

l54_scmyciel

(TMZovyPQ1foFcidmAYnL77ARtiHJcogkqUp)

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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 $k1_scmyciel : \iota \Rightarrow \iota$ be given. Let $k6_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_scmyciel : \iota \Rightarrow \iota$ 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 $k4_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.\neg(X0 \in X1) \wedge ((m1_subset_1 X1 (k1_zfmisc_1 X2)) \wedge (v1_xboole_0 X2)) \quad (1)$$

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.

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

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.

$$\forall X0.\forall X1.\forall X2.(k2_tarski X1 X2 \in X0) \Rightarrow ((X1 = X2) \vee (k2_tarski X1 X2 \in k1_scmyciel X0)) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.k6_subset_1 X0 X1 = k4_xboole_0 X0 X1 \quad (6)$$

Assume the following.

$$\forall X0.m1_subset_1 (k1_scmyciel X0) (k1_zfmisc_1 X0) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(X2 = k4_xboole_0 X0 X1) \Leftrightarrow (\forall X3.(X3 \in X2) \Leftrightarrow ((X3 \in X0) \wedge (\neg X3 \in X1))) \quad (8)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v4_scmyciel X0) \Rightarrow (\forall X1.\forall X2.((X1 \in k3_tarski \\ X0) \wedge (X2 \in k3_tarski X0)) \Rightarrow ((X1 = X2) \vee ((k2_tarski X1 X2 \in k1_scmyciel \\ X0) \Leftrightarrow (\neg k2_tarski X1 X2 \in k1_scmyciel (k6_subset_1 (k5_scmyciel \\ (k3_tarski X0) (k1_scmyciel X0))))))) \end{aligned}$$