

t12_pre_topc
(TMPkwApNrUshFSfK3CW1q4sutTeiNp2Qdo5)

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Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $l1_struct_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow (\neg(X1 \neq k1_xboole_0) \wedge (\forall X2. (m1_subset_1 X2 X0) \Rightarrow (\neg X2 \in X1))) \quad (1)$$

Assume the following.

$$\forall X0. (l1_pre_topc X0) \Rightarrow (l1_struct_0 X0) \quad (2)$$

Assume the following.

$$\forall X0. (l1_struct_0 X0) \Rightarrow (k1_struct_0 X0 = k1_xboole_0) \quad (3)$$

Theorem 1

$$\forall X0. (l1_pre_topc X0) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow (\neg(X1 \neq k1_struct_0 X0) \wedge (\forall X2. (m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow (\neg X2 \in X1))))))$$