

t26_group_7 (TM-
MYmizS4mZfVBqZqGz6cCh77E7asN7wKPh)

October 27, 2020

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 $v1_relat_1 : \iota \Rightarrow o$ be given. Let $k11_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $np_2 : \iota$ be given. Let $np_3 : \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_group_7 : \iota \Rightarrow o$ be given. Let $v2_group_7 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3_group_7 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v3_group_1 X0) \wedge (l3_algstr_0 \\ & X0))) \Rightarrow (\forall X1.((\neg v2_struct_0 X1) \wedge ((v3_group_1 X1) \wedge (l3_algstr_0 \\ & X1))) \Rightarrow (\forall X2.((\neg v2_struct_0 X2) \wedge ((v3_group_1 X2) \wedge (l3_algstr_0 \\ & X2))) \Rightarrow ((v1_relat_1 (k11_finseq_1 X0 X1 X2)) \wedge ((v4_relat_1 (k11_finseq_1 \\ & X0 X1 X2) (k1_enumset1 np_1 np_2 np_3)) \wedge ((v1_funct_1 (k11_finseq_1 \\ & X0 X1 X2) \wedge ((v1_partfun1 (k11_finseq_1 X0 X1 X2) (k1_enumset1 np_1 \\ & np_2 np_3)) \wedge ((v1_group_7 (k11_finseq_1 X0 X1 X2)) \wedge (v3_group_7 \\ & (k11_finseq_1 X0 X1 X2) (k1_enumset1 np_1 np_2 np_3)))))))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_group_1 X0) \wedge (l3_algstr_0 \\ & X0))) \Rightarrow (\forall X1.((\neg v2_struct_0 X1) \wedge ((v2_group_1 X1) \wedge (l3_algstr_0 \\ & X1))) \Rightarrow (\forall X2.((\neg v2_struct_0 X2) \wedge ((v2_group_1 X2) \wedge (l3_algstr_0 \\ & X2))) \Rightarrow ((v1_relat_1 (k11_finseq_1 X0 X1 X2)) \wedge ((v4_relat_1 (k11_finseq_1 \\ & X0 X1 X2) (k1_enumset1 np_1 np_2 np_3)) \wedge ((v1_funct_1 (k11_finseq_1 \\ & X0 X1 X2) \wedge ((v1_partfun1 (k11_finseq_1 X0 X1 X2) (k1_enumset1 np_1 \\ & np_2 np_3)) \wedge ((v1_group_7 (k11_finseq_1 X0 X1 X2)) \wedge (v2_group_7 \\ & (k11_finseq_1 X0 X1 X2) (k1_enumset1 np_1 np_2 np_3)))))))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v2_struct_0 X0) \wedge (l3_algstr_0 X0)) \Rightarrow (\forall X1. \\
& ((\neg v2_struct_0 X1) \wedge (l3_algstr_0 X1)) \Rightarrow (\forall X2.((\neg v2_struct_0 \\
& X2) \wedge (l3_algstr_0 X2)) \Rightarrow ((v1_relat_1 (k11_finseq_1 X0 X1 X2)) \wedge \\
& ((v4_relat_1 (k11_finseq_1 X0 X1 X2) (k1_enumset1 np_1 np_2 np_3)) \wedge \\
& ((v1_funct_1 (k11_finseq_1 X0 X1 X2)) \wedge ((v1_partfun1 (k11_finseq_1 \\
& X0 X1 X2) (k1_enumset1 np_1 np_2 np_3)) \wedge (v1_group_7 (k11_finseq_1 \\
& X0 X1 X2)))))))))
\end{aligned} \tag{3}$$

Theorem 1

$$\begin{aligned}
& \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_group_1 X0) \wedge ((v3_group_1 \\
& X0) \wedge (l3_algstr_0 X0)))) \Rightarrow (\forall X1.((\neg v2_struct_0 X1) \wedge ((v2_group_1 \\
& X1) \wedge (v3_group_1 X1) \wedge (l3_algstr_0 X1)))) \Rightarrow (\forall X2.((\neg v2_struct_0 \\
& X2) \wedge ((v2_group_1 X2) \wedge (v3_group_1 X2) \wedge (l3_algstr_0 X2)))) \Rightarrow \\
& ((v1_relat_1 (k11_finseq_1 X0 X1 X2)) \wedge (v4_relat_1 (k11_finseq_1 \\
& X0 X1 X2) (k1_enumset1 np_1 np_2 np_3)) \wedge ((v1_funct_1 (k11_finseq_1 \\
& X0 X1 X2)) \wedge ((v1_partfun1 (k11_finseq_1 X0 X1 X2) (k1_enumset1 np_1 \\
& np_2 np_3)) \wedge (v1_group_7 (k11_finseq_1 X0 X1 X2)) \wedge ((v2_group_7 \\
& (k11_finseq_1 X0 X1 X2) (k1_enumset1 np_1 np_2 np_3)) \wedge (v3_group_7 \\
& (k11_finseq_1 X0 X1 X2) (k1_enumset1 np_1 np_2 np_3))))))))))
\end{aligned}$$