

t14_mesfunc5 (TMbrTFbHboXRhsfTK- FLWw3ehsVAxJWaTu8j)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_prob_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4_prob_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_numbers : \iota$ be given. Let $r1_mesfunc2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4_mesfunc5 : \iota \Rightarrow o$ be given. Let $v3_mesfunc5 : \iota \Rightarrow o$ be given. Let $k2_supinf_1 : \iota$ be given. Let $k2_xxreal_0 : \iota$ be given. Let $k1_supinf_1 : \iota$ be given. Let $k1_xxreal_0 : \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v3_valued_0 : \iota \Rightarrow o$ be given. Let $v3_membered : \iota \Rightarrow o$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $v1_prob_2 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Let $k2_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k4_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12_supinf_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \quad (1)$$

Assume the following.

$$k2_supinf_1 = k2_xxreal_0 \quad (2)$$

Assume the following.

$$k1_supinf_1 = k1_xxreal_0 \quad (3)$$

Assume the following.

$$\forall X0. ((v1_relat_1 X0) \wedge (v3_valued_0 X0)) \Rightarrow (v3_membered (k10_xtuple_0 X0)) \quad (4)$$

Assume the following.

$$\neg v1_xreal_0 k1_xxreal_0 \quad (5)$$

Assume the following.

$$\neg v1_xreal_0 k2_xxreal_0 \quad (6)$$

Assume the following.

$$\forall X0.(v1_relat_1 X0) \Rightarrow ((v4_mesfunc5 X0) \Leftrightarrow (\neg k1_supinf_1 \in k10_xtuple_0 X0)) \quad (7)$$

Assume the following.

$$\begin{aligned} & \forall X0.(\neg v1_xboole_0 X0) \Rightarrow (\forall X1.((\neg v1_xboole_0 X1) \wedge \\ & ((v1_prob_1 X1 X0) \wedge ((v4_prob_1 X1 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\ & (k1_zfmisc_1 X0)))))) \Rightarrow (\forall X2.((v1_funct_1 X2) \wedge (m1_subset_1 \\ & X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 k7_numbers)))) \Rightarrow ((r1_mesfunc2 \\ & X0 X1 X2) \Leftrightarrow ((v3_valued_0 X2) \wedge (\exists X3.((v1_prob_2 X3) \wedge (m2_finseq_1 \\ & X3 X1)) \wedge ((k1_relset_1 X0 X2 = k3_tarski (k2_relset_1 X1 X3)) \wedge (\forall X4. \\ & (v7_ordinal1 X4) \Rightarrow (\forall X5.(m1_subset_1 X5 X0) \Rightarrow (\forall X6. \\ & (m1_subset_1 X6 X0) \Rightarrow (((X4 \in k4_finseq_1 X3) \wedge ((X5 \in k1_funct_1 X3 \\ & X4) \wedge (X6 \in k1_funct_1 X3 X4))) \Rightarrow (k12_supinf_2 X2 X5 = k12_supinf_2 \\ & X2 X6)))))))))) \end{aligned} \quad (8)$$

Assume the following.

$$\forall X0.(v1_relat_1 X0) \Rightarrow ((v3_mesfunc5 X0) \Leftrightarrow (\neg k2_supinf_1 \in k10_xtuple_0 X0)) \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1))) \Rightarrow (v1_relat_1 X2) \quad (10)$$

Assume the following.

$$\forall X0.(v3_membered X0) \Rightarrow (\forall X1.(m1_subset_1 X1 X0) \Rightarrow (v1_xreal_0 X1)) \quad (11)$$

Theorem 1

$$\begin{aligned} & \forall X0.(\neg v1_xboole_0 X0) \Rightarrow (\forall X1.((\neg v1_xboole_0 X1) \wedge \\ & ((v1_prob_1 X1 X0) \wedge ((v4_prob_1 X1 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\ & (k1_zfmisc_1 X0)))))) \Rightarrow (\forall X2.((v1_funct_1 X2) \wedge (m1_subset_1 \\ & X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 k7_numbers)))) \Rightarrow ((r1_mesfunc2 \\ & X0 X1 X2) \Rightarrow ((v4_mesfunc5 X2) \wedge (v3_mesfunc5 X2)))) \end{aligned}$$