

t57_yellow_9
(TMVvgsDtWtbFU3ag2j8eHGEar2KnYf3Rcf2)

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Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $m3_yellow_9 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2_yellow_9 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v1_tops_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_pre_topc : \iota \Rightarrow \iota$ be given. Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $v2_cantor_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. r1_tarski X0 (k2_xboole_0 X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. (l1_pre_topc X0) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k1_zfmisc_1 (u1_struct_0 X0)))) \Rightarrow ((v1_tops_2 X1 X0) \Leftrightarrow (r1_tarski X1 (u1_pre_topc X0)))) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((r1_tarski X0 X1) \wedge (r1_tarski X1 X2)) \Rightarrow (r1_tarski X0 X2) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. k2_xboole_0 X0 X0 = X0 \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. ((l1_pre_topc X0) \wedge (l1_pre_topc X1)) \Rightarrow (\forall X2. (m3_yellow_9 X2 X0 X1) \Rightarrow ((v2_pre_topc X2) \wedge (l1_pre_topc X2))) \quad (5)$$

Assume the following.

$$\begin{aligned} & \forall X0. (l1_pre_topc X0) \Rightarrow (\forall X1. (l1_pre_topc X1) \Rightarrow (\forall X2. \\ & ((v2_pre_topc X2) \wedge (l1_pre_topc X2)) \Rightarrow ((m3_yellow_9 X2 X0 X1) \Leftrightarrow \\ & ((u1_struct_0 X2 = k2_xboole_0 (u1_struct_0 X0) (u1_struct_0 X1)) \wedge \\ & ((v1_tops_2 (k2_xboole_0 (u1_pre_topc X0) (u1_pre_topc X1)) X2) \wedge \\ & ((v2_cantor_1 (k2_xboole_0 (u1_pre_topc X0) (u1_pre_topc X1)) \\ & X2) \wedge (m1_subset_1 (k2_xboole_0 (u1_pre_topc X0) (u1_pre_topc \\ & X1)) (k1_zfmisc_1 (k1_zfmisc_1 (u1_struct_0 X2)))))))))) \quad (6) \end{aligned}$$

Assume the following.

$$\begin{aligned} \forall X0.(l1_pre_topc\ X0) \Rightarrow (\forall X1.((v2_pre_topc\ X1) \wedge (\\ l1_pre_topc\ X1)) \Rightarrow ((m2_yellow_9\ X1\ X0) \Leftrightarrow ((u1_struct_0\ X0 = u1_struct_0 \\ X1) \wedge (r1_tarSKI\ (u1_pre_topc\ X0)\ (u1_pre_topc\ X1)))))) \end{aligned} \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.k2_xboole_0\ X0\ X1 = k2_xboole_0\ X1\ X0 \quad (8)$$

Theorem 1

$$\begin{aligned} \forall X0.(l1_pre_topc\ X0) \Rightarrow (\forall X1.(l1_pre_topc\ X1) \Rightarrow ((\\ u1_struct_0\ X0 = u1_struct_0\ X1) \Rightarrow (\forall X2.(m3_yellow_9\ X2\ X0 \\ X1) \Rightarrow ((m2_yellow_9\ X2\ X0) \wedge (m2_yellow_9\ X2\ X1)))))) \end{aligned}$$