t40_polyeq_3 (TMHjMkfQS8voxhtTo8JJf84FQvXmrKGUQAf)

October 27, 2020

Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_numbers : \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_1 : \iota$ be given. Let $k1\_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $k17\_complex1 : \iota \Rightarrow \iota$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $v1\_abian : \iota \Rightarrow o$ be given. Let $k1\_power : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $k1\_numbers : \iota$ be given. Let $k2\_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8\_nat\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_sin\_cos : \iota \Rightarrow \iota$ be given. Let $k6\_complex1 : \iota$ be given. Let $v3\_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v7\_ordinal1\ X1) \Rightarrow ((\neg (\neg (r1\_xxreal\_0\ np\_\_1\ X1) \wedge (r1\_xxreal\_0\ k6\_numbers\ X0)) \wedge (v1\_abian\ X1)) \Rightarrow ((k1\_newton\ (k1\_power\ X1\ X0)\ X1 = X0) \wedge (k1\_power\ X1\ (k1\_newton\ X0\ X1) = X0)))) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (r1\_xxreal\_0\ k6\_numbers\ (k17\_complex1\ X0)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0) \wedge ((\neg v1\_xboole\_0\ X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0)))) \Rightarrow (\forall X2.(m2\_subset\_1\ X2\ X0\ X1) \Leftrightarrow (m1\_subset\_1\ X2\ X1)) \tag{3}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{4}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1\ X0\ k1\_numbers)\wedge(v7\_ordinal1\ X1))\Rightarrow(k2\_newton\ X0\ X1 = k1\_newton\ X0\ X1) \tag{6}$$

Assume the following.

$$\forall X0.(m2\_subset\_1\ X0\ k1\_numbers\ k5\_numbers)\Rightarrow(\forall X1.(v1\_xcmplx\_0\ X1)\Rightarrow((k8\_nat\_1\ k2\_numbers\ (k3\_sin\_cos\ X1)\ np\_\_1 = X1)\wedge((k8\_nat\_1\ k2\_numbers\ (k3\_sin\_cos\ X1)\ k6\_numbers = k6\_complex1)\wedge(k17\_complex1\ (k1\_newton\ X1\ X0) = k2\_newton\ (k17\_complex1\ X1)\ X0)))) \tag{7}$$

Assume the following.

$$(\neg v1\_xboole\_0\ k4\_ordinal1)\wedge(v3\_ordinal1\ k4\_ordinal1) \tag{8}$$

Assume the following.

$$\neg v1\_xboole\_0\ k1\_numbers \tag{9}$$

Assume the following.

$$m1\_subset\_1\ k5\_numbers\ (k1\_zfmisc\_1\ k1\_numbers) \tag{10}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0)\Rightarrow(m1\_subset\_1\ (k17\_complex1\ X0)\ k1\_numbers) \tag{11}$$

Assume the following.

$$k1\_xboole\_0 = the\ (\lambda X0 : \iota.v1\_xboole\_0\ X0) \tag{12}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k4\_ordinal1)\Rightarrow(v7\_ordinal1\ X0) \tag{13}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k2\_numbers)\Rightarrow(v1\_xcmplx\_0\ X0) \tag{14}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers)\Rightarrow(v1\_xreal\_0\ X0) \tag{15}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ k2\_numbers)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ k2\_numbers)\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ k5\_numbers)\Rightarrow(((r1\_xxreal\_0\ np\_\_1\ X2)\wedge(k1\_newton\ X1\ X2 = k1\_newton\ X0\ X2))\Rightarrow((X1 = k6\_numbers)\vee((X0 = k6\_numbers)\vee(k17\_complex1\ X1 = k17\_complex1\ X0))))))$$