

# t25\_polynom7 (TMMYmqCM- pwV5pFg9vD3stLv2xhwwedcU3Fn)

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Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v7\_struct\_0 : \iota \Rightarrow o$  be given. Let  $v13\_algstr\_0 : \iota \Rightarrow o$  be given. Let  $v3\_rlvect\_1 : \iota \Rightarrow o$  be given. Let  $v4\_rlvect\_1 : \iota \Rightarrow o$  be given. Let  $v4\_vectsp\_1 : \iota \Rightarrow o$  be given. Let  $v5\_vectsp\_1 : \iota \Rightarrow o$  be given. Let  $l6\_algstr\_0 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k5\_polynom2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_polynom7 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k15\_pre\_poly : \iota \Rightarrow \iota$  be given. Let  $v4\_polynom7 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_polynom7 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $l2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $k2\_polynom7 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k16\_pre\_poly : \iota \Rightarrow \iota$  be given. Let  $l2\_algstr\_0 : \iota \Rightarrow o$  be given. Let  $l5\_algstr\_0 : \iota \Rightarrow o$  be given. Let  $l1\_struct\_0 : \iota \Rightarrow o$  be given. Let  $l1\_algstr\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned}
 & \forall X0.(v3\_ordinal1 X0) \Rightarrow (\forall X1.((\neg v7\_struct\_0 X1) \wedge \\
 & ((v13\_algstr\_0 X1) \wedge ((v3\_rlvect\_1 X1) \wedge ((v4\_rlvect\_1 X1) \wedge ((v4\_vectsp\_1 \\
 & X1) \wedge ((v5\_vectsp\_1 X1) \wedge (l6\_algstr\_0 X1)))))) \Rightarrow (\forall X2.( \\
 & (v1\_funct\_1 X2) \wedge ((v1\_funct\_2 X2 (k15\_pre\_poly X0) (u1\_struct\_0 \\
 & X1)) \wedge ((v4\_polynom7 X2 X0 X1) \wedge (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\
 & (k15\_pre\_poly X0) (u1\_struct\_0 X1)))))) \Rightarrow (\forall X3.((v1\_funct\_1 \\
 & X3) \wedge ((v1\_funct\_2 X3 X0 (u1\_struct\_0 X1)) \wedge (m1\_subset\_1 X3 (k1\_zfmisc\_1 \\
 & (k2\_zfmisc\_1 X0 (u1\_struct\_0 X1)))))) \Rightarrow (k5\_polynom2 X0 X1 X2 X3 = \\
 & k3\_polynom7 X0 X1 X2)))
 \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
 & \forall X0.\forall X1.((\neg v2\_struct\_0 X1) \wedge (l2\_struct\_0 X1)) \Rightarrow \\
 & (\forall X2.(m1\_subset\_1 X2 (u1\_struct\_0 X1)) \Rightarrow ((k2\_polynom7 \\
 & X0 X1 (k4\_polynom7 X0 X1 X2) = k16\_pre\_poly X0) \wedge (k3\_polynom7 X0 X1 \\
 & (k4\_polynom7 X0 X1 X2) = X2)))
 \end{aligned} \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((\neg v2\_struct\_0 X1)\wedge(l2\_struct\_0 X1))\wedge(m1\_subset\_1 X2 (u1\_struct\_0 X1)))\Rightarrow((v1\_funct\_1 (k4\_polynom7 X0 X1 X2))\wedge((v1\_funct\_2 (k4\_polynom7 X0 X1 X2) (k15\_pre\_poly X0 (u1\_struct\_0 X1))\wedge(v4\_polynom7 (k4\_polynom7 X0 X1 X2) X0 X1)))$$
 (3)

Assume the following.

$$\forall X0.(l6\_algstr\_0 X0)\Rightarrow((l2\_algstr\_0 X0)\wedge(l5\_algstr\_0 X0))$$
 (4)

Assume the following.

$$\forall X0.(l2\_struct\_0 X0)\Rightarrow(l1\_struct\_0 X0)$$
 (5)

Assume the following.

$$\forall X0.(l2\_algstr\_0 X0)\Rightarrow((l2\_struct\_0 X0)\wedge(l1\_algstr\_0 X0))$$
 (6)

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((\neg v2\_struct\_0 X1)\wedge(l2\_struct\_0 X1))\wedge(m1\_subset\_1 X2 (u1\_struct\_0 X1)))\Rightarrow((v1\_funct\_1 (k4\_polynom7 X0 X1 X2))\wedge((v1\_funct\_2 (k4\_polynom7 X0 X1 X2) (k15\_pre\_poly X0 (u1\_struct\_0 X1))\wedge(m1\_subset\_1 (k4\_polynom7 X0 X1 X2) (k1\_zfmisc\_1 (k2\_zfmisc\_1 (k15\_pre\_poly X0) (u1\_struct\_0 X1)))))))$$
 (7)

Assume the following.

$$\forall X0.(l1\_struct\_0 X0)\Rightarrow((v2\_struct\_0 X0)\Rightarrow(v7\_struct\_0 X0))$$
 (8)

**Theorem 1**

$$\forall X0.(v3\_ordinal1 X0)\Rightarrow(\forall X1.((\neg v7\_struct\_0 X1)\wedge((v13\_algstr\_0 X1)\wedge((v3\_rlvect\_1 X1)\wedge((v4\_rlvect\_1 X1)\wedge((v4\_vectsp\_1 X1)\wedge((v5\_vectsp\_1 X1)\wedge(l6\_algstr\_0 X1)))))))\Rightarrow(\forall X2.(m1\_subset\_1 X2 (u1\_struct\_0 X1))\Rightarrow(\forall X3.((v1\_funct\_1 X3)\wedge((v1\_funct\_2 X3 X0 (u1\_struct\_0 X1))\wedge(m1\_subset\_1 X3 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 (u1\_struct\_0 X1))))))\Rightarrow(k5\_polynom2 X0 X1 (k4\_polynom7 X0 X1 X2) X3 = X2))))$$