

l50_measure6 (TMHLhCoozvXjyWvVD- njRkB9m4FNmqXnsmDr)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $v3_xxreal_2 : \iota \Rightarrow o$ be given. Let $v4_xxreal_2 : \iota \Rightarrow o$ be given. Let $k4_measure6 : \iota \Rightarrow \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $k5_member_1 : \iota \Rightarrow \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k1_binop_2 : \iota \Rightarrow \iota$ be given. Let $v3_membered : \iota \Rightarrow o$ be given. Let $v1_membered : \iota \Rightarrow o$ be given. Let $v2_membered : \iota \Rightarrow o$ be given. Let $m2_xxreal_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $k2_numbers : \iota$ be given. Let $m1_xxreal_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. ((X0 \in X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X2))) \Rightarrow (m1_subset_1 X0 X2) \quad (1)$$

Assume the following.

$$\forall X0. (v1_xreal_0 X0) \Rightarrow (\forall X1. (v1_xreal_0 X1) \Rightarrow ((r1_xxreal_0 X0 X1) \Leftrightarrow (r1_xxreal_0 (k4_xcmplx_0 X1) (k4_xcmplx_0 X0)))) \quad (2)$$

Assume the following.

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

Assume the following.

$$\forall X0. (m1_subset_1 X0 (k1_zfmisc_1 k1_numbers)) \Rightarrow (k4_measure6 X0 = k5_member_1 X0) \quad (4)$$

Assume the following.

$$\forall X0. (v1_xcmplx_0 X0) \Rightarrow (k1_binop_2 X0 = k4_xcmplx_0 X0) \quad (5)$$

Assume the following.

$$\forall X0. (m1_subset_1 X0 (k1_zfmisc_1 k1_numbers)) \Rightarrow (k4_measure6 (k4_measure6 X0) = X0) \quad (6)$$

Assume the following.

$$\forall X0.(v3_membered\ X0)\Rightarrow((v1_membered\ (k5_member_1\ X0))\wedge (v3_membered\ (k5_member_1\ X0))) \quad (7)$$

Assume the following.

$$\forall X0.(v1_xreal_0\ X0)\Rightarrow((v1_xcmplx_0\ (k4_xcmplx_0\ X0))\wedge (v1_xreal_0\ (k4_xcmplx_0\ X0))) \quad (8)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ (k1_zfmisc_1\ k1_numbers))\Rightarrow(m1_subset_1\ (k4_measure6\ X0)\ (k1_zfmisc_1\ k1_numbers)) \quad (9)$$

Assume the following.

$$\forall X0.(v2_membered\ X0)\Rightarrow((v3_xxreal_2\ X0)\Leftrightarrow(\exists X1.(v1_xreal_0\ X1)\wedge(m2_xxreal_2\ X1\ X0))) \quad (10)$$

Assume the following.

$$\forall X0.(v2_membered\ X0)\Rightarrow(\forall X1.(v1_xxreal_0\ X1)\Rightarrow((m2_xxreal_2\ X1\ X0)\Leftrightarrow(\forall X2.(v1_xxreal_0\ X2)\Rightarrow((X2\in X0)\Rightarrow(r1_xxreal_0\ X1\ X2)))))) \quad (11)$$

Assume the following.

$$\forall X0.(v1_membered\ X0)\Rightarrow(k5_member_1\ X0 = ReplSep\ (toset\ (\lambda X1 : \iota.m1_subset_1\ X1\ k2_numbers))\ (\lambda X1 : \iota.X1\in X0)\ (\lambda X1 : \iota.k1_binop_2\ X1)) \quad (12)$$

Assume the following.

$$\forall X0.(v2_membered\ X0)\Rightarrow(\forall X1.(v1_xxreal_0\ X1)\Rightarrow((m1_xxreal_2\ X1\ X0)\Leftrightarrow(\forall X2.(v1_xxreal_0\ X2)\Rightarrow((X2\in X0)\Rightarrow(r1_xxreal_0\ X2\ X1)))))) \quad (13)$$

Assume the following.

$$\forall X0.(v2_membered\ X0)\Rightarrow((v4_xxreal_2\ X0)\Leftrightarrow(\exists X1.(v1_xreal_0\ X1)\wedge(m1_xxreal_2\ X1\ X0))) \quad (14)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ (k1_zfmisc_1\ k1_numbers))\Rightarrow(v3_membered\ X0) \quad (15)$$

Assume the following.

$$\forall X0.(v3_membered\ X0)\Rightarrow(v1_membered\ X0) \quad (16)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (v1_xxreal_0 X0) \quad (17)$$

Assume the following.

$$\forall X0.(v3_membered X0) \Rightarrow (v2_membered X0) \quad (18)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (v1_xreal_0 X0) \quad (19)$$

Assume the following.

$$\forall X0.(v2_membered X0) \Rightarrow (\forall X1.(m1_subset_1 X1 X0) \Rightarrow (v1_xxreal_0 X1)) \quad (20)$$

Assume the following.

$$\forall X0.(v1_membered X0) \Rightarrow (\forall X1.(m1_subset_1 X1 X0) \Rightarrow (v1_xcmplx_0 X1)) \quad (21)$$

Theorem 1

$$\forall X0.(m1_subset_1 X0 (k1_zfmisc_1 k1_numbers)) \Rightarrow ((v3_xxreal_2 X0) \Rightarrow (v4_xxreal_2 (k4_measure6 X0)))$$