

## t59\_facirc\_1

(TMXiCnHQ8z528grcZyfvZQobz1Cnj7tSNdp)

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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  $v1\_xtuple\_0 : \iota \Rightarrow o$  be given. Let  $v1\_facirc\_1 : \iota \Rightarrow o$  be given. Let  $k2\_msafree2 : \iota \Rightarrow \iota$  be given. Let  $k8\_facirc\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k10\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. ((v1\_funct\_1 X3) \wedge \\ & ((v1\_funct\_2 X3 (k4\_finseq\_2 np\_2 k6\_margrel1) k6\_margrel1) \wedge \\ & (m1\_subset\_1 X3 (k1\_zfmisc\_1 (k2\_zfmisc\_1 (k4\_finseq\_2 np\_2 \\ & k6\_margrel1) k6\_margrel1)))))) \Rightarrow ((X0 \neq k4\_tarski (k10\_finseq\_1 \\ & X1 X2) X3) \Rightarrow (k2\_msafree2 (k8\_facirc\_1 X1 X2 X0 X3) = k1\_enumset1 X1 \\ & X2 X0)) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((\neg v1\_xtuple\_0 X0) \wedge ((\neg v1\_xtuple\_0 \\ & X1) \wedge (\neg v1\_xtuple\_0 X2))) \Rightarrow (\neg v1\_facirc\_1 (k1\_enumset1 X0 X1 X2)) \end{aligned} \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. v1\_xtuple\_0 (k4\_tarski X0 X1) \tag{3}$$

Assume the following.

$$\forall X0. \forall X1. k4\_tarski X0 X1 = k2\_tarski (k2\_tarski X0 X1) (k1\_tarski X0) \tag{4}$$

### Theorem 1

$$\begin{aligned} & \forall X0. ((v1\_funct\_1 X0) \wedge ((v1\_funct\_2 X0 (k4\_finseq\_2 np\_2 \\ & k6\_margrel1) k6\_margrel1) \wedge (m1\_subset\_1 X0 (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\ & (k4\_finseq\_2 np\_2 k6\_margrel1) k6\_margrel1)))))) \Rightarrow (\forall X1. \\ & (\neg v1\_xtuple\_0 X1) \Rightarrow (\forall X2. (\neg v1\_xtuple\_0 X2) \Rightarrow (\forall X3. \\ & (\neg v1\_xtuple\_0 X3) \Rightarrow (\neg v1\_facirc\_1 (k2\_msafree2 (k8\_facirc\_1 X1 \\ & X2 X3 X0)))))) \end{aligned}$$