

t5_supinf_2
(TMVGXfCNR2SkwUYVZHgL2gP1YUZ3Pun6Zbj)

October 27, 2020

Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k7_numbers : \iota$ be given. Let $k2_supinf_2 : \iota \Rightarrow \iota$ be given. Let $k6_supinf_2 : \iota \Rightarrow \iota$ be given. Let $v2_membered : \iota \Rightarrow o$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $k2_xxreal_3 : \iota \Rightarrow \iota$ be given. Let $k4_member_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v2_membered X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow ((X1 \in X0) \Leftrightarrow (k2_xxreal_3 X1 \in k4_member_1 X0))) \quad (1)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 (k1_zfmisc_1 k7_numbers)) \Rightarrow (k6_supinf_2 X0 = k4_member_1 X0) \quad (2)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k7_numbers) \Rightarrow (k2_supinf_2 X0 = k2_xxreal_3 X0) \quad (3)$$

Assume the following.

$$v2_membered k7_numbers \quad (4)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 (k1_zfmisc_1 k7_numbers)) \Rightarrow (v2_membered X0) \quad (5)$$

Assume the following.

$$\forall X0.(v2_membered X0) \Rightarrow (\forall X1.(m1_subset_1 X1 X0) \Rightarrow (v1_xxreal_0 X1)) \quad (6)$$

Theorem 1

$$\forall X0.((\neg v1_xboole_0 X0) \wedge (m1_subset_1 X0 (k1_zfmisc_1 k7_numbers))) \Rightarrow (\forall X1.(m1_subset_1 X1 k7_numbers) \Rightarrow ((X1 \in X0) \Leftrightarrow (k2_supinf_2 X1 \in k6_supinf_2 X0)))$$