

t8_matrix_7 (TMFUuEgAZP- sRj8PiBwtiaVTE1MLvnh1AXdk)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k13_matrix_2 : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $m1_matrix_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k12_matrix_2 : \iota \Rightarrow \iota$ be given. Let $v4_matrix_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k11_matrix_2 : \iota \Rightarrow \iota$ be given. Let $k10_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ 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 $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k9_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k5_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v3_matrix_2 : \iota \Rightarrow o$ be given. Let $k7_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1_funct_1 X0) \wedge ((v1_funct_2 X0 (k2_finseq_1 np_2) \\ & (k2_finseq_1 np_2)) \wedge ((v3_funct_2 X0 (k2_finseq_1 np_2) (k2_finseq_1 \\ & np_2)) \wedge (m1_subset_1 X0 (k1_zfmisc_1 (k2_zfmisc_1 (k2_finseq_1 \\ & np_2) (k2_finseq_1 np_2)))))) \Rightarrow ((v4_matrix_2 X0 np_2) \Rightarrow (X0 = \\ & k10_finseq_1 np_2 np_1)) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (k11_matrix_2 (k12_matrix_2 X0) = X0) \tag{2}$$

Assume the following.

$$\forall X0.k9_finseq_1 X0 = k5_finseq_1 X0 \tag{3}$$

Assume the following.

$$np_2 \in k4_ordinal1 \tag{4}$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow ((\neg v1_xboole_0 (k12_matrix_2 X0)) \wedge (v3_matrix_2 (k12_matrix_2 X0))) \tag{5}$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v1_xboole_0 X0) \wedge (v3_matrix_2 X0)) \Rightarrow (\forall X1. \\ & (m1_matrix_2 X1 X0) \Rightarrow ((v1_funct_1 X1) \wedge ((v1_funct_2 X1 (k2_finseq_1 \\ & (k11_matrix_2 X0)) (k2_finseq_1 (k11_matrix_2 X0))) \wedge ((v3_funct_2 \\ & X1 (k2_finseq_1 (k11_matrix_2 X0)) (k2_finseq_1 (k11_matrix_2 \\ & X0))) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 (k2_finseq_1 \\ & (k11_matrix_2 X0)) (k2_finseq_1 (k11_matrix_2 X0)))))))))) \end{aligned} \quad (6)$$

Assume the following.

$$\forall X0. \forall X1. k10_finseq_1 X0 X1 = k7_finseq_1 (k9_finseq_1 X0) (k9_finseq_1 X1) \quad (7)$$

Assume the following.

$$\forall X0. (v7_ordinal1 X0) \Leftrightarrow (X0 \in k4_ordinal1) \quad (8)$$

Theorem 1

$$\begin{aligned} & \forall X0. (m1_subset_1 X0 (u1_struct_0 (k13_matrix_2 np_2))) \Rightarrow \\ & ((\exists X1. (m1_matrix_2 X1 (k12_matrix_2 np_2)) \wedge ((X1 = X0) \wedge \\ & (v4_matrix_2 X1 (k11_matrix_2 (k12_matrix_2 np_2)))))) \Rightarrow (X0 = \\ & k10_finseq_1 np_2 np_1) \end{aligned}$$