

t29\_euclidlp  
(TMGb5RG98pP6eGsV1FNCfbJWnULj7w3TNKR)

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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  $np\_1 : \iota$  be given. Let  $k21\_euclid : \iota \Rightarrow \iota$  be given. Let  $k5\_euclid : \iota \Rightarrow \iota$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k12\_euclid : \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k6\_square\_1 : \iota \Rightarrow \iota$  be given. Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_xcmplx\_0 : \iota \Rightarrow \iota$  be given. Let  $np\_0 : \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_numbers : \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k1\_xboolean : \iota$  be given. Let  $v3\_membered : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (k12\_euclid (k5\_euclid X0) = k6\_numbers) \quad (1)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (k12\_euclid (k21\_euclid X0) = k6\_square\_1 X0) \quad (2)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (r1\_xxreal\_0 k6\_numbers X0) \quad (3)$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0 X0) \Rightarrow (((r1\_xxreal\_0 k6\_numbers X0) \wedge (k6\_square\_1 X0 = k6\_numbers)) \Rightarrow (X0 = k6\_numbers)) \quad (4)$$

Assume the following.

$$k2\_xcmplx\_0 np\_1 (k4\_xcmplx\_0 np\_1) = np\_0 \quad (5)$$

Assume the following.

$$\neg r1\_xxreal\_0 np\_1 np\_0 \quad (6)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (7)$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \quad (8)$$

Assume the following.

$$k2\_xcmplx\_0 \ np\_1 (k4\_xcmplx\_0 \ np\_1) = k6\_numbers \quad (9)$$

Assume the following.

$$m1\_subset\_1 \ k5\_numbers (k1\_zfmisc\_1 \ k1\_numbers) \quad (10)$$

Assume the following.

$$k1\_xboole\_0 = the (\lambda X0 : \iota.v1\_xboole\_0 \ X0) \quad (11)$$

Assume the following.

$$k1\_xboolean = k6\_numbers \quad (12)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 \ X0 \ k4\_ordinal1) \Rightarrow (v7\_ordinal1 \ X0) \quad (13)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 \ X0 (k1\_zfmisc\_1 \ k1\_numbers)) \Rightarrow (v3\_membered \ X0) \quad (14)$$

Assume the following.

$$\forall X0.(v3\_membered \ X0) \Rightarrow (\forall X1.(m1\_subset\_1 \ X1 \ X0) \Rightarrow (v1\_xreal\_0 \ X1)) \quad (15)$$

**Theorem 1**

$$\forall X0.(m1\_subset\_1 \ X0 \ k5\_numbers) \Rightarrow (\neg(r1\_xreal\_0 \ np\_1 \ X0) \wedge (k21\_euclid \ X0 = k5\_euclid \ X0))$$