

t14_card_lar
(TMSBY3CgJLBdSNMvgyver7tqwJoogFG1QmF)

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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 $r4_card_lar : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v3_card_lar : \iota \Rightarrow \iota \Rightarrow o$ 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 $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k9_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ 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.

$$\begin{aligned} & \forall X0. ((v3_ordinal1 X0) \wedge ((v4_ordinal1 X0) \wedge (\neg v1_finset_1 X0))) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow (\forall X2. \\ & (m1_subset_1 X2 (k1_zfmisc_1 X0)) \Rightarrow ((v3_card_lar X1 X0) \wedge (r1_tarski X1 X2)) \Rightarrow (v3_card_lar X2 X0))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v3_ordinal1 X0) \wedge ((v4_ordinal1 X0) \wedge (\neg v1_finset_1 X0))) \Rightarrow (\forall X1. (r4_card_lar X0 X1) \Leftrightarrow ((r1_tarski X1 X0) \wedge (\forall X2. \\ & (m1_subset_1 X2 (k1_zfmisc_1 X0)) \Rightarrow (\neg (v2_card_lar X2 X0) \wedge ((v1_card_lar X2 X0) \wedge (v1_xboole_0 (k9_subset_1 X0 X1 X2))))))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v3_ordinal1 X0) \wedge ((v4_ordinal1 X0) \wedge (\neg v1_finset_1 X0))) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow ((v3_card_lar X1 X0) \Leftrightarrow (\forall X2. (m1_subset_1 X2 (k1_zfmisc_1 X0)) \Rightarrow (\neg (v2_card_lar X2 X0) \wedge ((v1_card_lar X2 X0) \wedge (v1_xboole_0 (k9_subset_1 X0 X1 X2))))))) \end{aligned} \quad (4)$$

Theorem 1

$$\begin{aligned} & \forall X0. ((v3_ordinal1 X0) \wedge ((v4_ordinal1 X0) \wedge (\neg v1_finset_1 X0))) \Rightarrow (\forall X1. \forall X2. ((r4_card_lar X0 X1) \wedge ((r1_tarski X1 X2) \wedge (r1_tarski X2 X0))) \Rightarrow (r4_card_lar X0 X2)) \end{aligned}$$