

t4_mod_4 (TM- PCb2YK5qXmwP6gVf2MTF2wE8hS1Sj6nFA)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v13_algstr_0 : \iota \Rightarrow o$ be given. Let $v3_group_1 : \iota \Rightarrow o$ be given. Let $v4_vectsp_1 : \iota \Rightarrow o$ be given. Let $v5_vectsp_1 : \iota \Rightarrow o$ 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 $l6_algstr_0 : \iota \Rightarrow o$ be given. Let $k2_mod_4 : \iota \Rightarrow \iota$ be given. Let $v36_algstr_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v3_group_1 X0) \wedge (l6_algstr_0 X0))) \Rightarrow ((v36_algstr_0 (k2_mod_4 X0)) \wedge (v3_group_1 (k2_mod_4 X0))) \quad (1)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v13_algstr_0 X0) \wedge (l6_algstr_0 X0))) \Rightarrow ((v13_algstr_0 (k2_mod_4 X0)) \wedge (v36_algstr_0 (k2_mod_4 X0))) \quad (2)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_rlvect_1 X0) \wedge (l6_algstr_0 X0))) \Rightarrow ((v36_algstr_0 (k2_mod_4 X0)) \wedge (v2_rlvect_1 (k2_mod_4 X0))) \quad (3)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v13_algstr_0 X0) \wedge ((v3_rlvect_1 X0) \wedge ((v4_rlvect_1 X0) \wedge (l6_algstr_0 X0))))) \Rightarrow ((v13_algstr_0 (k2_mod_4 X0)) \wedge ((v36_algstr_0 (k2_mod_4 X0)) \wedge ((v3_rlvect_1 (k2_mod_4 X0)) \wedge (v4_rlvect_1 (k2_mod_4 X0))))) \quad (4)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v4_vectsp_1 X0) \wedge (l6_algstr_0 X0))) \Rightarrow ((v36_algstr_0 (k2_mod_4 X0)) \wedge (v4_vectsp_1 (k2_mod_4 X0))) \quad (5)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge (l6_algstr_0 X0)) \Rightarrow ((\neg v2_struct_0 (k2_mod_4 X0)) \wedge (v36_algstr_0 (k2_mod_4 X0))) \quad (6)$$

Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((v5_vectsp_1 X0) \wedge (l6_algstr_0 X0))) \Rightarrow ((v36_algstr_0 (k2_mod_4 X0)) \wedge (v5_vectsp_1 (k2_mod_4 X0))) \quad (7)$$

Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge (l6_algstr_0 X0)) \Rightarrow ((v36_algstr_0 (k2_mod_4 X0)) \wedge (l6_algstr_0 (k2_mod_4 X0))) \quad (8)$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v13_algstr_0 X0) \wedge ((v3_group_1 X0) \wedge ((v4_vectsp_1 X0) \wedge ((v5_vectsp_1 X0) \wedge ((v2_rlvect_1 X0) \wedge ((v3_rlvect_1 X0) \wedge ((v4_rlvect_1 X0) \wedge (l6_algstr_0 X0)))))))))) \Rightarrow \\ & ((\neg v2_struct_0 (k2_mod_4 X0)) \wedge ((v13_algstr_0 (k2_mod_4 X0)) \wedge ((v36_algstr_0 (k2_mod_4 X0)) \wedge ((v3_group_1 (k2_mod_4 X0)) \wedge ((v4_vectsp_1 (k2_mod_4 X0)) \wedge ((v5_vectsp_1 (k2_mod_4 X0)) \wedge ((v2_rlvect_1 (k2_mod_4 X0)) \wedge ((v3_rlvect_1 (k2_mod_4 X0)) \wedge ((v4_rlvect_1 (k2_mod_4 X0)) \wedge (l6_algstr_0 (k2_mod_4 X0)))))))))))))) \end{aligned}$$