

t15_topdim_2
(TMZykfd4Pj21PqfhQxDVeuL1pHMgSWELjV1)

October 27, 2020

Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $v5_waybel23 : \iota \Rightarrow o$ be given. Let $v3_topdim_1 : \iota \Rightarrow o$ be given. Let $v3_pcomps_1 : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_topdim_1 : \iota \Rightarrow \iota$ be given. Let $k2_borsuk_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xxreal_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
& \forall X0.((v2_pre_topc X0) \wedge ((v5_waybel23 X0) \wedge ((v3_topdim_1 \\
& X0) \wedge ((v3_pcomps_1 X0) \wedge (l1_pre_topc X0)))))) \Rightarrow (\forall X1.((v2_pre_topc \\
& X1) \wedge ((v5_waybel23 X1) \wedge ((v3_topdim_1 X1) \wedge ((v3_pcomps_1 X1) \wedge \\
& (l1_pre_topc X1)))))) \Rightarrow ((\neg(v2_struct_0 X0) \wedge (v2_struct_0 X1)) \Rightarrow \\
& ((v3_topdim_1 (k2_borsuk_1 X0 X1)) \wedge (r1_xxreal_0 (k4_topdim_1 \\
& (k2_borsuk_1 X0 X1)) (k1_xxreal_3 (k4_topdim_1 X0) (k4_topdim_1 \\
& X1)))))) \tag{1}
\end{aligned}$$

Theorem 1

$$\begin{aligned}
& \forall X0.((v2_pre_topc X0) \wedge ((v5_waybel23 X0) \wedge ((v3_topdim_1 \\
& X0) \wedge ((v3_pcomps_1 X0) \wedge (l1_pre_topc X0)))))) \Rightarrow (\forall X1.((v2_pre_topc \\
& X1) \wedge ((v5_waybel23 X1) \wedge ((v3_topdim_1 X1) \wedge ((v3_pcomps_1 X1) \wedge \\
& (l1_pre_topc X1)))))) \Rightarrow ((\neg(v2_struct_0 X0) \wedge (v2_struct_0 X1)) \Rightarrow \\
& (r1_xxreal_0 (k4_topdim_1 (k2_borsuk_1 X0 X1)) (k1_xxreal_3 (\\
& k4_topdim_1 X0) (k4_topdim_1 X1))))))
\end{aligned}$$