

t34_classes2
(TMcu2FJZcbdCqg3ZzHCJ5dnryatytfNWPq1)

October 27, 2020

Let $v2_classes1 : \iota \Rightarrow o$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $k4_classes1 : \iota \Rightarrow \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_card_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow (r1_tarski X0 (k4_classes1 X0)) \quad (1)$$

Assume the following.

$$\forall X0.(v2_classes1 X0) \Rightarrow (r1_tarski (k4_classes1 (k1_card_1 X0)) X0) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(r1_tarski X0 X1) \Rightarrow (r1_ordinal1 (k1_card_1 X0) (k1_card_1 X1)) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.((v3_ordinal1 X0) \wedge (v3_ordinal1 X1)) \Rightarrow (r1_ordinal1 X0 X1) \Leftrightarrow (r1_tarski X0 X1) \quad (4)$$

Assume the following.

$$\forall X0.k1_card_1 (k1_card_1 X0) = k1_card_1 X0 \quad (5)$$

Assume the following.

$$\forall X0.v1_card_1 (k1_card_1 X0) \quad (6)$$

Assume the following.

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

Assume the following.

$$\forall X0.(v1_card_1 X0) \Rightarrow (v3_ordinal1 X0) \quad (8)$$

Theorem 1

$$\forall X0.(v2_classes1 X0) \Rightarrow (k1_card_1 X0 = k1_card_1 (k4_classes1 (k1_card_1 X0)))$$