

t41_tdlat_3 (TMSYEwQmTBDz- ZVQzG97qr2zGMShfGp7QQ3J)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $v4_tdlat_3 : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $k4_tdlat_1 : \iota \Rightarrow \iota$ be given. Let $k8_tdlat_1 : \iota \Rightarrow \iota$ be given. Let $k2_tdlat_1 : \iota \Rightarrow \iota$ be given. Let $k6_tdlat_1 : \iota \Rightarrow \iota$ be given. Let $k3_tdlat_1 : \iota \Rightarrow \iota$ be given. Let $k7_tdlat_1 : \iota \Rightarrow \iota$ be given. Let $k1_tdlat_1 : \iota \Rightarrow \iota$ be given. Let $k5_tdlat_1 : \iota \Rightarrow \iota$ be given. Let $g3_lattices : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge ((v4_tdlat_3 \\ X0) \wedge (l1_pre_topc X0)))) \Rightarrow ((k2_tdlat_1 X0 = k6_tdlat_1 X0) \wedge (k3_tdlat_1 \\ X0 = k7_tdlat_1 X0)) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} \forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge ((v4_tdlat_3 \\ X0) \wedge (l1_pre_topc X0)))) \Rightarrow (k1_tdlat_1 X0 = k5_tdlat_1 X0) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} \forall X0. ((v2_pre_topc X0) \wedge (l1_pre_topc X0)) \Rightarrow (k8_tdlat_1 \\ X0 = g3_lattices (k5_tdlat_1 X0) (k6_tdlat_1 X0) (k7_tdlat_1 X0)) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} \forall X0. ((v2_pre_topc X0) \wedge (l1_pre_topc X0)) \Rightarrow (k4_tdlat_1 \\ X0 = g3_lattices (k1_tdlat_1 X0) (k2_tdlat_1 X0) (k3_tdlat_1 X0)) \end{aligned} \tag{4}$$

Theorem 1

$$\begin{aligned} \forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge ((v4_tdlat_3 \\ X0) \wedge (l1_pre_topc X0)))) \Rightarrow (k4_tdlat_1 X0 = k8_tdlat_1 X0) \end{aligned}$$