

t15_nat_1 (TMbS-
Btc3HZgP7oLBHCjJFRLqbgHdbMcfpGJ)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (r1_xxreal_0 k6_numbers X0) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k3_xcmplx_0 X0 k6_numbers = k6_numbers) \quad (2)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (((r1_xxreal_0 k6_numbers X0) \wedge (r1_xxreal_0 np_1 X1)) \Rightarrow (r1_xxreal_0 X0 (k3_xcmplx_0 X0 X1)))) \quad (3)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow ((\neg r1_xxreal_0 np_1 X0) \Rightarrow (X0 = k6_numbers)) \quad (4)$$

Assume the following.

$$\neg v1_xboole_0 np_1 \quad (5)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (6)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (((r1_xxreal_0 X0 X1) \wedge (r1_xxreal_0 X1 X0)) \Rightarrow (X0 = X1))) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.((v7_ordinal1 X0) \wedge (v7_ordinal1 X1)) \Rightarrow (v7_ordinal1 (k3_xcmplx_0 X0 X1)) \quad (8)$$

Assume the following.

$$v1_xboole_0 \ k1_xboole_0 \tag{9}$$

Assume the following.

$$\forall X0.\forall X1.((v1_xcmplx_0 \ X0)\wedge(v1_xcmplx_0 \ X1))\Rightarrow(k3_xcmplx_0 \ X0 \ X1 = k3_xcmplx_0 \ X1 \ X0) \tag{10}$$

Assume the following.

$$\forall X0.(v7_ordinal1 \ X0)\Rightarrow(v1_xreal_0 \ X0) \tag{11}$$

Assume the following.

$$\forall X0.(v7_ordinal1 \ X0)\Rightarrow(v1_xcmplx_0 \ X0) \tag{12}$$

Theorem 1

$$\forall X0.(v7_ordinal1 \ X0)\Rightarrow(\forall X1.(v7_ordinal1 \ X1)\Rightarrow((k3_xcmplx_0 \ X0 \ X1 = np_1)\Rightarrow(X0 = np_1)))$$