

t19_cc0sp2 (TMHPsJVwQmdAPZtWETD-
wJRUPJzJDzCRzYMh)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $v1_compts_1 : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $k5_cc0sp2 : \iota \Rightarrow \iota$ be given. Let $v13_algstr_0 : \iota \Rightarrow o$ be given. Let $v2_rlvect_1 : \iota \Rightarrow o$ be given. Let $v3_rlvect_1 : \iota \Rightarrow o$ be given. Let $v4_rlvect_1 : \iota \Rightarrow o$ be given. Let $v2_clvect_1 : \iota \Rightarrow o$ be given. Let $v3_clvect_1 : \iota \Rightarrow o$ be given. Let $v4_clvect_1 : \iota \Rightarrow o$ be given. Let $v5_clvect_1 : \iota \Rightarrow o$ be given. Let $l1_clvect_1 : \iota \Rightarrow o$ be given. Let $v3_group_1 : \iota \Rightarrow o$ be given. Let $v5_group_1 : \iota \Rightarrow o$ be given. Let $v1_vectsp_1 : \iota \Rightarrow o$ be given. Let $v3_vectsp_1 : \iota \Rightarrow o$ be given. Let $v2_cfuncdom : \iota \Rightarrow o$ be given. Let $l1_cfuncdom : \iota \Rightarrow o$ be given. Let $l6_algstr_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0. (&(\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge ((v1_compts_1 \\ X0) \wedge (l1_pre_topc X0)))) \Rightarrow (&(\neg v2_struct_0 (k5_cc0sp2 X0)) \wedge ((v13_algstr_0 \\ (k5_cc0sp2 X0)) \wedge ((v2_rlvect_1 (k5_cc0sp2 X0)) \wedge ((v3_rlvect_1 \\ (k5_cc0sp2 X0)) \wedge ((v4_rlvect_1 (k5_cc0sp2 X0)) \wedge ((v3_group_1 \\ (k5_cc0sp2 X0)) \wedge ((v5_group_1 (k5_cc0sp2 X0)) \wedge ((v1_vectsp_1 \\ (k5_cc0sp2 X0)) \wedge ((v3_vectsp_1 (k5_cc0sp2 X0)) \wedge ((v2_clvect_1 \\ (k5_cc0sp2 X0)) \wedge ((v3_clvect_1 (k5_cc0sp2 X0)) \wedge ((v4_clvect_1 \\ (k5_cc0sp2 X0)) \wedge ((v2_cfuncdom (k5_cc0sp2 X0)) \wedge (l1_cfuncdom \\ (k5_cc0sp2 X0)))))))))))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} \forall X0. (&(\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge ((v1_compts_1 \\ X0) \wedge (l1_pre_topc X0)))) \Rightarrow (&(v2_clvect_1 (k5_cc0sp2 X0)) \wedge ((v3_clvect_1 \\ (k5_cc0sp2 X0)) \wedge ((v4_clvect_1 (k5_cc0sp2 X0)) \wedge (v5_clvect_1 \\ (k5_cc0sp2 X0)))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge ((v1_compts_1 \\ X0) \wedge (l1_pre_topc X0)))) \Rightarrow ((v13_algstr_0 (k5_cc0sp2 X0)) \wedge ((v2_rlvect_1 \\ (k5_cc0sp2 X0)) \wedge ((v3_rlvect_1 (k5_cc0sp2 X0)) \wedge ((v4_rlvect_1 \\ (k5_cc0sp2 X0)) \wedge ((v3_group_1 (k5_cc0sp2 X0)) \wedge ((v5_group_1 (\\ k5_cc0sp2 X0)) \wedge ((v1_vectsp_1 (k5_cc0sp2 X0)) \wedge ((v3_vectsp_1 \\ (k5_cc0sp2 X0)) \wedge ((v2_clvect_1 (k5_cc0sp2 X0)) \wedge ((v3_clvect_1 \\ (k5_cc0sp2 X0)) \wedge ((v4_clvect_1 (k5_cc0sp2 X0)) \wedge (v2_cfunccom \\ (k5_cc0sp2 X0)))))))))))))) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0.(l1_cfunccom X0) \Rightarrow ((l6_algstr_0 X0) \wedge (l1_clvect_1 X0)) \quad (4)$$

Theorem 1

$$\begin{aligned} \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge ((v1_compts_1 \\ X0) \wedge (l1_pre_topc X0)))) \Rightarrow ((\neg v2_struct_0 (k5_cc0sp2 X0)) \wedge ((v13_algstr_0 \\ (k5_cc0sp2 X0)) \wedge ((v2_rlvect_1 (k5_cc0sp2 X0)) \wedge ((v3_rlvect_1 \\ (k5_cc0sp2 X0)) \wedge ((v4_rlvect_1 (k5_cc0sp2 X0)) \wedge ((v2_clvect_1 \\ (k5_cc0sp2 X0)) \wedge ((v3_clvect_1 (k5_cc0sp2 X0)) \wedge ((v4_clvect_1 \\ (k5_cc0sp2 X0)) \wedge ((v5_clvect_1 (k5_cc0sp2 X0)) \wedge (l1_clvect_1 \\ (k5_cc0sp2 X0)))))))))))))) \end{aligned}$$