

t16_matrix_1
(TMLtZMxPApegpkBjZSfYpynJz6bDTTxFaz)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_matrix_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k10_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $np_2 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ 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 $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $v3_card_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_finseq_1 : \iota \Rightarrow o$ be given. Let $v4_card_3 : \iota \Rightarrow o$ be given. Let $k6_finseq_1 : \iota \Rightarrow \iota$ be given. Let $v1_card_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (1)$$

Assume the following.

$$m1_subset_1 k1_xboole_0 k4_ordinal1 \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(\neg v1_xboole_0 X1) \Rightarrow (\\ \forall X2.(m2_finseq_1 X2 X1) \Rightarrow (\forall X3.(m2_finseq_1 X3 X1) \Rightarrow \\ (((k3_finseq_1 X2 = X0) \wedge (k3_finseq_1 X3 = X0)) \Rightarrow (m1_matrix_1 (k10_finseq_1 \\ X2 X3) X1 np_2 X0)))))) \quad (3) \end{aligned}$$

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.

$$\begin{aligned} \forall X0.\forall X1.((v7_ordinal1\ X0)\wedge(\neg v1_xboole_0\ X1))\Rightarrow \\ (\exists X2.(m1_finseq_1\ X2\ X1)\wedge((v1_relat_1\ X2)\wedge((v4_relat_1 \\ X2\ k5_numbers)\wedge((v5_relat_1\ X2\ X1)\wedge((v1_funct_1\ X2)\wedge((v1_finset_1 \\ X2)\wedge((v3_card_1\ X2\ X0)\wedge((v1_finseq_1\ X2)\wedge((v2_finseq_1\ X2)\wedge \\ (v4_card_3\ X2)))))))))) \end{aligned} \quad (5)$$

Assume the following.

$$\forall X0.v1_xboole_0\ (k6_finseq_1\ X0) \quad (6)$$

Assume the following.

$$v1_xboole_0\ k1_xboole_0 \quad (7)$$

Assume the following.

$$\forall X0.(v1_xboole_0\ X0)\Rightarrow((v1_xboole_0\ (k1_card_1\ X0))\wedge(v1_card_1\ (k1_card_1\ X0))) \quad (8)$$

Assume the following.

$$\forall X0.m2_finseq_1\ (k6_finseq_1\ X0)\ X0 \quad (9)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k4_ordinal1)\Rightarrow(v7_ordinal1\ X0) \quad (10)$$

Assume the following.

$$\forall X0.(v3_card_1\ X0\ k1_xboole_0)\Rightarrow(v1_xboole_0\ X0) \quad (11)$$

Theorem 1

$$\forall X0.(\neg v1_xboole_0\ X0)\Rightarrow(m1_matrix_1\ (k10_finseq_1\ k1_xboole_0\ k1_xboole_0)\ X0\ np_2\ k1_xboole_0)$$