

t43_subset_1
(TMFN276HhTzwz1fEriHLGMSkFb2QqQQn1Gz)

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Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. \neg(r1_tarski X0 (k2_zfmisc_1 X1 X2)) \wedge ((X3 \in X0) \wedge (\forall X4. \forall X5. \neg(X4 \in X1) \wedge ((X5 \in X2) \wedge (X3 = k4_tarski X4 X5)))) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \neg(X0 \in X1) \wedge (v1_xboole_0 X1) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. ((\neg v1_xboole_0 X0) \Rightarrow ((m1_subset_1 X1 X0) \Leftrightarrow (X1 \in X0))) \wedge ((v1_xboole_0 X0) \Rightarrow ((m1_subset_1 X1 X0) \Leftrightarrow (v1_xboole_0 X1))) \quad (3)$$

Theorem 1

$$\forall X0. \forall X1. \forall X2. \forall X3. \neg(X3 \in X2) \wedge ((r1_tarski X2 (k2_zfmisc_1 X0 X1)) \wedge (\forall X4. (m1_subset_1 X4 X0) \Rightarrow (\forall X5. (m1_subset_1 X5 X1) \Rightarrow (X3 \neq k4_tarski X4 X5))))$$