

## t2\_facirc\_2

(TMRe4AJS4pTynDhNzeAingaeRZNN4oXQfLZ)

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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  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $k10\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k6\_classes1 : \iota \Rightarrow \iota$  be given. Let  $k2\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. (v1\_relat\_1 X1) \Rightarrow (\forall X2. (X2 \in k10\_xtuple\_0 X1) \Rightarrow (k6\_classes1 X2 \in k6\_classes1 (k4\_tarski X1 X0))) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. k10\_xtuple\_0 (k10\_finseq\_1 X0 X1) = k2\_tarski X0 X1 \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (v1\_relat\_1 (k10\_finseq\_1 X0 X1)) \wedge (v1\_funct\_1 (k10\_finseq\_1 X0 X1)) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (X2 = k2\_tarski X0 X1) \Leftrightarrow (\forall X3. (X3 \in X2) \Leftrightarrow ((X3 = X0) \vee (X3 = X1))) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (\neg X1 \in X0) \quad (5)$$

### Theorem 1

$$\forall X0. \forall X1. \forall X2. (X0 \neq k4\_tarski (k10\_finseq\_1 X0 X1) X2) \wedge (X1 \neq k4\_tarski (k10\_finseq\_1 X0 X1) X2)$$