

t98_scmyciel (TMVhUJNer- HtQJp9VREWxHnNnpfnGo421Hc)

October 27, 2020

Let $v4_scmyciel : \iota \Rightarrow o$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Let $k12_scmyciel : \iota \Rightarrow \iota$ be given. Let $k1_scmyciel : \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k10_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v4_scmyciel X0) \Rightarrow (\forall X1.\forall X2.\neg k2_tarski \\ (k4_tarski X1 (k3_tarski X0)) (k4_tarski X2 (k3_tarski X0)) \in k1_scmyciel \\ (k12_scmyciel X0)) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.k2_tarski X0 X0 = k1_tarski X0 \tag{2}$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.\forall X2.\forall X3.(k4_tarski X0 X1 = \\ k4_tarski X2 X3) \Rightarrow ((X0 = X2) \wedge (X1 = X3)) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.\forall X2.(k2_tarski X1 X2 \in X0) \Rightarrow ((X1 = X2) \vee \\ (k2_tarski X1 X2 \in k1_scmyciel X0)) \end{aligned} \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.k10_xtuple_0 (k10_finseq_1 X0 X1) = k2_tarski X0 X1 \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.k4_tarski X0 X1 = k2_tarski (k2_tarski X0 X1) (k1_tarski X0) \tag{6}$$

Theorem 1

$$\begin{aligned} \forall X0.(v4_scmyciel X0) \Rightarrow (\forall X1.\forall X2.\neg (X1 \neq X2) \wedge \\ (k2_tarski (k4_tarski X1 (k3_tarski X0)) (k4_tarski X2 (k3_tarski \\ X0)) \in k12_scmyciel X0)) \end{aligned}$$