

t91_zfmisc_1

(TMKzWMJvx5PDzRWGQ9ZgfbKYnV1A8w1Afmy)

October 27, 2020

Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \neg(X0 \neq k1_xboole_0) \wedge (\forall X1. \neg X1 \in X0) \quad (1)$$

Assume the following.

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

Assume the following.

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

Theorem 1

$$\forall X0. \forall X1. (k2_zfmisc_1 X0 X1 = k2_zfmisc_1 X1 X0) \Rightarrow ((X0 = k1_xboole_0) \vee ((X1 = k1_xboole_0) \vee (X0 = X1)))$$