t135_zfmisc_1 (TMbHstr-CRkv4HGeUnnAkYN5yFcNzeuyGbaL)

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Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $r1\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.((r1\_tarski\ X0\ (k2\_xboole\_0\ X1\ X2)) \wedge (r1\_xboole\_0\ X0\ X2)) \Rightarrow (r1\_tarski\ X0\ X1) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(r1\_tarski\ X0\ (k4\_xboole\_0\ X1\ X2)) \Rightarrow ((r1\_tarski\ X0\ X1) \wedge (r1\_xboole\_0\ X0\ X2)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(r1\_tarski\ X0\ X1) \Rightarrow ((X2 \in X0) \vee (r1\_tarski\ X0\ (k4\_xboole\_0\ X1\ (k1\_tarski\ X2)))) \tag{3}$$

Theorem 1

$$\forall X0.\forall X1.\forall X2.\neg(r1\_tarski\ X2\ (k2\_xboole\_0\ X0\ (k1\_tarski\ X1))) \wedge ((\neg X1 \in X2) \wedge (\neg r1\_tarski\ X2\ X0))$$