

t14_topalg_6

(TMHTYA3icnYr8QGHCb5SUmJNg4HBvZZDuL2)

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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 $r1_mfold_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_topalg_6 : \iota \Rightarrow o$ be given. Let $r2_borsuk_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_borsuk_2 : \iota \Rightarrow o$ be given. Let $v1_topalg_6 : \iota \Rightarrow o$ be given. Let $r1_t_0topsp : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\ X0))) \Rightarrow (\forall X1.((\neg v2_struct_0 X1) \wedge ((v2_pre_topc X1) \wedge (l1_pre_topc \\ X1))) \Rightarrow (((r2_borsuk_3 X0 X1) \wedge (v1_borsuk_2 X0)) \Rightarrow (v1_borsuk_2 \\ X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\ X0))) \Rightarrow (\forall X1.((\neg v2_struct_0 X1) \wedge ((v2_pre_topc X1) \wedge (l1_pre_topc \\ X1))) \Rightarrow (((r1_mfold_2 X0 X1) \wedge (v1_topalg_6 X0)) \Rightarrow (v1_topalg_6 X1))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (((\neg v2_struct_0 X0) \wedge (l1_pre_topc X0)) \wedge \\ ((\neg v2_struct_0 X1) \wedge (l1_pre_topc X1))) \Rightarrow ((r2_borsuk_3 X0 X1) \Leftrightarrow \\ (r1_t_0topsp X0 X1)) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. ((l1_pre_topc X0) \wedge (l1_pre_topc X1)) \Rightarrow (\\ (r1_mfold_2 X0 X1) \Leftrightarrow (r1_t_0topsp X0 X1)) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0. (l1_pre_topc X0) \Rightarrow (((\neg v2_struct_0 X0) \wedge ((v2_pre_topc \\ X0) \wedge (v1_borsuk_2 X0) \wedge (v1_topalg_6 X0)))) \Rightarrow ((\neg v2_struct_0 X0) \wedge \\ ((v2_pre_topc X0) \wedge (v2_topalg_6 X0))) \end{aligned} \quad (5)$$

Assume the following.

$$\begin{aligned} \forall X0. (l1_pre_topc X0) \Rightarrow (((\neg v2_struct_0 X0) \wedge ((v2_pre_topc \\ X0) \wedge (v2_topalg_6 X0))) \Rightarrow ((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge \\ (v1_borsuk_2 X0) \wedge (v1_topalg_6 X0)))) \end{aligned} \quad (6)$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\ & X0))) \Rightarrow (\forall X1.((\neg v2_struct_0 X1) \wedge ((v2_pre_topc X1) \wedge (l1_pre_topc \\ & X1))) \Rightarrow (((r1_mfold_2 X0 X1) \wedge (v2_topalg_6 X0)) \Rightarrow (v2_topalg_6 X1))) \end{aligned}$$