

t88_gfacirc1

(TMYn92qE36HiuYKQ9Sx52sUEH2gagbbptiZ)

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Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k34_gfacirc1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k22_gfacirc1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_facirc_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.(X0 \in u1_struct_0 (k22_gfacirc1 \\ & X0 X1 X2)) \wedge ((X1 \in u1_struct_0 (k22_gfacirc1 X0 X1 X2)) \wedge ((X2 \in u1_struct_0 \\ & (k22_gfacirc1 X0 X1 X2)) \wedge ((k4_tarski (k10_finseq_1 X0 X1) k4_gfacirc1 \in \\ & u1_struct_0 (k22_gfacirc1 X0 X1 X2)) \wedge (k4_tarski (k10_finseq_1 \\ & (k4_tarski (k10_finseq_1 X0 X1) k4_gfacirc1) X2) k4_gfacirc1 \in \\ & u1_struct_0 (k22_gfacirc1 X0 X1 X2)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.k34_gfacirc1 X0 X1 X2 = k8_facirc_1 \\ & X0 X1 X2 k4_gfacirc1 \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.k22_gfacirc1 X0 X1 X2 = k8_facirc_1 \\ & X0 X1 X2 k4_gfacirc1 \end{aligned} \quad (3)$$

Theorem 1

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.(X0 \in u1_struct_0 (k34_gfacirc1 \\ & X0 X1 X2)) \wedge ((X1 \in u1_struct_0 (k34_gfacirc1 X0 X1 X2)) \wedge ((X2 \in u1_struct_0 \\ & (k34_gfacirc1 X0 X1 X2)) \wedge ((k4_tarski (k10_finseq_1 X0 X1) k4_gfacirc1 \in \\ & u1_struct_0 (k34_gfacirc1 X0 X1 X2)) \wedge (k4_tarski (k10_finseq_1 \\ & (k4_tarski (k10_finseq_1 X0 X1) k4_gfacirc1) X2) k4_gfacirc1 \in \\ & u1_struct_0 (k34_gfacirc1 X0 X1 X2)))))) \end{aligned}$$