t6_yellow15 (TMN8kgWbWqKfVAg8NY4QLzJzpbHXzg7JfoW)

October 27, 2020

Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9\_setfam\_1 : \iota \Rightarrow \iota$ be given. Let $k6\_margrel1 : \iota$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $k4\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_margrel1 : \iota$ be given. Let $k1\_yellow15 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $np\_\_1 : \iota$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8\_margrel1 : \iota$ be given. Let $k2\_xboolean : \iota$ be given. Let $k1\_xboolean : \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v4\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_finset\_1 : \iota \Rightarrow o$ be given. Let $v3\_card\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_finseq\_1 : \iota \Rightarrow o$ be given. Let $v2\_finseq\_1 : \iota \Rightarrow o$ be given. Let $k14\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v1\_zfmisc\_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{array}{c}((v2\_xxreal\_0\ np\_\_1) \wedge (m2\_subset\_1\ np\_\_1\ k1\_numbers\ k5\_numbers)) \wedge \\ ((m1\_subset\_1\ np\_\_1\ k5\_numbers) \wedge (m1\_subset\_1\ np\_\_1\ k1\_numbers))\end{array} \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(m2\_finseq\_1\ X1\ X0) \Leftrightarrow (m1\_finseq\_1\ X1\ X0) \tag{2}$$

Assume the following.

$$k8\_margrel1 = k2\_xboolean \tag{3}$$

Assume the following.

$$k7\_margrel1 = k1\_xboolean \tag{4}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{5}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{6}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\exists X1.(v1\_relat\_1\ X1) \wedge ((v4\_relat\_1\ X1\ k5\_numbers) \wedge ((v1\_funct\_1\ X1) \wedge ((v1\_finset\_1\ X1) \wedge ((v3\_card\_1\ X1\ X0) \wedge ((v1\_finseq\_1\ X1) \wedge (v2\_finseq\_1\ X1))))))) \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((m1\_finseq\_1\ X1\ (k9\_setfam\_1\ X0)) \wedge (m1\_finseq\_1\ X2\ k6\_margrel1)) \Rightarrow (m2\_finseq\_1\ (k1\_yellow15\ X0\ X1\ X2)\ (k9\_setfam\_1\ X0)) \tag{8}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((X0 = X1) \Rightarrow (k14\_funcop\_1\ X0\ X1\ X2\ X3 = X2)) \wedge ((X0 \neq X1) \Rightarrow (k14\_funcop\_1\ X0\ X1\ X2\ X3 = X3)) \tag{9}$$

Assume the following.

$$k2\_xboolean = np\_\_1 \tag{10}$$

Assume the following.

$$\forall X0.\forall X1.(m2\_finseq\_1\ X1\ (k9\_setfam\_1\ X0)) \Rightarrow (\forall X2.(m2\_finseq\_1\ X2\ k6\_margrel1) \Rightarrow (\forall X3.(m2\_finseq\_1\ X3\ (k9\_setfam\_1\ X0)) \Rightarrow ((X3 = k1\_yellow15\ X0\ X1\ X2) \Leftrightarrow ((k3\_finseq\_1\ X3 = k3\_finseq\_1\ X1) \wedge (\forall X4.(v7\_ordinal1\ X4) \Rightarrow ((X4 \in k4\_finseq\_1\ X1) \Rightarrow (k1\_funct\_1\ X3\ X4 = k14\_funcop\_1\ (k1\_funct\_1\ X2\ X4)\ k8\_margrel1\ (k1\_funct\_1\ X1\ X4)\ (k6\_subset\_1\ X0\ (k1\_funct\_1\ X1\ X4))))))))) \tag{11}$$

Assume the following.

$$k1\_xboolean = k6\_numbers \tag{12}$$

Assume the following.

$$\forall X0.(v3\_card\_1\ X0\ np\_\_1) \Rightarrow ((\neg v1\_xboole\_0\ X0) \wedge (v1\_zfmisc\_1\ X0)) \tag{13}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k4\_ordinal1) \Rightarrow (v7\_ordinal1\ X0) \tag{14}$$

Assume the following.

$$\forall X0.(v3\_card\_1\ X0\ k1\_xboole\_0) \Rightarrow (v1\_xboole\_0\ X0) \tag{15}$$

Theorem 1

$$\forall X0.\forall X1.(m2\_finseq\_1\ X1\ (k9\_setfam\_1\ X0)) \Rightarrow (\forall X2.(m2\_finseq\_1\ X2\ k6\_margrel1) \Rightarrow (\forall X3.(v7\_ordinal1\ X3) \Rightarrow (((X3 \in k4\_finseq\_1\ X1) \wedge (k1\_funct\_1\ X2\ X3 = k7\_margrel1)) \Rightarrow (k1\_funct\_1\ (k1\_yellow15\ X0\ X1\ X2)\ X3 = k6\_subset\_1\ X0\ (k1\_funct\_1\ X1\ X3))))))$$