

t26_matrix_7

(TMYJNGyVij4iwWFUhNjc1f1pRBLmLKsobKG)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v2_group_1 : \iota \Rightarrow o$ be given. Let $v3_group_1 : \iota \Rightarrow o$ be given. Let $l3_algstr_0 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k2_group_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_group_4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_matrix_7 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_finseq_5 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_group_1 : \iota \Rightarrow o$ be given. Let $k8_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_algstr_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_group_1 : \iota \Rightarrow \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v1_group_1 X0) \wedge ((v3_group_1 \\ & X0) \wedge (l3_algstr_0 X0)))) \Rightarrow (\forall X1.(m2_finseq_1 X1 (u1_struct_0 \\ & X0)) \Rightarrow (\forall X2.(m2_finseq_1 X2 (u1_struct_0 X0)) \Rightarrow (k3_group_4 \\ & X0 (k8_finseq_1 (u1_struct_0 X0) X1 X2) = k6_algstr_0 X0 (k3_group_4 \\ & X0 X1) (k3_group_4 X0 X2)))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_group_1 X0) \wedge ((v3_group_1 \\ & X0) \wedge (l3_algstr_0 X0)))) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 \\ & X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow (((k6_algstr_0 \\ & X0 X1 X2 = k1_group_1 X0) \wedge (k6_algstr_0 X0 X2 X1 = k1_group_1 X0)) \Rightarrow \\ & (X2 = k2_group_1 X0 X1)))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_group_1 X0) \wedge ((v3_group_1 \\ & X0) \wedge (l3_algstr_0 X0)))) \Rightarrow (\forall X1.(m2_finseq_1 X1 (u1_struct_0 \\ & X0)) \Rightarrow (k3_group_4 X0 (k8_finseq_1 (u1_struct_0 X0) (k4_matrix_7 \\ & X0 (k4_finseq_5 (u1_struct_0 X0) X1)) X1) = k1_group_1 X0)) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_group_1 X0) \wedge ((v3_group_1 \\ X0) \wedge (l3_algstr_0 X0)))) \Rightarrow (\forall X1.(m2_finseq_1 X1 (u1_struct_0 \\ X0)) \Rightarrow (k3_group_4 X0 (k8_finseq_1 (u1_struct_0 X0) X1 (k4_matrix_7 \\ X0 (k4_finseq_5 (u1_struct_0 X0) X1))) = k1_group_1 X0)) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.(m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \quad (5)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.(((\neg v2_struct_0 X0) \wedge ((v2_group_1 X0) \wedge \\ ((v3_group_1 X0) \wedge (l3_algstr_0 X0)))) \wedge (m1_finseq_1 X1 (u1_struct_0 \\ X0))) \Rightarrow (m2_finseq_1 (k4_matrix_7 X0 X1) (u1_struct_0 X0)) \end{aligned} \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.(m1_finseq_1 X1 X0) \Rightarrow (m2_finseq_1 (k4_finseq_5 \\ X0 X1) X0) \quad (7)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.(((\neg v2_struct_0 X0) \wedge (l3_algstr_0 X0)) \wedge \\ (m1_finseq_1 X1 (u1_struct_0 X0))) \Rightarrow (m1_subset_1 (k3_group_4 \\ X0 X1) (u1_struct_0 X0)) \end{aligned} \quad (8)$$

Assume the following.

$$\forall X0.(l3_algstr_0 X0) \Rightarrow ((v2_group_1 X0) \Rightarrow (v1_group_1 X0)) \quad (9)$$

Theorem 1

$$\begin{aligned} \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_group_1 X0) \wedge ((v3_group_1 \\ X0) \wedge (l3_algstr_0 X0)))) \Rightarrow (\forall X1.(m2_finseq_1 X1 (u1_struct_0 \\ X0)) \Rightarrow (k2_group_1 X0 (k3_group_4 X0 X1) = k3_group_4 X0 (k4_matrix_7 \\ X0 (k4_finseq_5 (u1_struct_0 X0) X1)))) \end{aligned}$$