

t92_zfmisc_1

(TMKXsZteHoQsigcqraYaaw9wZqFS7dBPKsX)

October 27, 2020

Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. (\forall X4. \forall X5. \\ & (k4_tarski\ X4\ X5 \in k2_zfmisc_1\ X0\ X1) \Leftrightarrow (k4_tarski\ X4\ X5 \in k2_zfmisc_1 \\ & \quad X2\ X3)) \Rightarrow (k2_zfmisc_1\ X0\ X1 = k2_zfmisc_1\ X2\ X3) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. (\forall X2. (X2 \in X0) \Leftrightarrow (X2 \in X1)) \Rightarrow (X0 = X1) \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. (k4_tarski\ X0\ X1 \in k2_zfmisc_1\ X2\ X3) \Leftrightarrow ((X0 \in X2) \wedge (X1 \in X3)) \tag{3}$$

Theorem 1 $\forall X0. \forall X1. (k2_zfmisc_1\ X0\ X0 = k2_zfmisc_1\ X1\ X1) \Rightarrow (X0 = X1).$