t133_seq_4 (TMK-WQHTqF5jmUm7W7UUeTfJbfmY2uLu9Spo)

October 27, 2020

Let $v1\_finset\_1 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_numbers : \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $v4\_xxreal\_2 : \iota \Rightarrow o$ be given. Let $k4\_seq\_4 : \iota \Rightarrow \iota$ be given. Let $v3\_xxreal\_2 : \iota \Rightarrow o$ be given. Let $k5\_seq\_4 : \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_numbers : \iota$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $k5\_card\_1 : \iota \Rightarrow \iota$ be given. Let $v3\_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0) \wedge ((\neg v1\_xboole\_0\ X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0)))) \Rightarrow (\forall X2.(m2\_subset\_1\ X2\ X0\ X1) \Leftrightarrow (m1\_subset\_1\ X2\ X1)) \tag{1}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{2}$$

Assume the following.

$$\forall X0.(m2\_subset\_1\ X0\ k1\_numbers\ k5\_numbers) \Rightarrow (\forall X1.((v1\_finset\_1\ X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ k1\_numbers))) \Rightarrow ((k5\_card\_1\ X1 = X0) \Rightarrow ((X1 = k1\_xboole\_0) \vee ((v4\_xxreal\_2\ X1) \wedge ((k4\_seq\_4\ X1 \in X1) \wedge ((v3\_xxreal\_2\ X1) \wedge (k5\_seq\_4\ X1 \in X1))))))) \tag{3}$$

Assume the following.

$$(\neg v1\_xboole\_0\ k4\_ordinal1) \wedge (v3\_ordinal1\ k4\_ordinal1) \tag{4}$$

Assume the following.

$$m1\_subset\_1\ k5\_numbers\ (k1\_zfmisc\_1\ k1\_numbers) \tag{5}$$

Assume the following.

$$\forall X0.(v1\_finset\_1\ X0) \Rightarrow (m1\_subset\_1\ (k5\_card\_1\ X0)\ k4\_ordinal1) \tag{6}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0)) \Rightarrow (v1\_xboole\_0\ X1)) \tag{7}$$

Theorem 1

$$\forall X0.((v1\_finset\_1\ X0)\wedge(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k1\_numbers)))\Rightarrow ((X0\neq k1\_xboole\_0)\Rightarrow((v4\_xxreal\_2\ X0)\wedge((k4\_seq\_4\ X0\in X0)\wedge((v3\_xxreal\_2\ X0)\wedge(k5\_seq\_4\ X0\in X0)))))$$