

t11_tdlat_3 (TMYtZmtPmtqgnSWRHCgZ- aboZhT7ZP1WGG3k)

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Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $u1_pre_topc : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k9_setfam_1 : \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_tdlat_3 : \iota \Rightarrow o$ be given. Let $v2_tdlat_3 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (r1_tarski (k2_tarski X0 X1) X2) \Leftrightarrow ((X0 \in X2) \wedge (X1 \in X2)) \quad (2)$$

Assume the following.

$$\forall X0. k9_setfam_1 X0 = k1_zfmisc_1 X0 \quad (3)$$

Assume the following.

$$\forall X0. (l1_pre_topc X0) \Rightarrow (m1_subset_1 (u1_pre_topc X0) (k1_zfmisc_1 (k1_zfmisc_1 (u1_struct_0 X0)))) \quad (4)$$

Assume the following.

$$\forall X0. (l1_pre_topc X0) \Rightarrow ((v2_tdlat_3 X0) \Leftrightarrow (u1_pre_topc X0 = k2_tarski k1_xboole_0 (u1_struct_0 X0))) \quad (5)$$

Assume the following.

$$\forall X0. (l1_pre_topc X0) \Rightarrow ((v1_tdlat_3 X0) \Leftrightarrow (u1_pre_topc X0 = k9_setfam_1 (u1_struct_0 X0))) \quad (6)$$

Assume the following.

$$\forall X0. \forall X1. (X0 = X1) \Leftrightarrow ((r1_tarski X0 X1) \wedge (r1_tarski X1 X0)) \quad (7)$$

Theorem 1

$$\begin{aligned} \forall X0. (l1_pre_topc\ X0) \Rightarrow & (((k1_xboole_0 \in u1_pre_topc\ X0) \wedge \\ & ((u1_struct_0\ X0 \in u1_pre_topc\ X0) \wedge (k9_setfam_1\ (u1_struct_0 \\ & X0) = k2_tarski\ k1_xboole_0\ (u1_struct_0\ X0)))) \Rightarrow ((v1_tdlat_3 \\ & X0) \wedge (v2_tdlat_3\ X0))) \end{aligned}$$