

t32_euclidp (TMHnJMbQzzMRZ- fyW8vXYvspqqHFq2mcHQbD)

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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 $r1_euclidp : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k9_euclid : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $k5_euclid : \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v6_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(m2_finseq_2 X1 k1_numbers (k1_euclid X0)) \Rightarrow ((k9_euclid X0 X1 np_1 = X1) \wedge (k9_euclid X0 X1 k6_numbers = k5_euclid X0))) \quad (1)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (2)$$

Assume the following.

$$v6_membered k4_ordinal1 \quad (3)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1.(m2_finseq_2 X1 k1_numbers (k1_euclid X0)) \Rightarrow (\forall X2.(m2_finseq_2 X2 k1_numbers (k1_euclid X0)) \Rightarrow ((r1_euclidp X0 X1 X2) \Leftrightarrow ((X1 \neq k5_euclid X0) \wedge (X2 \neq k5_euclid X0) \wedge (\exists X3.(m1_subset_1 X3 k1_numbers) \wedge (X1 = k9_euclid X0 X2 X3)))))) \quad (4)$$

Assume the following.

$$\forall X0.(v6_membered X0) \Rightarrow (\forall X1.(m1_subset_1 X1 X0) \Rightarrow (v7_ordinal1 X1)) \quad (5)$$

Theorem 1

$$\forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1.(m2_finseq_2 X1 k1_numbers (k1_euclid X0)) \Rightarrow (\forall X2.(m2_finseq_2 X2 k1_numbers (k1_euclid X0)) \Rightarrow (\neg(r1_euclidp X0 X1 X2) \wedge (\forall X3.(m1_subset_1 X3 k1_numbers) \Rightarrow (\neg(X3 \neq k6_numbers) \wedge (X1 = k9_euclid X0 X2 X3))))))$$