

t20_xtuple_0 (TMKB-
maDdS7dwZaZx1NAHbqd6JGxBSzqPpw1)

October 27, 2020

Let $k14_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k6_xtuple_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xtuple_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k11_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. \forall X3. k6_xtuple_0 X0 X1 \\ X2 X3 = k4_tarski (k3_xtuple_0 X0 X1 X2) X3 \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. k3_xtuple_0 X0 X1 X2 = k4_tarski \\ (k4_tarski X0 X1) X2 \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. k14_xtuple_0 X0 = k10_xtuple_0 (k11_xtuple_0 X0) \quad (3)$$

Assume the following.

$$\forall X0. k11_xtuple_0 X0 = k9_xtuple_0 (k9_xtuple_0 X0) \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (X1 = k10_xtuple_0 X0) \Leftrightarrow (\forall X2. (X2 \in \\ X1) \Leftrightarrow (\exists X3. k4_tarski X3 X2 \in X0)) \end{aligned} \quad (5)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (X1 = k9_xtuple_0 X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow \\ (\exists X3. k4_tarski X2 X3 \in X0)) \end{aligned} \quad (6)$$

Theorem 1

$$\begin{aligned} \forall X0. \forall X1. \neg (X0 \in k14_xtuple_0 X1) \wedge (\forall X2. \forall X3. \\ \forall X4. \neg k6_xtuple_0 X2 X0 X3 X4 \in X1) \end{aligned}$$