

t6\_finseq\_4 (TMWh-  
LKGT3nhRFY8fEEWSnKqRKM3djbBvogJ)

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Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $r2\_finseq\_4 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Let  $k8\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_card\_1 : \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k10\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(k1\_card\_1 X0 = np\_1) \Leftrightarrow (\exists X1.X0 = k1\_tarski X1) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_relat\_1 X0) \Rightarrow (\forall X1.(r2\_finseq\_4 X0 X1) \Leftrightarrow (k1\_card\_1 (k10\_relat\_1 X0 X1) = np\_1)) \quad (2)$$

Assume the following.

$$\forall X0.(v1\_relat\_1 X0) \Rightarrow (\forall X1.k10\_relat\_1 X0 X1 = k8\_relat\_1 X0 (k1\_tarski X1)) \quad (3)$$

**Theorem 1**

$$\forall X0.((v1\_relat\_1 X0) \wedge (v1\_funct\_1 X0)) \Rightarrow (\forall X1.(r2\_finseq\_4 X0 X1) \Leftrightarrow (\exists X2.k1\_tarski X2 = k8\_relat\_1 X0 (k1\_tarski X1)))$$