

t70_tex_3 (TMLRpUbQfmkvDch- PVngN4MUCVvtfFbraTgV)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $v3_tdlat_3 : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $v1_tsep_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_tex_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_tex_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_pre_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_pre_topc : \iota \Rightarrow o$ be given. Let $v1_borsuk_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3_tex_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r4_tsep_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_tdlat_3 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge ((\neg v1_tdlat_3 \\ & X0) \wedge (l1_pre_topc X0)))) \Rightarrow (\forall X1.((\neg v2_struct_0 X1) \wedge ((v1_tex_2 \\ & X1 X0) \wedge ((v1_tex_3 X1 X0) \wedge (m1_pre_topc X1 X0)))) \Rightarrow (\exists X2.(\\ & (\neg v2_struct_0 X2) \wedge ((v1_pre_topc X2) \wedge ((v3_tex_3 X2 X0) \wedge (m1_pre_topc \\ & X2 X0)))) \wedge (r4_tsep_2 X0 X1 X2))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\ & X0))) \Rightarrow (\forall X1.((\neg v2_struct_0 X1) \wedge (m1_pre_topc X1 X0))) \Rightarrow (\\ & \forall X2.((\neg v2_struct_0 X2) \wedge (m1_pre_topc X2 X0)) \Rightarrow ((r4_tsep_2 \\ & X0 X1 X2) \Rightarrow ((v1_tsep_1 X1 X0) \Leftrightarrow (v1_borsuk_1 X2 X0)))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge ((v1_tdlat_3 \\ & X0) \wedge (l1_pre_topc X0)))) \Rightarrow (\forall X1.(m1_pre_topc X1 X0) \Rightarrow ((v1_tex_2 \\ & X1 X0) \Rightarrow (\neg v1_tex_3 X1 X0))) \end{aligned} \tag{3}$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge ((\neg v3_tdlat_3 \\ & X0) \wedge (l1_pre_topc X0)))) \Rightarrow (\forall X1.((\neg v2_struct_0 X1) \wedge ((v1_tsep_1 \\ & X1 X0) \wedge ((v1_tex_2 X1 X0) \wedge ((v1_tex_3 X1 X0) \wedge (m1_pre_topc X1 X0)))))) \Rightarrow \\ & (\exists X2.((\neg v2_struct_0 X2) \wedge ((v1_pre_topc X2) \wedge ((v1_borsuk_1 \\ & X2 X0) \wedge ((v3_tex_3 X2 X0) \wedge (m1_pre_topc X2 X0)))))) \wedge (r4_tsep_2 X0 \\ & X1 X2))) \end{aligned}$$