

l8_csspace3
(TMWaZG1P46CVxPS3GgffGbyQFR66AzHRbEB)

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Let $v2_struct_0 : \iota \Rightarrow o$ 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 $v13_algstr_0 : \iota \Rightarrow o$ 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 $m1_clvect_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_clvect_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & m1_clvect_1 (g1_clvect_1 k1_csspace3 (k10_csspace k7_csspace \\ & k1_csspace3) (k8_csspace k7_csspace k1_csspace3) (k9_csspace \\ & k7_csspace k1_csspace3)) k7_csspace \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned}
& (v13_algstr_0 (g1_clvect_1 k1_csspace3 (k10_csspace k7_csspace \\
& k1_csspace3) (k8_csspace k7_csspace k1_csspace3) (k9_csspace \\
& k7_csspace k1_csspace3))) \wedge ((v2_rlvect_1 (g1_clvect_1 k1_csspace3 \\
& (k10_csspace k7_csspace k1_csspace3) (k8_csspace k7_csspace \\
& k1_csspace3) (k9_csspace k7_csspace k1_csspace3))) \wedge ((v3_rlvect_1 \\
& (g1_clvect_1 k1_csspace3 (k10_csspace k7_csspace k1_csspace3) \\
& (k8_csspace k7_csspace k1_csspace3) (k9_csspace k7_csspace k1_csspace3))) \wedge \\
& ((v4_rlvect_1 (g1_clvect_1 k1_csspace3 (k10_csspace k7_csspace \\
& k1_csspace3) (k8_csspace k7_csspace k1_csspace3) (k9_csspace \\
& k7_csspace k1_csspace3))) \wedge ((v1_clvect_1 (g1_clvect_1 k1_csspace3 \\
& (k10_csspace k7_csspace k1_csspace3) (k8_csspace k7_csspace \\
& k1_csspace3) (k9_csspace k7_csspace k1_csspace3))) \wedge ((v2_clvect_1 \\
& (g1_clvect_1 k1_csspace3 (k10_csspace k7_csspace k1_csspace3) \\
& (k8_csspace k7_csspace k1_csspace3) (k9_csspace k7_csspace k1_csspace3))) \wedge \\
& ((v3_clvect_1 (g1_clvect_1 k1_csspace3 (k10_csspace k7_csspace \\
& k1_csspace3) (k8_csspace k7_csspace k1_csspace3) (k9_csspace \\
& k7_csspace k1_csspace3))) \wedge ((v4_clvect_1 (g1_clvect_1 k1_csspace3 \\
& (k10_csspace k7_csspace k1_csspace3) (k8_csspace k7_csspace \\
& k1_csspace3) (k9_csspace k7_csspace k1_csspace3))) \wedge (v5_clvect_1 \\
& (g1_clvect_1 k1_csspace3 (k10_csspace k7_csspace k1_csspace3) \\
& (k8_csspace k7_csspace k1_csspace3) (k9_csspace k7_csspace k1_csspace3))))))))) \\
& \tag{2}
\end{aligned}$$

Assume the following.

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

Assume the following.

$$\begin{aligned}
& \forall X0. ((\neg v2_struct_0 X0) \wedge ((v13_algstr_0 X0) \wedge ((v2_rlvect_1 \\
& X0) \wedge ((v3_rlvect_1 X0) \wedge ((v4_rlvect_1 X0) \wedge ((v2_clvect_1 X0) \wedge \\
& ((v3_clvect_1 X0) \wedge ((v4_clvect_1 X0) \wedge ((v5_clvect_1 X0) \wedge (l1_clvect_1 \\
& X0))))))))) \Rightarrow (\forall X1. (m1_clvect_1 X1 X0) \Rightarrow ((\neg v2_struct_0 \\
& X1) \wedge ((v13_algstr_0 X1) \wedge ((v2_rlvect_1 X1) \wedge ((v3_rlvect_1 X1) \wedge \\
& ((v4_rlvect_1 X1) \wedge ((v2_clvect_1 X1) \wedge ((v3_clvect_1 X1) \wedge ((v4_clvect_1 \\
& X1) \wedge ((v5_clvect_1 X1) \wedge (l1_clvect_1 X1))))))))) \\
& \tag{4}
\end{aligned}$$

Assume the following.

$$\begin{aligned}
& (\neg v2_struct_0 k7_csspace) \wedge ((v1_clvect_1 k7_csspace) \wedge (l1_clvect_1 \\
& k7_csspace)) \\
& \tag{5}
\end{aligned}$$

Theorem 1

$$\begin{aligned} & (\neg v2_struct_0 (g1_clvect_1 k1_csspace3 (k10_csspace k7_csspace \\ & k1_csspace3) (k8_csspace k7_csspace k1_csspace3) (k9_csspace \\ & k7_csspace k1_csspace3))) \wedge ((v13_algstr_0 (g1_clvect_1 k1_csspace3 \\ & (k10_csspace k7_csspace k1_csspace3) (k8_csspace k7_csspace \\ & k1_csspace3) (k9_csspace k7_csspace k1_csspace3))) \wedge ((v2_rlvect_1 \\ & (g1_clvect_1 k1_csspace3 (k10_csspace k7_csspace k1_csspace3) \\ & (k8_csspace k7_csspace k1_csspace3) (k9_csspace k7_csspace k1_csspace3))) \wedge \\ & ((v3_rlvect_1 (g1_clvect_1 k1_csspace3 (k10_csspace k7_csspace \\ & k1_csspace3) (k8_csspace k7_csspace k1_csspace3) (k9_csspace \\ & k7_csspace k1_csspace3))) \wedge ((v4_rlvect_1 (g1_clvect_1 k1_csspace3 \\ & (k10_csspace k7_csspace k1_csspace3) (k8_csspace k7_csspace \\ & k1_csspace3) (k9_csspace k7_csspace k1_csspace3))) \wedge ((v2_clvect_1 \\ & (g1_clvect_1 k1_csspace3 (k10_csspace k7_csspace k1_csspace3) \\ & (k8_csspace k7_csspace k1_csspace3) (k9_csspace k7_csspace k1_csspace3))) \wedge \\ & ((v3_clvect_1 (g1_clvect_1 k1_csspace3 (k10_csspace k7_csspace \\ & k1_csspace3) (k8_csspace k7_csspace k1_csspace3) (k9_csspace \\ & k7_csspace k1_csspace3))) \wedge ((v4_clvect_1 (g1_clvect_1 k1_csspace3 \\ & (k10_csspace k7_csspace k1_csspace3) (k8_csspace k7_csspace \\ & k1_csspace3) (k9_csspace k7_csspace k1_csspace3))) \wedge ((v5_clvect_1 \\ & (g1_clvect_1 k1_csspace3 (k10_csspace k7_csspace k1_csspace3) \\ & (k8_csspace k7_csspace k1_csspace3) (k9_csspace k7_csspace k1_csspace3))) \wedge \\ & (l1_clvect_1 (g1_clvect_1 k1_csspace3 (k10_csspace k7_csspace \\ & k1_csspace3) (k8_csspace k7_csspace k1_csspace3) (k9_csspace \\ & k7_csspace k1_csspace3)))))))))) \end{aligned}$$