t50_finseq_1 (TMHFW32fpd6ddQtKV7rKCsprnGAFZjppZkq)

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Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v2\_finseq\_1 : \iota \Rightarrow o$ be given. Let $k10\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $k14\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $k9\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_numbers : \iota$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_1 : \iota$ be given. Let $k3\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.m2\_finseq\_1\ (k14\_finseq\_1\ X0)\ k5\_numbers \tag{1}$$

Assume the following.

$$\forall X0.(\exists X1.(v7\_ordinal1\ X1)\wedge(r1\_tarski\ X0\ (k2\_finseq\_1\ X1)))\Rightarrow(\forall X1.(m2\_finseq\_1\ X1\ k5\_numbers)\Rightarrow((X1 = k14\_finseq\_1\ X0)\Leftrightarrow((k10\_xtuple\_0\ X1 = X0)\wedge(\forall X2.(v7\_ordinal1\ X2)\Rightarrow(\forall X3.(v7\_ordinal1\ X3)\Rightarrow(\forall X4.(v7\_ordinal1\ X4)\Rightarrow(\forall X5.(v7\_ordinal1\ X5)\Rightarrow(\neg(r1\_xxreal\_0\ np\_\_1\ X2)\wedge((\neg r1\_xxreal\_0\ X3\ X2)\wedge((r1\_xxreal\_0\ X3\ (k3\_finseq\_1\ X1))\wedge((X4 = k1\_funct\_1\ X1\ X2)\wedge((X5 = k1\_funct\_1\ X1\ X3)\wedge(r1\_xxreal\_0\ X5\ X4))))))))))) \tag{2}$$

Assume the following.

$$\forall X0.((v1\_relat\_1\ X0)\wedge(v1\_funct\_1\ X0))\Rightarrow((v2\_finseq\_1\ X0)\Leftrightarrow(\exists X1.(v7\_ordinal1\ X1)\wedge(r1\_tarski\ (k9\_xtuple\_0\ X0)\ (k2\_finseq\_1\ X1)))) \tag{3}$$

Theorem 1

$$\forall X0.((v1\_relat\_1\ X0)\wedge((v1\_funct\_1\ X0)\wedge(v2\_finseq\_1\ X0)))\Rightarrow(k10\_xtuple\_0\ (k14\_finseq\_1\ (k9\_xtuple\_0\ X0)) = k9\_xtuple\_0\ X0)$$