t130_finseq_3 (TMXfgQ-MuT5pRXH5g7F1JqqNjTdLMGNDRLy9)

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Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k4\_card\_3 : \iota \Rightarrow \iota$ be given. Let $k11\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_finseq\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_3 : \iota$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $k1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_finseq\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_2 : \iota$ be given. Let $k10\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k9\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $k7\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2\_xxreal\_0 : \iota \Rightarrow o$ 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 $k4\_ordinal1 : \iota$ be given. Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.k4\_finseq\_2\ X0\ X1 = k1\_funct\_2\ (k2\_finseq\_1\ X0)\ X1) \tag{1}$$

Assume the following.

$$\forall X0.k2\_finseq\_2\ np\_\_3\ X0 = k11\_finseq\_1\ X0\ X0\ X0 \tag{2}$$

Assume the following.

$$\forall X0.k2\_finseq\_2\ np\_\_2\ X0 = k10\_finseq\_1\ X0\ X0 \tag{3}$$

Assume the following.

$$\forall X0.k2\_finseq\_2\ np\_\_1\ X0 = k9\_finseq\_1\ X0 \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(k11\_finseq\_1\ X0\ X1\ X2 = k7\_finseq\_1\ (k9\_finseq\_1\ X0)\ (k10\_finseq\_1\ X1\ X2)) \wedge (k11\_finseq\_1\ X0\ X1\ X2 = k7\_finseq\_1\ (k10\_finseq\_1\ X0\ X1)\ (k9\_finseq\_1\ X2)) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.k1\_funct\_2\ X0\ X1 = k4\_card\_3\ (k7\_funcop\_1\ X0\ X1) \tag{6}$$

Assume the following.

$$((v2\_xxreal\_0\ np\_\_3)\wedge(m2\_subset\_1\ np\_\_3\ k1\_numbers\ k5\_numbers))\wedge((m1\_subset\_1\ np\_\_3\ k5\_numbers)\wedge(m1\_subset\_1\ np\_\_3\ k1\_numbers)) \tag{7}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{8}$$

Assume the following.

$$\forall X0.\forall X1.k10\_finseq\_1\ X0\ X1 = k7\_finseq\_1\ (k9\_finseq\_1\ X0)\ (k9\_finseq\_1\ X1) \tag{9}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow(\forall X1.k2\_finseq\_2\ X0\ X1 = k7\_funcop\_1\ (k2\_finseq\_1\ X0)\ X1) \tag{10}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k4\_ordinal1)\Rightarrow(v7\_ordinal1\ X0) \tag{11}$$

Theorem 1

$$\forall X0.(\neg v1\_xboole\_0\ X0)\Rightarrow(k4\_card\_3\ (k11\_finseq\_1\ X0\ X0\ X0) = k4\_finseq\_2\ np\_\_3\ X0)$$