

t3_chain_1

(TMLU2s6GAmGHYTepMyU27R13pLuM2o1Rjev)

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Let $v1_zfmisc_1 : \iota \Rightarrow o$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. k2_tarski X0 X0 = k1_tarski X0 \quad (1)$$

Assume the following.

$$\forall X0. v1_zfmisc_1 (k1_tarski X0) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (X2 = k2_tarski X0 X1) \Leftrightarrow (\forall X3. (X3 \in X2) \Leftrightarrow ((X3 = X0) \vee (X3 = X1))) \quad (3)$$

Assume the following.

$$\forall X0. (v1_zfmisc_1 X0) \Leftrightarrow (\forall X1. \forall X2. ((X1 \in X0) \wedge (X2 \in X0)) \Rightarrow (X1 = X2)) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. k2_tarski X0 X1 = k2_tarski X1 X0 \quad (5)$$

Theorem 1 $\forall X0. \forall X1. (v1_zfmisc_1 (k2_tarski X0 X1)) \Leftrightarrow (X0 = X1).$