

t51_integral

(TMcU39DSNvbmUetLZZkM6HshQtiM4FuffnH)

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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 $v4_xxreal_2 : \iota \Rightarrow o$ be given. Let $k9_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_measure6 : \iota \Rightarrow \iota$ be given. Let $k5_member_1 : \iota \Rightarrow \iota$ be given. Let $v3_xxreal_2 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 (k1_zfmisc_1 k1_numbers)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (k1_zfmisc_1 k1_numbers)) \Rightarrow (k9_member_1 (k4_measure6 \\ & X0) (k4_measure6 X1) = k5_member_1 (k9_member_1 X0 X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 (k1_zfmisc_1 k1_numbers)) \Rightarrow ((v4_xxreal_2 \\ & X0) \Leftrightarrow (v3_xxreal_2 (k4_measure6 X0))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1.(m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski \\ & X0 X1) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0.(v3_membered X0) \Rightarrow (r1_tarski X0 k1_numbers) \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 (k1_zfmisc_1 k1_numbers)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (k1_zfmisc_1 k1_numbers)) \Rightarrow (((v3_xxreal_2 X0) \wedge \\ & (v3_xxreal_2 X1)) \Rightarrow (v3_xxreal_2 (k9_member_1 X0 X1)))) \end{aligned} \quad (5)$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 (k1_zfmisc_1 k1_numbers)) \Rightarrow (k4_measure6 \\ & X0 = k5_member_1 X0) \end{aligned} \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.((v3_membered\ X0)\wedge(v3_membered\ X1))\Rightarrow(v3_membered\ (k9_member_1\ X0\ X1)) \quad (7)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ (k1_zfmisc_1\ k1_numbers))\Rightarrow(m1_subset_1\ (k4_measure6\ X0)\ (k1_zfmisc_1\ k1_numbers)) \quad (8)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ (k1_zfmisc_1\ k1_numbers))\Rightarrow(v3_membered\ X0) \quad (9)$$

Theorem 1

$$\forall X0.(m1_subset_1\ X0\ (k1_zfmisc_1\ k1_numbers))\Rightarrow(\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1\ k1_numbers))\Rightarrow(((v4_xxreal_2\ X0)\wedge(v4_xxreal_2\ X1))\Rightarrow(v4_xxreal_2\ (k9_member_1\ X0\ X1))))$$