

t1_card_lar

(TMPuiiUBrWHD8rpoQUtZiHq4QLj7jMoUfSH)

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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 $r3_card_lar : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_card_lar : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_card_lar : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_ordinal2 : \iota \Rightarrow \iota$ be given. Let $r2_card_lar : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_card_lar : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow (k8_subset_1 X0 X1 X2 = k3_xboole_0 X1 X2) \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. ((v3_ordinal1 X0) \wedge ((v4_ordinal1 X0) \wedge (\neg v1_finset_1 X0))) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow ((v2_card_lar X1 X0) \Leftrightarrow (\forall X2. ((v3_ordinal1 X2) \wedge ((v4_ordinal1 X2) \wedge (\neg v1_finset_1 X2)))) \Rightarrow (((X2 \in X0) \wedge (k3_ordinal2 (k8_subset_1 X0 X1 X2) = X2)) \Rightarrow (X2 \in X1)))))) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0. ((v3_ordinal1 X0) \wedge ((v4_ordinal1 X0) \wedge (\neg v1_finset_1 X0))) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow ((v1_card_lar X1 X0) \Leftrightarrow (k3_ordinal2 X1 = X0))) \quad (4)$$

Assume the following.

$$\forall X0. ((v3_ordinal1 X0) \wedge ((v4_ordinal1 X0) \wedge (\neg v1_finset_1 X0))) \Rightarrow (\forall X1. (r3_card_lar X0 X1) \Leftrightarrow ((r2_card_lar X0 X1) \wedge (r1_card_lar X0 X1))) \quad (5)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v3_ordinal1\ X0)\wedge((v4_ordinal1\ X0)\wedge(\neg v1_finset_1 \\ & X0)))\Rightarrow(\forall X1.(r2_card_lar\ X0\ X1)\Leftrightarrow((r1_tarski\ X1\ X0)\wedge(\forall X2. \\ & ((v3_ordinal1\ X2)\wedge((v4_ordinal1\ X2)\wedge(\neg v1_finset_1\ X2))))\Rightarrow((\\ & (X2 \in X0)\wedge(k3_ordinal2\ (k3_xboole_0\ X1\ X2) = X2))\Rightarrow(X2 \in X1)))) \end{aligned} \quad (6)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v3_ordinal1\ X0)\wedge((v4_ordinal1\ X0)\wedge(\neg v1_finset_1 \\ & X0)))\Rightarrow(\forall X1.(r1_card_lar\ X0\ X1)\Leftrightarrow((r1_tarski\ X1\ X0)\wedge(k3_ordinal2 \\ & X1 = X0))) \end{aligned} \quad (7)$$

Theorem 1

$$\begin{aligned} & \forall X0.((v3_ordinal1\ X0)\wedge((v4_ordinal1\ X0)\wedge(\neg v1_finset_1 \\ & X0)))\Rightarrow(\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1\ X0))\Rightarrow((r3_card_lar \\ & X0\ X1)\Leftrightarrow((v2_card_lar\ X1\ X0)\wedge(v1_card_lar\ X1\ X0)))) \end{aligned}$$