

t102_gfacirc1
(TMN6LHNHHhybb1F9z72knAmeDo6b1SoxK1P)

October 27, 2020

Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_gfacirc1 : \iota$ be given. Let $k3_gfacirc1 : \iota$ be given. Let $k4_twoscomp : \iota$ be given. Let $k3_twoscomp : \iota$ be given. Let $k2_msafree2 : \iota \Rightarrow \iota$ be given. Let $k37_gfacirc1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \neg (X2 \neq k4_tarski (k10_finseq_1 \\ & X0 X1) k4_gfacirc1) \wedge ((X0 \neq k4_tarski (k10_finseq_1 X1 X2) k3_gfacirc1) \wedge \\ & ((X1 \neq k4_tarski (k10_finseq_1 X2 X0) k4_twoscomp) \wedge ((X2 \neq k4_tarski \\ & (k10_finseq_1 X0 X1) k3_twoscomp) \wedge (k2_msafree2 (k37_gfacirc1 \\ & X0 X1 X2) \neq k1_enumset1 X0 X1 X2)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. (X3 = k1_enumset1 \\ & X0 X1 X2) \Leftrightarrow (\forall X4. (X4 \in X3) \Leftrightarrow (\neg (X4 \neq X0) \wedge ((X4 \neq X1) \wedge (X4 \neq X2)))) \end{aligned} \tag{2}$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \neg (X2 \neq k4_tarski (k10_finseq_1 \\ & X0 X1) k4_gfacirc1) \wedge ((X0 \neq k4_tarski (k10_finseq_1 X1 X2) k3_gfacirc1) \wedge \\ & ((X1 \neq k4_tarski (k10_finseq_1 X2 X0) k4_twoscomp) \wedge ((X2 \neq k4_tarski \\ & (k10_finseq_1 X0 X1) k3_twoscomp) \wedge (\neg (X0 \in k2_msafree2 (k37_gfacirc1 \\ & X0 X1 X2)) \wedge ((X1 \in k2_msafree2 (k37_gfacirc1 X0 X1 X2)) \wedge (X2 \in k2_msafree2 \\ & (k37_gfacirc1 X0 X1 X2)))))))))) \end{aligned}$$