

t114_gfacirc1

(TMUu38UY178v6K667wnvL1hj5J9wM1WffA9)

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Let $v1_xtuple_0 : \iota \Rightarrow o$ be given. Let $k2_msafree2 : \iota \Rightarrow \iota$ be given. Let $k43_gfacirc1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_twoscomp : \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \neg (X0 \neq k4_tarski (k10_finseq_1 \\ & X1 X2) k4_twoscomp) \wedge ((X1 \neq k4_tarski (k10_finseq_1 X2 X0) k4_twoscomp) \wedge \\ & ((X2 \neq k4_tarski (k10_finseq_1 X0 X1) k4_twoscomp) \wedge (k2_msafree2 \\ & (k43_gfacirc1 X0 X1 X2) \neq k1_enumset1 X0 X1 X2))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. (v1_xtuple_0 X0) \Leftrightarrow (\exists X1. \exists X2. X0 = k4_tarski X1 X2) \quad (2)$$

Theorem 1

$$\begin{aligned} & \forall X0. (\neg v1_xtuple_0 X0) \Rightarrow (\forall X1. (\neg v1_xtuple_0 X1) \Rightarrow \\ & (\forall X2. (\neg v1_xtuple_0 X2) \Rightarrow (k2_msafree2 (k43_gfacirc1 X0 \\ & X1 X2) = k1_enumset1 X0 X1 X2))) \end{aligned}$$