

t5_card_lar
(TMS8MT4g3op8qaN4LQQTqfUGvNmaAhHyLgz)

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Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $v4_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k3_ordinal2 : \iota \Rightarrow \iota$ be given. Let $k8_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_card_lar : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v3_ordinal1 X0) \wedge ((v4_ordinal1 X0) \wedge (\neg v1_finset_1 \\ & X0))) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow ((\neg(\neg v1_card_lar \\ & X1 X0) \wedge (\forall X2.(v3_ordinal1 X2) \Rightarrow (\neg(X2 \in X0) \wedge (r1_tarski X1 \\ & X2)))) \wedge (\neg(\exists X2.(v3_ordinal1 X2) \wedge ((X2 \in X0) \wedge (r1_tarski \\ & X1 X2)))) \wedge (v1_card_lar X1 X0)))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1.(m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. r1_tarski (k3_xboole_0 X0 X1) X0 \tag{3}$$

Assume the following.

$$\forall X0. \forall X1. \forall X2.(m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow (k8_subset_1 X0 X1 X2 = k3_xboole_0 X1 X2) \tag{4}$$

Assume the following.

$$\begin{aligned} & \forall X0.((v3_ordinal1 X0) \wedge ((v4_ordinal1 X0) \wedge (\neg v1_finset_1 \\ & X0))) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow ((v1_card_lar \\ & X1 X0) \Leftrightarrow (k3_ordinal2 X1 = X0))) \end{aligned} \tag{5}$$

Assume the following.

$$\forall X0. \forall X1. k3_xboole_0 X0 X1 = k3_xboole_0 X1 X0 \tag{6}$$

Theorem 1

$$\begin{aligned} & \forall X0.((v3_ordinal1\ X0)\wedge((v4_ordinal1\ X0)\wedge(\neg v1_finset_1 \\ & X0)))\Rightarrow(\forall X1.((v3_ordinal1\ X1)\wedge((v4_ordinal1\ X1)\wedge(\neg v1_finset_1 \\ & X1)))\Rightarrow(\forall X2.(m1_subset_1\ X2\ (k1_zfmisc_1\ X0))\Rightarrow(\neg(k3_ordinal2 \\ & (k8_subset_1\ X0\ X2\ X1)\neq X1)\wedge(\forall X3.(v3_ordinal1\ X3)\Rightarrow(\neg(X3\in \\ & X1)\wedge(r1_tarski\ (k8_subset_1\ X0\ X2\ X1\ X3)))))) \end{aligned}$$