

t14_zfmisc_1

(TMacLyMYD9J83Be1RSWXwYGnqbUkV8GGLuu)

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Let $k4_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $r1_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. (r1_xboole_0 X0 X1) \Leftrightarrow (k4_xboole_0 X0 X1 = X0) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r1_xboole_0 X0 X1) \Rightarrow (r1_xboole_0 X1 X0) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (\neg X0 \in X1) \Rightarrow (r1_xboole_0 (k1_tarski X0) X1) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \neg (r1_xboole_0 (k1_tarski X0) X1) \wedge (X0 \in X1) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k1_tarski X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (X2 = X0)) \quad (5)$$

Theorem 1

$$\forall X0. \forall X1. (k4_xboole_0 (k1_tarski X0) (k1_tarski X1) = k1_tarski X0) \Leftrightarrow (X0 \neq X1)$$