th } \mathcal{L}_G$

$A_{\mathbb{E}}$

$$\begin{array}{l} Sx \neq 0, \\ S1 \end{array} \quad \begin{array}{l} Sx = Sy \rightarrow x = y \\ S2 \end{array}$$

$$\begin{array}{l} x < Sy \leftrightarrow x \leq y \\ L1 \end{array}$$

$$\begin{array}{l} x \neq 0 \\ L2 \end{array}$$

$$x < y \vee x = y \vee y < x$$

$$\begin{array}{l} x + 0 = x, \\ A1 \end{array}, \quad \begin{array}{l} x + Sy = S(x+y), \\ A2 \end{array}, \quad \mu_1, \mu_2, \hat{=} 1, \hat{=} 2$$

\mathcal{L}_S

A_S

$$Cn A_S = \text{Th } \mathcal{L}_S$$

33A.

1) $A \in T, x \leq 0$ A Σ ω τ ω τ ω τ ω τ

2) $A \in T, x \leq \sum^{k+1} 0 \iff x = \sum^0 0 \vee \dots \vee x = \sum^k 0$

$A \in T, x \leq k+1 \iff x = 0 \vee \dots \vee x = k$

Απόδειξη του 2

$x \leq \sum^{k+1} 0 \iff x \leq \sum^k 0 \iff x \leq \sum^k 0 \vee x = \sum^k 0$

Ελαχιστικά συνεκκίση

Προσοχή στην κλασ. βίβλ.

$x \leq \sum 0 \iff x = 0$ Πράγματι?

αἰτὸ ἀξιώμα

$$x < 50 \iff x < 0 \vee x = 0$$

ἀλλὰ αἰτὸ ἀξιώμα $x < 0$ ἴσχυει

$$x < 50 \iff x = 0$$

ΣΣΒ Xu t όρος xweis (μεταβλητός)

2024 Δk $\exists t = S^k 0$

~~$\exists t$~~
 ~~$\exists k$~~

$\exists t = S^k 0$
 $\exists k \in \mathbb{N}$