

t10_card_lar (TMK-
LxxVnAC77cGCNzkfaQQJL2LZ1PNQAqL)

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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 $v2_card_lar : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_subset_1 : \iota \Rightarrow \iota$ be given. Let $v1_card_lar : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_ordinal2 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k8_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow (k3_ordinal2 X0 = X0) \quad (1)$$

Assume the following.

$$\forall X0.m1_subset_1 (k2_subset_1 X0) (k1_zfmisc_1 X0) \quad (2)$$

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.

$$\begin{aligned} & \forall X0.((v3_ordinal1 X0) \wedge ((v4_ordinal1 X0) \wedge (\neg v1_finset_1 \\ & X0))) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow ((v1_card_lar \\ & X1 X0) \Leftrightarrow (k3_ordinal2 X1 = X0))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0.k2_subset_1 X0 = X0 \quad (5)$$

Theorem 1

$$\begin{aligned} & \forall X0.((v3_ordinal1 X0) \wedge ((v4_ordinal1 X0) \wedge (\neg v1_finset_1 \\ & X0))) \Rightarrow ((v2_card_lar (k2_subset_1 X0) X0) \wedge (v1_card_lar (k2_subset_1 \\ & X0) X0)) \end{aligned}$$