

t79_group_6

(TMKY3WNR8i1ZepxTEdmscFkArr89DWSYpXy)

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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 $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v1_group_6 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_group_6 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_group_6 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_group_6 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v3_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_group_6 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r2_group_6 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_group_1 X0) \wedge ((v3_group_1 \\
 & X0) \wedge (l3_algstr_0 X0)))) \Rightarrow (\forall X1.((\neg v2_struct_0 X1) \wedge ((v2_group_1 \\
 & X1) \wedge ((v3_group_1 X1) \wedge (l3_algstr_0 X1)))) \Rightarrow (\forall X2.((v1_funct_1 \\
 & X2) \wedge ((v1_funct_2 X2 (u1_struct_0 X1) (u1_struct_0 X0)) \wedge ((v1_group_6 \\
 & X2 X1 X0) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 (u1_struct_0 \\
 & X1) (u1_struct_0 X0)))))) \Rightarrow ((r2_group_6 (k5_group_6 X1 (k9_group_6 \\
 & X1 X0 X2)) (k10_group_6 X1 X0 X2)) \wedge (\exists X3.((v1_funct_1 X3) \wedge \\
 & ((v1_funct_2 X3 (u1_struct_0 (k5_group_6 X1 (k9_group_6 X1 X0 X2))) \\
 & (u1_struct_0 (k10_group_6 X1 X0 X2))) \wedge ((v1_group_6 X3 (k5_group_6 \\
 & X1 (k9_group_6 X1 X0 X2)) (k10_group_6 X1 X0 X2)) \wedge (m1_subset_1 X3 \\
 & (k1_zfmisc_1 (k2_zfmisc_1 (u1_struct_0 (k5_group_6 X1 (k9_group_6 \\
 & X1 X0 X2))) (u1_struct_0 (k10_group_6 X1 X0 X2)))))) \wedge ((v3_funct_2 \\
 & X3 (u1_struct_0 (k5_group_6 X1 (k9_group_6 X1 X0 X2))) (u1_struct_0 \\
 & (k10_group_6 X1 X0 X2))) \wedge (r1_funct_2 (u1_struct_0 X1) (u1_struct_0 \\
 & X0) (u1_struct_0 X1) (u1_struct_0 (k10_group_6 X1 X0 X2)) X2 (k1_partfun1 \\
 & (u1_struct_0 X1) (u1_struct_0 (k5_group_6 X1 (k9_group_6 X1 X0 \\
 & X2))) (u1_struct_0 (k5_group_6 X1 (k9_group_6 X1 X0 X2))) (u1_struct_0 \\
 & (k10_group_6 X1 X0 X2)) (k8_group_6 X1 (k9_group_6 X1 X0 X2)) X3))))))
 \end{aligned}$$

(1)

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_group_1 X0) \wedge ((v3_group_1 \\ & X0) \wedge (l3_algstr_0 X0)))) \Rightarrow (\forall X1.((\neg v2_struct_0 X1) \wedge ((v2_group_1 \\ & X1) \wedge ((v3_group_1 X1) \wedge (l3_algstr_0 X1)))) \Rightarrow (\forall X2.((v1_funct_1 \\ & X2) \wedge ((v1_funct_2 X2 (u1_struct_0 X1) (u1_struct_0 X0)) \wedge ((v1_group_6 \\ & X2 X1 X0) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 (u1_struct_0 \\ & X1) (u1_struct_0 X0)))))) \Rightarrow (\exists X3.((v1_funct_1 X3) \wedge ((v1_funct_2 \\ & X3 (u1_struct_0 (k5_group_6 X1 (k9_group_6 X1 X0 X2))) (u1_struct_0 \\ & (k10_group_6 X1 X0 X2))) \wedge ((v1_group_6 X3 (k5_group_6 X1 (k9_group_6 \\ & X1 X0 X2)) (k10_group_6 X1 X0 X2)) \wedge (m1_subset_1 X3 (k1_zfmisc_1 \\ & (k2_zfmisc_1 (u1_struct_0 (k5_group_6 X1 (k9_group_6 X1 X0 X2))) \\ & (u1_struct_0 (k10_group_6 X1 X0 X2)))))) \wedge ((v3_funct_2 X3 (u1_struct_0 \\ & (k5_group_6 X1 (k9_group_6 X1 X0 X2))) (u1_struct_0 (k10_group_6 \\ & X1 X0 X2))) \wedge (r1_funct_2 (u1_struct_0 X1) (u1_struct_0 X0) (u1_struct_0 \\ & X1) (u1_struct_0 (k10_group_6 X1 X0 X2)) X2 (k1_partfun1 (u1_struct_0 \\ & X1) (u1_struct_0 (k5_group_6 X1 (k9_group_6 X1 X0 X2))) (u1_struct_0 \\ & (k5_group_6 X1 (k9_group_6 X1 X0 X2))) (u1_struct_0 (k10_group_6 \\ & X1 X0 X2)) (k8_group_6 X1 (k9_group_6 X1 X0 X2)) X3)))))) \end{aligned}$$