

l23_integr19
(TMbC7c4c4fTFzP2DGaNfcg3RjEEe4yFHGfv)

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Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v2_measure5 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_euclid : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge ((\neg v1_xboole_0 X1) \wedge \\ (m1_subset_1 X1 (k1_zfmisc_1 X0)))) \Rightarrow (\forall X2. (m2_subset_1 \\ X2 X0 X1) \Leftrightarrow (m1_subset_1 X2 X1)) \end{aligned} \quad (1)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (\neg v1_xboole_0 X1) \Rightarrow \\ (\forall X2. (\neg v1_xboole_0 X2) \Rightarrow (\forall X3. ((v1_funct_1 X3) \wedge \\ (m1_subset_1 X3 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))) \Rightarrow ((r1_tarski \\ X2 (k1_relset_1 X0 X3)) \Rightarrow ((v1_funct_1 (k2_partfun1 X0 X1 X3 X2)) \wedge \\ ((v1_funct_2 (k2_partfun1 X0 X1 X3 X2) X2 X1) \wedge (m1_subset_1 (k2_partfun1 \\ X0 X1 X3 X2) (k1_zfmisc_1 (k2_zfmisc_1 X2 X1)))))))))) \end{aligned} \quad (3)$$

Assume the following.

$$(\neg v1_xboole_0 k4_ordinal1) \wedge (v3_ordinal1 k4_ordinal1) \quad (4)$$

Assume the following.

$$\neg v1_xboole_0 k1_numbers \quad (5)$$

Assume the following.

$$\forall X0. (v7_ordinal1 X0) \Rightarrow (\neg v1_xboole_0 (k1_euclid X0)) \quad (6)$$

Assume the following.

$$m1_subset_1\ k5_numbers\ (k1_zfmisc_1\ k1_numbers) \quad (7)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.((v1_funct_1\ X2)\wedge \\ & (m1_subset_1\ X2\ (k1_zfmisc_1\ (k2_zfmisc_1\ X0\ X1))))\Rightarrow((v1_funct_1 \\ & (k2_partfun1\ X0\ X1\ X2\ X3))\wedge(m1_subset_1\ (k2_partfun1\ X0\ X1\ X2\ X3) \\ & (k1_zfmisc_1\ (k2_zfmisc_1\ X0\ X1)))) \end{aligned} \quad (8)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k4_ordinal1)\Rightarrow(v7_ordinal1\ X0) \quad (9)$$

Theorem 1

$$\begin{aligned} & \forall X0.(m2_subset_1\ X0\ k1_numbers\ k5_numbers)\Rightarrow(\forall X1. \\ & ((\neg v1_xboole_0\ X1)\wedge((v2_measure5\ X1)\wedge(m1_subset_1\ X1\ (k1_zfmisc_1 \\ & k1_numbers))))\Rightarrow(\forall X2.((v1_funct_1\ X2)\wedge(m1_subset_1\ X2 \\ & (k1_zfmisc_1\ (k2_zfmisc_1\ k1_numbers\ (k1_euclid\ X0))))\Rightarrow((r1_tarski \\ & X1\ (k1_relset_1\ k1_numbers\ X2))\Rightarrow((v1_funct_1\ (k2_partfun1\ k1_numbers \\ & (k1_euclid\ X0)\ X2\ X1))\wedge((v1_funct_2\ (k2_partfun1\ k1_numbers\ (\\ & k1_euclid\ X0)\ X2\ X1)\ X1\ (k1_euclid\ X0))\wedge(m1_subset_1\ (k2_partfun1 \\ & k1_numbers\ (k1_euclid\ X0)\ X2\ X1)\ (k1_zfmisc_1\ (k2_zfmisc_1\ X1\ (\\ & k1_euclid\ X0)))))))))) \end{aligned}$$