

t41_cc0sp2
(TMZQLWaKnpoVMc3Vu5Tr7djVeCNcpjs1hyZ)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $m1_clvect_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $g1_clvect_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_cc0sp2 : \iota \Rightarrow \iota$ be given. Let $k10_csspace : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_cfunclom : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k1_c0sp1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_csspace : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v6_clvect_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $l1_struct_0 : \iota \Rightarrow o$ be given. Let $v1_clvect_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge ((v13_algstr_0 X0) \wedge ((v2_rlvect_1 \\ & X0) \wedge ((v3_rlvect_1 X0) \wedge ((v4_rlvect_1 X0) \wedge ((v2_clvect_1 X0) \wedge \\ & ((v3_clvect_1 X0) \wedge ((v4_clvect_1 X0) \wedge ((v5_clvect_1 X0) \wedge (l1_clvect_1 \\ & X0)))))))))) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 \\ & X0))) \Rightarrow ((v6_clvect_1 X1 X0) \Rightarrow ((v1_xboole_0 X1) \vee (m1_clvect_1 (\\ & g1_clvect_1 X1 (k10_csspace X0 X1) (k1_c0sp1 X0 X1) (k9_csspace \\ & X0 X1)) X0)))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge (l1_struct_0 X0)) \Rightarrow (\neg v1_xboole_0 (u1_struct_0 X0)) \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow ((\neg v2_struct_0 (k6_cfunclom X0)) \wedge \\ & ((v13_algstr_0 (k6_cfunclom X0)) \wedge ((v2_rlvect_1 (k6_cfunclom \\ & X0)) \wedge ((v3_rlvect_1 (k6_cfunclom X0)) \wedge ((v4_rlvect_1 (k6_cfunclom \\ & X0)) \wedge ((v1_clvect_1 (k6_cfunclom X0)) \wedge ((v2_clvect_1 (k6_cfunclom \\ & X0)) \wedge ((v3_clvect_1 (k6_cfunclom X0)) \wedge ((v4_clvect_1 (k6_cfunclom \\ & X0)) \wedge (v5_clvect_1 (k6_cfunclom X0)))))))))) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc X0))) \Rightarrow ((\neg v1_xboole_0 (k6_cc0sp2 X0)) \wedge (v6_clvect_1 (k6_cc0sp2 X0) (k6_cfunctor (u1_struct_0 X0)))) \quad (4)$$

Assume the following.

$$\forall X0.(l1_pre_topc X0) \Rightarrow (l1_struct_0 X0) \quad (5)$$

Assume the following.

$$\forall X0.(\neg v1_xboole_0 X0) \Rightarrow ((\neg v2_struct_0 (k6_cfunctor X0)) \wedge ((v1_clvect_1 (k6_cfunctor X0)) \wedge (l1_clvect_1 (k6_cfunctor X0)))) \quad (6)$$

Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc X0))) \Rightarrow ((\neg v1_xboole_0 (k6_cc0sp2 X0)) \wedge (m1_subset_1 (k6_cc0sp2 X0) (k1_zfmisc_1 (u1_struct_0 (k6_cfunctor (u1_struct_0 X0))))) \quad (7)$$

Theorem 1

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc X0))) \Rightarrow (m1_clvect_1 (g1_clvect_1 (k6_cc0sp2 X0) (k10_csspace (k6_cfunctor (u1_struct_0 X0)) (k6_cc0sp2 X0)) (k1_c0sp1 (k6_cfunctor (u1_struct_0 X0)) (k6_cc0sp2 X0)) (k9_csspace (k6_cfunctor (u1_struct_0 X0)) (k6_cc0sp2 X0)) (k6_cfunctor (u1_struct_0 X0))))$$