

t106_scmyciel (TMTLhAxjvmHawRMDANodihb- Dieco9iAVA2e)

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Let $v4_scmyciel : \iota \Rightarrow o$ be given. Let $v6_scmyciel : \iota \Rightarrow o$ be given. Let $k8_scmyciel : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ 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 $k12_scmyciel : \iota \Rightarrow \iota$ be given. Let $r1_xreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_scmyciel : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $v1_scmyciel : \iota \Rightarrow o$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $k5_card_1 : \iota \Rightarrow \iota$ be given. Let $v5_finset_1 : \iota \Rightarrow o$ be given. Let $v2_finsub_1 : \iota \Rightarrow o$ be given. Let $v1_setfam_1 : \iota \Rightarrow o$ be given. Let $v1_classes1 : \iota \Rightarrow o$ be given. Let $v3_scmyciel : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v1_scmyciel X0) \wedge (v4_scmyciel X0)) \Rightarrow (k12_scmyciel X0 = k2_tarski k1_xboole_0 (k1_tarski (k3_tarski X0))) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Rightarrow (r1_tarski (k3_tarski X0) (k3_tarski X1)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. k3_tarski (k2_tarski X0 X1) = k2_xboole_0 X0 X1 \quad (3)$$

Assume the following.

$$\forall X0. (v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (4)$$

Assume the following.

$$\forall X0. ((v4_scmyciel X0) \wedge (v6_scmyciel X0)) \Rightarrow ((k8_scmyciel X0 = k6_numbers) \Rightarrow (k3_tarski X0 = k1_xboole_0)) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X0 (k1_zfmisc_1 X1))\Leftrightarrow(r1_tarski X0 X1) \quad (6)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0)\Rightarrow(\forall X1.(v7_ordinal1 X1)\Rightarrow((r1_xreal_0 X0 X1)\Leftrightarrow(r1_ordinal1 X0 X1))) \quad (7)$$

Assume the following.

$$\forall X0.k1_card_1 (k1_tarski X0) = np_1 \quad (8)$$

Assume the following.

$$\forall X0.(v4_scmyciel X0)\Rightarrow((k3_tarski X0 = k1_xboole_0)\Rightarrow(v1_scmyciel X0)) \quad (9)$$

Assume the following.

$$\forall X0.k2_xboole_0 X0 k1_xboole_0 = X0 \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.(r1_tarski X0 X1)\Rightarrow(r1_ordinal1 (k1_card_1 X0) (k1_card_1 X1)) \quad (11)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (12)$$

Assume the following.

$$\forall X0.(v1_finset_1 X0)\Rightarrow(k5_card_1 X0 = k1_card_1 X0) \quad (13)$$

Assume the following.

$$\exists X0.(\neg v1_xboole_0 X0)\wedge((v5_finset_1 X0)\wedge((v2_finsub_1 X0)\wedge((\neg v1_setfam_1 X0)\wedge((v1_classes1 X0)\wedge((v1_scmyciel X0)\wedge((v3_scmyciel X0 np_1)\wedge(v4_scmyciel X0))))))) \quad (14)$$

Assume the following.

$$\forall X0.(v1_scmyciel X0)\Rightarrow(v1_xboole_0 (k3_tarski X0)) \quad (15)$$

Assume the following.

$$\forall X0.((v1_finset_1 X0)\wedge(v5_finset_1 X0))\Rightarrow(v1_finset_1 (k3_tarski X0)) \quad (16)$$

Assume the following.

$$\forall X0.\forall X1.((v1_finset_1 X0)\wedge(v1_finset_1 X1))\Rightarrow(v5_finset_1 (k2_tarski X0 X1)) \quad (17)$$

Assume the following.

$$\forall X0.\forall X1.v1_finset_1 (k2_tarski X0 X1) \quad (18)$$

Assume the following.

$$\forall X0.v1_finset_1 (k1_tarski X0) \quad (19)$$

Assume the following.

$$\forall X0.((v1_finset_1 X0)\wedge(v5_finset_1 X0))\Rightarrow(v7_ordinal1 (k2_scmyciel X0)) \quad (20)$$

Assume the following.

$$\forall X0.((v1_finset_1 X0)\wedge(v5_finset_1 X0))\Rightarrow(k2_scmyciel X0 = k5_card_1 (k3_tarski X0)) \quad (21)$$

Assume the following.

$$\forall X0.\forall X1.k2_tarski X0 X1 = k2_tarski X1 X0 \quad (22)$$

Assume the following.

$$\forall X0.(v4_scmyciel X0)\Rightarrow((\neg v1_xboole_0 X0)\wedge((v1_classes1 X0)\wedge(v3_scmyciel X0 np_1))) \quad (23)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0)\Rightarrow(\forall X1.(v3_scmyciel X1 X0)\Rightarrow(v5_finset_1 X1)) \quad (24)$$

Assume the following.

$$\forall X0.(v1_scmyciel X0)\Rightarrow(v1_finset_1 X0) \quad (25)$$

Theorem 1

$$\forall X0.((v4_scmyciel X0)\wedge(v6_scmyciel X0))\Rightarrow((k8_scmyciel X0 = k6_numbers)\Rightarrow(\forall X1.((v1_finset_1 X1)\wedge((v4_scmyciel X1)\wedge((v5_scmyciel X1)\wedge(m1_subset_1 X1 (k1_zfmisc_1 (k12_scmyciel X0))))))\Rightarrow(r1_xreal_0 (k2_scmyciel X1) np_1))))$$