

t20_group_7
(TMZB2VQ1A26wRFfUosRPNcBudgord6C65dL)

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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 $v1_relat_1 : \iota \Rightarrow o$ 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. Assume the following.

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

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_group_1 X0) \wedge (l3_algstr_0 \\ & X0))) \Rightarrow (\forall X1.((\neg v2_struct_0 X1) \wedge ((v2_group_1 X1) \wedge (l3_algstr_0 \\ & X1))) \Rightarrow ((v1_relat_1 (k10_finseq_1 X0 X1)) \wedge ((v4_relat_1 (k10_finseq_1 \\ & X0 X1) (k2_tarski np_1 np_2)) \wedge ((v1_funct_1 (k10_finseq_1 X0 \\ & X1)) \wedge ((v1_partfun1 (k10_finseq_1 X0 X1) (k2_tarski np_1 np_2)) \wedge \\ & ((v1_group_7 (k10_finseq_1 X0 X1)) \wedge (v2_group_7 (k10_finseq_1 \\ & X0 X1) (k2_tarski np_1 np_2)))))))))) \end{aligned} \tag{2}$$

Theorem 1

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