

t25_chord
(TMXzc2Cfh6jceMRydHeuFRdRZPzHhZgiVfF)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $v1_glib_000 : \iota \Rightarrow o$ be given. Let $v5_glib_001 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m3_glib_001 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_abian : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v4_glib_001 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow ((r1_xxreal_0 X0 X1) \wedge (r1_xxreal_0 X1 X0)) \Rightarrow (X0 = X1)) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \quad (2)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_relat_1 X0) \wedge ((v4_relat_1 X0 k5_numbers) \wedge ((v1_funct_1 X0) \wedge ((v1_finset_1 X0) \wedge (v1_glib_000 X0)))))) \Rightarrow (\forall X1.(m3_glib_001 X1 X0) \Rightarrow ((v5_glib_001 X1 X0) \Leftrightarrow ((v4_glib_001 X1 X0) \wedge (\forall X2. ((\neg v1_abian X2) \wedge (m1_subset_1 X2 k5_numbers)) \Rightarrow (\forall X3. ((\neg v1_abian X3) \wedge (m1_subset_1 X3 k5_numbers)) \Rightarrow (((r1_xxreal_0 X3 (k3_finseq_1 X1)) \wedge (k1_funct_1 X1 X2 = k1_funct_1 X1 X3)) \Rightarrow ((r1_xxreal_0 X3 X2) \vee ((X2 = np_1) \wedge (X3 = k3_finseq_1 X1)))))))))) \quad (4) \end{aligned}$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Leftrightarrow (X0 \in k4_ordinal1) \quad (5)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (v1_xxreal_0 X0) \quad (6)$$

Theorem 1

$$\begin{aligned} & \forall X0.((v1_relat_1 X0) \wedge ((v4_relat_1 X0 k5_numbers) \wedge ((v1_funct_1 \\ & X0) \wedge ((v1_finset_1 X0) \wedge (v1_glib_000 X0)))))) \Rightarrow (\forall X1.((v5_glib_001 \\ & X1 X0) \wedge (m3_glib_001 X1 X0)) \Rightarrow (\forall X2.((v7_ordinal1 X2) \wedge (\neg \\ & v1_abian X2)) \Rightarrow (\forall X3.((v7_ordinal1 X3) \wedge (\neg v1_abian X3)) \Rightarrow \\ & (\neg(r1_xxreal_0 X2 (k3_finseq_1 X1)) \wedge ((r1_xxreal_0 X3 (k3_finseq_1 \\ & X1)) \wedge ((k1_funct_1 X1 X2 = k1_funct_1 X1 X3) \wedge ((X2 \neq X3) \wedge ((\neg(X2 = np_1) \wedge \\ & (X3 = k3_finseq_1 X1)) \wedge (\neg(X2 = k3_finseq_1 X1) \wedge (X3 = np_1)))))))))) \end{aligned}$$