

t119_gfacirc1
(TMLAnewqiyi5wN9QerG9aNsfXBqWEFrntis)

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Let $k3_msafree2 : \iota \Rightarrow \iota$ be given. Let $k46_gfacirc1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k48_gfacirc1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_gfacirc1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12_gfacirc1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_facirc_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_facirc_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.k3_msafree2 (k10_gfacirc1 X0 X1 X2) = k2_xboole_0 (k1_tarski (k4_tarski (k10_finseq_1 X0 X1) k14_twoscomp)) (k1_tarski (k12_gfacirc1 X0 X1 X2)) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.k48_gfacirc1 X0 X1 X2 = k9_facirc_1 X0 X1 X2 k14_twoscomp \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.k46_gfacirc1 X0 X1 X2 = k8_facirc_1 X0 X1 X2 k14_twoscomp \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.k12_gfacirc1 X0 X1 X2 = k9_facirc_1 X0 X1 X2 k14_twoscomp \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.k10_gfacirc1 X0 X1 X2 = k8_facirc_1 X0 X1 X2 k14_twoscomp \quad (5)$$

Theorem 1

$$\forall X0.\forall X1.\forall X2.k3_msafree2 (k46_gfacirc1 X0 X1 X2) = k2_xboole_0 (k1_tarski (k4_tarski (k10_finseq_1 X0 X1) k14_twoscomp)) (k1_tarski (k48_gfacirc1 X0 X1 X2))$$