

l16_jordan1d

(TMLk6aFTxGeR58gc629nKbVoNzJr3xmPTXK)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $r1_xreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $k7_nat_d : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_xreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $np_0 : \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Assume the following.

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

Assume the following.

$$\begin{aligned} & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\forall X2. \\ & (v1_xreal_0 X2) \Rightarrow (((r1_xreal_0 X0 X1) \wedge (r1_xreal_0 k6_numbers \\ & X2)) \Rightarrow (r1_xreal_0 (k3_xcmplx_0 X0 X2) (k3_xcmplx_0 X1 X2)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow ((\\ & \neg(r1_xreal_0 X1 X0) \wedge (\neg r1_xreal_0 (k1_nat_1 X0 np_1) X1)) \Rightarrow (\\ & r1_xreal_0 X0 (k7_nat_d X1 np_1)))) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (r1_xreal_0 k6_numbers X0) \quad (4)$$

Assume the following.

$$\begin{aligned} & ((v2_xreal_0 np_2) \wedge (m2_subset_1 np_2 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_2 k5_numbers) \wedge (m1_subset_1 np_2 k1_numbers)) \end{aligned} \quad (5)$$

Assume the following.

$$\begin{aligned} & ((v2_xreal_0 np_1) \wedge (m2_subset_1 np_1 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_1 k5_numbers) \wedge (m1_subset_1 np_1 k1_numbers)) \end{aligned} \quad (6)$$

Assume the following.

$$v1_xboole_0 \text{ } np_0 \quad (7)$$

Assume the following.

$$k3_xcmplx_0 \text{ } np_1 \text{ } np_2 = np_2 \quad (8)$$

Assume the following.

$$k2_xcmplx_0 \text{ } np_1 \text{ } np_1 = np_2 \quad (9)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (10)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (11)$$

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1 \text{ } X0 \text{ } k5_numbers)\wedge(v7_ordinal1 \text{ } X1))\Rightarrow(k4_nat_1 \text{ } X0 \text{ } X1 = k3_xcmplx_0 \text{ } X0 \text{ } X1) \quad (12)$$

Assume the following.

$$\forall X0.\forall X1.((v7_ordinal1 \text{ } X0)\wedge(m1_subset_1 \text{ } X1 \text{ } k5_numbers))\Rightarrow(k1_nat_1 \text{ } X0 \text{ } X1 = k2_xcmplx_0 \text{ } X0 \text{ } X1) \quad (13)$$

Assume the following.

$$\forall X0.\forall X1.((v7_ordinal1 \text{ } X0)\wedge(v7_ordinal1 \text{ } X1))\Rightarrow(v7_ordinal1 \text{ } (k3_xcmplx_0 \text{ } X0 \text{ } X1)) \quad (14)$$

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1 \text{ } X0 \text{ } k5_numbers)\wedge(v7_ordinal1 \text{ } X1))\Rightarrow(k4_nat_1 \text{ } X0 \text{ } X1 = k4_nat_1 \text{ } X1 \text{ } X0) \quad (15)$$

Assume the following.

$$\forall X0.(m1_subset_1 \text{ } X0 \text{ } k4_ordinal1)\Rightarrow(v7_ordinal1 \text{ } X0) \quad (16)$$

Assume the following.

$$\forall X0.(v7_ordinal1 \text{ } X0)\Rightarrow(v1_xreal_0 \text{ } X0) \quad (17)$$

Assume the following.

$$\forall X0.(m1_subset_1 \text{ } X0 \text{ } k1_numbers)\Rightarrow(v1_xreal_0 \text{ } X0) \quad (18)$$

Theorem 1

$$\forall X0.(m1_subset_1 \text{ } X0 \text{ } k5_numbers)\Rightarrow((r1_xxreal_0 \text{ } np_1 \text{ } X0)\Rightarrow(r1_xxreal_0 \text{ } np_1 \text{ } (k7_nat_d \text{ } (k4_nat_1 \text{ } np_2 \text{ } X0) \text{ } np_1)))$$