

t66_ordinal6
(TMdUj8HEid2xU8DknES9JXt3vMNdqVjjzig)

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Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_classes1 : \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_classes1 : \iota \Rightarrow o$ be given. Let $v1_classes1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. r1_tarski X0 (k2_xboole_0 X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. X0 \in k1_classes1 X0 \quad (2)$$

Assume the following.

$$\forall X0. v2_classes1 (k1_classes1 X0) \quad (3)$$

Assume the following.

$$\forall X0. (v1_classes1 X0) \Leftrightarrow (\forall X1. \forall X2. ((X1 \in X0) \wedge (r1_tarski X2 X1)) \Rightarrow (X2 \in X0)) \quad (4)$$

Assume the following.

$$\forall X0. (v2_classes1 X0) \Rightarrow (v1_classes1 X0) \quad (5)$$

Theorem 1

$$\forall X0. (v3_ordinal1 X0) \Rightarrow (\forall X1. (v3_ordinal1 X1) \Rightarrow (\forall X2. (v3_ordinal1 X2) \Rightarrow (X0 \in k1_classes1 (k2_xboole_0 (k2_xboole_0 X0 X1) X2))))))$$