

t149_relat_1
(TMKyGAMYq6X2PYTRtSP8cqvmgCmfAKz1FXQ)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v3_relat_1 : \iota \Rightarrow o$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \tag{1}$$

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.

$$\forall X0. (v1_relat_1 X0) \Rightarrow ((v3_relat_1 X0) \Leftrightarrow (r1_tarski (k10_xtuple_0 X0) (k1_tarski k1_xboole_0))) \tag{3}$$

Theorem 1

$$\forall X0. (v1_relat_1 X0) \Rightarrow ((v3_relat_1 X0) \Leftrightarrow (\forall X1. (X1 \in k10_xtuple_0 X0) \Rightarrow (X1 = k1_xboole_0)))$$