t131_finseq_3 (TMKoRiiyXCPL8kiCjcihvUnZW27smnLeZ1g)

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Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $k4\_card\_3 : \iota \Rightarrow \iota$ be given. Let $k2\_finseq\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_finseq\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $k7\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.k4\_finseq\_2\ X0\ X1 = k1\_funct\_2\ (k2\_finseq\_1\ X0)\ X1) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.k1\_funct\_2\ X0\ X1 = k4\_card\_3\ (k7\_funcop\_1\ X0\ X1) \tag{2}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.k2\_finseq\_2\ X0\ X1 = k7\_funcop\_1\ (k2\_finseq\_1\ X0)\ X1) \tag{3}$$

Theorem 1

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.k4\_card\_3\ (k2\_finseq\_2\ X0\ X1) = k4\_finseq\_2\ X0\ X1)$$