

t16\_hallmar1  
(TMHbiA2WNxzAijnANBB7Bari26jP4kzPLmZ)

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Let  $v1\_finset\_1 : \iota \Rightarrow o$  be given. Let  $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  be given. Let  $k4\_finseq\_1 : \iota \Rightarrow \iota$  be given. Let  $v1\_hallmar1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np\_1 : \iota$  be given. Let  $k5\_card\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_hallmar1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Let  $k1\_card\_1 : \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} \forall X0.(v1\_finset\_1 X0) \Rightarrow (\forall X1.(m2\_finseq\_1 X1 (k1\_zfmisc\_1 \\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1 X2 k5\_numbers) \Rightarrow ((X2 \in k4\_finseq\_1 \\ X1) \Rightarrow (k1\_hallmar1 X0 X1 (k1\_tarski X2) = k1\_funct\_1 X1 X2)))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.(k1\_card\_1 X0 = np\_1) \Leftrightarrow (\exists X1.X0 = k1\_tarski X1) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(r1\_tarski (k1\_tarski X0) X1) \Leftrightarrow (X0 \in X1) \quad (3)$$

Assume the following.

$$\forall X0.(v1\_finset\_1 X0) \Rightarrow (k5\_card\_1 X0 = k1\_card\_1 X0) \quad (4)$$

Assume the following.

$$\forall X0.v1\_finset\_1 (k1\_tarski X0) \quad (5)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1\_finset\_1 X0) \Rightarrow (\forall X1.(m2\_finseq\_1 X1 (k1\_zfmisc\_1 \\ X0)) \Rightarrow ((v1\_hallmar1 X1 X0) \Leftrightarrow (\forall X2.(v1\_finset\_1 X2) \Rightarrow ((r1\_tarski \\ X2 (k4\_finseq\_1 X1)) \Rightarrow (r1\_xxreal\_0 (k5\_card\_1 X2) (k5\_card\_1 ( \\ k1\_hallmar1 X0 X1 X2))))))) \end{aligned} \quad (6)$$

**Theorem 1**

$$\forall X0.(v1\_finset\_1 X0) \Rightarrow (\forall X1.(m2\_finseq\_1 X1 (k1\_zfmisc\_1 X0)) \Rightarrow (\forall X2.(m1\_subset\_1 X2 k5\_numbers) \Rightarrow (((X2 \in k4\_finseq\_1 X1) \wedge (v1\_hallmar1 X1 X0)) \Rightarrow (r1\_xxreal\_0 np\_1 (k5\_card\_1 (k1\_funct\_1 X1 X2))))))$$