

t63_pepin
(TMVZTCEFiwYPdcQRGr1vXfjiBh563ViLuFd)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k4_nat.d : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $r1_xreal.0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_nat.d : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_xcmplx.0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xreal.0 : \iota \Rightarrow o$ be given. Let $v3_xreal.0 : \iota \Rightarrow o$ be given. Let $v2_xreal.0 : \iota \Rightarrow o$ be given. Let $v1_xcmplx.0 : \iota \Rightarrow o$ be given. Let $k3_xcmplx.0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole.0 : \iota \Rightarrow o$ be given. Let $k1_xboole.0 : \iota$ be given. Let $m1_subset.1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc.1 : \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k2_xcmplx.0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k6_int.1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_int.1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_nat.d : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_nat.d : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xreal.0 : \iota \Rightarrow o$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_int.1 : \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Assume the following.

$$\forall X0.(v1_xreal.0 X0) \Rightarrow (\forall X1.(v1_xreal.0 X1) \Rightarrow (\neg(\neg r1_xreal.0 X0 X1) \wedge ((\neg v3_xreal.0 X1) \wedge (\neg v2_xreal.0 X0)))) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xcmplx.0 X0) \Rightarrow (\forall X1.(v1_xcmplx.0 X1) \Rightarrow ((X0 \neq k6_numbers) \Rightarrow (X1 = k7_xcmplx.0 (k3_xcmplx.0 X1 X0) X0))) \quad (2)$$

Assume the following.

$$\forall X0.(v1_xboole.0 X0) \Rightarrow (X0 = k1_xboole.0) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((X0 \in X1) \wedge (m1_subset.1 X1 (k1_zfmisc.1 X2))) \Rightarrow (m1_subset.1 X0 X2) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset.1 X0 X1) \Rightarrow ((v1_xboole.0 X1) \vee (X0 \in X1)) \quad (5)$$

Assume the following.

$$m1_subset_1 \ k1_xboole_0 \ k4_ordinal1 \tag{6}$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 \ X0) \Rightarrow (k2_xcmplx_0 \ X0 \ k6_numbers = X0) \tag{7}$$

Assume the following.

$$k6_numbers = k1_xboole_0 \tag{8}$$

Assume the following.

$$k5_numbers = k4_ordinal1 \tag{9}$$

Assume the following.

$$\forall X0.\forall X1.((v7_ordinal1 \ X0) \wedge (v7_ordinal1 \ X1)) \Rightarrow (k4_nat_d \ X0 \ X1 = k6_int_1 \ X0 \ X1) \tag{10}$$

Assume the following.

$$\forall X0.\forall X1.((v7_ordinal1 \ X0) \wedge (v7_ordinal1 \ X1)) \Rightarrow (k3_nat_d \ X0 \ X1 = k5_int_1 \ X0 \ X1) \tag{11}$$

Assume the following.

$$\forall X0.\forall X1.((v7_ordinal1 \ X0) \wedge (v7_ordinal1 \ X1)) \Rightarrow (k2_nat_d \ X0 \ X1 = k6_int_1 \ X0 \ X1) \tag{12}$$

Assume the following.

$$\forall X0.\forall X1.((v7_ordinal1 \ X0) \wedge (v7_ordinal1 \ X1)) \Rightarrow (k1_nat_d \ X0 \ X1 = k5_int_1 \ X0 \ X1) \tag{13}$$

Assume the following.

$$\exists X0.(v1_xboole_0 \ X0) \wedge ((v1_xcmplx_0 \ X0) \wedge ((v1_xreal_0 \ X0) \wedge (v1_xreal_0 \ X0))) \tag{14}$$

Assume the following.

$$(\neg v1_xboole_0 \ k4_ordinal1) \wedge (v3_ordinal1 \ k4_ordinal1) \tag{15}$$

Assume the following.

$$\forall X0.\forall X1.((v1_int_1 \ X0) \wedge (v1_int_1 \ X1)) \Rightarrow (v1_int_1 \ (k3_xcmplx_0 \ X0 \ X1)) \tag{16}$$

Assume the following.

$$m1_subset_1 \ k5_numbers \ (k1_zfmisc_1 \ k1_numbers) \tag{17}$$

Assume the following.

$$\forall X0.\forall X1.((v7_ordinal1\ X0)\wedge(v7_ordinal1\ X1))\Rightarrow(v7_ordinal1\ (k2_nat_d\ X0\ X1)) \quad (18)$$

Assume the following.

$$\begin{aligned} \forall X0.(v7_ordinal1\ X0)\Rightarrow(\forall X1.(v7_ordinal1\ X1)\Rightarrow(\forall X2. \\ (v7_ordinal1\ X2)\Rightarrow((X2 = k2_nat_d\ X0\ X1)\Leftrightarrow(\neg(\forall X3.(v7_ordinal1 \\ X3)\Rightarrow(\neg(X0 = k2_xcmplx_0\ (k3_xcmplx_0\ X1\ X3)\ X2)\wedge(\neg r1_xxreal_0 \\ X1\ X2))))\wedge(\neg(X2 = k6_numbers)\wedge(X1 = k6_numbers)))))) \end{aligned} \quad (19)$$

Assume the following.

$$\begin{aligned} \forall X0.(v7_ordinal1\ X0)\Rightarrow(\forall X1.(v7_ordinal1\ X1)\Rightarrow(\forall X2. \\ (v7_ordinal1\ X2)\Rightarrow((X2 = k1_nat_d\ X0\ X1)\Leftrightarrow(\neg(\forall X3.(v7_ordinal1 \\ X3)\Rightarrow(\neg(X0 = k2_xcmplx_0\ (k3_xcmplx_0\ X1\ X2)\ X3)\wedge(\neg r1_xxreal_0 \\ X1\ X3))))\wedge(\neg(X2 = k6_numbers)\wedge(X1 = k6_numbers)))))) \end{aligned} \quad (20)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xcmplx_0\ X0)\wedge(v1_xcmplx_0\ X1))\Rightarrow(k3_xcmplx_0\ X0\ X1 = k3_xcmplx_0\ X1\ X0) \quad (21)$$

Assume the following.

$$\forall X0.((v1_xxreal_0\ X0)\wedge(v2_xxreal_0\ X0))\Rightarrow((\neg v1_xboole_0\ X0)\wedge((v1_xxreal_0\ X0)\wedge(\neg v3_xxreal_0\ X0))) \quad (22)$$

Assume the following.

$$\forall X0.(v1_xreal_0\ X0)\Rightarrow(v1_xcmplx_0\ X0) \quad (23)$$

Assume the following.

$$\forall X0.(v1_int_1\ X0)\Rightarrow(v1_xreal_0\ X0) \quad (24)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0)\Rightarrow(v1_xreal_0\ X0) \quad (25)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k5_numbers)\Rightarrow(\neg v3_xxreal_0\ X0) \quad (26)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0)\Rightarrow(v1_int_1\ X0) \quad (27)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k1_numbers)\Rightarrow(v1_xreal_0\ X0) \quad (28)$$

Theorem 1

$$\forall X0.(v7_ordinal1\ X0)\Rightarrow(\forall X1.(v7_ordinal1\ X1)\Rightarrow((k4_nat_d\ X0\ X1 = k6_numbers)\Rightarrow((r1_xxreal_0\ X1\ k6_numbers)\vee(k3_nat_d\ X0\ X1 = k7_xcmplx_0\ X0\ X1))))$$