

t47_euclidlp (TMGDt- DqhP9nXqDezJ8MdCFBYDcuQ85fuy71)

October 27, 2020

Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ 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 $k2_euclid_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_euclidlp : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
 \forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow & (k1_euclidlp X0 = ReplSep2 \\
 & (toset (\lambda X1 : \iota.m2_finseq_2 X1 k1_numbers (k1_euclid X0))) \\
 & (\lambda X1 : \iota.toset (\lambda X2 : \iota.m2_finseq_2 X2 k1_numbers (k1_euclid \\
 & X0))) (\lambda X1 : \iota.\lambda X2 : \iota.True) (\lambda X1 : \iota.\lambda X2 : \iota. \\
 & k2_euclid_4 X0 X1 X2)) \tag{1}
 \end{aligned}$$

Theorem 1

$$\begin{aligned}
 \forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow & (\forall X1.(m2_finseq_2 \\
 X1 k1_numbers (k1_euclid X0)) \Rightarrow & (\forall X2.(m2_finseq_2 X2 k1_numbers \\
 (k1_euclid X0)) \Rightarrow & (k2_euclid_4 X0 X1 X2 \in k1_euclidlp X0)))
 \end{aligned}$$