

t66_gfacirc1 (TMRWoCYmGvmZBRrLqt- jEw7XmBin37mpPRP3)

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Let $v1_xtuple_0 : \iota \Rightarrow o$ be given. Let $k2_msafree2 : \iota \Rightarrow \iota$ be given. Let $k25_gfacirc1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k4_gfacirc1 : \iota$ be given. Let $k3_twoscomp : \iota$ be given. Let $k2_twoscomp : \iota$ be given. Let $k3_gfacirc1 : \iota$ be given. Let $k2_circcomb : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k22_gfacirc1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k19_gfacirc1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\neg(X2 \neq k4_tarski (k10_finseq_1 \\ & X0 X1) k4_gfacirc1) \wedge ((X0 \neq k4_tarski (k10_finseq_1 X1 X2) k3_twoscomp) \wedge \\ & ((X1 \neq k4_tarski (k10_finseq_1 X2 X0) k2_twoscomp) \wedge ((X2 \neq k4_tarski \\ & (k10_finseq_1 X0 X1) k3_gfacirc1) \wedge (k2_msafree2 (k25_gfacirc1 \\ & X0 X1 X2) \neq k1_enumset1 X0 X1 X2)))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.v1_xtuple_0 (k4_tarski X0 X1) \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.k25_gfacirc1 X0 X1 X2 = k2_circcomb \\ & (k22_gfacirc1 X0 X1 X2) (k19_gfacirc1 X0 X1 X2) \end{aligned} \tag{3}$$

Theorem 1

$$\begin{aligned} & \forall X0.(\neg v1_xtuple_0 X0) \Rightarrow (\forall X1.(\neg v1_xtuple_0 X1) \Rightarrow \\ & (\forall X2.(\neg v1_xtuple_0 X2) \Rightarrow (k2_msafree2 (k25_gfacirc1 X0 \\ & X1 X2) = k1_enumset1 X0 X1 X2))) \end{aligned}$$