

t19_revrot_1 (TM-
FXo7eQriiHcWxH4u9Wvpb15ZV8N9B6NWB)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k16_euclid : \iota \Rightarrow \iota$ be given. Let $k22_euclid : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k2_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_finseq_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_0 : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k5_finseq_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k21_euclid : \iota \Rightarrow \iota$ be given. Let $k20_euclid : \iota \Rightarrow \iota$ be given. Let $k4_euclid : \iota \Rightarrow \iota$ be given. Let $v6_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (1)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.\forall X2.(X2 \in k2_finseq_1 X0) \Rightarrow (k1_funct_1 (k2_finseq_2 X0 X1) X2 = X1)) \quad (2)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow ((X0 \in k2_finseq_1 X1) \Leftrightarrow ((r1_xxreal_0 np_1 X0) \wedge (r1_xxreal_0 X0 X1)))) \quad (3)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow ((\neg r1_xxreal_0 np_1 X0) \Rightarrow (X0 = k6_numbers)) \quad (4)$$

Assume the following.

$$((v2_xxreal_0 np_1) \wedge (m2_subset_1 np_1 k1_numbers k5_numbers)) \wedge ((m1_subset_1 np_1 k5_numbers) \wedge (m1_subset_1 np_1 k1_numbers)) \quad (5)$$

Assume the following.

$$(m2_subset_1 np_0 k1_numbers k5_numbers) \wedge ((m1_subset_1 np_0 k5_numbers) \wedge (m1_subset_1 np_0 k1_numbers)) \quad (6)$$

Assume the following.

$$v1_xboole_0 \text{ } np_0 \quad (7)$$

Assume the following.

$$r1_xxreal_0 \text{ } np_1 \text{ } np_1 \quad (8)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (9)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (10)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. ((\neg v1_xboole_0 \text{ } X0) \wedge ((v7_ordinal1 \\ X1) \wedge (m1_subset_1 \text{ } X2 \text{ } X0))) \Rightarrow (k5_finseq_2 \text{ } X0 \text{ } X1 \text{ } X2 = k2_finseq_2 \text{ } X1 \\ X2) \end{aligned} \quad (11)$$

Assume the following.

$$\forall X0. (v7_ordinal1 \text{ } X0) \Rightarrow (k21_euclid \text{ } X0 = k20_euclid \text{ } X0) \quad (12)$$

Assume the following.

$$\forall X0. (v7_ordinal1 \text{ } X0) \Rightarrow (k16_euclid \text{ } X0 = k4_euclid \text{ } X0) \quad (13)$$

Assume the following.

$$v6_membered \text{ } k4_ordinal1 \quad (14)$$

Assume the following.

$$\neg v1_xboole_0 \text{ } k1_numbers \quad (15)$$

Assume the following.

$$\forall X0. (v7_ordinal1 \text{ } X0) \Rightarrow (k4_euclid \text{ } X0 = k5_finseq_2 \text{ } k1_numbers \\ X0 \text{ } k6_numbers) \quad (16)$$

Assume the following.

$$\forall X0. (v7_ordinal1 \text{ } X0) \Rightarrow (k22_euclid \text{ } X0 = k21_euclid \text{ } X0) \quad (17)$$

Assume the following.

$$\forall X0. (v7_ordinal1 \text{ } X0) \Rightarrow (k20_euclid \text{ } X0 = k5_finseq_2 \text{ } k1_numbers \\ X0 \text{ } np_1) \quad (18)$$

Assume the following.

$$\forall X0. (v6_membered \text{ } X0) \Rightarrow (\forall X1. (m1_subset_1 \text{ } X1 \text{ } X0) \Rightarrow \\ (v7_ordinal1 \text{ } X1)) \quad (19)$$

Theorem 1

$$\forall X0. ((\neg v1_xboole_0 \text{ } X0) \wedge (v7_ordinal1 \text{ } X0)) \Rightarrow (k16_euclid \\ X0 \neq k22_euclid \text{ } X0)$$