

t29_extreal2
(TMSLkBqm9sBdUC8VDnZi9FFLnfVe2y9JohP)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7_numbers : \iota$ be given. Let $k3_extreal1 : \iota \Rightarrow \iota$ be given. Let $k1_supinf_1 : \iota$ be given. Let $k2_supinf_1 : \iota$ be given. Let $k2_supinf_2 : \iota \Rightarrow \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $k1_xxreal_0 : \iota$ be given. Let $k2_xxreal_3 : \iota \Rightarrow \iota$ be given. Let $k2_xxreal_0 : \iota$ be given. Assume the following.

$$\forall X0.(m1_subset_1 X0 k7_numbers) \Rightarrow ((k3_extreal1 X0 = X0) \vee (k3_extreal1 X0 = k2_supinf_2 X0)) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_xxreal_0 X0) \Rightarrow (((X0 = k1_xxreal_0) \Rightarrow (k2_xxreal_3 \\ X0 = k2_xxreal_0)) \wedge (((k2_xxreal_3 X0 = k2_xxreal_0) \Rightarrow (X0 = k1_xxreal_0)) \wedge \\ (((X0 = k2_xxreal_0) \Rightarrow (k2_xxreal_3 X0 = k1_xxreal_0)) \wedge ((k2_xxreal_3 \\ X0 = k1_xxreal_0) \Rightarrow (X0 = k2_xxreal_0)))))) \end{aligned} \quad (2)$$

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.

$$k2_supinf_1 = k2_xxreal_0 \quad (4)$$

Assume the following.

$$k1_supinf_1 = k1_xxreal_0 \quad (5)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k7_numbers) \Rightarrow (v1_xxreal_0 X0) \quad (6)$$

Theorem 1

$$\forall X0.(m1_subset_1 X0 k7_numbers) \Rightarrow (\neg(k3_extreal1 X0 = k1_supinf_1) \wedge ((X0 \neq k1_supinf_1) \wedge (X0 \neq k2_supinf_1)))$$