

t14_chord
(TMYrzUijYuuiXN3KxZfgZ55eC28F4m7EZSV)

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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 $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v2_funct_1 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k4_finseq_4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k4_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow ((\neg r1_xxreal_0 np_1 X0) \Rightarrow (X0 = k6_numbers)) \quad (1)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.((v1_relat_1 X1) \wedge ((v1_funct_1 X1) \wedge ((v2_funct_1 X1) \wedge (v1_finseq_1 X1)))) \Rightarrow ((X0 \in k4_finseq_1 X1) \Rightarrow (k4_finseq_4 X1 (k1_funct_1 X1 X0) = X0))) \quad (2)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (3)$$

Assume the following.

$$\forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow (\neg(\neg(\neg r1_xxreal_0 X1 (k3_finseq_1 X0)) \wedge (r1_xxreal_0 (k3_finseq_1 X0) X1)) \wedge ((\neg(\neg r1_xxreal_0 np_1 X1) \wedge (r1_xxreal_0 X1 k6_numbers)) \wedge (\neg X1 \in k4_finseq_1 X0)))) \quad (4)$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \quad (5)$$

Theorem 1

$$\forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow (\forall X1.((\neg v1_xboole_0 X1) \wedge (v7_ordinal1 X1)) \Rightarrow (((v2_funct_1 X0) \wedge (r1_xxreal_0 X1 (k3_finseq_1 X0))) \Rightarrow (k4_finseq_4 X0 (k1_funct_1 X0 X1) = X1)))$$