

t56_scmyciel

(TMQo9irpsQxH9SinbSBokgPgryqk387Gexc)

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Let $v4_scmyciel : \iota \Rightarrow o$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_scmyciel : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v5_scmyciel : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Let $k5_scmyciel : \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $m1_scmyciel : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. \neg (X0 \in X1) \wedge (v1_xboole_0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((X0 \in X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X2))) \Rightarrow (m1_subset_1 X0 X2) \quad (2)$$

Assume the following.

$$\forall X0. (v4_scmyciel X0) \Rightarrow ((\forall X1. \forall X2. ((X1 \in k3_tarski X0) \wedge (X2 \in k3_tarski X0)) \Rightarrow (k2_tarski X1 X2 \in X0)) \Rightarrow (X0 = k5_scmyciel (k3_tarski X0))) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 X1) \Rightarrow ((v1_xboole_0 X1) \vee (X0 \in X1)) \quad (4)$$

Assume the following.

$$\forall X0. k2_tarski X0 X0 = k1_tarski X0 \quad (5)$$

Assume the following.

$$\forall X0. (v4_scmyciel X0) \Rightarrow (\forall X1. (X1 \in k3_tarski X0) \Leftrightarrow (k1_tarski X1 \in X0)) \quad (6)$$

Assume the following.

$$\forall X0. (v4_scmyciel X0) \Rightarrow (\forall X1. \forall X2. \forall X3. ((X2 \in X1) \wedge ((X3 \in X1) \wedge (k2_tarski X2 X3 \in X0))) \Rightarrow (k2_tarski X2 X3 \in k7_scmyciel X0 X1)) \quad (7)$$

Assume the following.

$$\forall X0.(v4_scmyciel X0) \Rightarrow (\forall X1.\forall X2.(X2 \in k3_tarski (k7_scmyciel X0 X1)) \Rightarrow (X2 \in X1)) \quad (8)$$

Assume the following.

$$\forall X0.v5_scmyciel (k5_scmyciel X0) \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.(v4_scmyciel X0) \Rightarrow (v4_scmyciel (k7_scmyciel X0 X1)) \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.(m1_scmyciel X1 X0) \Rightarrow (v4_scmyciel X1) \quad (11)$$

Assume the following.

$$\forall X0.\forall X1.(v4_scmyciel X0) \Rightarrow (m1_subset_1 (k7_scmyciel X0 X1) (k1_zfmisc_1 X0)) \quad (12)$$

Assume the following.

$$\forall X0.m1_scmyciel (k5_scmyciel X0) X0 \quad (13)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(X2 = k2_tarski X0 X1) \Leftrightarrow (\forall X3.(X3 \in X2) \Leftrightarrow ((X3 = X0) \vee (X3 = X1))) \quad (14)$$

Assume the following.

$$\forall X0.\forall X1.k2_tarski X0 X1 = k2_tarski X1 X0 \quad (15)$$

Theorem 1

$$\forall X0.(v4_scmyciel X0) \Rightarrow (\forall X1.\forall X2.(k2_tarski X1 X2 \in X0) \Rightarrow ((v4_scmyciel (k7_scmyciel X0 (k2_tarski X1 X2))) \wedge (v5_scmyciel (k7_scmyciel X0 (k2_tarski X1 X2))) \wedge (m1_subset_1 (k7_scmyciel X0 (k2_tarski X1 X2)) (k1_zfmisc_1 X0))))$$