

t12_mesfunc1
(TMGqeEgkR3wqR7uVY2cMKcErmsUcsLD3Ynd)

October 27, 2020

Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7_numbers : \iota$ be given. Let $k1_numbers : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_measure6 : \iota \Rightarrow \iota$ be given. Let $k1_supinf_1 : \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $k1_xxreal_0 : \iota$ be given. Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow ((r1_xxreal_0 k1_xxreal_0 X0) \Rightarrow (X0 = k1_xxreal_0)) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(m1_subset_1 X0 k7_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ X1 k7_numbers) \Rightarrow (\neg(\neg r1_xxreal_0 X1 X0) \wedge (\forall X2.(m1_subset_1 \\ X2 k7_numbers) \Rightarrow (\neg(\neg r1_xxreal_0 X2 X0) \wedge ((\neg r1_xxreal_0 X1 X2) \wedge \\ (X2 \in k1_numbers))))))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \quad (3)$$

Assume the following.

$$k1_supinf_1 = k1_xxreal_0 \quad (4)$$

Assume the following.

$$m1_subset_1 k1_supinf_1 k7_numbers \quad (5)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (k1_measure6 X0 = X0) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xxreal_0 X0) \wedge (v1_xxreal_0 X1)) \Rightarrow (r1_xxreal_0 X0 X1) \vee (r1_xxreal_0 X1 X0) \quad (7)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k7_numbers) \Rightarrow (v1_xxreal_0 X0) \quad (8)$$

Theorem 1

$$\forall X0.(m1_subset_1 X0 k7_numbers) \Rightarrow ((\forall X1.(m1_subset_1 X1 k1_numbers) \Rightarrow (\neg r1_xreal_0 X0 (k1_measure6 X1))) \Rightarrow (X0 = k1_supinf_1))$$