

t15_group_7
(TMLk53dJERNhifJj9xUhzFttMtwugzwWSDA)

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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 $k9_finseq_1 : \iota \Rightarrow \iota$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ 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.

$$\begin{aligned} \forall X0. (&(\neg v2_struct_0 X0) \wedge ((v5_group_1 X0) \wedge (l3_algstr_0 \\ &X0))) \Rightarrow ((v1_relat_1 (k9_finseq_1 X0)) \wedge ((v4_relat_1 (k9_finseq_1 \\ &X0) (k1_tarski np_1)) \wedge ((v1_funct_1 (k9_finseq_1 X0)) \wedge ((v1_partfun1 \\ &(k9_finseq_1 X0) (k1_tarski np_1)) \wedge ((v1_group_7 (k9_finseq_1 \\ &X0)) \wedge (v4_group_7 (k9_finseq_1 X0) (k1_tarski np_1))))))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. (&(\neg v2_struct_0 X0) \wedge ((v3_group_1 X0) \wedge (l3_algstr_0 \\ &X0))) \Rightarrow ((v1_relat_1 (k9_finseq_1 X0)) \wedge ((v4_relat_1 (k9_finseq_1 \\ &X0) (k1_tarski np_1)) \wedge ((v1_funct_1 (k9_finseq_1 X0)) \wedge ((v1_partfun1 \\ &(k9_finseq_1 X0) (k1_tarski np_1)) \wedge ((v1_group_7 (k9_finseq_1 \\ &X0)) \wedge (v3_group_7 (k9_finseq_1 X0) (k1_tarski np_1))))))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. (&(\neg v2_struct_0 X0) \wedge ((v2_group_1 X0) \wedge (l3_algstr_0 \\ &X0))) \Rightarrow ((v1_relat_1 (k9_finseq_1 X0)) \wedge ((v4_relat_1 (k9_finseq_1 \\ &X0) (k1_tarski np_1)) \wedge ((v1_funct_1 (k9_finseq_1 X0)) \wedge ((v1_partfun1 \\ &(k9_finseq_1 X0) (k1_tarski np_1)) \wedge ((v1_group_7 (k9_finseq_1 \\ &X0)) \wedge (v2_group_7 (k9_finseq_1 X0) (k1_tarski np_1))))))))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0.((\neg v2_struct_0 X0) \wedge (l3_algstr_0 X0)) \Rightarrow & ((v1_relat_1 \\ (k9_finseq_1 X0)) \wedge ((v4_relat_1 (k9_finseq_1 X0) (k1_tarski \ np_1)) \wedge & (4) \\ ((v1_funct_1 (k9_finseq_1 X0)) \wedge ((v1_partfun1 (k9_finseq_1 X0) \\ (k1_tarski \ np_1)) \wedge (v1_group_7 (k9_finseq_1 X0)))))) \end{aligned}$$

Theorem 1

$$\begin{aligned} \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_group_1 X0) \wedge ((v3_group_1 \\ X0) \wedge ((v5_group_1 X0) \wedge (l3_algstr_0 X0)))))) \Rightarrow & ((v1_relat_1 (k9_finseq_1 \\ X0)) \wedge ((v4_relat_1 (k9_finseq_1 X0) (k1_tarski \ np_1)) \wedge ((v1_funct_1 \\ (k9_finseq_1 X0)) \wedge ((v1_partfun1 (k9_finseq_1 X0) (k1_tarski \\ np_1)) \wedge ((v1_group_7 (k9_finseq_1 X0)) \wedge ((v2_group_7 (k9_finseq_1 \\ X0) (k1_tarski \ np_1)) \wedge ((v3_group_7 (k9_finseq_1 X0) (k1_tarski \\ np_1)) \wedge (v4_group_7 (k9_finseq_1 X0) (k1_tarski \ np_1)))))))))) \end{aligned}$$