

t7_measure5

(TMT4zX3sJEXFT794ry4gbxZhRVVkBuYr4UK)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7_numbers : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_measure5 : \iota \Rightarrow \iota$ be given. Let $k2_xxreal_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_supinf_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_supinf_2 : \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $k1_xxreal_2 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k2_xxreal_2 : \iota \Rightarrow \iota$ be given. Let $v2_membered : \iota \Rightarrow o$ be given. Let $k8_supinf_2 : \iota \Rightarrow \iota$ be given. Let $k7_supinf_2 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow ((\neg r1_xxreal_0 X1 X0) \Rightarrow (k1_xxreal_2 (k2_xxreal_1 X0 X1) = X1))) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow (\neg (\neg r1_xxreal_0 X1 X0) \wedge (v1_xboole_0 (k2_xxreal_1 X0 X1)))) \quad (2)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow ((r1_xxreal_0 X0 X1) \Rightarrow (k2_xxreal_1 X1 X0 = k1_xboole_0))) \quad (3)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow ((\neg r1_xxreal_0 X1 X0) \Rightarrow (k2_xxreal_2 (k2_xxreal_1 X0 X1) = X0))) \quad (4)$$

Assume the following.

$$\forall X0.(v2_membered X0) \Rightarrow (k8_supinf_2 X0 = k1_xxreal_2 X0) \quad (5)$$

Assume the following.

$$\forall X0.(v2_membered X0) \Rightarrow (k7_supinf_2 X0 = k2_xxreal_2 X0) \quad (6)$$

Assume the following.

$$k1_supinf_2 = k1_xboole_0 \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xreal_0 X0)\wedge(v1_xreal_0 X1))\Rightarrow(v2_membered (k2_xreal_1 X0 X1)) \quad (8)$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \quad (9)$$

Assume the following.

$$\forall X0.(v2_membered X0)\Rightarrow(((X0\neq k1_xboole_0)\Rightarrow(k2_measure5 X0 = k4_supinf_2 (k8_supinf_2 X0) (k7_supinf_2 X0)))\wedge((X0 = k1_xboole_0)\Rightarrow(k2_measure5 X0 = k1_supinf_2))) \quad (10)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k7_numbers)\Rightarrow(v1_xreal_0 X0) \quad (11)$$

Theorem 1

$$\forall X0.(m1_subset_1 X0 k7_numbers)\Rightarrow(\forall X1.(m1_subset_1 X1 k7_numbers)\Rightarrow(((\neg r1_xreal_0 X1 X0)\Rightarrow(k2_measure5 (k2_xreal_1 X0 X1) = k4_supinf_2 X1 X0))\wedge((r1_xreal_0 X1 X0)\Rightarrow(k2_measure5 (k2_xreal_1 X0 X1) = k1_supinf_2))))$$