

t73\_funct\_1  
(TMRB7hjfL4qX9f7kpHLcVsdRmgFiBgnrFit)

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Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $k8\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k10\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. (v1\_relat\_1 X1) \Rightarrow ((X0 \in k10\_xtuple\_0 X1) \Leftrightarrow (k8\_relat\_1 X1 (k1\_tarski X0) \neq k1\_xboole\_0)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r1\_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (2)$$

**Theorem 1**

$$\forall X0. \forall X1. (v1\_relat\_1 X1) \Rightarrow ((\forall X2. \neg (X2 \in X0) \wedge (k8\_relat\_1 X1 (k1\_tarski X2) = k1\_xboole\_0)) \Rightarrow (r1\_tarski X0 (k10\_xtuple\_0 X1)))$$