l159_seq_4 (TMbvSy5nEdqJdt45P2p6cr8LFeqLfzuBLoX)

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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 $k5\_card\_1 : \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ 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 $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.r1\_tarski\ k1\_xboole\_0\ X0 \tag{1}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{2}$$

Assume the following.

$$\forall X0.(v1\_finset\_1\ X0) \Rightarrow (k5\_card\_1\ (k5\_card\_1\ X0) = k5\_card\_1\ X0) \tag{3}$$

Assume the following.

$$\begin{gathered}\forall X0.(v1\_finset\_1\ X0) \Rightarrow (\forall X1.(v1\_finset\_1\ X1) \Rightarrow ((\\ (r1\_tarski\ X0\ X1) \wedge (k5\_card\_1\ X0 = k5\_card\_1\ X1)) \Rightarrow (X0 = X1)))\end{gathered} \tag{4}$$

Assume the following.

$$v1\_xboole\_0\ k1\_xboole\_0 \tag{5}$$

Assume the following.

$$\forall X0.(\neg v1\_finset\_1\ X0) \Rightarrow (\neg v1\_xboole\_0\ X0) \tag{6}$$

Theorem 1

$$\begin{gathered}\forall X0.((v1\_finset\_1\ X0) \wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k1\_numbers))) \Rightarrow \\ ((k5\_card\_1\ X0 = k6\_numbers) \Rightarrow ((X0 = k1\_xboole\_0) \vee ((v4\_xxreal\_2 \\ X0) \wedge ((k4\_seq\_4\ X0 \in X0) \wedge ((v3\_xxreal\_2\ X0) \wedge (k5\_seq\_4\ X0 \in X0))))))\end{gathered}$$