

t10_pralg_1 (TMW-
Pqy1AaXcumxmUg37V3h3xTHKnZBued5U)

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Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $g1_unialg_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k8_pralg_1 : \iota \Rightarrow \iota$ be given. Let $v1_unialg_1 : \iota \Rightarrow o$ be given. Let $v2_unialg_1 : \iota \Rightarrow o$ be given. Let $v3_unialg_1 : \iota \Rightarrow o$ be given. Let $v4_unialg_1 : \iota \Rightarrow o$ be given. Let $l1_unialg_1 : \iota \Rightarrow o$ be given. Let $v4_margrel1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v5_margrel1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_relat_1 : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $k4_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_finseq_2 : \iota \Rightarrow \iota$ be given. Let $v1_card_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k4_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_pralg_1 : \iota \Rightarrow \iota$ be given. Let $u1_unialg_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(m2_finseq_1 X0 k5_numbers) \Rightarrow ((v4_margrel1 (k8_pralg_1 X0) (k1_tarski k1_xboole_0)) \wedge ((v5_margrel1 (k8_pralg_1 X0) (k1_tarski k1_xboole_0)) \wedge (v2_relat_1 (k8_pralg_1 X0)))) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \quad (3)$$

Assume the following.

$$\forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow (k3_finseq_1 X0 = k1_card_1 X0) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.(m1_finseq_1 X1 (k4_partfun1 (k3_finseq_2 X0) X0)) \Rightarrow (\forall X2.\forall X3.(g1_unialg_1 X0 X1 = g1_unialg_1 X2 X3) \Rightarrow ((X0 = X2) \wedge (X1 = X3))) \quad (5)$$

Assume the following.

$$\forall X0. \neg v1_xboole_0 (k1_tarski X0) \quad (6)$$

Assume the following.

$$\forall X0. (\neg v1_xboole_0 X0) \Rightarrow ((\neg v1_xboole_0 (k1_card_1 X0)) \wedge (v1_card_1 (k1_card_1 X0))) \quad (7)$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \quad (8)$$

Assume the following.

$$\forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge (m1_finseq_1 X1 (k4_partfun1 (k3_finseq_2 X0) X0))) \Rightarrow ((\neg v2_struct_0 (g1_unialg_1 X0 X1)) \wedge (v1_unialg_1 (g1_unialg_1 X0 X1))) \quad (9)$$

Assume the following.

$$\forall X0. (v1_xboole_0 X0) \Rightarrow ((v1_xboole_0 (k1_card_1 X0)) \wedge (v1_card_1 (k1_card_1 X0))) \quad (10)$$

Assume the following.

$$\forall X0. \forall X1. (m2_finseq_1 X1 X0) \Rightarrow ((v1_funct_1 X1) \wedge ((v1_finseq_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers X0)))))) \quad (11)$$

Assume the following.

$$\forall X0. \forall X1. (m1_finseq_1 X1 X0) \Rightarrow ((v1_relat_1 X1) \wedge ((v1_funct_1 X1) \wedge (v1_finseq_1 X1))) \quad (12)$$

Assume the following.

$$\forall X0. (m1_finseq_1 X0 k5_numbers) \Rightarrow (m2_finseq_1 (k8_pralg_1 X0) (k4_partfun1 (k3_finseq_2 (k1_tarski k1_xboole_0)) (k1_tarski k1_xboole_0))) \quad (13)$$

Assume the following.

$$\forall X0. \forall X1. (m1_finseq_1 X1 (k4_partfun1 (k3_finseq_2 X0) X0)) \Rightarrow ((v1_unialg_1 (g1_unialg_1 X0 X1)) \wedge (l1_unialg_1 (g1_unialg_1 X0 X1))) \quad (14)$$

Assume the following.

$$\begin{aligned} \forall X0. (m2_finseq_1 X0 k5_numbers) \Rightarrow (\forall X1. (m2_finseq_1 X1 (k4_partfun1 (k3_finseq_2 (k1_tarski k1_xboole_0)) (k1_tarski k1_xboole_0))) \Rightarrow ((X1 = k8_pralg_1 X0) \Leftrightarrow ((k3_finseq_1 X1 = k3_finseq_1 X0) \wedge (\forall X2. (v7_ordinal1 X2) \Rightarrow ((X2 \in k4_finseq_1 X1) \Rightarrow (\forall X3. (v7_ordinal1 X3) \Rightarrow ((X3 = k1_funct_1 X0 X2) \Rightarrow (k1_funct_1 X1 X2 = k7_pralg_1 X3)))))))))) \end{aligned} \quad (15)$$

Assume the following.

$$\forall X0.(l1_unialg_1 X0) \Rightarrow ((v4_unialg_1 X0) \Leftrightarrow ((u1_unialg_1 X0 \neq k1_xboole_0) \wedge (v2_relat_1 (u1_unialg_1 X0)))) \quad (16)$$

Assume the following.

$$\forall X0.(l1_unialg_1 X0) \Rightarrow ((v3_unialg_1 X0) \Leftrightarrow (v5_margrel1 (u1_unialg_1 X0) (u1_struct_0 X0))) \quad (17)$$

Assume the following.

$$\forall X0.(l1_unialg_1 X0) \Rightarrow ((v2_unialg_1 X0) \Leftrightarrow (v4_margrel1 (u1_unialg_1 X0) (u1_struct_0 X0))) \quad (18)$$

Assume the following.

$$\forall X0.(l1_unialg_1 X0) \Rightarrow ((v1_unialg_1 X0) \Rightarrow (X0 = g1_unialg_1 (u1_struct_0 X0) (u1_unialg_1 X0))) \quad (19)$$

Theorem 1

$$\forall X0.(m2_finseq_1 X0 k5_numbers) \Rightarrow ((X0 \neq k1_xboole_0) \Rightarrow ((\neg v2_struct_0 (g1_unialg_1 (k1_tarski k1_xboole_0) (k8_pralg_1 X0))) \wedge ((v1_unialg_1 (g1_unialg_1 (k1_tarski k1_xboole_0) (k8_pralg_1 X0))) \wedge ((v2_unialg_1 (g1_unialg_1 (k1_tarski k1_xboole_0) (k8_pralg_1 X0))) \wedge ((v3_unialg_1 (g1_unialg_1 (k1_tarski k1_xboole_0) (k8_pralg_1 X0))) \wedge ((v4_unialg_1 (g1_unialg_1 (k1_tarski k1_xboole_0) (k8_pralg_1 X0))) \wedge (l1_unialg_1 (g1_unialg_1 (k1_tarski k1_xboole_0) (k8_pralg_1 X0))))))))))$$