

t17_topgen_3
(TMHzgYDm8Cf5rvzfxfZVhkDKW28HRp6Z8L)

October 27, 2020

Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $k3_numbers : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $r2_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $r2_wellord2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $c1_topgen_1 : \iota$ be given. Assume the following.

$$r2_tarski\ k5_numbers\ k3_numbers \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(r2_wellord2\ X0\ X1) \Leftrightarrow (k1_card_1\ X0 = k1_card_1\ X1) \tag{2}$$

Assume the following.

$$k1_card_1\ k4_ordinal1 = k4_ordinal1 \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.(r2_wellord2\ X0\ X1) \Leftrightarrow (r2_tarski\ X0\ X1) \tag{4}$$

Assume the following.

$$k5_numbers = k4_ordinal1 \tag{5}$$

Assume the following.

$$c1_topgen_1 = k3_numbers \tag{6}$$

Theorem 1 $k1_card_1\ k3_numbers = k4_ordinal1$.