

# l173\_seq\_4

(TMHCm5yqRhBFMeeXRFU1KiqLXBGMLvHFinc)

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Let  $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k3\_finseq\_1 : \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k1\_rvsum\_1 : \iota \Rightarrow \iota$  be given. Let  $v5\_valued\_0 : \iota \Rightarrow o$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_finseq\_1 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k5\_numbers : \iota$  be given. Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (1)$$

Assume the following.

$$\forall X0.((v1\_relat\_1 X0) \wedge ((v1\_funct\_1 X0) \wedge (v1\_finseq\_1 X0))) \Rightarrow ((X0 = k1\_xboole\_0) \Leftrightarrow (k3\_finseq\_1 X0 = k6\_numbers)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (m2\_finseq\_1 X1 X0) \Rightarrow ((v1\_funct\_1 X1) \wedge ((v1\_finseq\_1 X1) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k5\_numbers X0)))))) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X1))) \Rightarrow (v1\_relat\_1 X2) \quad (4)$$

## Theorem 1

$$\forall X0. (m2\_finseq\_1 X0 k1\_numbers) \Rightarrow (\forall X1. (m2\_finseq\_1 X1 k1\_numbers) \Rightarrow (((k3\_finseq\_1 X0 = k6\_numbers) \wedge ((k3\_finseq\_1 X1 = k6\_numbers) \wedge ((k1\_rvsum\_1 X0 = k1\_rvsum\_1 X1) \wedge ((v5\_valued\_0 X0) \wedge (v5\_valued\_0 X1)))))) \Rightarrow (X0 = X1)))$$