

t58\_finseq\_2  
 (TMJeqb5yfv3sqdV7xkSYyxxgDCoVTZdjEJj)

October 27, 2020

Let  $k2\_finseq\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v3\_card\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_finseq\_1 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v1\_xboole\_0 X0) \Rightarrow (X0 = k1\_xboole\_0) \quad (1)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(v7\_ordinal1 X0) \Rightarrow ((v1\_relat\_1 (k2\_finseq\_2 X0 X1)) \wedge ((v1\_funct\_1 (k2\_finseq\_2 X0 X1)) \wedge ((v3\_card\_1 (k2\_finseq\_2 X0 X1) X0) \wedge (v1\_finseq\_1 (k2\_finseq\_2 X0 X1)))))) \quad (3)$$

Assume the following.

$$v1\_xboole\_0 k1\_xboole\_0 \quad (4)$$

Assume the following.

$$\forall X0.(v1\_xboole\_0 X0) \Rightarrow (v7\_ordinal1 X0) \quad (5)$$

Assume the following.

$$\forall X0.(v3\_card\_1 X0 k1\_xboole\_0) \Rightarrow (v1\_xboole\_0 X0) \quad (6)$$

**Theorem 1**  $\forall X0.k2\_finseq\_2 k6\_numbers X0 = k1\_xboole\_0.$