

t151\_finseq\_3  
(TMZKSKNe3qgpyi7tikwSoafxTihCFrmoanW)

October 27, 2020

Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_finseq\_1 : \iota \Rightarrow o$  be given. Let  $k10\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k2\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_finseq\_1 : \iota \Rightarrow \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k10\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((v1\_relat\_1 X2) \wedge ((v1\_funct\_1 \\ & X2) \wedge (v1\_finseq\_1 X2))) \Rightarrow ((X2 = k10\_finseq\_1 X0 X1) \Leftrightarrow ((k3\_finseq\_1 \\ & X2 = np\_2) \wedge ((k1\_funct\_1 X2 np\_1 = X0) \wedge (k1\_funct\_1 X2 np\_2 = X1)))) \end{aligned} \quad (1)$$

Assume the following.

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

Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. \neg (k2\_tarski X0 X1 = k2\_tarski X2 X3) \wedge ((X0 \neq X2) \wedge (X0 \neq X3)) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. k2\_tarski X0 X1 = k2\_tarski X1 X0 \quad (4)$$

**Theorem 1**

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((v1\_relat\_1 X2) \wedge ((v1\_funct\_1 \\ & X2) \wedge (v1\_finseq\_1 X2))) \Rightarrow (\neg (k10\_xtuple\_0 X2 = k2\_tarski X0 X1) \wedge \\ & ((k3\_finseq\_1 X2 = np\_2) \wedge ((\neg (k1\_funct\_1 X2 np\_1 = X0) \wedge (k1\_funct\_1 \\ & X2 np\_2 = X1)) \wedge (\neg (k1\_funct\_1 X2 np\_1 = X1) \wedge (k1\_funct\_1 X2 np\_2 = \\ & X0)))))) \end{aligned}$$