

t57_finseq_1
 (TMJKP1xJ8orvscccrTat3qhouuBJP85GjMA)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k5_card_1 : \iota \Rightarrow \iota$ be given. Let $k2_finseq_1 : \iota \Rightarrow \iota$ be given. Let $r2_wellord2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $v1_card_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. r2_wellord2\ X0\ X0 \tag{1}$$

Assume the following.

$$\forall X0. (v1_finset_1\ X0) \Rightarrow (k5_card_1\ X0 = k1_card_1\ X0) \tag{2}$$

Assume the following.

$$\forall X0. (v7_ordinal1\ X0) \Rightarrow (k5_card_1\ (k2_finseq_1\ X0) = k5_card_1\ X0) \tag{3}$$

Assume the following.

$$\forall X0. \forall X1. (v1_card_1\ X1) \Rightarrow ((X1 = k1_card_1\ X0) \Leftrightarrow (r2_wellord2\ X0\ X1)) \tag{4}$$

Assume the following.

$$\forall X0. (v7_ordinal1\ X0) \Rightarrow (v1_finset_1\ X0) \tag{5}$$

Assume the following.

$$\forall X0. (v7_ordinal1\ X0) \Rightarrow (v1_card_1\ X0) \tag{6}$$

Theorem 1 $\forall X0. (v7_ordinal1\ X0) \Rightarrow (k5_card_1\ (k2_finseq_1\ X0) = X0).$