

t12_measure7 (TMKdwuasgmCK- tKQR4hnupv4V6wDquL3gTY7)

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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 $m1_measure7 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v6_supinf_2 : \iota \Rightarrow o$ be given. Let $k3_measure7 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_numbers : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_supinf_2 : \iota$ be given. Let $k12_supinf_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v6_xxreal_2 : \iota \Rightarrow o$ be given. Let $k2_measure5 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_measure7 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v1_funct_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\ & (k2_zfmisc_1 X0 k7_numbers)))) \Rightarrow ((v6_supinf_2 X1) \Leftrightarrow (\forall X2. \\ & (m1_subset_1 X2 X0) \Rightarrow (r1_xxreal_0 k1_supinf_2 (k12_supinf_2 X1 \\ & X2)))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. ((v6_xxreal_2 X0) \wedge (m1_subset_1 X0 (k1_zfmisc_1 k1_numbers))) \Rightarrow (r1_xxreal_0 k1_supinf_2 (k2_measure5 X0)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge ((\neg v1_xboole_0 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X0)))) \Rightarrow (\forall X2. (m2_subset_1 X2 X0 X1) \Leftrightarrow (m1_subset_1 X2 X1)) \quad (3)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (4)$$

Assume the following.

$$(\neg v1_xboole_0 k4_ordinal1) \wedge (v3_ordinal1 k4_ordinal1) \quad (5)$$

Assume the following.

$$m1_subset_1 \ k5_numbers \ (k1_zfmisc_1 \ k1_numbers) \quad (6)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((m1_subset_1 \ X0 \ (k1_zfmisc_1 \ k1_numbers)) \wedge \\ & (m1_measure7 \ X1 \ X0)) \Rightarrow ((v1_funct_1 \ (k3_measure7 \ X0 \ X1)) \wedge ((v1_funct_2 \\ & (k3_measure7 \ X0 \ X1) \ k5_numbers \ k7_numbers) \wedge (m1_subset_1 \ (k3_measure7 \\ & X0 \ X1) \ (k1_zfmisc_1 \ (k2_zfmisc_1 \ k5_numbers \ k7_numbers)))))) \end{aligned} \quad (7)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((m1_subset_1 \ X0 \ (k1_zfmisc_1 \\ & k1_numbers)) \wedge ((m1_measure7 \ X1 \ X0) \wedge (m1_subset_1 \ X2 \ k5_numbers))) \Rightarrow \\ & ((v6_xreal_2 \ (k2_measure7 \ X0 \ X1 \ X2)) \wedge (m1_subset_1 \ (k2_measure7 \\ & X0 \ X1 \ X2) \ (k1_zfmisc_1 \ k1_numbers))) \end{aligned} \quad (8)$$

Assume the following.

$$\begin{aligned} & \forall X0. (m1_subset_1 \ X0 \ (k1_zfmisc_1 \ k1_numbers)) \Rightarrow (\forall X1. \\ & (m1_measure7 \ X1 \ X0) \Rightarrow (\forall X2. ((v1_funct_1 \ X2) \wedge ((v1_funct_2 \\ & X2 \ k5_numbers \ k7_numbers) \wedge (m1_subset_1 \ X2 \ (k1_zfmisc_1 \ (k2_zfmisc_1 \\ & k5_numbers \ k7_numbers)))))) \Rightarrow ((X2 = k3_measure7 \ X0 \ X1) \Leftrightarrow (\forall X3. \\ & (m2_subset_1 \ X3 \ k1_numbers \ k5_numbers) \Rightarrow (k12_supinf_2 \ X2 \ X3 = k2_measure5 \\ & (k2_measure7 \ X0 \ X1 \ X3)))))) \end{aligned} \quad (9)$$

Assume the following.

$$\forall X0. (v1_xboole_0 \ X0) \Rightarrow (\forall X1. (m1_subset_1 \ X1 \ (k1_zfmisc_1 \ X0)) \Rightarrow (v1_xboole_0 \ X1)) \quad (10)$$

Theorem 1

$$\forall X0. (m1_subset_1 \ X0 \ (k1_zfmisc_1 \ k1_numbers)) \Rightarrow (\forall X1. (m1_measure7 \ X1 \ X0) \Rightarrow (v6_supinf_2 \ (k3_measure7 \ X0 \ X1)))$$