

t14_xtuple_0 (TM- PqHht4abdDiRfnoGWyQLMkXHdEk6T6txB)

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Let $k12_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k3_xtuple_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. k3_xtuple_0 X0 X1 X2 = k4_tarski (k4_tarski X0 X1) X2 \quad (1)$$

Assume the following.

$$\forall X0. k12_xtuple_0 X0 = k10_xtuple_0 (k9_xtuple_0 X0) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k10_xtuple_0 X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (\exists X3. k4_tarski X3 X2 \in X0)) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k9_xtuple_0 X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (\exists X3. k4_tarski X2 X3 \in X0)) \quad (4)$$

Theorem 1

$$\forall X0. \forall X1. \neg (X0 \in k12_xtuple_0 X1) \wedge (\forall X2. \forall X3. \neg k3_xtuple_0 X2 X0 X3 \in X1)$$