

t2_measure8
(TMceW4U3BhmNjQSN2Kk7Ufm4tedvutK9igj)

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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 $k7_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v6_supinf_2 : \iota \Rightarrow o$ be given. Let $v1_mesfunc9 : \iota \Rightarrow o$ be given. Let $k19_supinf_2 : \iota \Rightarrow \iota$ be given. Let $k3_mesfunc9 : \iota \Rightarrow \iota$ be given. Let $v7_valued_0 : \iota \Rightarrow o$ be given. Let $v10_mesfunc5 : \iota \Rightarrow o$ be given. Let $k2_mesfunc5 : \iota \Rightarrow \iota$ be given. Let $k1_rinf sup2 : \iota \Rightarrow \iota$ be given. Let $r2_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k18_supinf_2 : \iota \Rightarrow \iota$ be given. Let $k2_mesfunc9 : \iota \Rightarrow \iota$ be given. Let $v2_membered : \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v2_valued_0 : \iota \Rightarrow o$ be given. Let $k8_supinf_2 : \iota \Rightarrow \iota$ be given. Let $k17_supinf_2 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. ((v1_funct_1 X0) \wedge ((v1_funct_2 X0 k5_numbers k7_numbers) \wedge \\ & (m1_subset_1 X0 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers k7_numbers)))))) \Rightarrow \\ & ((v7_valued_0 X0) \Rightarrow ((v10_mesfunc5 X0) \wedge (k2_mesfunc5 X0 = k1_rinf sup2 \\ & X0))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v1_funct_1 X0) \wedge ((v1_funct_2 X0 k5_numbers k7_numbers) \wedge \\ & (m1_subset_1 X0 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers k7_numbers)))))) \Rightarrow \\ & (r2_funct_2 k5_numbers k7_numbers (k18_supinf_2 X0) (k2_mesfunc9 \\ & X0)) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v1_funct_1 X0) \wedge ((v1_funct_2 X0 k5_numbers k7_numbers) \wedge \\ & (m1_subset_1 X0 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers k7_numbers)))))) \Rightarrow \\ & ((v6_supinf_2 X0) \Rightarrow ((v6_supinf_2 (k2_mesfunc9 X0) \wedge (v7_valued_0 \\ & (k2_mesfunc9 X0)))))) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.(((v1_funct_1 X2)\wedge \\ & ((v1_funct_2 X2 X0 X1)\wedge(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 \\ & X0 X1)))))\wedge((v1_funct_1 X3)\wedge((v1_funct_2 X3 X0 X1)\wedge(m1_subset_1 \\ & X3 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1))))))\Rightarrow((r2_funct_2 X0 X1 X2 \\ & X3)\Leftrightarrow(X2 = X3)) \end{aligned} \tag{4}$$

Assume the following.

$$v2_membered\ k7_numbers \tag{5}$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_relat_1 X0)\wedge((v1_funct_1 X0)\wedge(v2_valued_0 X0)))\Rightarrow \\ & ((v1_funct_1 (k2_mesfunc9 X0))\wedge((v1_funct_2 (k2_mesfunc9 X0) \\ & k5_numbers\ k7_numbers)\wedge(m1_subset_1 (k2_mesfunc9 X0) (k1_zfmisc_1 \\ & (k2_zfmisc_1\ k5_numbers\ k7_numbers)))))) \end{aligned} \tag{6}$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_funct_1 X0)\wedge((v1_funct_2 X0\ k5_numbers\ k7_numbers)\wedge \\ & (m1_subset_1 X0 (k1_zfmisc_1 (k2_zfmisc_1\ k5_numbers\ k7_numbers))))))\Rightarrow \\ & ((v1_funct_1 (k18_supinf_2 X0))\wedge((v1_funct_2 (k18_supinf_2 \\ & X0)\ k5_numbers\ k7_numbers)\wedge(m1_subset_1 (k18_supinf_2 X0) (k1_zfmisc_1 \\ & (k2_zfmisc_1\ k5_numbers\ k7_numbers)))))) \end{aligned} \tag{7}$$

Assume the following.

$$\forall X0.((v1_relat_1 X0)\wedge((v1_funct_1 X0)\wedge(v2_valued_0 X0)))\Rightarrow (k3_mesfunc9\ X0 = k2_mesfunc5\ (k2_mesfunc9\ X0)) \tag{8}$$

Assume the following.

$$\forall X0.((v1_relat_1 X0)\wedge((v1_funct_1 X0)\wedge(v2_valued_0 X0)))\Rightarrow ((v1_mesfunc9\ X0)\Leftrightarrow(v10_mesfunc5\ (k2_mesfunc9\ X0))) \tag{9}$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_funct_1 X0)\wedge((v1_funct_2 X0\ k5_numbers\ k7_numbers)\wedge \\ & (m1_subset_1 X0 (k1_zfmisc_1 (k2_zfmisc_1\ k5_numbers\ k7_numbers))))))\Rightarrow \\ & (k1_rinfsup2\ X0 = k8_supinf_2\ (k17_supinf_2\ X0)) \end{aligned} \tag{10}$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_funct_1 X0)\wedge((v1_funct_2 X0\ k5_numbers\ k7_numbers)\wedge \\ & (m1_subset_1 X0 (k1_zfmisc_1 (k2_zfmisc_1\ k5_numbers\ k7_numbers))))))\Rightarrow \\ & (k19_supinf_2\ X0 = k8_supinf_2\ (k17_supinf_2\ (k18_supinf_2\ X0))) \end{aligned} \tag{11}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))\Rightarrow(v1_relat_1 X2) \quad (12)$$

Assume the following.

$$\forall X0.\forall X1.(v2_membered X1)\Rightarrow(\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))\Rightarrow(v2_valued_0 X2)) \quad (13)$$

Theorem 1

$$\forall X0.((v1_funct_1 X0)\wedge((v1_funct_2 X0 k5_numbers k7_numbers)\wedge(m1_subset_1 X0 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers k7_numbers)))))\Rightarrow((v6_supinf_2 X0)\Rightarrow((v1_mesfunc9 X0)\wedge(k19_supinf_2 X0 = k3_mesfunc9 X0)))$$