t47_subset_1 (TMXDqKD1Fs4njQnp9HGsUiZ3evfhmddQbkm)

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Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $v1\_zfmisc\_1 : \iota \Rightarrow o$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((\neg v1\_xboole\_0\ X0) \wedge (v1\_zfmisc\_1\ X0)) \Rightarrow (\exists X1.\ (m1\_subset\_1\ X1\ X0) \wedge (X0 = k1\_tarski\ X1)) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ X1)) \Rightarrow ((X0 \in X2) \Rightarrow (m1\_subset\_1\ X0\ X1)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0) \Rightarrow ((m1\_subset\_1\ X1\ X0) \Leftrightarrow (X1 \in X0))) \wedge ((v1\_xboole\_0\ X0) \Rightarrow ((m1\_subset\_1\ X1\ X0) \Leftrightarrow (v1\_xboole\_0\ X1))) \tag{3}$$

Theorem 1

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.((\neg v1\_xboole\_0\ X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0))) \Rightarrow (\neg (v1\_zfmisc\_1\ X1) \wedge (\forall X2.\ (m1\_subset\_1\ X2\ X0) \Rightarrow (X1 \neq k1\_tarski\ X2))))$$