

t101_gfacirc1
(TMFFEFFq5d7n8sgoDBJ1Cud4wBP5daUafXx)

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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 $k4_gfacirc1 : \iota$ be given. Let $k3_msafree2 : \iota \Rightarrow \iota$ be given. Let $k37_gfacirc1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k36_gfacirc1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_twoscomp : \iota$ be given. Let $k3_gfacirc1 : \iota$ be given. Let $k4_twoscomp : \iota$ be given. Let $k33_gfacirc1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k1_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. k3_msafree2 (k37_gfacirc1 X0 \\ & X1 X2) = k2_xboole_0 (k2_xboole_0 (k2_xboole_0 (k1_tarski (k4_tarski \\ & (k10_finseq_1 X0 X1) k4_gfacirc1)) (k1_tarski (k36_gfacirc1 X0 \\ & X1 X2))) (k1_enumset1 (k4_tarski (k10_finseq_1 X0 X1) k3_twoscomp) \\ & (k4_tarski (k10_finseq_1 X1 X2) k3_gfacirc1) (k4_tarski (k10_finseq_1 \\ & X2 X0) k4_twoscomp))) (k1_tarski (k33_gfacirc1 X0 X1 X2)) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. k3_enumset1 \\ & X0 X1 X2 X3 X4 = k2_xboole_0 (k2_tarski X0 X1) (k1_enumset1 X2 X3 X4) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. k2_tarski X0 X1 = k2_xboole_0 (k1_tarski \\ & X0) (k1_tarski X1) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\ & k4_enumset1 X0 X1 X2 X3 X4 X5 = k2_xboole_0 (k3_enumset1 X0 X1 X2 X3 \\ & X4) (k1_tarski X5) \end{aligned} \tag{4}$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5. \\ & \forall X6.(X6 = k4.enumset1 X0 X1 X2 X3 X4 X5) \Leftrightarrow (\forall X7.(X7 \in X6) \Leftrightarrow \\ & (\neg(X7 \neq X0) \wedge ((X7 \neq X1) \wedge ((X7 \neq X2) \wedge ((X7 \neq X3) \wedge ((X7 \neq X4) \wedge (X7 \neq X5))))))) \end{aligned} \tag{5}$$

Theorem 1

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.(k4.tarski (k10.finseq_1 X0 \\ & X1) k4.gfacirc1 \in k3.msafree2 (k37.gfacirc1 X0 X1 X2)) \wedge ((k36.gfacirc1 \\ & X0 X1 X2 \in k3.msafree2 (k37.gfacirc1 X0 X1 X2)) \wedge ((k4.tarski (k10.finseq_1 \\ & X0 X1) k3.twoscomp \in k3.msafree2 (k37.gfacirc1 X0 X1 X2)) \wedge ((k4.tarski \\ & (k10.finseq_1 X1 X2) k3.gfacirc1 \in k3.msafree2 (k37.gfacirc1 X0 \\ & X1 X2)) \wedge ((k4.tarski (k10.finseq_1 X2 X0) k4.twoscomp \in k3.msafree2 \\ & (k37.gfacirc1 X0 X1 X2)) \wedge (k33.gfacirc1 X0 X1 X2 \in k3.msafree2 (k37.gfacirc1 \\ & X0 X1 X2)))))) \end{aligned}$$