t6_funct_4 (TMZAkbzNUDoUyunEqZBwnFGEDV8pRbJEQsS)

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Let $r1\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $k7\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. 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 $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.(r1\_tarski\ (k1\_tarski\ X0)\ (k1\_tarski\ X1)) \Rightarrow (X0 = X1) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.(r1\_tarski\ (k2\_zfmisc\_1\ X0\ X1)\ (k2\_zfmisc\_1\ X2\ X3)) \Rightarrow ((k2\_zfmisc\_1\ X0\ X1 = k1\_xboole\_0) \vee ((r1\_tarski\ X0\ X2) \wedge (r1\_tarski\ X1\ X3))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(X0 \neq k1\_xboole\_0) \Rightarrow ((k2\_zfmisc\_1\ (k1\_tarski\ X1)\ X0 \neq k1\_xboole\_0) \wedge (k2\_zfmisc\_1\ X0\ (k1\_tarski\ X1) \neq k1\_xboole\_0)) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1))) \Rightarrow ((r1\_relset\_1\ X0\ X1\ X2\ X3) \Leftrightarrow (r1\_tarski\ X2\ X3)) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.k7\_funcop\_1\ X0\ X1 = k2\_funcop\_1\ X0\ X1 \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.(v1\_funct\_1\ (k7\_funcop\_1\ X0\ X1)) \wedge ((v1\_funct\_2\ (k7\_funcop\_1\ X0\ X1)\ X0\ (k1\_tarski\ X1)) \wedge (m1\_subset\_1\ (k7\_funcop\_1\ X0\ X1)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ (k1\_tarski\ X1))))) \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.k2\_funcop\_1\ X0\ X1 = k2\_zfmisc\_1\ X0\ (k1\_tarski\ X1) \tag{7}$$

Theorem 1

$$\forall X0.\forall X1.\forall X2.\forall X3.(r1\_relset\_1\ X0\ (k1\_tarski\ X1)\ (k7\_funcop\_1\ X0\ X1)\ (k7\_funcop\_1\ X2\ X3))\Rightarrow((X0 = k1\_xboole\_0)\vee(X1 = X3))$$