

t40_tdlat_3

(TMWkUJz24DdQvy87JThe2kaXGPHRgqT5CL7)

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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 $k6_tdlat_1 : \iota \Rightarrow \iota$ be given. Let $k3_tdlat_1 : \iota \Rightarrow \iota$ be given. Let $k7_tdlat_1 : \iota \Rightarrow \iota$ be given. Let $k1_realset1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_tdlat_1 : \iota \Rightarrow \iota$ be given. Let $k1_tdlat_1 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r2_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v2_pre_topc X0) \wedge (l1_pre_topc X0)) \Rightarrow (k7_tdlat_1 X0 = k1_realset1 (k3_tdlat_1 X0) (k5_tdlat_1 X0)) \quad (1)$$

Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge ((v4_tdlat_3 X0) \wedge (l1_pre_topc X0)))) \Rightarrow (k1_tdlat_1 X0 = k5_tdlat_1 X0) \quad (2)$$

Assume the following.

$$\forall X0.((v2_pre_topc X0) \wedge (l1_pre_topc X0)) \Rightarrow (k6_tdlat_1 X0 = k1_realset1 (k2_tdlat_1 X0) (k5_tdlat_1 X0)) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. (m1_subset_1 X3 (k1_zfmisc_1 (k2_zfmisc_1 X1 X0))) \Rightarrow ((r1_tarski X1 X2) \Rightarrow (r2_relset_1 X1 X0 (k5_relset_1 X1 X0 X3 X2) X3)) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. r1_tarski X0 X0 \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))\wedge(m1_subset_1 X3 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1))))\Rightarrow((r2_relset_1 X0 X1 X2 X3)\Leftrightarrow(X2 = X3)) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))\Rightarrow(k5_relset_1 X0 X1 X2 X3 = k5_relat_1 X2 X3) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))\Rightarrow(m1_subset_1 (k5_relset_1 X0 X1 X2 X3) (k1_zfmisc_1 (k2_zfmisc_1 X0 X1))) \quad (8)$$

Assume the following.

$$\forall X0.((v2_pre_topc X0)\wedge(l1_pre_topc X0))\Rightarrow((v1_funct_1 (k3_tdlat_1 X0))\wedge((v1_funct_2 (k3_tdlat_1 X0) (k2_zfmisc_1 (k1_tdlat_1 X0) (k1_tdlat_1 X0)) (k1_tdlat_1 X0))\wedge(m1_subset_1 (k3_tdlat_1 X0) (k1_zfmisc_1 (k2_zfmisc_1 (k2_zfmisc_1 (k1_tdlat_1 X0) (k1_tdlat_1 X0)) (k1_tdlat_1 X0)))))) \quad (9)$$

Assume the following.

$$\forall X0.((v2_pre_topc X0)\wedge(l1_pre_topc X0))\Rightarrow((v1_funct_1 (k2_tdlat_1 X0))\wedge((v1_funct_2 (k2_tdlat_1 X0) (k2_zfmisc_1 (k1_tdlat_1 X0) (k1_tdlat_1 X0)) (k1_tdlat_1 X0))\wedge(m1_subset_1 (k2_tdlat_1 X0) (k1_zfmisc_1 (k2_zfmisc_1 (k2_zfmisc_1 (k1_tdlat_1 X0) (k1_tdlat_1 X0)) (k1_tdlat_1 X0)))))) \quad (10)$$

Assume the following.

$$\forall X0.(v1_relat_1 X0)\Rightarrow(\forall X1.k1_realset1 X0 X1 = k5_relat_1 X0 (k2_zfmisc_1 X1 X1)) \quad (11)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))\Rightarrow(v1_relat_1 X2) \quad (12)$$

Theorem 1

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