

t16_topgen_3
(TMV2nbob8yNDTYLKUL5qjbrsa4qNSc4Pma9)

October 27, 2020

Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $k4_numbers : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $r2_wellord2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r2_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k6_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (r2_wellord2 X0 X1) \Leftrightarrow (k1_card_1 X0 = k1_card_1 X1) \quad (1)$$

Assume the following.

$$k1_card_1 k4_ordinal1 = k4_ordinal1 \quad (2)$$

Assume the following.

$$r2_tarski k5_numbers k4_numbers \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (r2_wellord2 X0 X1) \Leftrightarrow (r2_tarski X0 X1) \quad (4)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (5)$$

Assume the following.

$$k4_numbers = k6_subset_1 (k2_xboole_0 k4_ordinal1 (k2_zfmisc_1 (k1_tarski k1_xboole_0) k4_ordinal1)) (k1_tarski (k4_tarski k1_xboole_0 k1_xboole_0)) \quad (6)$$

Theorem 1 $k1_card_1 k4_numbers = k4_ordinal1$.