

t8_pralg_1

(TMK9SmqNrB2gC9uZkGLrnCRAN9UrxjjUHzU)

October 27, 2020

Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k19_margrel1 : \iota \Rightarrow \iota$ be given. Let $k7_pralg_1 : \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $v2_margrel1 : \iota \Rightarrow o$ be given. Let $k18_margrel1 : \iota \Rightarrow \iota$ be given. Let $k2_finseq_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v3_card_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v3_margrel1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_finseq_2 : \iota \Rightarrow \iota$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Assume the following.

$$\forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow (k3_finseq_1 X0 = k1_card_1 X0) \quad (1)$$

Assume the following.

$$\forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v2_margrel1 X0))) \Rightarrow (k19_margrel1 X0 = k18_margrel1 X0) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (v7_ordinal1 X0) \Rightarrow ((v1_relat_1 (k2_finseq_2 X0 X1)) \wedge ((v1_funct_1 (k2_finseq_2 X0 X1)) \wedge ((v3_card_1 (k2_finseq_2 X0 X1) X0) \wedge (v1_finseq_1 (k2_finseq_2 X0 X1)))))) \quad (3)$$

Assume the following.

$$\forall X0. (v7_ordinal1 X0) \Rightarrow ((v1_funct_1 (k7_pralg_1 X0)) \wedge (\neg v1_xboole_0 (k7_pralg_1 X0)) \wedge ((v2_margrel1 (k7_pralg_1 X0)) \wedge (v3_margrel1 (k7_pralg_1 X0) (k1_tarski k1_xboole_0)))) \quad (4)$$

Assume the following.

$$\forall X0. (v7_ordinal1 X0) \Rightarrow ((v1_funct_1 (k7_pralg_1 X0)) \wedge (m1_subset_1 (k7_pralg_1 X0) (k1_zfmisc_1 (k2_zfmisc_1 (k3_finseq_2 (k1_tarski k1_xboole_0)) (k1_tarski k1_xboole_0)))))) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(v7_ordinal1\ X0)\Rightarrow((v1_relat_1\ (k2_finseq_2\ X0\ X1))\wedge((v1_funct_1\ (k2_finseq_2\ X0\ X1))\wedge(v1_finseq_1\ (k2_finseq_2\ X0\ X1)))) \quad (6)$$

Assume the following.

$$\forall X0.((v1_relat_1\ X0)\wedge(v2_margrel1\ X0))\Rightarrow(v7_ordinal1\ (k18_margrel1\ X0)) \quad (7)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0)\Rightarrow(\forall X1.((v1_funct_1\ X1)\wedge(m1_subset_1\ X1\ (k1_zfmisc_1\ (k2_zfmisc_1\ (k3_finseq_2\ (k1_tarski\ k1_xboole_0))\ (k1_tarski\ k1_xboole_0))))))\Rightarrow((X1 = k7_pralg_1\ X0)\Leftrightarrow((k9_xtuple_0\ X1 = k1_tarski\ (k2_finseq_2\ X0\ k1_xboole_0))\wedge(k10_xtuple_0\ X1 = k1_tarski\ k1_xboole_0)))) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.(v3_card_1\ X1\ X0)\Leftrightarrow(k1_card_1\ X1 = X0) \quad (9)$$

Assume the following.

$$\forall X0.((v1_relat_1\ X0)\wedge(v2_margrel1\ X0))\Rightarrow(\forall X1.(v7_ordinal1\ X1)\Rightarrow(((\exists X2.((v1_relat_1\ X2)\wedge((v1_funct_1\ X2)\wedge(v1_finseq_1\ X2))))\wedge(X2 \in k9_xtuple_0\ X0))\Rightarrow((X1 = k18_margrel1\ X0)\Leftrightarrow(\forall X2.((v1_relat_1\ X2)\wedge((v1_funct_1\ X2)\wedge(v1_finseq_1\ X2))))\Rightarrow((X2 \in k9_xtuple_0\ X0)\Rightarrow(X1 = k3_finseq_1\ X2))))))\wedge((\forall X2.((v1_relat_1\ X2)\wedge((v1_funct_1\ X2)\wedge(v1_finseq_1\ X2)))\Rightarrow(\neg X2 \in k9_xtuple_0\ X0))\Rightarrow((X1 = k18_margrel1\ X0)\Leftrightarrow(X1 = k6_numbers)))) \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k1_tarski\ X0)\Leftrightarrow(\forall X2.(X2 \in X1)\Leftrightarrow(X2 = X0)) \quad (11)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset_1\ X2\ (k1_zfmisc_1\ (k2_zfmisc_1\ X0\ X1)))\Rightarrow(v1_relat_1\ X2) \quad (12)$$

Theorem 1 $\forall X0.(v7_ordinal1\ X0)\Rightarrow(k19_margrel1\ (k7_pralg_1\ X0) = X0)$.