

t53_tdlat_3 (TMcJgCCnHNwMXSFp- PqC9M5qpSaFNbKoFGE3)

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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 $v4_tdlat_3 : \iota \Rightarrow o$ be given. Let $k4_tdlat_1 : \iota \Rightarrow \iota$ be given. Let $v10_lattices : \iota \Rightarrow o$ be given. Let $v17_lattices : \iota \Rightarrow o$ be given. Let $l3_lattices : \iota \Rightarrow o$ be given. Let $k8_tdlat_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc X0))) \Rightarrow (v4_tdlat_3 X0) \quad (1)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge ((v4_tdlat_3 X0) \wedge (l1_pre_topc X0)))) \Rightarrow (k4_tdlat_1 X0 = k8_tdlat_1 X0) \quad (2)$$

Assume the following.

$$\forall X0. ((v2_pre_topc X0) \wedge (l1_pre_topc X0)) \Rightarrow ((\neg v2_struct_0 (k8_tdlat_1 X0)) \wedge ((v10_lattices (k8_tdlat_1 X0)) \wedge ((v17_lattices (k8_tdlat_1 X0)) \wedge (l3_lattices (k8_tdlat_1 X0)))))) \quad (3)$$

Theorem 1

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc X0))) \Rightarrow ((v4_tdlat_3 X0) \Leftrightarrow ((\neg v2_struct_0 (k4_tdlat_1 X0)) \wedge ((v10_lattices (k4_tdlat_1 X0)) \wedge ((v17_lattices (k4_tdlat_1 X0)) \wedge (l3_lattices (k4_tdlat_1 X0)))))))$$