t4_msualg_9 (TM-FGKR3xeagb6mPZfDutohF9NmN6M6Ppqa5)

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Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k8\_eqrel\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_eqrel\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $v3\_relat\_2 : \iota \Rightarrow o$ be given. Let $v8\_relat\_2 : \iota \Rightarrow o$ be given. Let $v1\_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1\_eqrel\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.r1\_tarski\ (k8\_eqrel\_1\ X0\ (k1\_eqrel\_1\ X0))\ (k1\_tarski\ X0) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(r1\_tarski\ X0\ (k1\_tarski\ X1)) \Leftrightarrow ((X0 = k1\_xboole\_0) \vee (X0 = k1\_tarski\ X1)) \tag{2}$$

Assume the following.

$$\forall X0.(v3\_relat\_2\ (k1\_eqrel\_1\ X0)) \wedge ((v8\_relat\_2\ (k1\_eqrel\_1\ X0)) \wedge (v1\_partfun1\ (k1\_eqrel\_1\ X0)\ X0)) \tag{3}$$

Assume the following.

$$v1\_xboole\_0\ k1\_xboole\_0 \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.((v3\_relat\_2\ X1) \wedge ((v8\_relat\_2\ X1) \wedge ((v1\_partfun1\ X1\ X0) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0)))))) \Rightarrow (m1\_eqrel\_1\ (k8\_eqrel\_1\ X0\ X1)\ X0) \tag{5}$$

Assume the following.

$$\forall X0.m1\_subset\_1\ (k1\_eqrel\_1\ X0)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0)) \tag{6}$$

Assume the following.

$$\forall X0.k1\_eqrel\_1\ X0 = k2\_zfmisc\_1\ X0\ X0 \tag{7}$$

Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.(m1\_eqrel\_1\ X1\ X0) \Rightarrow (\neg v1\_xboole\_0\ X1)) \tag{8}$$

Theorem 1

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (k8\_eqrel\_1\ X0\ (k1\_eqrel\_1\ X0) = k1\_tarski\ X0)$$