

t64_classes2
(TMNXz68yKdyUiEWgNtQVsjhEMoSjX8h8851)

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Let $k13_classes2 : \iota$ be given. Let $k4_classes1 : \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v2_classes1 : \iota \Rightarrow o$ 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 $v1_classes2 : \iota \Rightarrow o$ be given. Let $k2_ordinal1 : \iota \Rightarrow \iota$ be given. Let $v4_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_classes1 : \iota \Rightarrow \iota$ be given. Let $r1_classes1 : \iota \Rightarrow \iota \Rightarrow o$ 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.

$$v2_classes1 (k4_classes1 k4_ordinal1) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\neg(X0 \in X1) \wedge ((m1_subset_1 X1 (k1_zfmisc_1 X2)) \wedge (v1_xboole_0 X2)) \quad (3)$$

Assume the following.

$$\forall X0.((\neg v1_xboole_0 X0) \wedge (v1_classes2 X0)) \Rightarrow ((k2_ordinal1 X0 \neq k1_xboole_0) \wedge (v4_ordinal1 (k2_ordinal1 X0))) \quad (4)$$

Assume the following.

$$\forall X0.((\neg v1_xboole_0 X0) \wedge (v1_classes2 X0)) \Rightarrow (X0 = k4_classes1 (k2_ordinal1 X0)) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((X0 \in X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X2))) \Rightarrow (m1_subset_1 X0 X2) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X0 (k1_zfmisc_1 X1))\Leftrightarrow(r1_tarski X0 X1) \quad (7)$$

Assume the following.

$$\forall X0.(v3_ordinal1 X0)\Rightarrow(r1_tarski X0 (k4_classes1 X0)) \quad (8)$$

Assume the following.

$$\forall X0.(v3_ordinal1 X0)\Rightarrow(\forall X1.(v3_ordinal1 X1)\Rightarrow((r1_ordinal1 X0 X1)\Leftrightarrow(r1_tarski (k4_classes1 X0) (k4_classes1 X1)))) \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X0 X1)\Rightarrow((v1_xboole_0 X1)\vee (X0 \in X1)) \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.((v3_ordinal1 X0)\wedge(v3_ordinal1 X1))\Rightarrow((r1_ordinal1 X0 X1)\Leftrightarrow(r1_tarski X0 X1)) \quad (11)$$

Assume the following.

$$\forall X0.((\neg v1_xboole_0 X0)\wedge(v1_classes2 X0))\Rightarrow(v3_ordinal1 (k2_ordinal1 X0)) \quad (12)$$

Assume the following.

$$(\neg v1_xboole_0 k13_classes2)\wedge(v1_classes2 k13_classes2) \quad (13)$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k1_classes1 X0)\Leftrightarrow((r1_classes1 X0 X1)\wedge (\forall X2.(r1_classes1 X0 X2)\Rightarrow(r1_tarski X1 X2))) \quad (14)$$

Assume the following.

$$\forall X0.\forall X1.(r1_classes1 X0 X1)\Leftrightarrow((X0 \in X1)\wedge(v2_classes1 X1)) \quad (15)$$

Assume the following.

$$k13_classes2 = k1_classes1 k1_xboole_0 \quad (16)$$

Assume the following.

$$\forall X0.(X0 = k4_ordinal1)\Leftrightarrow((k1_xboole_0 \in X0)\wedge((v4_ordinal1 X0)\wedge((v3_ordinal1 X0)\wedge(\forall X1.(v3_ordinal1 X1)\Rightarrow(((k1_xboole_0 \in X1)\wedge(v4_ordinal1 X1))\Rightarrow(r1_tarski X0 X1)))))) \quad (17)$$

Assume the following.

$$\forall X0.\forall X1.(X0 = X1)\Leftrightarrow((r1_tarski X0 X1)\wedge(r1_tarski X1 X0)) \quad (18)$$

Theorem 1 $k13_classes2 = k4_classes1 k4_ordinal1$.