

t13_csspace

(TMchTeH752joEYHcyPU6gJGixbtDZKeukvk)

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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 $k11_csspace : \iota$ 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 $v6_clvect_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ 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 $v1_clvect_1 : \iota \Rightarrow o$ be given. Assume the following.

$$(v6_clvect_1 \ k11_csspace \ k7_csspace) \wedge (\neg v1_xboole_0 \ k11_csspace) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 \ X0) \wedge ((v13_algstr_0 \ X0) \wedge ((v2_rlvect_1 \\ & \ X0) \wedge ((v3_rlvect_1 \ X0) \wedge ((v4_rlvect_1 \ X0) \wedge ((v2_clvect_1 \ X0) \wedge \\ & ((v3_clvect_1 \ X0) \wedge ((v4_clvect_1 \ X0) \wedge ((v5_clvect_1 \ X0) \wedge (l1_clvect_1 \\ & \ X0)))))))))) \Rightarrow (\forall X1. (m1_subset_1 \ X1 \ (k1_zfmisc_1 \ (u1_struct_0 \\ & \ X0))) \Rightarrow ((v6_clvect_1 \ X1 \ X0) \Rightarrow ((v1_xboole_0 \ X1) \vee (m1_clvect_1 \ (\\ & \ g1_clvect_1 \ X1 \ (k10_csspace \ X0 \ X1) \ (k8_csspace \ X0 \ X1) \ (k9_csspace \\ & \ X0 \ X1) \ X0)))))) \end{aligned} \quad (2)$$

Assume the following.

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

Assume the following.

$$(\neg v2_struct_0 \ k7_csspace) \wedge ((v1_clvect_1 \ k7_csspace) \wedge (l1_clvect_1 \ k7_csspace)) \quad (4)$$

Assume the following.

$$m1_subset_1 \ k11_csspace \ (k1_zfmisc_1 \ (u1_struct_0 \ k7_csspace)) \quad (5)$$

Theorem 1

$$m1_clvect_1 \ (g1_clvect_1 \ k11_csspace \ (k10_csspace \ k7_csspace \ k11_csspace) \ (k8_csspace \ k7_csspace \ k11_csspace) \ (k9_csspace \ k7_csspace \ k11_csspace)) \ k7_csspace$$