

t6\_finseq\_8  
(TMFsfNgmSXZc5UKCvh1eitcAv9CVV6dpiBE)

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Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_finseq\_1 : \iota \Rightarrow \iota$  be given. Let  $k3\_finseq\_8 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k17\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. (\neg v1\_xboole\_0 X0) \Rightarrow (\forall X1. (m2\_finseq\_1 X1 X0) \Rightarrow \\ & (\forall X2. (m1\_subset\_1 X2 k5\_numbers) \Rightarrow (k3\_finseq\_8 X0 X1 np\_1 \\ & X2 = k17\_finseq\_1 X0 X2 X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. (m1\_subset\_1 X0 k5\_numbers) \Rightarrow (\forall X1. (\neg v1\_xboole\_0 \\ & X1) \Rightarrow (\forall X2. (m2\_finseq\_1 X2 X1) \Rightarrow ((r1\_xxreal\_0 (k3\_finseq\_1 \\ & X2) X0) \Rightarrow (k17\_finseq\_1 X1 X0 X2 = X2)))) \end{aligned} \quad (2)$$

**Theorem 1**

$$\begin{aligned} & \forall X0. (\neg v1\_xboole\_0 X0) \Rightarrow (\forall X1. (m2\_finseq\_1 X1 X0) \Rightarrow \\ & (\forall X2. (m1\_subset\_1 X2 k5\_numbers) \Rightarrow ((r1\_xxreal\_0 (k3\_finseq\_1 \\ & X1) X2) \Rightarrow (k3\_finseq\_8 X0 X1 np\_1 X2 = X1)))) \end{aligned}$$