

t63_finseq_1 (TM-
LUNTLdz5BRlyGu9QfztzoQfw3GEUvZbEJ)

October 27, 2020

Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $k5_card_1 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Assume the following.

$$\forall X0.(v7_ordinal1\ X0) \Rightarrow (\forall X1.(v7_ordinal1\ X1) \Rightarrow ((r1_xxreal_0\ X0\ X1) \Leftrightarrow (r1_ordinal1\ X0\ X1))) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.(r1_tarski\ X0\ X1) \Rightarrow (r1_ordinal1\ (k1_card_1\ X0)\ (k1_card_1\ X1)) \quad (2)$$

Assume the following.

$$\forall X0.(v1_finset_1\ X0) \Rightarrow (k5_card_1\ X0 = k1_card_1\ X0) \quad (3)$$

Assume the following.

$$\forall X0.((v1_relat_1\ X0) \wedge ((v1_funct_1\ X0) \wedge (v1_finseq_1\ X0))) \Rightarrow (k3_finseq_1\ X0 = k1_card_1\ X0) \quad (4)$$

Assume the following.

$$\forall X0.(v1_finset_1\ X0) \Rightarrow (m1_subset_1\ (k5_card_1\ X0)\ k4_ordinal1) \quad (5)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k4_ordinal1) \Rightarrow (v7_ordinal1\ X0) \quad (6)$$

Assume the following.

$$\forall X0.((v1_relat_1\ X0) \wedge ((v1_funct_1\ X0) \wedge (v1_finseq_1\ X0))) \Rightarrow ((v1_relat_1\ X0) \wedge ((v1_funct_1\ X0) \wedge (v1_finset_1\ X0))) \quad (7)$$

Theorem 1

$$\begin{aligned} & \forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow \\ & (\forall X1.((v1_relat_1 X1) \wedge ((v1_funct_1 X1) \wedge (v1_finseq_1 \\ & X1))) \Rightarrow ((r1_tarski X0 X1) \Rightarrow (r1_xxreal_0 (k3_finseq_1 X0) (k3_finseq_1 \\ & X1)))) \end{aligned}$$