

t112_zfmisc_1 (TMXWYAEoyjQXvvoovP-
WQCx5jVh3XdsW69wZ)

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Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $r2_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0. \exists X1. (X0 \in X1) \wedge ((\forall X2. \forall X3. ((X2 \in \\ X1) \wedge (r1_tarski X3 X2)) \Rightarrow (X3 \in X1)) \wedge ((\forall X2. \neg (X2 \in X1) \wedge (\forall X3. \\ \neg (X3 \in X1) \wedge (\forall X4. (r1_tarski X4 X2) \Rightarrow (X4 \in X3)))) \wedge (\forall X2. \\ \neg (r1_tarski X2 X1) \wedge ((\neg r2_tarski X2 X1) \wedge (\neg X2 \in X1)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k1_zfmisc_1 X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (r1_tarski X2 X0)) \quad (3)$$

Theorem 1

$$\begin{aligned} \forall X0. \exists X1. (X0 \in X1) \wedge ((\forall X2. \forall X3. ((X2 \in \\ X1) \wedge (r1_tarski X3 X2)) \Rightarrow (X3 \in X1)) \wedge ((\forall X2. (X2 \in X1) \Rightarrow (k1_zfmisc_1 \\ X2 \in X1)) \wedge (\forall X2. \neg (r1_tarski X2 X1) \wedge ((\neg r2_tarski X2 X1) \wedge \\ \neg X2 \in X1)))))) \end{aligned}$$