

l25_scmyciel
(TMUNespX6hr3GiMBa5ffW23SPaxY1LnEf7F)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v3_scmyciel : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $r1_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_ordinal1 : \iota \Rightarrow \iota$ be given. Let $k1_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow ((X0 \neq k1_xboole_0) \Rightarrow (k1_xboole_0 \in X0)) \quad (1)$$

Assume the following.

$$np_1 = k1_tarski k1_xboole_0 \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(v7_ordinal1 X1) \Rightarrow ((X0 \in X1) \Rightarrow (v7_ordinal1 X0)) \quad (3)$$

Assume the following.

$$\forall X0.r1_tarski k1_xboole_0 X0 \quad (4)$$

Assume the following.

$$k1_card_1 k1_xboole_0 = k1_xboole_0 \quad (5)$$

Assume the following.

$$np_1 = k1_tarski k1_xboole_0 \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.((v3_ordinal1 X0) \wedge (v3_ordinal1 X1)) \Rightarrow (r1_ordinal1 X0 X1) \Leftrightarrow (r1_tarski X0 X1) \quad (7)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (8)$$

Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow ((\neg v1_xboole_0 (k1_ordinal1 X0)) \wedge (v3_ordinal1 (k1_ordinal1 X0))) \quad (9)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v3_scmyciel X1 X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Rightarrow (r1_ordinal1 (k1_card_1 X2) (k1_nat_1 X0 np_1)))) \quad (10)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (k1_ordinal1 X0 = k1_nat_1 X0 np_1) \quad (11)$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k1_tarski X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow (X2 = X0)) \quad (12)$$

Assume the following.

$$\forall X0.k1_ordinal1 X0 = k2_xboole_0 X0 (k1_tarski X0) \quad (13)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow ((v3_ordinal1 X0) \wedge (v7_ordinal1 X0)) \quad (14)$$

Theorem 1 $\forall X0.(v7_ordinal1 X0) \Rightarrow (v3_scmyciel (k1_tarski k1_xboole_0) X0).$