

16_pdiff_7 (TM-
dASW6JX6vr4gMYSWPf9jtwM1JqX3JZRng)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_rfinseq : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $k5_euclid : \iota \Rightarrow \iota$ be given. Let $k7_nat_d : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ X1 k5_numbers) \Rightarrow (k2_rfinseq k1_numbers X1 (k5_euclid X0) = k5_euclid \\ (k7_nat_d X0 X1))) \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned} \forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ X1 k5_numbers) \Rightarrow ((\neg r1_xxreal_0 X0 X1) \Rightarrow (k2_rfinseq k1_numbers \\ X0 (k5_euclid X1) = k5_euclid (k7_nat_d X1 X0)))) \end{aligned}$$