

t34_borsuk_5
(TMSZdLzAvftj4Nj7dre4orTGPrtfJYwMe5b)

October 27, 2020

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 $k3_topmetr : \iota$ be given. Let $v4_pre_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3_pre_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k1_numbers : \iota$ be given. Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $v1_connsp_1 : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $k2_struct_0 : \iota \Rightarrow \iota$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v1_pre_topc : \iota \Rightarrow o$ be given. Let $v1_borsuk_2 : \iota \Rightarrow o$ be given. Let $l1_struct_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v2_pre_topc X0) \wedge ((v1_connsp_1 X0) \wedge (l1_pre_topc \\ & X0))) \Rightarrow (\forall X1.((v3_pre_topc X1 X0) \wedge ((v4_pre_topc X1 X0) \wedge \\ & (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0)))))) \Rightarrow ((X1 = k1_xboole_0) \vee \\ & (X1 = k2_struct_0 X0))) \end{aligned} \tag{1}$$

Assume the following.

$$u1_struct_0 k3_topmetr = k1_numbers \tag{2}$$

Assume the following.

$$(\neg v2_struct_0 k3_topmetr) \wedge ((v1_pre_topc k3_topmetr) \wedge (v2_pre_topc k3_topmetr)) \tag{3}$$

Assume the following.

$$(v2_pre_topc k3_topmetr) \wedge (v1_borsuk_2 k3_topmetr) \tag{4}$$

Assume the following.

$$\forall X0.(l1_pre_topc X0) \Rightarrow (l1_struct_0 X0) \tag{5}$$

Assume the following.

$$(v2_pre_topc k3_topmetr) \wedge (l1_pre_topc k3_topmetr) \tag{6}$$

Assume the following.

$$\forall X0.(l1_struct_0 X0) \Rightarrow (k2_struct_0 X0 = u1_struct_0 X0) \quad (7)$$

Assume the following.

$$\begin{aligned} \forall X0.(l1_pre_topc X0) \Rightarrow & (((\neg v2_struct_0 X0) \wedge ((v2_pre_topc \\ X0) \wedge (v1_borsuk_2 X0))) \Rightarrow & ((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge \\ & (v1_connsp_1 X0)))) \end{aligned} \quad (8)$$

Theorem 1

$$\begin{aligned} \forall X0.(m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 k3_topmetr))) \Rightarrow \\ (\neg(v4_pre_topc X0 k3_topmetr) \wedge ((v3_pre_topc X0 k3_topmetr) \wedge \\ ((X0 \neq k1_xboole_0) \wedge (X0 \neq k1_numbers)))) \end{aligned}$$