

t12_card_lar

(TMWwixPozxyNRNqZ2vPdksbUYnBVjBEts9e)

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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 $k6_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_card_lar : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k7_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_subset_1 : \iota \Rightarrow \iota$ be given. Let $k4_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.((v3_ordinal1 X0) \wedge ((v4_ordinal1 X0) \wedge (\neg v1_finset_1 \\ X0))) \Rightarrow (\forall X1.(v3_ordinal1 X1) \Rightarrow (\forall X2.(m1_subset_1 \\ X2 (k1_zfmisc_1 X0)) \Rightarrow (((X1 \in X0) \wedge ((v2_card_lar X2 X0) \wedge (v1_card_lar \\ X2 X0)) \Rightarrow ((v2_card_lar (k7_subset_1 X0 X2 X1) X0) \wedge (v1_card_lar \\ (k7_subset_1 X0 X2 X1) X0)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.((v3_ordinal1 X0) \wedge ((v4_ordinal1 X0) \wedge (\neg v1_finset_1 \\ X0))) \Rightarrow ((v2_card_lar (k2_subset_1 X0) X0) \wedge (v1_card_lar (k2_subset_1 \\ X0) X0)) \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (m1_subset_1 X1 (k1_zfmisc_1 \\ X0)) \Rightarrow (k7_subset_1 X0 X1 X2 = k4_xboole_0 X1 X2) \tag{3}$$

Assume the following.

$$\forall X0. \forall X1. k6_subset_1 X0 X1 = k4_xboole_0 X0 X1 \tag{4}$$

Assume the following.

$$\forall X0. m1_subset_1 (k2_subset_1 X0) (k1_zfmisc_1 X0) \tag{5}$$

Assume the following.

$$\forall X0. k2_subset_1 X0 = X0 \tag{6}$$

Theorem 1

$$\forall X0.((v3_ordinal1\ X0)\wedge((v4_ordinal1\ X0)\wedge(\neg v1_finset1\ X0)))\Rightarrow(\forall X1.(v3_ordinal1\ X1)\Rightarrow((X1\in X0)\Rightarrow((v2_card_lar\ (k6_subset_1\ X0\ X1)\ X0)\wedge(v1_card_lar\ (k6_subset_1\ X0\ X1)\ X0))))$$