

t29_twoscomp
(TMZtSAc3CMC2VcHB7vyXiopPjdTPSArLho5)

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Let $v1_xtuple_0 : \iota \Rightarrow o$ be given. Let $k2_msafree2 : \iota \Rightarrow \iota$ be given. Let $k34_twoscomp : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_circcomb : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k15_twoscomp : \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. k2_msafree2 (k5_circcomb X0 (k10_finseq_1 X1 X2)) = k2_tarski X1 X2 \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. k34_twoscomp X0 X1 = k5_circcomb k15_twoscomp (k10_finseq_1 X0 X1) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (X2 = k2_tarski X0 X1) \Leftrightarrow (\forall X3. (X3 \in X2) \Leftrightarrow ((X3 = X0) \vee (X3 = X1))) \quad (3)$$

Theorem 1

$$\forall X0. (\neg v1_xtuple_0 X0) \Rightarrow (\forall X1. (\neg v1_xtuple_0 X1) \Rightarrow ((X0 \in k2_msafree2 (k34_twoscomp X0 X1)) \wedge (X1 \in k2_msafree2 (k34_twoscomp X0 X1))))$$