

l19_simplex2
(TMdRNx45by4ahLBe86m6KssUVKiXezr8jeC)

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Let $v6_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $r3_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. r3_xboole_0 X0 X0 \tag{1}$$

Assume the following.

$$\forall X0. (v6_ordinal1 X0) \Leftrightarrow (\forall X1. \forall X2. ((X1 \in X0) \wedge (X2 \in X0)) \Rightarrow (r3_xboole_0 X1 X2)) \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k1_tarski X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (X2 = X0)) \tag{3}$$

Theorem 1 $\forall X0. v6_ordinal1 (k1_tarski X0)$.