

t6_relset_2
(TMYxnCqygpt6n6bSdcE6pyQ7S4CYHv5iF6q)

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Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k10_eqrel_1 : \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (r1_tarski (k1_tarski X0) (k1_tarski X1)) \Rightarrow (X0 = X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (X0 \in k10_eqrel_1 X1) \Leftrightarrow (\exists X2. (X0 = k1_tarski X2) \wedge (X2 \in X1)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. r1_tarski X0 X0 \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (4)$$

Theorem 1

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (r1_tarski (k10_eqrel_1 X0) (k10_eqrel_1 X1))$$