t8_int_7 (TMQ15gLNJR1APvLxiu8JX4pnFBLvy7eWv5Z)

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Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v4\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k10\_newton : \iota$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4\_valued\_0 : \iota \Rightarrow o$ be given. Let $v2\_pre\_poly : \iota \Rightarrow o$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $v1\_int\_2 : \iota \Rightarrow o$ be given. Let $v1\_int\_7 : \iota \Rightarrow o$ be given. Let $r1\_int\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8\_nat\_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_polynom2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((v7\_ordinal1\ X0) \wedge (v1\_int\_2\ X0)) \Rightarrow (\forall X1.((v1\_relat\_1\ X1) \wedge ((v4\_relat\_1\ X1\ k10\_newton) \wedge ((v1\_funct\_1\ X1) \wedge ((v1\_partfun1\ X1\ k10\_newton) \wedge ((v4\_valued\_0\ X1) \wedge (v2\_pre\_poly\ X1)))))) \Rightarrow (((v1\_int\_7\ X1) \wedge (r1\_int\_1\ X0\ (k8\_nat\_3\ k10\_newton\ X1))) \Rightarrow (X0 \in k1\_polynom2\ k10\_newton\ X1))) \tag{1}$$

Assume the following.

$$\forall X0.((v7\_ordinal1\ X0) \wedge (v1\_int\_2\ X0)) \Rightarrow (\forall X1.((v1\_relat\_1\ X1) \wedge ((v4\_relat\_1\ X1\ k10\_newton) \wedge ((v1\_funct\_1\ X1) \wedge ((v1\_partfun1\ X1\ k10\_newton) \wedge ((v4\_valued\_0\ X1) \wedge (v2\_pre\_poly\ X1)))))) \Rightarrow (((v1\_int\_7\ X1) \wedge (X0 \in k1\_polynom2\ k10\_newton\ X1)) \Rightarrow ((r1\_int\_1\ X0\ (k8\_nat\_3\ k10\_newton\ X1)) \wedge (\exists X2.(v7\_ordinal1\ X2) \wedge (r1\_int\_1\ (k1\_newton\ X0\ X2)\ (k8\_nat\_3\ k10\_newton\ X1)))))) \tag{2}$$

Theorem 1

$$\forall X0.((v1\_relat\_1\ X0) \wedge ((v4\_relat\_1\ X0\ k10\_newton) \wedge ((v1\_funct\_1\ X0) \wedge ((v1\_partfun1\ X0\ k10\_newton) \wedge ((v4\_valued\_0\ X0) \wedge (v2\_pre\_poly\ X0)))))) \Rightarrow (\forall X1.((v7\_ordinal1\ X1) \wedge (v1\_int\_2\ X1)) \Rightarrow ((v1\_int\_7\ X0) \Rightarrow ((r1\_int\_1\ X1\ (k8\_nat\_3\ k10\_newton\ X0)) \Leftrightarrow (X1 \in k1\_polynom2\ k10\_newton\ X0))))$$