

t53_pepin (TMGkTuVn- rktS3VSMg5TCMzZJBmAhdCEWkw4)

October 27, 2020

Let $k4_pepin : \iota \Rightarrow \iota$ be given. Let $np_3 : \iota$ be given. Let $np_257 : \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k1_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_power : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $np_4 : \iota$ be given. Let $np_16 : \iota$ be given. Let $np_8 : \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $np_256 : \iota$ be given. Let $np_1 : \iota$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k3_power : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow (\forall X2. \\ & (v1_xcmplx_0 X2) \Rightarrow (k1_newton X2 (k2_xcmplx_0 X0 X1) = k3_xcmplx_0 \\ & (k1_newton X2 X0) (k1_newton X2 X1)))) \end{aligned} \tag{1}$$

Assume the following.

$$k4_power\ np_2\ np_4 = np_16 \tag{2}$$

Assume the following.

$$k4_power\ np_2\ np_3 = np_8 \tag{3}$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0\ np_8) \wedge (m2_subset_1\ np_8\ k1_numbers\ k5_numbers)) \wedge \\ & ((m1_subset_1\ np_8\ k5_numbers) \wedge (m1_subset_1\ np_8\ k1_numbers)) \end{aligned} \tag{4}$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0\ np_4) \wedge (m2_subset_1\ np_4\ k1_numbers\ k5_numbers)) \wedge \\ & ((m1_subset_1\ np_4\ k5_numbers) \wedge (m1_subset_1\ np_4\ k1_numbers)) \end{aligned} \tag{5}$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0\ np_3) \wedge (m2_subset_1\ np_3\ k1_numbers\ k5_numbers)) \wedge \\ & ((m1_subset_1\ np_3\ k5_numbers) \wedge (m1_subset_1\ np_3\ k1_numbers)) \end{aligned} \tag{6}$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_2) \wedge (m2_subset_1 \ np_2 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_2 \ k5_numbers) \wedge (m1_subset_1 \ np_2 \ k1_numbers)) \end{aligned} \quad (7)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_256) \wedge (m2_subset_1 \ np_256 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_256 \ k5_numbers) \wedge (m1_subset_1 \ np_256 \ k1_numbers)) \end{aligned} \quad (8)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_1) \wedge (m2_subset_1 \ np_1 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_1 \ k5_numbers) \wedge (m1_subset_1 \ np_1 \ k1_numbers)) \end{aligned} \quad (9)$$

Assume the following.

$$k4_xcmplx_0 \ (k4_xcmplx_0 \ np_2) = np_2 \quad (10)$$

Assume the following.

$$k3_xcmplx_0 \ np_16 \ np_16 = np_256 \quad (11)$$

Assume the following.

$$k2_xcmplx_0 \ np_4 \ np_4 = np_8 \quad (12)$$

Assume the following.

$$k2_xcmplx_0 \ np_256 \ np_1 = np_257 \quad (13)$$

Assume the following.

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

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((m1_subset_1 \ X0 \ k1_numbers) \wedge (m1_subset_1 \\ & X1 \ k1_numbers)) \Rightarrow (k4_power \ X0 \ X1 = k3_power \ X0 \ X1) \end{aligned} \quad (15)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((m1_subset_1 \ X0 \ k1_numbers) \wedge (v7_ordinal1 \\ & X1)) \Rightarrow (k2_newton \ X0 \ X1 = k1_newton \ X0 \ X1) \end{aligned} \quad (16)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v7_ordinal1 \ X0) \wedge (m1_subset_1 \ X1 \ k5_numbers)) \Rightarrow \\ & (k1_nat_1 \ X0 \ X1 = k2_xcmplx_0 \ X0 \ X1) \end{aligned} \quad (17)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xreal_0 X0)\wedge(v7_ordinal1 X1))\Rightarrow(k3_power X0 X1 = k1_newton X0 X1) \quad (18)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0)\Rightarrow((v1_xcmplx_0 (k4_xcmplx_0 X0))\wedge(v1_xreal_0 (k4_xcmplx_0 X0))) \quad (19)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0)\Rightarrow(k4_pepin X0 = k1_nat_1 (k2_newton np_2 (k2_newton np_2 X0)) np_1) \quad (20)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k4_ordinal1)\Rightarrow(v7_ordinal1 X0) \quad (21)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers)\Rightarrow(v1_xreal_0 X0) \quad (22)$$

Theorem 1 $k4_pepin np_3 = np_257$.