

t7_sprect_1 (TMVGWWAeBj- gRKxg1cA8Km8mxDWgJnbG53Rm)

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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 $v1_xboole_0 : \iota \Rightarrow o$ be given. 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 $r3_connsp_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\
 & X0))) \Rightarrow (\forall X1.((\neg v1_xboole_0 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\
 & (u1_struct_0 X0)))) \Rightarrow (\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 \\
 & (u1_struct_0 X0))) \Rightarrow (\forall X3.(m1_subset_1 X3 (k1_zfmisc_1 \\
 & (u1_struct_0 X0))) \Rightarrow (\forall X4.(m1_subset_1 X4 (k1_zfmisc_1 \\
 & (u1_struct_0 X0))) \Rightarrow (\neg (r3_connsp_1 X0 X1 X2) \wedge ((r3_connsp_1 X0 \\
 & X1 X3) \wedge ((r3_connsp_1 X0 X1 X4) \wedge ((k4_subset_1 (u1_struct_0 X0) \\
 & X2 X3 = X1) \wedge ((X4 \neq X2) \wedge (X4 \neq X3))))))))))
 \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. k2_tarski X0 X1 = k2_tarski X1 X0 \tag{2}$$

Theorem 1

$$\begin{aligned}
 & \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\
 & X0))) \Rightarrow (\forall X1.((\neg v1_xboole_0 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\
 & (u1_struct_0 X0)))) \Rightarrow (\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 \\
 & (u1_struct_0 X0))) \Rightarrow (\forall X3.(m1_subset_1 X3 (k1_zfmisc_1 \\
 & (u1_struct_0 X0))) \Rightarrow (\forall X4.(m1_subset_1 X4 (k1_zfmisc_1 \\
 & (u1_struct_0 X0))) \Rightarrow (\forall X5.(m1_subset_1 X5 (k1_zfmisc_1 \\
 & (u1_struct_0 X0))) \Rightarrow (((r3_connsp_1 X0 X1 X2) \wedge ((r3_connsp_1 X0 \\
 & X1 X3) \wedge ((r3_connsp_1 X0 X1 X4) \wedge ((r3_connsp_1 X0 X1 X5) \wedge ((k4_subset_1 \\
 & (u1_struct_0 X0) X2 X3 = X1) \wedge (k4_subset_1 (u1_struct_0 X0) X4 X5 = \\
 & X1)))))) \Rightarrow (k2_tarski X2 X3 = k2_tarski X4 X5))))))
 \end{aligned}$$