

t21_simplex0 (TMR- mZA2C1p78nDw1f4riV1LoPtzM46KEYFb)

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Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $v1_matroid0 : \iota \Rightarrow o$ be given. Let $g1_pre_topc : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $u1_pre_topc : \iota \Rightarrow \iota$ be given. Let $k5_simplex0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_classes1 : \iota \Rightarrow o$ be given. Let $k1_simplex0 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_simplex0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_matroid0 : \iota \Rightarrow \iota$ be given. Let $v1_pre_topc : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_classes1 X0) \Rightarrow (k1_simplex0 X0 = X0) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k1_zfmisc_1 X0))) \Rightarrow (k2_simplex0 X0 X1 = k1_simplex0 X1) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k1_zfmisc_1 X0))) \Rightarrow (\forall X2.\forall X3.(g1_pre_topc X0 X1 = g1_pre_topc X2 X3) \Rightarrow ((X0 = X2) \wedge (X1 = X3))) \quad (3)$$

Assume the following.

$$\forall X0.((v1_matroid0 X0) \wedge (l1_pre_topc X0)) \Rightarrow (v1_classes1 (k1_matroid0 X0)) \quad (4)$$

Assume the following.

$$\forall X0.(l1_pre_topc X0) \Rightarrow (m1_subset_1 (u1_pre_topc X0) (k1_zfmisc_1 (k1_zfmisc_1 (u1_struct_0 X0)))) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k1_zfmisc_1 X0))) \Rightarrow ((v1_classes1 (k2_simplex0 X0 X1)) \wedge (m1_subset_1 (k2_simplex0 X0 X1) (k1_zfmisc_1 (k1_zfmisc_1 X0)))) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k1_zfmisc_1 X0)))\Rightarrow((v1_pre_topc (g1_pre_topc X0 X1))\wedge(l1_pre_topc (g1_pre_topc X0 X1))) \quad (7)$$

Assume the following.

$$\forall X0.(l1_pre_topc X0)\Rightarrow(k1_matroid0 X0 = u1_pre_topc X0) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k1_zfmisc_1 X0)))\Rightarrow(k5_simplex0 X0 X1 = g1_pre_topc X0 (k2_simplex0 X0 X1)) \quad (9)$$

Assume the following.

$$\forall X0.(l1_pre_topc X0)\Rightarrow((v1_pre_topc X0)\Rightarrow(X0 = g1_pre_topc (u1_struct_0 X0) (u1_pre_topc X0))) \quad (10)$$

Theorem 1

$$\forall X0.(l1_pre_topc X0)\Rightarrow((v1_matroid0 X0)\Rightarrow(g1_pre_topc (u1_struct_0 X0) (u1_pre_topc X0) = k5_simplex0 (u1_struct_0 X0) (u1_pre_topc X0)))$$