

l3_int_4

(TMcjUZ9oSWrgsvTe4scXLJdffVx2cEYraCY)

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Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k4_numbers : \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_measure6 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v5_membered : \iota \Rightarrow o$ be given. Let $v3_membered : \iota \Rightarrow o$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $k17_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v4_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v5_membered X0) \Rightarrow (r1_tarski X0 k4_numbers) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.((v3_membered X0) \wedge (v1_xreal_0 X1)) \Rightarrow (k2_measure6 X0 X1 = k17_member_1 X0 X1) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.((v5_membered X0) \wedge (v1_int_1 X1)) \Rightarrow (v5_membered (k17_member_1 X0 X1)) \quad (4)$$

Assume the following.

$$v5_membered k4_numbers \quad (5)$$

Assume the following.

$$\forall X0.(v4_membered X0) \Rightarrow (v3_membered X0) \quad (6)$$

Assume the following.

$$\forall X0.(v1_int_1 X0) \Rightarrow (v1_xreal_0 X0) \quad (7)$$

Assume the following.

$$\forall X0.(v5_membered\ X0)\Rightarrow(v4_membered\ X0) \quad (8)$$

Assume the following.

$$\forall X0.(v3_membered\ X0)\Rightarrow(\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1\ X0))\Rightarrow(v3_membered\ X1)) \quad (9)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ (k1_zfmisc_1\ k4_numbers))\Rightarrow(v5_membered\ X0) \quad (10)$$

Theorem 1

$$\forall X0.(v1_int_1\ X0)\Rightarrow(\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1\ k4_numbers))\Rightarrow(r1_tarski\ (k2_measure6\ X1\ X0\ k4_numbers)))$$