

t37\_relat\_1  
(TMNib9sfEdmCRS4DkYg4zKk2id49wLaEko9)

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Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k4\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. (r1\_tarski X0 (k4\_xboole\_0 X1 X0)) \Rightarrow (X0 = k1\_xboole\_0) \quad (1)$$

Assume the following.

$$\forall X0. (v1\_relat\_1 X0) \Rightarrow (\forall X1. (r1\_tarski X0 X1) \Leftrightarrow (\forall X2. \forall X3. (k4\_tarski X2 X3 \in X0) \Rightarrow (k4\_tarski X2 X3 \in X1))) \quad (2)$$

**Theorem 1**

$$\forall X0. (v1\_relat\_1 X0) \Rightarrow ((\forall X1. \forall X2. \neg k4\_tarski X1 X2 \in X0) \Rightarrow (X0 = k1\_xboole\_0))$$