

t52_tops_1

(TMKNxP9n8m3iaxwBPmAjSu26SSauPd6TW9V)

October 27, 2020

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 $v2_tops_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarSKI : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_tops_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tops_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k7_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(l1_pre_topc\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1 \\ (u1_struct_0\ X0))) \Rightarrow ((v2_tops_1\ X1\ X0) \Leftrightarrow (k1_tops_1\ X0\ X1 = k1_xboole_0))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(l1_pre_topc\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1 \\ (u1_struct_0\ X0))) \Rightarrow (k1_tops_1\ X0\ X1 = k7_subset_1\ (u1_struct_0 \\ X0)\ X1\ (k2_tops_1\ X0\ X1))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(k4_xboole_0\ X0\ X1 = k1_xboole_0) \Leftrightarrow (r1_tarSKI\ X0\ X1) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset_1\ X1\ (k1_zfmisc_1\ X0)) \Rightarrow (k7_subset_1\ X0\ X1\ X2 = k4_xboole_0\ X1\ X2) \quad (4)$$

Theorem 1

$$\begin{aligned} \forall X0.(l1_pre_topc\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1 \\ (u1_struct_0\ X0))) \Rightarrow ((v2_tops_1\ X1\ X0) \Leftrightarrow (r1_tarSKI\ X1\ (k2_tops_1 \\ X0\ X1)))) \end{aligned}$$