

t27_gfacirc1
(TMTKa2aiQ72rfcVtpQggqX74yM6CJrPY4Dj)

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Let $k4_tarSKI : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k14_twoscomp : \iota$ be given. Let $k2_msafree2 : \iota \Rightarrow \iota$ be given. Let $k10_gfacirc1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_finseq_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k6_margrel1 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_facirc_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. ((v1_funct_1 X3) \wedge \\ & ((v1_funct_2 X3 (k4_finseq_2 np_2 k6_margrel1) k6_margrel1) \wedge \\ & (m1_subset_1 X3 (k1_zfmisc_1 (k2_zfmisc_1 (k4_finseq_2 np_2 \\ & k6_margrel1) k6_margrel1)))))) \Rightarrow ((X0 \neq k4_tarSKI (k10_finseq_1 \\ & X1 X2) X3) \Rightarrow (k2_msafree2 (k8_facirc_1 X1 X2 X0 X3) = k1_enumset1 X1 \\ & X2 X0)) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & (v1_funct_1 k14_twoscomp) \wedge ((v1_funct_2 k14_twoscomp (k4_finseq_2 \\ & np_2 k6_margrel1) k6_margrel1) \wedge (m1_subset_1 k14_twoscomp (\\ & k1_zfmisc_1 (k2_zfmisc_1 (k4_finseq_2 np_2 k6_margrel1) k6_margrel1)))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. (X3 = k1_enumset1 \\ & X0 X1 X2) \Leftrightarrow (\forall X4. (X4 \in X3) \Leftrightarrow (\neg (X4 \neq X0) \wedge ((X4 \neq X1) \wedge (X4 \neq X2)))) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. k10_gfacirc1 X0 X1 X2 = k8_facirc_1 \\ & X0 X1 X2 k14_twoscomp \end{aligned} \tag{4}$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (X2 \neq k4_tarSKI (k10_finseq_1 \\ & X0 X1) k14_twoscomp) \Rightarrow ((X0 \in k2_msafree2 (k10_gfacirc1 X0 X1 X2)) \wedge \\ & ((X1 \in k2_msafree2 (k10_gfacirc1 X0 X1 X2)) \wedge (X2 \in k2_msafree2 (k10_gfacirc1 \\ & X0 X1 X2)))) \end{aligned}$$