

t40_matrixr2
(TMNiMfyfWJ6TfR2LsLgj4xjjcxL7qVTCaak)

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Let $k12_matrix_2 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k6_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ 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 $k2_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v3_card_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $k1_finseq_2 : \iota \Rightarrow \iota$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v6_membered : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $v1_zfmisc_1 : \iota \Rightarrow o$ 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.

$$k6_numbers = k1_xboole_0 \quad (3)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (k2_finseq_1 X0 = k1_finseq_1 X0) \quad (4)$$

Assume the following.

$$\forall X0.(\neg v1_xboole_0 X0) \Rightarrow (\exists X1.(m1_subset_1 X1 (k1_zfmisc_1 X0)) \wedge (v3_card_1 X1 np_1)) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.\exists X2.(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1))) \wedge ((v1_xboole_0 X2) \wedge ((v1_relat_1 X2) \wedge ((v4_relat_1 X2 X0) \wedge (v5_relat_1 X2 X1)))) \quad (6)$$

Assume the following.

$$\begin{aligned}
& (v1_funct_1 (k1_finseq_2 k6_numbers)) \wedge ((v1_funct_2 (k1_finseq_2 \\
& k6_numbers) (k2_finseq_1 k6_numbers) (k2_finseq_1 k6_numbers)) \wedge \\
& ((v3_funct_2 (k1_finseq_2 k6_numbers) (k2_finseq_1 k6_numbers) \\
& (k2_finseq_1 k6_numbers)) \wedge (m1_subset_1 (k1_finseq_2 k6_numbers) \\
& (k1_zfmisc_1 (k2_zfmisc_1 (k2_finseq_1 k6_numbers) (k2_finseq_1 \\
& k6_numbers))))))
\end{aligned} \tag{7}$$

Assume the following.

$$v6_membered k4_ordinal1 \tag{8}$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (v3_card_1 (k1_finseq_1 X0) X0) \tag{9}$$

Assume the following.

$$\begin{aligned}
& (v1_relat_1 (k1_finseq_2 k6_numbers)) \wedge ((v1_funct_1 (k1_finseq_2 \\
& k6_numbers)) \wedge ((v1_xboole_0 (k1_finseq_2 k6_numbers)) \wedge (v1_finseq_1 \\
& (k1_finseq_2 k6_numbers))))
\end{aligned} \tag{10}$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \tag{11}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(X1 = k12_matrix_2 X0) \Leftrightarrow \\
& (\forall X2.(X2 \in X1) \Leftrightarrow ((v1_funct_1 X2) \wedge ((v1_funct_2 X2 (k2_finseq_1 \\
& X0) (k2_finseq_1 X0)) \wedge ((v3_funct_2 X2 (k2_finseq_1 X0) (k2_finseq_1 \\
& X0)) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 (k2_finseq_1 \\
& X0) (k2_finseq_1 X0))))))))))
\end{aligned} \tag{12}$$

Assume the following.

$$\forall X0.k6_finseq_1 X0 = k1_xboole_0 \tag{13}$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k1_tarski X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow (X2 = X0)) \tag{14}$$

Assume the following.

$$\forall X0.(v3_card_1 X0 np_1) \Rightarrow ((\neg v1_xboole_0 X0) \wedge (v1_zfmisc_1 X0)) \tag{15}$$

Assume the following.

$$\forall X0.(v3_card_1 X0 k1_xboole_0) \Rightarrow (v1_xboole_0 X0) \tag{16}$$

Assume the following.

$$\forall X0.\forall X1.(v1_xboole_0 X0)\Rightarrow(\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X1 X0)))\Rightarrow(v1_xboole_0 X2)) \quad (17)$$

Assume the following.

$$\forall X0.(v6_membered X0)\Rightarrow(\forall X1.(m1_subset_1 X1 X0)\Rightarrow(v7_ordinal1 X1)) \quad (18)$$

Theorem 1 $k12_matrix_2 k6_numbers = k1_tarski (k6_finseq_1 k5_numbers)$.