

t9_real_ns1 (TMNYWVCDf-
pCTyANypGoaCJ9jfX1S8WRWQb7)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k4_real_ns1 : \iota \Rightarrow \iota$ be given. Let $m2_finseq_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k1_euclid : \iota \Rightarrow \iota$ be given. Let $k2_finseq_1 : \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k18_complex1 : \iota \Rightarrow \iota$ be given. Let $k1_seq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_normsp_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12_euclid : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(m2_finseq_2 X1 k1_numbers \\ & (k1_euclid X0)) \Rightarrow (\forall X2.(v7_ordinal1 X2) \Rightarrow ((X2 \in k2_finseq_1 \\ & X0) \Rightarrow (r1_xxreal_0 (k18_complex1 (k1_seq_1 X1 X2)) (k12_euclid \\ & X1)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 \\ & (k4_real_ns1 X0))) \Rightarrow (\forall X2.(m2_finseq_2 X2 k1_numbers (k1_euclid \\ & X0)) \Rightarrow ((X1 = X2) \Rightarrow (k1_normsp_0 (k4_real_ns1 X0) X1 = k12_euclid X2)))))) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 \\ & (k4_real_ns1 X0))) \Rightarrow (\forall X2.(m2_finseq_2 X2 k1_numbers (k1_euclid \\ & X0)) \Rightarrow ((X1 = X2) \Rightarrow (\forall X3.(v7_ordinal1 X3) \Rightarrow ((X3 \in k2_finseq_1 \\ & X0) \Rightarrow (r1_xxreal_0 (k18_complex1 (k1_seq_1 X2 X3)) (k1_normsp_0 \\ & (k4_real_ns1 X0) X1)))))))) \end{aligned}$$