l86_pepin (TMLxXxES-GvSMd3A6A5VtW4cHoUpi25zjEv3)

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 $np\_\_2 : \iota$ be given. Let $k4\_pepin : \iota \Rightarrow \iota$ be given. Let $np\_\_9 : \iota$ be given. Let $np\_\_257 : \iota$ be given. Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k4\_ordinal1 : \iota$ be given. Let $v1\_int\_1 : \iota \Rightarrow o$ be given. Let $k3\_square\_1 : \iota \Rightarrow \iota$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$k4\_pepin\ np\_\_3 = np\_\_257 \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (k3\_xcmplx\_0\ np\_\_1\ X0 = X0) \tag{2}$$

Assume the following.

$$\begin{gathered}\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.(v7\_ordinal1\ X1) \Rightarrow ((\\ \neg r1\_xxreal\_0\ X1\ X0) \Rightarrow (k4\_nat\_d\ X0\ X1 = X0)))\end{gathered} \tag{3}$$

Assume the following.

$$\begin{gathered}((v2\_xxreal\_0\ np\_\_3) \wedge (m2\_subset\_1\ np\_\_3\ k1\_numbers\ k5\_numbers)) \wedge \\ ((m1\_subset\_1\ np\_\_3\ k5\_numbers) \wedge (m1\_subset\_1\ np\_\_3\ k1\_numbers))\end{gathered} \tag{4}$$

Assume the following.

$$\begin{gathered}((v2\_xxreal\_0\ np\_\_257) \wedge (m2\_subset\_1\ np\_\_257\ k1\_numbers\ k5\_numbers)) \wedge \\ ((m1\_subset\_1\ np\_\_257\ k5\_numbers) \wedge (m1\_subset\_1\ np\_\_257\ k1\_numbers))\end{gathered} \tag{5}$$

Assume the following.

$$\begin{gathered}((v2\_xxreal\_0\ np\_\_1) \wedge (m2\_subset\_1\ np\_\_1\ k1\_numbers\ k5\_numbers)) \wedge \\ ((m1\_subset\_1\ np\_\_1\ k5\_numbers) \wedge (m1\_subset\_1\ np\_\_1\ k1\_numbers))\end{gathered} \tag{6}$$

Assume the following.

$$k3\_xcmplx\_0\ np\_\_3\ np\_\_3 = np\_\_9 \tag{7}$$

Assume the following.

$$\neg r1\_xxreal\_0\ np\_\_257\ np\_\_9 \tag{8}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{9}$$

Assume the following.

$$k13\_newton\ np\_\_3\ np\_\_2 = np\_\_9 \tag{10}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_int\_1\ X0)\wedge(v1\_int\_1\ X1))\Rightarrow(v1\_int\_1\ (k3\_xcmplx\_0\ X0\ X1)) \tag{11}$$

Assume the following.

$$\forall X0.(v1\_int\_1\ X0)\Rightarrow(v7\_ordinal1\ (k3\_square\_1\ X0)) \tag{12}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0)\Rightarrow(k3\_square\_1\ X0 = k3\_xcmplx\_0\ X0\ X0) \tag{13}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k4\_ordinal1)\Rightarrow(v7\_ordinal1\ X0) \tag{14}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(v1\_xcmplx\_0\ X0) \tag{15}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow(v1\_xreal\_0\ X0) \tag{16}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow(v1\_int\_1\ X0) \tag{17}$$

Theorem 1 $k4\_nat\_d\ (k13\_newton\ np\_\_3\ np\_\_2)\ (k4\_pepin\ np\_\_3) = np\_\_9$.