

t21_group_7 (TMdad- DKL9RaCggAFpz3zZBWgkN7Yz3DmUMg)

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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 $v5_group_1 : \iota \Rightarrow o$ be given. Let $l3_algstr_0 : \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $k10_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $np_2 : \iota$ 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. Let $v4_group_7 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_group_1 X0) \wedge ((v3_group_1 \\
& X0) \wedge (l3_algstr_0 X0)))) \Rightarrow (\forall X1.((\neg v2_struct_0 X1) \wedge ((v2_group_1 \\
& X1) \wedge ((v3_group_1 X1) \wedge (l3_algstr_0 X1)))) \Rightarrow ((v1_relat_1 (k10_finseq_1 \\
& X0 X1)) \wedge ((v4_relat_1 (k10_finseq_1 X0 X1) (k2_tarski np_1 np_2)) \wedge \\
& ((v1_funct_1 (k10_finseq_1 X0 X1)) \wedge ((v1_partfun1 (k10_finseq_1 \\
& X0 X1) (k2_tarski np_1 np_2)) \wedge ((v1_group_7 (k10_finseq_1 X0 \\
& X1)) \wedge ((v2_group_7 (k10_finseq_1 X0 X1) (k2_tarski np_1 np_2)) \wedge \\
& (v3_group_7 (k10_finseq_1 X0 X1) (k2_tarski np_1 np_2))))))))))
\end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v2_struct_0 X0) \wedge ((v5_group_1 X0) \wedge (l3_algstr_0 \\
& X0))) \Rightarrow (\forall X1.((\neg v2_struct_0 X1) \wedge ((v5_group_1 X1) \wedge (l3_algstr_0 \\
& X1)))) \Rightarrow ((v1_relat_1 (k10_finseq_1 X0 X1)) \wedge ((v4_relat_1 (k10_finseq_1 \\
& X0 X1) (k2_tarski np_1 np_2)) \wedge ((v1_funct_1 (k10_finseq_1 X0 \\
& X1)) \wedge ((v1_partfun1 (k10_finseq_1 X0 X1) (k2_tarski np_1 np_2)) \wedge \\
& ((v1_group_7 (k10_finseq_1 X0 X1)) \wedge (v4_group_7 (k10_finseq_1 \\
& X0 X1) (k2_tarski np_1 np_2))))))))))
\end{aligned} \tag{2}$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_group_1 X0) \wedge ((v3_group_1 \\ & X0) \wedge ((v5_group_1 X0) \wedge (l3_algstr_0 X0)))))) \Rightarrow (\forall X1.((\neg v2_struct_0 \\ & X1) \wedge ((v2_group_1 X1) \wedge ((v3_group_1 X1) \wedge ((v5_group_1 X1) \wedge (l3_algstr_0 \\ & X1)))))) \Rightarrow ((v1_relat_1 (k10_finseq_1 X0 X1)) \wedge ((v4_relat_1 (k10_finseq_1 \\ & X0 X1) (k2_tarski np_1 np_2)) \wedge ((v1_funct_1 (k10_finseq_1 X0 \\ & X1)) \wedge ((v1_partfun1 (k10_finseq_1 X0 X1) (k2_tarski np_1 np_2)) \wedge \\ & ((v1_group_7 (k10_finseq_1 X0 X1)) \wedge ((v2_group_7 (k10_finseq_1 \\ & X0 X1) (k2_tarski np_1 np_2)) \wedge ((v3_group_7 (k10_finseq_1 X0 \\ & X1) (k2_tarski np_1 np_2)) \wedge (v4_group_7 (k10_finseq_1 X0 X1) \\ & (k2_tarski np_1 np_2)))))))))) \end{aligned}$$