

l96_pepin
(TMUkMvqexdwx85p2i6WgFRFU1eJn6rJNtbQ)

October 27, 2020

Let $k4_nat_d : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_3 : \iota$ be given. Let $np_8 : \iota$ be given. Let $k4_pepin : \iota \Rightarrow \iota$ be given. Let $np_4 : \iota$ be given. Let $np_6561 : \iota$ be given. Let $k2_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_256 : \iota$ be given. Let $np_1 : \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_65537 : \iota$ be given. Let $np_65536 : \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Assume the following.

$$k4_pepin\ np_4 = k2_nat_1\ (k4_nat_1\ np_256\ np_256)\ np_1 \quad (1)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0) \Rightarrow (\forall X1.(v7_ordinal1\ X1) \Rightarrow ((\neg r1_xxreal_0\ X1\ X0) \Rightarrow (k4_nat_d\ X0\ X1 = X0))) \quad (2)$$

Assume the following.

$$((v2_xxreal_0\ np_6561) \wedge (m2_subset_1\ np_6561\ k1_numbers\ k5_numbers)) \wedge ((m1_subset_1\ np_6561\ k5_numbers) \wedge (m1_subset_1\ np_6561\ k1_numbers)) \quad (3)$$

Assume the following.

$$((v2_xxreal_0\ np_65537) \wedge (m2_subset_1\ np_65537\ k1_numbers\ k5_numbers)) \wedge ((m1_subset_1\ np_65537\ k5_numbers) \wedge (m1_subset_1\ np_65537\ k1_numbers)) \quad (4)$$

Assume the following.

$$((v2_xxreal_0\ np_65536) \wedge (m2_subset_1\ np_65536\ k1_numbers\ k5_numbers)) \wedge ((m1_subset_1\ np_65536\ k5_numbers) \wedge (m1_subset_1\ np_65536\ k1_numbers)) \quad (5)$$

Assume the following.

$$\begin{aligned} & ((v2_xreal_0 \text{ np_256}) \wedge (m2_subset_1 \text{ np_256 } k1_numbers \text{ k5_numbers})) \wedge \\ & ((m1_subset_1 \text{ np_256 } k5_numbers) \wedge (m1_subset_1 \text{ np_256 } k1_numbers)) \end{aligned} \quad (6)$$

Assume the following.

$$\begin{aligned} & ((v2_xreal_0 \text{ np_1}) \wedge (m2_subset_1 \text{ np_1 } k1_numbers \text{ k5_numbers})) \wedge \\ & ((m1_subset_1 \text{ np_1 } k5_numbers) \wedge (m1_subset_1 \text{ np_1 } k1_numbers)) \end{aligned} \quad (7)$$

Assume the following.

$$k3_xcmplx_0 \text{ np_256 } np_256 = np_65536 \quad (8)$$

Assume the following.

$$k2_xcmplx_0 \text{ np_65536 } np_1 = np_65537 \quad (9)$$

Assume the following.

$$\neg r1_xreal_0 \text{ np_65537 } np_6561 \quad (10)$$

Assume the following.

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

Assume the following.

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

Assume the following.

$$\forall X0. \forall X1. ((m1_subset_1 \text{ X0 } k5_numbers) \wedge (v7_ordinal1 \text{ X1})) \Rightarrow (k2_nat_1 \text{ X0 } X1 = k2_xcmplx_0 \text{ X0 } X1) \quad (13)$$

Assume the following.

$$k13_newton \text{ np_3 } np_8 = np_6561 \quad (14)$$

Assume the following.

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

Theorem 1 $k4_nat_d (k13_newton \text{ np_3 } np_8) (k4_pepin \text{ np_4}) = np_6561.$