

t17_topalg_2

(TMQauxGuAuZkhdQDfaax5cFseACod4JHtfa)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k5_topmetr : \iota$ be given. Let $m1_borsuk_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_topalg_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k6_eqrel_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_topalg_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_topalg_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v2_topalg_2 : \iota \Rightarrow o$ be given. Let $m1_pre_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_topalg_2 : \iota$ be given. Let $k17_borsuk_1 : \iota$ be given. Let $k3_topmetr : \iota$ be given. Let $v1_pre_topc : \iota \Rightarrow o$ be given. Let $v2_pre_topc : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_topalg_2 X0) \wedge (m1_pre_topc \\ & X0 k2_topalg_2))) \Rightarrow (\forall X1. (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow \\ & (\forall X2. (m1_borsuk_2 X2 X0 X1 X1) \Rightarrow (u1_struct_0 (k5_topalg_1 \\ & X0 X1) = k1_tarski (k6_eqrel_1 (k2_topalg_1 X0 X1) (k2_topalg_1 \\ & X0 X1) (k4_topalg_1 X0 X1) X2)))) \end{aligned} \quad (1)$$

Assume the following.

$$v2_topalg_2 k5_topmetr \quad (2)$$

Assume the following.

$$k5_topmetr = k17_borsuk_1 \quad (3)$$

Assume the following.

$$k2_topalg_2 = k3_topmetr \quad (4)$$

Assume the following.

$$(\neg v2_struct_0 k17_borsuk_1) \wedge ((v1_pre_topc k17_borsuk_1) \wedge (v2_pre_topc k17_borsuk_1)) \quad (5)$$

Assume the following.

$$m1_pre_topc k5_topmetr k3_topmetr \quad (6)$$

Theorem 1

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 (u1_struct_0 k5_topmetr)) \Rightarrow (\forall X1. \\ & (m1_borsuk_2 X1 k5_topmetr X0 X0) \Rightarrow (u1_struct_0 (k5_topalg_1 k5_topmetr \\ & X0) = k1_tarski (k6_eqrel_1 (k2_topalg_1 k5_topmetr X0) (k2_topalg_1 \\ & k5_topmetr X0) (k4_topalg_1 k5_topmetr X0) X1))) \end{aligned}$$