

t24_gfacirc1 (TMTwvPinYzDV- Paa2BcauM3KYX9AGyojxb85)

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Let $k3_msafree2 : \iota \Rightarrow \iota$ be given. Let $k10_gfacirc1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k14_twoscomp : \iota$ be given. Let $k12_gfacirc1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k8_facirc_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_facirc_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. ((v1_funct_1 X3) \wedge \\ & ((v1_funct_2 X3 (k4_finseq_2 np_2 k6_margrel1) k6_margrel1) \wedge \\ & (m1_subset_1 X3 (k1_zfmisc_1 (k2_zfmisc_1 (k4_finseq_2 np_2 \\ & k6_margrel1) k6_margrel1)))))) \Rightarrow (k3_msafree2 (k8_facirc_1 X0 \\ & X1 X2 X3) = k2_tarski (k4_tarski (k10_finseq_1 X0 X1) X3) (k9_facirc_1 \\ & X0 X1 X2 X3)) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. k2_tarski X0 X1 = k2_xboole_0 (k1_tarski X0) (k1_tarski X1) \tag{2}$$

Assume the following.

$$\begin{aligned} & (v1_funct_1 k14_twoscomp) \wedge ((v1_funct_2 k14_twoscomp (k4_finseq_2 \\ & np_2 k6_margrel1) k6_margrel1) \wedge (m1_subset_1 k14_twoscomp (\\ & k1_zfmisc_1 (k2_zfmisc_1 (k4_finseq_2 np_2 k6_margrel1) k6_margrel1)))) \end{aligned} \tag{3}$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. k12_gfacirc1 X0 X1 X2 = k9_facirc_1 X0 X1 X2 k14_twoscomp \tag{4}$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. k10_gfacirc1 X0 X1 X2 = k8_facirc_1 X0 X1 X2 k14_twoscomp \tag{5}$$

Theorem 1

$$\forall X0.\forall X1.\forall X2.k3_msafree2 (k10_gfacirc1 X0 \\ X1 X2) = k2_xboole_0 (k1_tarski (k4_tarski (k10_finseq_1 X0 X1) \\ k14_twoscomp)) (k1_tarski (k12_gfacirc1 X0 X1 X2)))$$