t12_ringcat1 (TMYi4BRckVsqTjcViB6DRRRpJqobH6crcFj)

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Let $v2\_ringcat1 : \iota \Rightarrow o$ be given. Let $v3\_ringcat1 : \iota \Rightarrow o$ be given. Let $l1\_ringcat1 : \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $v5\_ringcat1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\neg v1\_xboole\_0\ (k1\_tarski\ X0) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k1\_tarski\ X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow (X2 = X0)) \tag{2}$$

Assume the following.

$$\forall X0.(v5\_ringcat1\ X0) \Leftrightarrow (\forall X1.(X1 \in X0) \Rightarrow ((v2\_ringcat1\ X1) \wedge ((v3\_ringcat1\ X1) \wedge (l1\_ringcat1\ X1)))) \tag{3}$$

Theorem 1

$$\forall X0.((v2\_ringcat1\ X0) \wedge ((v3\_ringcat1\ X0) \wedge (l1\_ringcat1\ X0))) \Rightarrow ((\neg v1\_xboole\_0\ (k1\_tarski\ X0)) \wedge (v5\_ringcat1\ (k1\_tarski\ X0)))$$