

## t141\_seq\_4

(TMbwf94Mx8bvqsoPjiRnk7AKBdNGSYZ8iyg)

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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  $k1\_rvsum\_1 : \iota \Rightarrow \iota$  be given. Let  $v5\_valued\_0 : \iota \Rightarrow o$  be given. Let  $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  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  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0.(m2\_subset\_1 X0 k1\_numbers k5\_numbers) \Rightarrow (\forall X1. \\ & (m2\_finseq\_1 X1 k1\_numbers) \Rightarrow (\forall X2.(m2\_finseq\_1 X2 k1\_numbers) \Rightarrow \\ & (((k3\_finseq\_1 X1 = X0) \wedge ((k3\_finseq\_1 X2 = X0) \wedge ((k1\_rvsum\_1 X1 = \\ & k1\_rvsum\_1 X2) \wedge ((v5\_valued\_0 X1) \wedge (v5\_valued\_0 X2)))))) \Rightarrow (X1 = \\ & X2)))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.(m2\_finseq\_1 X1 X0) \Rightarrow ((v1\_funct\_1 X1) \wedge ( \\ & (v1\_finseq\_1 X1) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k5\_numbers \\ & X0)))))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1\_relat\_1 X0) \wedge ((v1\_funct\_1 X0) \wedge (v1\_finseq\_1 X0))) \Rightarrow \\ & (m2\_subset\_1 (k3\_finseq\_1 X0) k1\_numbers k5\_numbers) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.(m1\_subset\_1 X2 (k1\_zfmisc\_1 \\ & (k2\_zfmisc\_1 X0 X1))) \Rightarrow (v1\_relat\_1 X2) \end{aligned} \tag{4}$$

### Theorem 1

$$\begin{aligned} & \forall X0.(m2\_finseq\_1 X0 k1\_numbers) \Rightarrow (\forall X1.(m2\_finseq\_1 \\ & X1 k1\_numbers) \Rightarrow (((k3\_finseq\_1 X0 = k3\_finseq\_1 X1) \wedge ((k1\_rvsum\_1 \\ & X0 = k1\_rvsum\_1 X1) \wedge ((v5\_valued\_0 X0) \wedge (v5\_valued\_0 X1)))) \Rightarrow (X0 = \\ & X1))) \end{aligned}$$