

t27_simplex0 (TMZAMEXuLpCB- PLbxSBE6u28RAHxTECSh5Ji)

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Let $m1_simplex0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2_simplex0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_matroid0 : \iota \Rightarrow o$ be given. Let $v3_matroid0 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_struct_0 : \iota \Rightarrow \iota$ be given. Let $u1_pre_topc : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_simplex0 X1 X0) \Rightarrow (\forall X2. (m2_simplex0 X2 X0 X1) \Rightarrow ((v1_matroid0 X2) \wedge ((v3_matroid0 X2) \wedge (m1_simplex0 X2 X0)))) \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. (m1_simplex0 X1 X0) \Rightarrow (\forall X2. ((v1_matroid0 X2) \wedge ((v3_matroid0 X2) \wedge (m1_simplex0 X2 X0))) \Rightarrow ((m2_simplex0 X2 X0 X1) \Leftrightarrow ((r1_tarski (k2_struct_0 X2) (k2_struct_0 X1)) \wedge (r1_tarski (u1_pre_topc X2) (u1_pre_topc X1)))))) \tag{3}$$

Theorem 1

$$\forall X0. \forall X1. (m1_simplex0 X1 X0) \Rightarrow (\forall X2. (m2_simplex0 X2 X0 X1) \Rightarrow (\forall X3. (m2_simplex0 X3 X0 X2) \Rightarrow (m2_simplex0 X3 X0 X1)))$$