

t73_classes1

(TMYb1J11UGKu1KqicZtExoQ5fG3L3VToMob)

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Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $k6_classes1 : \iota \Rightarrow \iota$ be given. Let $r1_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_classes1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (v3_ordinal1 X1) \Rightarrow ((r1_ordinal1 X1 (k6_classes1 X0)) \Leftrightarrow (\forall X2. (v3_ordinal1 X2) \Rightarrow (\neg(X2 \in X1) \wedge (\forall X3. \neg(X3 \in X0) \wedge (r1_ordinal1 X2 (k6_classes1 X3))))))) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (v3_ordinal1 X1) \Rightarrow ((r1_tarski X0 (k4_classes1 X1)) \Leftrightarrow (r1_ordinal1 (k6_classes1 X0) X1)) \quad (2)$$

Assume the following.

$$\forall X0. (v3_ordinal1 X0) \Rightarrow (r1_tarski X0 (k4_classes1 X0)) \quad (3)$$

Assume the following.

$$\forall X0 : \iota \Rightarrow o. (\forall X1. (v3_ordinal1 X1) \Rightarrow ((\forall X2. (v3_ordinal1 X2) \Rightarrow ((X2 \in X1) \Rightarrow (X0 X2))) \Rightarrow (X0 X1))) \Rightarrow (\forall X1. (v3_ordinal1 X1) \Rightarrow (X0 X1)) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. ((v3_ordinal1 X0) \wedge (v3_ordinal1 X1)) \Rightarrow ((r1_ordinal1 X0 X1) \Leftrightarrow (r1_tarski X0 X1)) \quad (5)$$

Assume the following.

$$\forall X0. v3_ordinal1 (k6_classes1 X0) \quad (6)$$

Assume the following.

$$\forall X0. \forall X1. (X0 = X1) \Leftrightarrow ((r1_tarski X0 X1) \wedge (r1_tarski X1 X0)) \quad (7)$$

Theorem 1 $\forall X0. (v3_ordinal1 X0) \Rightarrow (k6_classes1 X0 = X0)$.