

l19\_pepin  
(TMWJzYn8PPJWcEZtszjMtiZ75Vo4W6dBTHz)

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Let  $k13\_newton : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $np\_8 : \iota$  be given. Let  $np\_256 : \iota$  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  $np\_4 : \iota$  be given. Let  $np\_16 : \iota$  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  $k4\_ordinal1 : \iota$  be given. Let  $k3\_power : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0.(v7\_ordinal1 X0) \Rightarrow (\forall X1.(v7\_ordinal1 X1) \Rightarrow (\forall X2. \\ & (v1\_xcmplx\_0 X2) \Rightarrow (k1\_newton X2 (k2\_xcmplx\_0 X0 X1) = k3\_xcmplx\_0 \\ & (k1\_newton X2 X0) (k1\_newton X2 X1)))) \end{aligned} \quad (1)$$

Assume the following.

$$k4\_power np\_2 np\_4 = np\_16 \quad (2)$$

Assume the following.

$$\begin{aligned} & ((v2\_xxreal\_0 np\_8) \wedge (m2\_subset\_1 np\_8 k1\_numbers k5\_numbers)) \wedge \\ & ((m1\_subset\_1 np\_8 k5\_numbers) \wedge (m1\_subset\_1 np\_8 k1\_numbers)) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & ((v2\_xxreal\_0 np\_4) \wedge (m2\_subset\_1 np\_4 k1\_numbers k5\_numbers)) \wedge \\ & ((m1\_subset\_1 np\_4 k5\_numbers) \wedge (m1\_subset\_1 np\_4 k1\_numbers)) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} & ((v2\_xxreal\_0 np\_2) \wedge (m2\_subset\_1 np\_2 k1\_numbers k5\_numbers)) \wedge \\ & ((m1\_subset\_1 np\_2 k5\_numbers) \wedge (m1\_subset\_1 np\_2 k1\_numbers)) \end{aligned} \quad (5)$$

Assume the following.

$$k3\_xcmplx\_0 np\_16 np\_16 = np\_256 \quad (6)$$

Assume the following.

$$k2\_xcmplx\_0 \text{ } np\_4 \text{ } np\_4 = np\_8 \quad (7)$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1 \text{ } X0 \text{ } k1\_numbers)\wedge(m1\_subset\_1 \text{ } X1 \text{ } k1\_numbers))\Rightarrow(k4\_power \text{ } X0 \text{ } X1 = k3\_power \text{ } X0 \text{ } X1) \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1 \text{ } X0 \text{ } k5\_numbers)\wedge(m1\_subset\_1 \text{ } X1 \text{ } k5\_numbers))\Rightarrow(k13\_newton \text{ } X0 \text{ } X1 = k1\_newton \text{ } X0 \text{ } X1) \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xreal\_0 \text{ } X0)\wedge(v7\_ordinal1 \text{ } X1))\Rightarrow(k3\_power \text{ } X0 \text{ } X1 = k1\_newton \text{ } X0 \text{ } X1) \quad (11)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 \text{ } X0 \text{ } k4\_ordinal1)\Rightarrow(v7\_ordinal1 \text{ } X0) \quad (12)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 \text{ } X0)\Rightarrow(v1\_xcmplx\_0 \text{ } X0) \quad (13)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 \text{ } X0 \text{ } k1\_numbers)\Rightarrow(v1\_xreal\_0 \text{ } X0) \quad (14)$$

**Theorem 1**  $k13\_newton \text{ } np\_2 \text{ } np\_8 = np\_256$ .