

t51_scmyciel

(TMJ4dzMuRTTqKqeAJozxYaL2J4XSZR5zBHx)

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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 $k2_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ 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 $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_scmyciel : \iota \Rightarrow \iota$ be given. Let $v1_classes1 : \iota \Rightarrow o$ be given. Let $m1_scmyciel : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3_scmyciel : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Assume the following.

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

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. k5_scmyciel (k2_tarski X0 X1) = k2_enumset1 k1_xboole_0 (k1_tarski X0) (k1_tarski X1) (k2_tarski X0 X1) \quad (3)$$

Assume the following.

$$\forall X0. (v4_scmyciel X0) \Rightarrow (\forall X1. (X1 \in k3_tarski X0) \Leftrightarrow (k1_tarski X1 \in X0)) \quad (4)$$

Assume the following.

$$\forall X0. ((\neg v1_xboole_0 X0) \wedge (v1_classes1 X0)) \Rightarrow (k1_xboole_0 \in X0) \quad (5)$$

Assume the following.

$$\forall X0. v5_scmyciel (k5_scmyciel X0) \quad (6)$$

Assume the following.

$$\forall X0. \forall X1. (m1_scmyciel X1 X0) \Rightarrow (v4_scmyciel X1) \quad (7)$$

Assume the following.

$$\forall X0.m1_scmyciel (k5_scmyciel X0) X0 \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.(r1_tarSKI X0 X1)\Leftrightarrow(\forall X2.(X2 \in X0)\Rightarrow (X2 \in X1)) \quad (9)$$

Assume the following.

$$k1_xboole_0 = the (\lambda X0 : \iota.v1_xboole_0 X0) \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.(X4 = k2_enumset1 X0 X1 X2 X3)\Leftrightarrow(\forall X5.(X5 \in X4)\Leftrightarrow(\neg(X5 \neq X0)\wedge((X5 \neq X1)\wedge((X5 \neq X2)\wedge (X5 \neq X3)))))) \quad (11)$$

Assume the following.

$$\forall X0.(v4_scmyciel X0)\Rightarrow((\neg v1_xboole_0 X0)\wedge((v1_classes1 X0)\wedge(v3_scmyciel X0 np_1))) \quad (12)$$

Theorem 1

$$\forall X0.(v4_scmyciel X0)\Rightarrow(\forall X1.\forall X2.((X1 \in k3_tarSKI X0)\wedge((X2 \in k3_tarSKI X0)\wedge(k2_tarSKI X1 X2 \in X0)))\Rightarrow((v4_scmyciel (k2_enumset1 k1_xboole_0 (k1_tarSKI X1) (k1_tarSKI X2) (k2_tarSKI X1 X2)))\wedge((v5_scmyciel (k2_enumset1 k1_xboole_0 (k1_tarSKI X1) (k1_tarSKI X2) (k2_tarSKI X1 X2)))\wedge(m1_subset_1 (k2_enumset1 k1_xboole_0 (k1_tarSKI X1) (k1_tarSKI X2) (k2_tarSKI X1 X2)) (k1_zfmisc_1 X0))))))$$