

t4_simplex0 (TM- TaHe9915v5twAK94JssELTYEHIXN7VCEm)

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Let $k1_simplex0 : \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k9_setfam_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k5_e_siec : \iota \Rightarrow \iota$ be given. Let $u1_e_siec : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $u2_e_siec : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_classes1 : \iota \Rightarrow o$ be given. Let $v1_coh_sp : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(u1_struct_0 (k5_e_siec X0) = k1_tarski X0) \wedge ((u1_e_siec (k5_e_siec X0) = k1_xboole_0) \wedge (u2_e_siec (k5_e_siec X0) = k1_xboole_0)) \quad (1)$$

Assume the following.

$$\forall X0.r1_tarski (k1_tarski X0) (k1_zfmisc_1 X0) \quad (2)$$

Assume the following.

$$\forall X0.(\neg v1_xboole_0 (k9_setfam_1 X0)) \wedge ((v1_classes1 (k9_setfam_1 X0)) \wedge (v1_coh_sp (k9_setfam_1 X0))) \quad (3)$$

Assume the following.

$$\forall X0.(v1_classes1 X0) \Leftrightarrow (\forall X1.(X1 \in X0) \Rightarrow (r1_tarski (k9_setfam_1 X1) X0)) \quad (4)$$

Assume the following.

$$\forall X0.k9_setfam_1 X0 = k1_zfmisc_1 X0 \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(r1_tarski (k1_tarski X0) X1) \Leftrightarrow (X0 \in X1) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.(v1_classes1 X1) \Rightarrow ((X1 = k1_simplex0 X0) \Leftrightarrow ((r1_tarski X0 X1) \wedge (\forall X2.((r1_tarski X0 X2) \wedge (v1_classes1 X2)) \Rightarrow (r1_tarski X1 X2)))) \quad (7)$$

Theorem 1 $\forall X0.k1_simplex0 (k1_tarski X0) = k9_setfam_1 X0.$