

t43_tdlat_3
(TMHna8j6tdPdxhs4QBoAtBXGvsrSBSBVzHe)

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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 $k2_tdlat_1 : \iota \Rightarrow \iota$ be given. Let $k10_tdlat_1 : \iota \Rightarrow \iota$ be given. Let $k3_tdlat_1 : \iota \Rightarrow \iota$ be given. Let $k11_tdlat_1 : \iota \Rightarrow \iota$ be given. Let $k1_realset1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_tdlat_1 : \iota \Rightarrow \iota$ be given. Let $k1_tdlat_1 : \iota \Rightarrow \iota$ be given. Let $k6_tdlat_1 : \iota \Rightarrow \iota$ be given. Let $k7_tdlat_1 : \iota \Rightarrow \iota$ be given. Let $k5_tdlat_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((v2_pre_topc\ X0) \wedge (l1_pre_topc\ X0)) \Rightarrow (k11_tdlat_1\ X0 = k1_realset1\ (k3_tdlat_1\ X0)\ (k9_tdlat_1\ X0)) \quad (1)$$

Assume the following.

$$\forall X0.((\neg v2_struct_0\ X0) \wedge ((v2_pre_topc\ X0) \wedge ((v4_tdlat_3\ X0) \wedge (l1_pre_topc\ X0)))) \Rightarrow (k1_tdlat_1\ X0 = k9_tdlat_1\ X0) \quad (2)$$

Assume the following.

$$\forall X0.((v2_pre_topc\ X0) \wedge (l1_pre_topc\ X0)) \Rightarrow (k10_tdlat_1\ X0 = k1_realset1\ (k2_tdlat_1\ X0)\ (k9_tdlat_1\ X0)) \quad (3)$$

Assume the following.

$$\forall X0.((\neg v2_struct_0\ X0) \wedge ((v2_pre_topc\ X0) \wedge ((v4_tdlat_3\ X0) \wedge (l1_pre_topc\ X0)))) \Rightarrow ((k2_tdlat_1\ X0 = k6_tdlat_1\ X0) \wedge (k3_tdlat_1\ X0 = k7_tdlat_1\ X0)) \quad (4)$$

Assume the following.

$$\forall X0.((v2_pre_topc\ X0) \wedge (l1_pre_topc\ X0)) \Rightarrow (k7_tdlat_1\ X0 = k1_realset1\ (k3_tdlat_1\ X0)\ (k5_tdlat_1\ X0)) \quad (5)$$

Assume the following.

$$\forall X0.((\neg v2_struct_0\ X0) \wedge ((v2_pre_topc\ X0) \wedge ((v4_tdlat_3\ X0) \wedge (l1_pre_topc\ X0)))) \Rightarrow (k1_tdlat_1\ X0 = k5_tdlat_1\ X0) \quad (6)$$

Assume the following.

$$\forall X0.((v2_pre_topc\ X0) \wedge (l1_pre_topc\ X0)) \Rightarrow (k6_tdlat_1\ X0 = k1_realset1\ (k2_tdlat_1\ X0)\ (k5_tdlat_1\ X0)) \quad (7)$$

Theorem 1

$$\forall X0.((\neg v2_struct_0\ X0) \wedge ((v2_pre_topc\ X0) \wedge ((v4_tdlat_3\ X0) \wedge (l1_pre_topc\ X0)))) \Rightarrow ((k2_tdlat_1\ X0 = k10_tdlat_1\ X0) \wedge (k3_tdlat_1\ X0 = k11_tdlat_1\ X0))$$