

l22_numbers

(TMHhxtimbwjf9zeQ9KPKD8g35ZX7bMtqvN4)

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Let $k9_arytm_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12_arytm_3 : \iota$ be given. Let $c2_numbers : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_arytm_3 : \iota$ be given. Let $k8_ordinal3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_ordinal2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_ordinal1 : \iota \Rightarrow \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. 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 $np_0 : \iota$ be given. Let $np_2 : \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k1_arytm_3 : \iota$ be given. Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.((v3_ordinal1 X0) \wedge (m1_subset_1 X0 k5_arytm_3)) \Rightarrow (\\ \forall X1.((v3_ordinal1 X1) \wedge (m1_subset_1 X1 k5_arytm_3)) \Rightarrow (\\ k9_arytm_3 X0 X1 = k8_ordinal3 X0 X1)) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow (\forall X1.(v3_ordinal1 X1) \Rightarrow (k10_ordinal2 X0 (k1_ordinal1 X1) = k1_ordinal1 (k10_ordinal2 X0 X1))) \quad (3)$$

Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow (k10_ordinal2 X0 k1_xboole_0 = X0) \quad (4)$$

Assume the following.

$$\begin{aligned} ((v2_xxreal_0 np_1) \wedge (m2_subset_1 np_1 k1_numbers k5_numbers)) \wedge \\ ((m1_subset_1 np_1 k5_numbers) \wedge (m1_subset_1 np_1 k1_numbers)) \end{aligned} \quad (5)$$

Assume the following.

$$v1_xboole_0 np_0 \quad (6)$$

Assume the following.

$$k1_ordinal1\ np_1 = np_2 \quad (7)$$

Assume the following.

$$k1_ordinal1\ np_0 = np_1 \quad (8)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.(((v3_ordinal1\ X0)\wedge(v7_ordinal1\ X0))\wedge \\ & ((v3_ordinal1\ X1)\wedge(v7_ordinal1\ X1)))\Rightarrow(k8_ordinal3\ X0\ X1 = k10_ordinal2 \\ & \quad X0\ X1) \end{aligned} \quad (9)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (10)$$

Assume the following.

$$k12_arytm_3 = k1_arytm_3 \quad (11)$$

Assume the following.

$$\begin{aligned} & (\neg v1_xboole_0\ k12_arytm_3)\wedge((v3_ordinal1\ k12_arytm_3)\wedge(m1_subset_1 \\ & \quad k12_arytm_3\ k5_arytm_3)) \end{aligned} \quad (12)$$

Assume the following.

$$c2_numbers = np_2 \quad (13)$$

Assume the following.

$$k1_arytm_3 = np_1 \quad (14)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k4_ordinal1)\Rightarrow(v7_ordinal1\ X0) \quad (15)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0)\Rightarrow(v3_ordinal1\ X0) \quad (16)$$

Assume the following.

$$\forall X0.(v1_xboole_0\ X0)\Rightarrow(v3_ordinal1\ X0) \quad (17)$$

Theorem 1 $k9_arytm_3\ k12_arytm_3\ k12_arytm_3 = c2_numbers.$