

t43_matrix_9

(TMPm5Gkta4ipKuq4LbGM6VAheqxnPoCEai)

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Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $k3_finseq_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $np_2 : \iota$ be given. Let $np_1 : \iota$ be given. Let $np_3 : \iota$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_finseq_1 : \iota \Rightarrow \iota$ be given. Let $v3_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v5_matrix_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12_matrix_2 : \iota \Rightarrow \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k13_matrix_2 : \iota \Rightarrow \iota$ be given. Let $k4_nat_d : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k4_finseq_1 : \iota \Rightarrow \iota$ be given. Let $m1_matrix_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v4_matrix_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k11_matrix_2 : \iota \Rightarrow \iota$ be given. Let $k3_group_4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
 & (k3_finseq_4\ k5_numbers\ np_1\ np_3\ np_2 \in k12_matrix_2\ np_3) \wedge \\
 & ((k3_finseq_4\ k5_numbers\ np_2\ np_3\ np_1 \in k12_matrix_2\ np_3) \wedge \\
 & ((k3_finseq_4\ k5_numbers\ np_2\ np_1\ np_3 \in k12_matrix_2\ np_3) \wedge \\
 & ((k3_finseq_4\ k5_numbers\ np_3\ np_1\ np_2 \in k12_matrix_2\ np_3) \wedge \\
 & ((k3_finseq_4\ k5_numbers\ np_1\ np_2\ np_3 \in k12_matrix_2\ np_3) \wedge \\
 & (k3_finseq_4\ k5_numbers\ np_3\ np_2\ np_1 \in k12_matrix_2\ np_3)))) \quad (1)
 \end{aligned}$$

Assume the following.

$$\begin{aligned}
 & ((v2_xxreal_0\ np_3) \wedge (m2_subset_1\ np_3\ k1_numbers\ k5_numbers)) \wedge \\
 & ((m1_subset_1\ np_3\ k5_numbers) \wedge (m1_subset_1\ np_3\ k1_numbers)) \quad (2)
 \end{aligned}$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (3)$$

Assume the following.

$$\begin{aligned}
& \forall X0.(m2_finseq_1 X0 (u1_struct_0 (k13_matrix_2 np_3))) \Rightarrow \\
& (\neg(k4_nat_d (k3_finseq_1 X0) np_2 = k6_numbers) \wedge ((\forall X1. \\
& (v7_ordinal1 X1) \Rightarrow (\neg(X1 \in k4_finseq_1 X0) \wedge (\forall X2.(m1_matrix_2 \\
& X2 (k12_matrix_2 np_3)) \Rightarrow (\neg(k1_funct_1 X0 X1 = X2) \wedge (v4_matrix_2 \\
& X2 (k11_matrix_2 (k12_matrix_2 np_3)))))) \wedge ((k3_group_4 (k13_matrix_2 \\
& np_3) X0 \neq k3_finseq_4 k5_numbers np_1 np_2 np_3) \wedge ((k3_group_4 \\
& (k13_matrix_2 np_3) X0 \neq k3_finseq_4 k5_numbers np_2 np_3 np_1) \wedge \\
& (k3_group_4 (k13_matrix_2 np_3) X0 \neq k3_finseq_4 k5_numbers np_3 \\
& np_1 np_2))))))
\end{aligned} \tag{4}$$

Assume the following.

$$\begin{aligned}
& (k3_finseq_4 k5_numbers np_2 np_3 np_1 \neq k3_finseq_4 k5_numbers \\
& np_2 np_1 np_3) \wedge (k3_finseq_4 k5_numbers np_2 np_1 np_3 \neq \\
& k3_finseq_4 k5_numbers np_3 np_1 np_2)
\end{aligned} \tag{5}$$

Assume the following.

$$\begin{aligned}
& k3_finseq_4 k5_numbers np_1 np_2 np_3 \neq k3_finseq_4 k5_numbers \\
& np_2 np_1 np_3
\end{aligned} \tag{6}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(X1 = k12_matrix_2 X0) \Leftrightarrow \\
& (\forall X2.(X2 \in X1) \Leftrightarrow ((v1_funct_1 X2) \wedge ((v1_funct_2 X2 (k2_finseq_1 \\
& X0) (k2_finseq_1 X0)) \wedge ((v3_funct_2 X2 (k2_finseq_1 X0) (k2_finseq_1 \\
& X0)) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 (k2_finseq_1 \\
& X0) (k2_finseq_1 X0))))))))))
\end{aligned} \tag{7}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.((v1_funct_1 X1) \wedge ((\\
& v1_funct_2 X1 (k2_finseq_1 X0) (k2_finseq_1 X0)) \wedge ((v3_funct_2 \\
& X1 (k2_finseq_1 X0) (k2_finseq_1 X0)) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\
& (k2_zfmisc_1 (k2_finseq_1 X0) (k2_finseq_1 X0)))))) \Rightarrow ((v5_matrix_2 \\
& X1 X0) \Leftrightarrow (\exists X2.(m2_finseq_1 X2 (u1_struct_0 (k13_matrix_2 \\
& X0)))) \wedge ((k4_nat_d (k3_finseq_1 X2) np_2 = k6_numbers) \wedge ((X1 = k3_group_4 \\
& (k13_matrix_2 X0) X2) \wedge (\forall X3.(v7_ordinal1 X3) \Rightarrow (\neg(X3 \in k4_finseq_1 \\
& X2) \wedge (\forall X4.(m1_matrix_2 X4 (k12_matrix_2 X0)) \Rightarrow (\neg(k1_funct_1 \\
& X2 X3 = X4) \wedge (v4_matrix_2 X4 (k11_matrix_2 (k12_matrix_2 X0))))))))))
\end{aligned} \tag{8}$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k4_ordinal1) \Rightarrow (v7_ordinal1 X0) \tag{9}$$

Theorem 1

$$\begin{aligned} & (v1_funct_1 (k3_finseq_4 k5_numbers np_2 np_1 np_3))^\wedge((v1_funct_2 \\ & (k3_finseq_4 k5_numbers np_2 np_1 np_3) (k2_finseq_1 np_3) \\ & (k2_finseq_1 np_3))^\wedge((v3_funct_2 (k3_finseq_4 k5_numbers np_2 \\ & np_1 np_3) (k2_finseq_1 np_3) (k2_finseq_1 np_3))^\wedge((-v5_matrix_2 \\ & (k3_finseq_4 k5_numbers np_2 np_1 np_3) np_3)^\wedge(m1_subset_1 \\ & (k3_finseq_4 k5_numbers np_2 np_1 np_3) (k1_zfmisc_1 (k2_zfmisc_1 \\ & (k2_finseq_1 np_3) (k2_finseq_1 np_3)))))) \end{aligned}$$