

l38_zfmisc_1

(TMNW466G3mufSS3sE3MdFufpEkse7WjybWH)

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Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. r1_tarski (k1_tarski X0) (k2_tarski X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. r1_tarski k1_xboole_0 X0 \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \neg(X0 \neq k1_tarski X1) \wedge ((X0 \neq k1_xboole_0) \wedge (\forall X2. \neg(X2 \in X0) \wedge (X2 \neq X1))) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (X2 = k2_tarski X0 X1) \Leftrightarrow (\forall X3. (X3 \in X2) \Leftrightarrow ((X3 = X0) \vee (X3 = X1))) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. k2_tarski X0 X1 = k2_tarski X1 X0 \quad (6)$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (r1_tarski X0 (k2_tarski X1 X2)) \Leftrightarrow \\ & (\neg(X0 \neq k1_xboole_0) \wedge ((X0 \neq k1_tarski X1) \wedge ((X0 \neq k1_tarski X2) \wedge \\ & (X0 \neq k2_tarski X1 X2)))) \end{aligned}$$