

t1_measure6

(TMFqquisPVt8rabvQDkLc66k6Jj4RWmMDrw)

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Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v2_funct_1 : \iota \Rightarrow o$ be given. Let $k1_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k11_funcop_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r2_wellord2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8_mcart_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$(r2_wellord2 (k8_mcart_1 k1_numbers k1_numbers k5_numbers k5_numbers) k5_numbers) \wedge (k1_card_1 k5_numbers = k1_card_1 (k8_mcart_1 k1_numbers k1_numbers k5_numbers k5_numbers)) \tag{1}$$

Assume the following.

$$\forall X0. ((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow ((v1_funct_1 X0) \wedge ((v1_funct_2 X0 (k9_xtuple_0 X0) (k10_xtuple_0 X0)) \wedge (m1_subset_1 X0 (k1_zfmisc_1 (k2_zfmisc_1 (k9_xtuple_0 X0) (k10_xtuple_0 X0)))))) \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. (r2_wellord2 X0 X1) \Rightarrow (r2_wellord2 X1 X0) \tag{3}$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. ((m1_subset_1 X2 (k1_zfmisc_1 X0)) \wedge (m1_subset_1 X3 (k1_zfmisc_1 X1))) \Rightarrow (k8_mcart_1 X0 X1 X2 X3 = k2_zfmisc_1 X2 X3) \tag{4}$$

Assume the following.

$$k5_numbers = k4_ordinal1 \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.((v1_relat_1 X1)\wedge(v4_relat_1 X1 X0))\Rightarrow(k1_relset_1 X0 X1 = k9_xtuple_0 X1) \quad (6)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.((\neg v1_xboole_0 X0)\wedge \\ & ((\neg v1_xboole_0 X1)\wedge((\neg v1_xboole_0 X2)\wedge((v1_funct_1 X3)\wedge((v1_funct_2 \\ & X3 X0 (k2_zfmisc_1 X1 X2))\wedge(m1_subset_1 X3 (k1_zfmisc_1 (k2_zfmisc_1 \\ & X0 (k2_zfmisc_1 X1 X2))))))))))\Rightarrow(k11_funcop_1 X0 X1 X2 X3 = k10_xtuple_0 \\ & X3) \end{aligned} \quad (7)$$

Assume the following.

$$(\neg v1_xboole_0 k4_ordinal1)\wedge(v3_ordinal1 k4_ordinal1) \quad (8)$$

Assume the following.

$$m1_subset_1 k5_numbers (k1_zfmisc_1 k1_numbers) \quad (9)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.(r2_wellord2 X0 X1)\Leftrightarrow(\exists X2.((v1_relat_1 \\ & X2)\wedge(v1_funct_1 X2))\wedge((v2_funct_1 X2)\wedge((k9_xtuple_0 X2 = X0)\wedge \\ & (k10_xtuple_0 X2 = X1)))) \end{aligned} \quad (10)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 \\ & (k2_zfmisc_1 X0 X1)))\Rightarrow((v4_relat_1 X2 X0)\wedge(v5_relat_1 X2 X1)) \end{aligned} \quad (11)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 \\ & (k2_zfmisc_1 X0 X1)))\Rightarrow(v1_relat_1 X2) \end{aligned} \quad (12)$$

Theorem 1

$$\begin{aligned} & \exists X0.((v1_funct_1 X0)\wedge((v1_funct_2 X0 k5_numbers (k2_zfmisc_1 \\ & k5_numbers k5_numbers))\wedge(m1_subset_1 X0 (k1_zfmisc_1 (k2_zfmisc_1 \\ & k5_numbers (k2_zfmisc_1 k5_numbers k5_numbers))))))\wedge((v2_funct_1 \\ & X0)\wedge((k1_relset_1 k5_numbers X0 = k5_numbers)\wedge(k11_funcop_1 \\ & k5_numbers k5_numbers k5_numbers X0 = k2_zfmisc_1 k5_numbers k5_numbers))) \end{aligned}$$