

t17_zfmisc_1

(TMZGerfM1qQreJESgLgyyATsL9RoXd279SB)

October 27, 2020

Let $k4_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (k4_xboole_0 (k2_tarski X0 X1) \\ & X2 = k1_tarski X0) \Leftrightarrow ((\neg X0 \in X2) \wedge ((X1 \in X2) \vee (X0 = X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (X1 = k1_tarski X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow \\ & (X2 = X0)) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. (X0 \neq X1) \Rightarrow (k4_xboole_0 (k2_tarski X0 X1) \\ & (k1_tarski X1) = k1_tarski X0) \end{aligned}$$