

t18_topalg_5
(TML46wQAYbWeskdLHYBe8tbFrtGyDAY65xL)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $m1_borsuk_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_borsuk_6 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_topmetr : \iota$ be given. Let $v5_pre_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_borsuk_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_topalg_5 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k17_borsuk_1 : \iota$ be given. Let $v1_pre_topc : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$k5_topmetr = k17_borsuk_1 \tag{1}$$

Assume the following.

$$(\neg v2_struct_0\ k17_borsuk_1) \wedge ((v1_pre_topc\ k17_borsuk_1) \wedge (v2_pre_topc\ k17_borsuk_1)) \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.\forall X4.(((\neg v2_struct_0 \\ & X0) \wedge ((v2_pre_topc\ X0) \wedge (l1_pre_topc\ X0))) \wedge (((\neg v2_struct_0\ X1) \wedge \\ & ((v2_pre_topc\ X1) \wedge (l1_pre_topc\ X1))) \wedge (((\neg v2_struct_0\ X2) \wedge \\ & (v2_pre_topc\ X2) \wedge (l1_pre_topc\ X2))) \wedge (((v1_funct_1\ X3) \wedge (v1_funct_2 \\ & X3\ (u1_struct_0\ (k2_borsuk_1\ X0\ X1))\ (u1_struct_0\ X2)) \wedge ((v5_pre_topc \\ & X3\ (k2_borsuk_1\ X0\ X1)\ X2) \wedge (m1_subset_1\ X3\ (k1_zfmisc_1\ (k2_zfmisc_1 \\ & (u1_struct_0\ (k2_borsuk_1\ X0\ X1))\ (u1_struct_0\ X2)))))) \wedge (m1_subset_1 \\ & X4\ (u1_struct_0\ X1)))))) \Rightarrow ((v1_funct_1\ (k3_topalg_5\ X0\ X1\ X2\ X3 \\ & X4) \wedge ((v1_funct_2\ (k3_topalg_5\ X0\ X1\ X2\ X3\ X4)\ (u1_struct_0\ X0) \\ & (u1_struct_0\ X2)) \wedge (v5_pre_topc\ (k3_topalg_5\ X0\ X1\ X2\ X3\ X4)\ X0\ X2))) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned}
& \forall X0.\forall X1.\forall X2.\forall X3.\forall X4.(((\neg v2_struct_0 \\
& X0)\wedge((v2_pre_topc X0)\wedge(l1_pre_topc X0)))\wedge((m1_subset_1 X1 (\\
& u1_struct_0 X0))\wedge((m1_subset_1 X2 (u1_struct_0 X0))\wedge((m1_borsuk_2 \\
& X3 X0 X1 X2)\wedge(m1_borsuk_2 X4 X0 X1 X2))))))\Rightarrow(\forall X5.(m1_borsuk_6 \\
& X5 X0 X1 X2 X3 X4)\Rightarrow((v1_funct_1 X5)\wedge((v1_funct_2 X5 (u1_struct_0 \\
& (k2_borsuk_1 k5_topmetr k5_topmetr)) (u1_struct_0 X0))\wedge(m1_subset_1 \\
& X5 (k1_zfmisc_1 (k2_zfmisc_1 (u1_struct_0 (k2_borsuk_1 k5_topmetr \\
& k5_topmetr)) (u1_struct_0 X0)))))))
\end{aligned} \tag{4}$$

Assume the following.

$$l1_pre_topc k17_borsuk_1 \tag{5}$$

Theorem 1

$$\begin{aligned}
& \forall X0.(((\neg v2_struct_0 X0)\wedge((v2_pre_topc X0)\wedge(l1_pre_topc \\
& X0)))\Rightarrow(\forall X1.(m1_subset_1 X1 (u1_struct_0 X0))\Rightarrow(\forall X2. \\
& (m1_subset_1 X2 (u1_struct_0 X0))\Rightarrow(\forall X3.(m1_borsuk_2 X3 \\
& X0 X1 X2)\Rightarrow(\forall X4.(m1_borsuk_2 X4 X0 X1 X2)\Rightarrow(\forall X5.(m1_borsuk_6 \\
& X5 X0 X1 X2 X3 X4)\Rightarrow(\forall X6.(m1_subset_1 X6 (u1_struct_0 k5_topmetr))\Rightarrow \\
& ((v5_pre_topc X5 (k2_borsuk_1 k5_topmetr k5_topmetr) X0)\Rightarrow(v5_pre_topc \\
& (k3_topalg_5 k5_topmetr k5_topmetr X0 X5 X6) k5_topmetr X0))))))))))
\end{aligned}$$