l87_comput_1 (TMT3kHDEBSn3qpqdRPtY2aok9DBrNoKTmoY)

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Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_numbers : \iota$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_1 : \iota$ be given. Let $m2\_finseq\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4\_finseq\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_midsp\_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1\_finseq\_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X0\ X1) \Rightarrow ((v1\_xboole\_0\ X1) \vee (X0 \in X1)) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_finseq\_2\ X1\ X0) \Rightarrow (\forall X2.(m2\_finseq\_2\ X2\ X0\ X1) \Leftrightarrow (m1\_subset\_1\ X2\ X1)) \tag{2}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.((v7\_ordinal1\ X0) \wedge (\neg v1\_xboole\_0\ X1)) \Rightarrow (\neg v1\_xboole\_0\ (k4\_finseq\_2\ X0\ X1)) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.(v7\_ordinal1\ X0) \Rightarrow (m1\_finseq\_2\ (k4\_finseq\_2\ X0\ X1)\ X1) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.((\neg v1\_xboole\_0\ X0) \wedge ((m1\_subset\_1\ X1\ k5\_numbers) \wedge ((m1\_subset\_1\ X2\ (k4\_finseq\_2\ X1\ X0)) \wedge ((m1\_subset\_1\ X3\ k5\_numbers) \wedge (m1\_subset\_1\ X4\ X0))))) \Rightarrow (m2\_finseq\_2\ (k1\_midsp\_3\ X0\ X1\ X2\ X3\ X4)\ X0\ (k4\_finseq\_2\ X1\ X0)) \tag{6}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k4\_ordinal1) \Rightarrow (v7\_ordinal1\ X0) \tag{7}$$

Theorem 1

$$\forall X0.(\neg v1\_xboole\_0\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ k5\_numbers)\Rightarrow (\forall X2.(m1\_subset\_1\ X2\ k5\_numbers)\Rightarrow(((r1\_xxreal\_0\ np\_\_1\ X2)\wedge(r1\_xxreal\_0\ X2\ X1))\Rightarrow(\forall X3.(m1\_subset\_1\ X3\ X0)\Rightarrow(\forall X4.(m2\_finseq\_2\ X4\ X0\ (k4\_finseq\_2\ X1\ X0))\Rightarrow(k1\_midsp\_3\ X0\ X1\ X4\ X2\ X3\in k4\_finseq\_2\ X1\ X0))))))$$