

t10_cohsp_1
(TMKjRrBgdBNDBeTHi6ki1PVsEszv6qGFc6z)

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Let $v1_cohsp_1 : \iota \Rightarrow o$ be given. Let $k1_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ 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.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Rightarrow (r1_tarski (k3_tarski X0) (k3_tarski X1)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. k3_tarski (k1_enumset1 X0 X1 (k2_xboole_0 X0 X1)) = k2_xboole_0 X0 X1 \quad (3)$$

Assume the following.

$$\forall X0. (v1_cohsp_1 X0) \Leftrightarrow (\forall X1. ((v1_finset_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X0)))) \Rightarrow (\exists X2. (r1_tarski (k3_tarski X1) X2) \wedge (X2 \in X0)) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. (X3 = k1_enumset1 X0 X1 X2) \Leftrightarrow (\forall X4. (X4 \in X3) \Leftrightarrow (\neg (X4 \neq X0) \wedge ((X4 \neq X1) \wedge (X4 \neq X2)))) \quad (5)$$

Theorem 1

$$\forall X0. \forall X1. v1_cohsp_1 (k1_enumset1 X0 X1 (k2_xboole_0 X0 X1))$$