t63_zfmisc_1 (TMSupaNqbme-HzVJ291AMC4JNf7FF7EqXkKJ)

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

$$\forall X0.\forall X1.(r1\_xboole\_0\ X0\ X1) \Leftrightarrow (k4\_xboole\_0\ X0\ X1 = X0) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\neg(\neg X0 \in X1) \wedge ((\neg X2 \in X1) \wedge (\neg r1\_xboole\_0\ (k2\_tarski\ X0\ X2)\ X1)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\neg(r1\_xboole\_0\ (k2\_tarski\ X0\ X1)\ X2) \wedge (X0 \in X2) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.k2\_tarski\ X0\ X1 = k2\_tarski\ X1\ X0 \tag{4}$$

Theorem 1

$$\forall X0.\forall X1.\forall X2.(k4\_xboole\_0\ (k2\_tarski\ X0\ X1)\ X2 = k2\_tarski\ X0\ X1) \Leftrightarrow ((\neg X0 \in X2) \wedge (\neg X1 \in X2))$$