t5_cohsp_1 (TMT3gFRoMnBtcYjj1DNckdTjjFdnAcnLrDe)

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Let $v1\_cohsp\_1 : \iota \Rightarrow o$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_tarski : \iota \Rightarrow \iota$ be given. Let $k2\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $v1\_finset\_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.k3\_tarski\ (k2\_tarski\ X0\ X1) = k2\_xboole\_0\ X0\ X1 \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ X1)) \Leftrightarrow (r1\_tarski\ X0\ X1) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(r1\_tarski\ (k2\_tarski\ X0\ X1)\ X2) \Leftrightarrow ((X0 \in X2) \wedge (X1 \in X2)) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.v1\_finset\_1\ (k2\_tarski\ X0\ X1) \tag{4}$$

Assume the following.

$$\forall X0.(v1\_cohsp\_1\ X0) \Leftrightarrow (\forall X1.((v1\_finset\_1\ X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0))) \Rightarrow (\exists X2.(r1\_tarski\ (k3\_tarski\ X1)\ X2) \wedge (X2 \in X0))) \tag{5}$$

Theorem 1

$$\forall X0.(v1\_cohsp\_1\ X0) \Rightarrow (\forall X1.\forall X2.\neg(X1 \in X0) \wedge ((X2 \in X0) \wedge (\forall X3.\neg(r1\_tarski\ (k2\_xboole\_0\ X1\ X2)\ X3) \wedge (X3 \in X0))))$$