

l10_numbers

(TMcj3BVzXw2GE5c7dkkWmririCU7YM7RnrM)

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Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. r1_tarski (k1_tarski X0) (k2_tarski X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski (k1_tarski X0) (k1_tarski X1)) \Rightarrow (X0 = X1) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. k4_tarski X0 X1 = k2_tarski (k2_tarski X0 X1) (k1_tarski X0) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. k2_tarski X0 X1 = k2_tarski X1 X0 \quad (4)$$

Theorem 1

$$\forall X0. \forall X1. \forall X2. (k4_tarski X0 X1 = k1_tarski X2) \Rightarrow ((X2 = k1_tarski X0) \wedge (X0 = X1))$$