

t62_scmyciel
(TMFafQf1TXe1nfUkS4q8z2yoegBPieGVzs4)

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Let $v4_scmyciel : \iota \Rightarrow o$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v9_scmyciel : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (r1_tarski (k2_tarski X0 X1) X2) \Leftrightarrow ((X0 \in X2) \wedge (X1 \in X2)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (X2 = k2_tarski X0 X1) \Leftrightarrow (\forall X3. (X3 \in X2) \Leftrightarrow ((X3 = X0) \vee (X3 = X1))) \quad (3)$$

Assume the following.

$$\forall X0. (v4_scmyciel X0) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k3_tarski X0))) \Rightarrow ((v9_scmyciel X1 X0) \Leftrightarrow (\forall X2. \forall X3. \neg (X2 \neq X3) \wedge ((X2 \in X1) \wedge ((X3 \in X1) \wedge (k2_tarski X2 X3 \in X0)))))) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. k2_tarski X0 X1 = k2_tarski X1 X0 \quad (5)$$

Theorem 1

$$\forall X0. (v4_scmyciel X0) \Rightarrow (\forall X1. \forall X2. ((X1 \in k3_tarski X0) \wedge (X2 \in k3_tarski X0)) \Rightarrow ((k2_tarski X1 X2 \in X0) \vee ((v9_scmyciel (k2_tarski X1 X2) X0) \wedge (m1_subset_1 (k2_tarski X1 X2) (k1_zfmisc_1 (k3_tarski X0))))))$$