

t4_extreal2 (TMdJmC-
nDa8mg8u5F6U7XPg1K2KDveM83BEH)

October 27, 2020

Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7_numbers : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_extreal1 : \iota \Rightarrow \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $k1_xxreal_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xxreal_3 : \iota \Rightarrow \iota$ be given. Let $k2_supinf_2 : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k1_supinf_2 : \iota$ be given. Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (k1_xxreal_3 X0 (k2_xxreal_3 X0) = k6_numbers) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (k1_xxreal_3 X0 k6_numbers = X0) \quad (2)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k7_numbers) \Rightarrow ((\neg r1_xxreal_0 k6_numbers X0) \Rightarrow (k3_extreal1 X0 = k2_supinf_2 X0)) \quad (3)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k7_numbers) \Rightarrow (r1_xxreal_0 k6_numbers (k3_extreal1 X0)) \quad (4)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k7_numbers) \Rightarrow ((r1_xxreal_0 k6_numbers X0) \Rightarrow (k3_extreal1 X0 = X0)) \quad (5)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow ((r1_xxreal_0 X0 X1) \wedge (r1_xxreal_0 X1 X0)) \Rightarrow (X0 = X1)) \quad (6)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (7)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k7_numbers) \Rightarrow (k2_supinf_2 X0 = k2_xxreal_3 X0) \quad (8)$$

Assume the following.

$$k1_supinf_2 = k1_xboole_0 \quad (9)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k7_numbers) \Rightarrow (m1_subset_1 (k3_extreal1 X0) k7_numbers) \quad (10)$$

Assume the following.

$$m1_subset_1 k1_supinf_2 k7_numbers \quad (11)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k7_numbers) \Rightarrow (v1_xxreal_0 X0) \quad (12)$$

Theorem 1

$$\forall X0.(m1_subset_1 X0 k7_numbers) \Rightarrow (\neg(X0 \neq k6_numbers) \wedge (r1_xxreal_0 (k3_extreal1 X0) k6_numbers))$$