

t62_classes1

(TMVwi7PRDeBYxfCh8NKhy52VXdpVJU1f6hF)

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Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_classes1 : \iota \Rightarrow \iota$ 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 $k5_classes1 : \iota \Rightarrow \iota$ be given. Let $v1_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_classes1 : \iota \Rightarrow \iota$ 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.

$$\forall X0.r1_tarski X0 (k5_classes1 X0) \quad (2)$$

Assume the following.

$$\forall X0.v1_ordinal1 (k5_classes1 X0) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((X0 \in X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X2))) \Rightarrow (m1_subset_1 X0 X2) \quad (4)$$

Assume the following.

$$\forall X0.\neg(v1_ordinal1 X0) \wedge (\forall X1.(v3_ordinal1 X1) \Rightarrow (\neg r1_tarski (k1_classes1 X0) (k4_classes1 X1))) \quad (5)$$

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.

$$\forall X0.\forall X1.\forall X2.((X0 \in k1_classes1 X1) \wedge (r1_tarski X2 X0)) \Rightarrow (X2 \in k1_classes1 X1) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X0 X1)\Rightarrow((v1_xboole_0 X1)\vee (X0 \in X1)) \quad (8)$$

Assume the following.

$$\forall X0.X0 \in k1_classes1 X0 \quad (9)$$

Assume the following.

$$\forall X0.(v3_ordinal1 X0)\Rightarrow(v1_ordinal1 (k4_classes1 X0)) \quad (10)$$

Assume the following.

$$\forall X0.(v1_ordinal1 X0)\Leftrightarrow(\forall X1.(X1 \in X0)\Rightarrow(r1_tarski X1 X0)) \quad (11)$$

Theorem 1

$$\forall X0.\exists X1.(v3_ordinal1 X1)\wedge(r1_tarski X0 (k4_classes1 X1))$$