

t63_euclidlp (TMPJzfZC- qsNbnBn7VnUJxfptKpGGzHZcXUD)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k1_euclid : \iota \Rightarrow \iota$ be given. Let $k1_euclidlp : \iota \Rightarrow \iota$ be given. Let $r1_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2_finseq_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1.(m2_subset_1 \\ X1 (k1_zfmisc_1 (k1_euclid X0)) (k1_euclidlp X0)) \Rightarrow (\exists X2. \\ (m2_finseq_2 X2 k1_numbers (k1_euclid X0)) \wedge (X2 \in X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.(\forall X2.\neg(X2 \in X0) \wedge (X2 \in X1)) \Leftrightarrow (r1_xboole_0 X0 X1) \quad (2)$$

Theorem 1

$$\begin{aligned} \forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1.(m2_subset_1 \\ X1 (k1_zfmisc_1 (k1_euclid X0)) (k1_euclidlp X0)) \Rightarrow (\forall X2. \\ (m2_subset_1 X2 (k1_zfmisc_1 (k1_euclid X0)) (k1_euclidlp X0)) \Rightarrow \\ (\neg(r1_xboole_0 X1 X2) \wedge (\forall X3.(m2_finseq_2 X3 k1_numbers \\ (k1_euclid X0)) \Rightarrow (\neg(X3 \in X1) \wedge (\neg X3 \in X2)))))) \end{aligned}$$