t76_cohsp_1 (TMY-PLtd7PLLSYF3RSVb96AYdBVNnxMdEhmF)

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Let $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k14\_cohsp\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $np\_\_2 : \iota$ be given. Assume the following.

$$\forall X0.\forall X1.k14\_cohsp\_1\ X0\ X1 = k2\_xboole\_0\ (k2\_zfmisc\_1\ X0\ (k1\_tarski\ np\_\_1))\ (k2\_zfmisc\_1\ X1\ (k1\_tarski\ np\_\_2)) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.(k4\_tarski\ X0\ X1 \in k2\_zfmisc\_1\ X2\ (k1\_tarski\ X3)) \Leftrightarrow ((X0 \in X2) \wedge (X1 = X3)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(X2 = k2\_xboole\_0\ X0\ X1) \Leftrightarrow (\forall X3.\ (X3 \in X2) \Leftrightarrow ((X3 \in X0) \vee (X3 \in X1))) \tag{3}$$

Theorem 1

$$\forall X0.\forall X1.\forall X2.(k4\_tarski\ X2\ np\_\_1 \in k14\_cohsp\_1\ X0\ X1) \Leftrightarrow (X2 \in X0)$$