t12_abcmiz_1 (TMGvoPEAZmkrz-ihM1GTpv1KgB7PqRk1YTsu)

October 27, 2020

Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_abcmiz\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_setfam\_1 : \iota \Rightarrow \iota$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.(r1\_tarski\ X0\ X1) \Rightarrow (r1\_tarski\ (k1\_abcmiz\_1\ X0)\ (k1\_abcmiz\_1\ X1)) \tag{1}$$

Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.(r1\_tarski\ X1\ (k1\_setfam\_1\ X0)) \Leftrightarrow (\forall X2.(m1\_subset\_1\ X2\ X0) \Rightarrow (r1\_tarski\ X1\ X2))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((r1\_tarski\ X0\ X1) \wedge (r1\_tarski\ X1\ X2)) \Rightarrow (r1\_tarski\ X0\ X2) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.r1\_tarski\ X0\ X0 \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k1\_abcmiz\_1\ X0) \Leftrightarrow ((r1\_tarski\ X0\ X1) \wedge ((\forall X2.\forall X3.(k4\_tarski\ X2\ X3 \in X1) \Rightarrow (r1\_tarski\ X2\ X1)) \wedge (\forall X2.((r1\_tarski\ X0\ X2) \wedge (\forall X3.\forall X4.(k4\_tarski\ X3\ X4 \in X2) \Rightarrow (r1\_tarski\ X3\ X2))) \Rightarrow (r1\_tarski\ X1\ X2)))) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.(X0 = X1) \Leftrightarrow ((r1\_tarski\ X0\ X1) \wedge (r1\_tarski\ X1\ X0)) \tag{6}$$

Theorem 1

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow ((\forall X1.(m1\_subset\_1\ X1\ X0) \Rightarrow (k1\_abcmiz\_1\ X1 = X1)) \Rightarrow (k1\_abcmiz\_1\ (k1\_setfam\_1\ X0) = k1\_setfam\_1\ X0))$$