

l94_pepin
(TMHtKvqx5cARzDW4iVZVcu3nkxgSpdUqxtq)

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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 $np_2 : \iota$ be given. Let $k4_pepin : \iota \Rightarrow \iota$ be given. Let $np_4 : \iota$ be given. Let $np_9 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ 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 $k6_numbers : \iota$ be given. Let $np_5 : \iota$ be given. Let $np_6 : \iota$ be given. Let $np_7 : \iota$ be given. Let $np_8 : \iota$ 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 $np_0 : \iota$ 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.

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

Assume the following.

$$k4_pepin np_4 = k2_nat_1 (k4_nat_1 np_256 np_256) np_1 \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.(v7_ordinal1 X0) \Rightarrow & (\neg(r1_xxreal_0 X0 np_9) \wedge ((X0 \neq k6_numbers) \wedge \\ & ((X0 \neq np_1) \wedge ((X0 \neq np_2) \wedge ((X0 \neq np_3) \wedge ((X0 \neq np_4) \wedge ((X0 \neq np_5) \wedge \\ & ((X0 \neq np_6) \wedge ((X0 \neq np_7) \wedge ((X0 \neq np_8) \wedge (X0 \neq np_9)))))))))) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow ((\neg r1_xxreal_0 X1 X0) \Rightarrow (k4_nat_d X0 X1 = X0))) \quad (4)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_9) \wedge (m2_subset_1 np_9 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_9 k5_numbers) \wedge (m1_subset_1 np_9 k1_numbers)) \end{aligned} \quad (5)$$

Assume the following.

$$((v2_xreal_0 \ np_65537) \wedge (m2_subset_1 \ np_65537 \ k1_numbers \ k5_numbers)) \wedge ((m1_subset_1 \ np_65537 \ k5_numbers) \wedge (m1_subset_1 \ np_65537 \ k1_numbers)) \quad (6)$$

Assume the following.

$$((v2_xreal_0 \ np_65536) \wedge (m2_subset_1 \ np_65536 \ k1_numbers \ k5_numbers)) \wedge ((m1_subset_1 \ np_65536 \ k5_numbers) \wedge (m1_subset_1 \ np_65536 \ k1_numbers)) \quad (7)$$

Assume the following.

$$((v2_xreal_0 \ np_256) \wedge (m2_subset_1 \ np_256 \ k1_numbers \ k5_numbers)) \wedge ((m1_subset_1 \ np_256 \ k5_numbers) \wedge (m1_subset_1 \ np_256 \ k1_numbers)) \quad (8)$$

Assume the following.

$$((v2_xreal_0 \ np_1) \wedge (m2_subset_1 \ np_1 \ k1_numbers \ k5_numbers)) \wedge ((m1_subset_1 \ np_1 \ k5_numbers) \wedge (m1_subset_1 \ np_1 \ k1_numbers)) \quad (9)$$

Assume the following.

$$v1_xboole_0 \ np_0 \quad (10)$$

Assume the following.

$$k3_xcmplx_0 \ np_256 \ np_256 = np_65536 \quad (11)$$

Assume the following.

$$k2_xcmplx_0 \ np_65536 \ np_1 = np_65537 \quad (12)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (13)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (14)$$

Assume the following.

$$\forall X0. \forall X1. ((m1_subset_1 \ X0 \ k5_numbers) \wedge (v7_ordinal1 \ X1)) \Rightarrow (k4_nat_1 \ X0 \ X1 = k3_xcmplx_0 \ X0 \ X1) \quad (15)$$

Assume the following.

$$\forall X0. \forall X1. ((m1_subset_1 \ X0 \ k5_numbers) \wedge (v7_ordinal1 \ X1)) \Rightarrow (k2_nat_1 \ X0 \ X1 = k2_xcmplx_0 \ X0 \ X1) \quad (16)$$

Assume the following.

$$k13_newton \ np_3 \ np_2 = np_9 \quad (17)$$

Assume the following.

$$\forall X0. (m1_subset_1 \ X0 \ k4_ordinal1) \Rightarrow (v7_ordinal1 \ X0) \quad (18)$$

Theorem 1 $k4_nat_d \ (k13_newton \ np_3 \ np_2) \ (k4_pepin \ np_4) = np_9.$