t22_polynom7 (TMUCZSbktmWCjp26kGtzh95VwJHEUn7nj4j)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $l2\_struct\_0 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k2\_polynom1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k15\_pre\_poly : \iota \Rightarrow \iota$ be given. Let $k4\_polynom7 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k6\_domain\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k16\_pre\_poly : \iota \Rightarrow \iota$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4\_polynom7 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.((\neg v2\_struct\_0\ X1) \wedge (l2\_struct\_0\ X1)) \Rightarrow (\forall X2.((v1\_funct\_1\ X2) \wedge ((v1\_funct\_2\ X2\ (k15\_pre\_poly\ X0)\ (u1\_struct\_0\ X1)) \wedge ((v4\_polynom7\ X2\ X0\ X1) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k15\_pre\_poly\ X0)\ (u1\_struct\_0\ X1))))))) \Rightarrow ((k2\_polynom1\ (k15\_pre\_poly\ X0)\ X1\ X2 = k1\_xboole\_0) \vee (k2\_polynom1\ (k15\_pre\_poly\ X0)\ X1\ X2 = k6\_domain\_1\ (k15\_pre\_poly\ X0)\ (k16\_pre\_poly\ X0)))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((\neg v2\_struct\_0\ X1) \wedge (l2\_struct\_0\ X1)) \wedge (m1\_subset\_1\ X2\ (u1\_struct\_0\ X1))) \Rightarrow ((v1\_funct\_1\ (k4\_polynom7\ X0\ X1\ X2)) \wedge ((v1\_funct\_2\ (k4\_polynom7\ X0\ X1\ X2)\ (k15\_pre\_poly\ X0)\ (u1\_struct\_0\ X1)) \wedge (v4\_polynom7\ (k4\_polynom7\ X0\ X1\ X2)\ X0\ X1))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((\neg v2\_struct\_0\ X1) \wedge (l2\_struct\_0\ X1)) \wedge (m1\_subset\_1\ X2\ (u1\_struct\_0\ X1))) \Rightarrow ((v1\_funct\_1\ (k4\_polynom7\ X0\ X1\ X2)) \wedge ((v1\_funct\_2\ (k4\_polynom7\ X0\ X1\ X2)\ (k15\_pre\_poly\ X0)\ (u1\_struct\_0\ X1)) \wedge (m1\_subset\_1\ (k4\_polynom7\ X0\ X1\ X2)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k15\_pre\_poly\ X0)\ (u1\_struct\_0\ X1)))))) \tag{3}$$

Theorem 1

$$\forall X0.\forall X1.((\neg v2\_struct\_0\ X1)\wedge(l2\_struct\_0\ X1))\Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X1))\Rightarrow((k2\_polynom1\ (k15\_pre\_poly\ X0)\ X1\ (k4\_polynom7\ X0\ X1\ X2) = k1\_xboole\_0)\vee(k2\_polynom1\ (k15\_pre\_poly\ X0)\ X1\ (k4\_polynom7\ X0\ X1\ X2) = k6\_domain\_1\ (k15\_pre\_poly\ X0)\ (k16\_pre\_poly\ X0))))$$