

t32_card_fil

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Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $v4_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_ordinal2 : \iota \Rightarrow \iota$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Let $k1_ordinal1 : \iota \Rightarrow \iota$ be given. Let $k2_ordinal1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Rightarrow (r1_tarski (k3_tarski X0) (k3_tarski X1)) \quad (1)$$

Assume the following.

$$\forall X0. r1_tarski (k3_ordinal2 X0) (k1_ordinal1 (k3_tarski (k2_ordinal1 X0))) \quad (2)$$

Assume the following.

$$\forall X0. (v3_ordinal1 X0) \Rightarrow (\forall X1. (r1_tarski X1 X0) \Rightarrow (k2_ordinal1 X1 = X1)) \quad (3)$$

Assume the following.

$$\forall X0. (v3_ordinal1 X0) \Rightarrow (\forall X1. (r1_tarski X1 X0) \Rightarrow (v3_ordinal1 (k3_tarski X1))) \quad (4)$$

Assume the following.

$$\forall X0. (v3_ordinal1 X0) \Rightarrow (k3_tarski (k1_ordinal1 X0) = X0) \quad (5)$$

Assume the following.

$$\forall X0. (v4_ordinal1 X0) \Leftrightarrow (X0 = k3_tarski X0) \quad (6)$$

Assume the following.

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

Theorem 1

$$\forall X0. ((v3_ordinal1 X0) \wedge (v4_ordinal1 X0)) \Rightarrow (\forall X1. ((r1_tarski X1 X0) \wedge (k3_ordinal2 X1 = X0)) \Rightarrow (k3_tarski X1 = X0))$$