

t72_scmyciel (TMLj- MUu2EAWvf6mQ3tpeBmrEmbs34ENT7nE)

October 27, 2020

Let $v4_scmyciel : \iota \Rightarrow o$ 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 $v9_scmyciel : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Let $k6_scmyciel : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_scmyciel : \iota \Rightarrow \iota$ be given. Let $k6_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_scmyciel : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Rightarrow (r1_tarski (k3_tarski X0) (k3_tarski X1)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \neg (X0 \in X1) \wedge ((m1_subset_1 X1 (k1_zfmisc_1 X2)) \wedge (v1_xboole_0 X2)) \quad (2)$$

Assume the following.

$$\forall X0. ((v4_scmyciel X0) \wedge (v5_scmyciel X0)) \Rightarrow (\forall X1. \forall X2. ((X1 \in k3_tarski X0) \wedge (X2 \in k3_tarski X0)) \Rightarrow (k2_tarski X1 X2 \in X0)) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((X0 \in X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X2))) \Rightarrow (m1_subset_1 X0 X2) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 X1) \Rightarrow ((v1_xboole_0 X1) \vee (X0 \in X1)) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(k2_tarski\ X1\ X2 \in X0) \Rightarrow ((X1 = X2) \vee (k2_tarski\ X1\ X2 \in k1_scmyciel\ X0)) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.k6_subset_1\ X0\ X1 = k4_xboole_0\ X0\ X1 \quad (8)$$

Assume the following.

$$\forall X0.(v4_scmyciel\ X0) \Rightarrow (k3_tarski\ X0 = k3_tarski\ (k6_subset_1\ (k5_scmyciel\ (k3_tarski\ X0))\ (k1_scmyciel\ X0))) \quad (9)$$

Assume the following.

$$\forall X0.(v4_scmyciel\ X0) \Rightarrow (v4_scmyciel\ (k6_scmyciel\ X0)) \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(X2 = k4_xboole_0\ X0\ X1) \Leftrightarrow (\forall X3.(X3 \in X2) \Leftrightarrow ((X3 \in X0) \wedge (\neg X3 \in X1))) \quad (11)$$

Assume the following.

$$\forall X0.(v4_scmyciel\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1\ (k3_tarski\ X0))) \Rightarrow ((v9_scmyciel\ X1\ X0) \Leftrightarrow (\forall X2.\forall X3.\neg(X2 \neq X3) \wedge ((X2 \in X1) \wedge ((X3 \in X1) \wedge (k2_tarski\ X2\ X3 \in X0)))))) \quad (12)$$

Assume the following.

$$\forall X0.(v4_scmyciel\ X0) \Rightarrow (k6_scmyciel\ X0 = k6_subset_1\ (k5_scmyciel\ (k3_tarski\ X0))\ (k1_scmyciel\ X0)) \quad (13)$$

Theorem 1

$$\forall X0.(v4_scmyciel\ X0) \Rightarrow (\forall X1.((v4_scmyciel\ X1) \wedge (v5_scmyciel\ X1) \wedge (m1_subset_1\ X1\ (k1_zfmisc_1\ X0))) \Rightarrow ((v9_scmyciel\ (k3_tarski\ X1)\ (k6_scmyciel\ X0)) \wedge (m1_subset_1\ (k3_tarski\ X1)\ (k1_zfmisc_1\ (k3_tarski\ (k6_scmyciel\ X0))))))$$