

l3_csspace3

(TMabnscgpGops2o9VFZfjxSmc2xqp5BDrvW)

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Let $m1_clvect_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $g1_clvect_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_csspace3 : \iota$ be given. Let $k10_csspace : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_csspace : \iota$ be given. Let $k8_csspace : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_csspace : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ 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 $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v6_clvect_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_clvect_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge ((v13_algstr_0 X0) \wedge ((v2_rlvect_1 \\ & X0) \wedge ((v3_rlvect_1 X0) \wedge ((v4_rlvect_1 X0) \wedge ((v2_clvect_1 X0) \wedge \\ & ((v3_clvect_1 X0) \wedge ((v4_clvect_1 X0) \wedge ((v5_clvect_1 X0) \wedge (l1_clvect_1 \\ & X0)))))))))) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 \\ & X0))) \Rightarrow ((v6_clvect_1 X1 X0) \Rightarrow ((v1_xboole_0 X1) \vee (m1_clvect_1 (\\ & g1_clvect_1 X1 (k10_csspace X0 X1) (k8_csspace X0 X1) (k9_csspace \\ & X0 X1)) X0)))) \end{aligned} \tag{1}$$

Assume the following.

$$v6_clvect_1 k1_csspace3 k7_csspace \tag{2}$$

Assume the following.

$$\begin{aligned} & (\neg v2_struct_0 k7_csspace) \wedge ((v13_algstr_0 k7_csspace) \wedge ((v2_rlvect_1 \\ & k7_csspace) \wedge ((v3_rlvect_1 k7_csspace) \wedge ((v4_rlvect_1 k7_csspace) \wedge \\ & ((v1_clvect_1 k7_csspace) \wedge ((v2_clvect_1 k7_csspace) \wedge ((v3_clvect_1 \\ & k7_csspace) \wedge ((v4_clvect_1 k7_csspace) \wedge (v5_clvect_1 k7_csspace)))))))))) \end{aligned} \tag{3}$$

Assume the following.

$$\neg v1_xboole_0 k1_csspace3 \tag{4}$$

Assume the following.

$$(\neg v2_struct_0\ k7_csspace) \wedge ((v1_clvect_1\ k7_csspace) \wedge (l1_clvect_1\ k7_csspace)) \quad (5)$$

Assume the following.

$$m1_subset_1\ k1_csspace3\ (k1_zfmisc_1\ (u1_struct_0\ k7_csspace)) \quad (6)$$

Theorem 1

$$m1_clvect_1\ (g1_clvect_1\ k1_csspace3\ (k10_csspace\ k7_csspace\ k1_csspace3)\ (k8_csspace\ k7_csspace\ k1_csspace3)\ (k9_csspace\ k7_csspace\ k1_csspace3))\ k7_csspace$$