

t29_c0sp2

(TMVGXdYZ5z3eFNB8sfCMHQ9T7fpoQiVMG8X)

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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 $m1_rlsub_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7_c0sp2 : \iota \Rightarrow \iota$ be given. Let $k10_funcsdom : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ 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 $v5_rlvect_1 : \iota \Rightarrow o$ be given. Let $v6_rlvect_1 : \iota \Rightarrow o$ be given. Let $v7_rlvect_1 : \iota \Rightarrow o$ be given. Let $v8_rlvect_1 : \iota \Rightarrow o$ be given. Let $l1_rlvect_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v1_rlsub_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $g1_rlvect_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_rssize : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_rssize : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_rssize : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_c0sp2 : \iota \Rightarrow \iota$ be given. Let $v1_rlvect_1 : \iota \Rightarrow o$ be given. Let $k9_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $k8_funcsdom : \iota \Rightarrow \iota$ be given. Let $k5_funcsdom : \iota \Rightarrow \iota$ be given. Let $k7_funcsdom : \iota \Rightarrow \iota$ be given. Let $k8_funcop_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k6_numbers : \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge ((v13_algstr_0 X0) \wedge ((v2_rlvect_1 \\ & X0) \wedge ((v3_rlvect_1 X0) \wedge ((v4_rlvect_1 X0) \wedge ((v5_rlvect_1 X0) \wedge \\ & ((v6_rlvect_1 X0) \wedge ((v7_rlvect_1 X0) \wedge ((v8_rlvect_1 X0) \wedge (l1_rlvect_1 \\ & X0)))))))))) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 \\ & X0))) \Rightarrow ((v1_rlsub_1 X1 X0) \Rightarrow ((v1_xboole_0 X1) \vee (m1_rlsub_1 (g1_rlvect_1 \\ & X1 (k10_rssize X0 X1) (k8_rssize X0 X1) (k9_rssize X0 X1)) X0)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\ & X0))) \Rightarrow ((\neg v1_xboole_0 (k6_c0sp2 X0)) \wedge (v1_rlsub_1 (k6_c0sp2 X0) \\ & (k10_funcsdom (u1_struct_0 X0)))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\ & X0))) \Rightarrow ((\neg v1_xboole_0 (k6_c0sp2 X0)) \wedge (m1_subset_1 (k6_c0sp2 \\ & X0) (k1_zfmisc_1 (u1_struct_0 (k10_funcsdom (u1_struct_0 X0)))))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. (\neg v2_struct_0 (k10_funcsdom X0) \wedge ((v13_algstr_0 \\ & (k10_funcsdom X0) \wedge ((v1_rlvect_1 (k10_funcsdom X0) \wedge ((v2_rlvect_1 \\ & (k10_funcsdom X0) \wedge ((v3_rlvect_1 (k10_funcsdom X0) \wedge ((v4_rlvect_1 \\ & (k10_funcsdom X0) \wedge ((v5_rlvect_1 (k10_funcsdom X0) \wedge ((v6_rlvect_1 \\ & (k10_funcsdom X0) \wedge ((v7_rlvect_1 (k10_funcsdom X0) \wedge ((v8_rlvect_1 \\ & (k10_funcsdom X0) \wedge (l1_rlvect_1 (k10_funcsdom X0))))))))))))))))) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\ & X0))) \Rightarrow (k7_c0sp2 X0 = g1_rlvect_1 (k6_c0sp2 X0) (k10_rssize (k10_funcsdom \\ & (u1_struct_0 X0)) (k6_c0sp2 X0)) (k8_rssize (k10_funcsdom (u1_struct_0 \\ & X0)) (k6_c0sp2 X0)) (k9_rssize (k10_funcsdom (u1_struct_0 X0)) \\ & (k6_c0sp2 X0))) \end{aligned} \quad (5)$$

Assume the following.

$$\forall X0. k10_funcsdom X0 = g1_rlvect_1 (k9_funct_2 X0 k1_numbers) (k8_funcsdom X0) (k5_funcsdom X0) (k7_funcsdom X0) \quad (6)$$

Assume the following.

$$\forall X0. k8_funcsdom X0 = k8_funcop_1 k5_numbers X0 k6_numbers \quad (7)$$

Theorem 1

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc X0))) \Rightarrow (m1_rlsub_1 (k7_c0sp2 X0) (k10_funcsdom (u1_struct_0 X0)))$$