

# t98\_gfacirc1 (TMMm- FreLoADYM9NCyR9WisTQhwtow489y5o)

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Let  $v1\_xtuple\_0 : \iota \Rightarrow o$  be given. Let  $k2\_msafree2 : \iota \Rightarrow \iota$  be given. Let  $k37\_gfacirc1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  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  $k3\_gfacirc1 : \iota$  be given. Let  $k4\_twoscomp : \iota$  be given. Let  $k3\_twoscomp : \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \neg (X2 \neq k4\_tarski (k10\_finseq\_1 \\ & X0 X1) k4\_gfacirc1) \wedge ((X0 \neq k4\_tarski (k10\_finseq\_1 X1 X2) k3\_gfacirc1) \wedge \\ & ((X1 \neq k4\_tarski (k10\_finseq\_1 X2 X0) k4\_twoscomp) \wedge ((X2 \neq k4\_tarski \\ & (k10\_finseq\_1 X0 X1) k3\_twoscomp) \wedge (k2\_msafree2 (k37\_gfacirc1 \\ & X0 X1 X2) \neq k1\_enumset1 X0 X1 X2)))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. (v1\_xtuple\_0 X0) \Leftrightarrow (\exists X1. \exists X2. X0 = k4\_tarski X1 X2) \tag{2}$$

## Theorem 1

$$\begin{aligned} & \forall X0. (\neg v1\_xtuple\_0 X0) \Rightarrow (\forall X1. (\neg v1\_xtuple\_0 X1) \Rightarrow \\ & (\forall X2. (\neg v1\_xtuple\_0 X2) \Rightarrow (k2\_msafree2 (k37\_gfacirc1 X0 \\ & X1 X2) = k1\_enumset1 X0 X1 X2))) \end{aligned}$$