

t3\_sprect\_1  
(TMden9fDfoCF Jp8WNq92eZJThf2FvszJ9ze)

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Let  $v3\_funct\_1 : \iota \Rightarrow o$  be given. Let  $k11\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k7\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k9\_finseq\_1 : \iota \Rightarrow \iota$  be given. Let  $k10\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k10\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k1\_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_zfmisc\_1 : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (k11\_finseq\_1 X0 X1 X2 = k7\_finseq\_1 \\ & (k9\_finseq\_1 X0) (k10\_finseq\_1 X1 X2)) \wedge (k11\_finseq\_1 X0 X1 X2 = \\ & k7\_finseq\_1 (k10\_finseq\_1 X0 X1) (k9\_finseq\_1 X2)) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. k10\_xtuple\_0 (k11\_finseq\_1 \\ & X0 X1 X2) = k1\_enumset1 X0 X1 X2 \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (v1\_relat\_1 (k11\_finseq\_1 X0 \\ & X1 X2)) \wedge (v1\_funct\_1 (k11\_finseq\_1 X0 X1 X2)) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v1\_relat\_1 X0) \wedge ((v1\_funct\_1 X0) \wedge (v3\_funct\_1 X0))) \Rightarrow \\ & (v1\_zfmisc\_1 (k10\_xtuple\_0 X0)) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. k10\_finseq\_1 X0 X1 = k7\_finseq\_1 (k9\_finseq\_1 \\ & X0) (k9\_finseq\_1 X1) \end{aligned} \quad (5)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. (X3 = k1\_enumset1 \\ & X0 X1 X2) \Leftrightarrow (\forall X4. (X4 \in X3) \Leftrightarrow (\neg(X4 \neq X0) \wedge ((X4 \neq X1) \wedge (X4 \neq X2)))) \end{aligned} \quad (6)$$

Assume the following.

$$\begin{aligned} & \forall X0. (v1\_zfmisc\_1 X0) \Leftrightarrow (\forall X1. \forall X2. ((X1 \in X0) \wedge \\ & (X2 \in X0)) \Rightarrow (X1 = X2)) \end{aligned} \quad (7)$$

**Theorem 1**

$$\forall X0.\forall X1.\forall X2.(v3\_funct\_1 (k11\_finseq\_1 X0 X1 X2))\Rightarrow((X0 = X1)\wedge((X1 = X2)\wedge(X2 = X0)))$$