

# l34\_termord

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Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v1\_partfun1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k15\_pre\_poly : \iota \Rightarrow \iota$  be given. Let  $v1\_relat\_2 : \iota \Rightarrow o$  be given. Let  $v4\_relat\_2 : \iota \Rightarrow o$  be given. Let  $v6\_relat\_2 : \iota \Rightarrow o$  be given. Let  $v8\_relat\_2 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v7\_struct\_0 : \iota \Rightarrow o$  be given. Let  $l2\_struct\_0 : \iota \Rightarrow o$  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  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $v1\_polynom1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k4\_termord : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k2\_polynom1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k5\_termord : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v4\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v4\_valued\_0 : \iota \Rightarrow o$  be given. Let  $v2\_pre\_poly : \iota \Rightarrow o$  be given. Let  $k3\_polynom7 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_polynom7 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_polynom7 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k16\_pre\_poly : \iota \Rightarrow \iota$  be given. Let  $v3\_polynom7 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Let  $r6\_pboole : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $l1\_struct\_0 : \iota \Rightarrow o$  be given. Let  $k3\_polynom1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k3\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k14\_pre\_poly : \iota \Rightarrow \iota$  be given. Let  $k3\_termord : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r1\_termord : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v4\_funct\_1 : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned}
& \forall X0. \forall X1. ((\neg v2\_struct\_0 X1) \wedge (l2\_struct\_0 X1)) \Rightarrow \\
& (\forall X2. ((v1\_relat\_1 X2) \wedge ((v4\_relat\_1 X2 X0) \wedge ((v1\_funct\_1 \\
& X2) \wedge ((v1\_partfun1 X2 X0) \wedge ((v4\_valued\_0 X2) \wedge (v2\_pre\_poly X2)))))) \Rightarrow \\
& ((k3\_polynom7 X0 X1 (k1\_polynom7 X0 X1 (k4\_struct\_0 X1) X2) = k4\_struct\_0 \\
& X1) \wedge (k2\_polynom7 X0 X1 (k1\_polynom7 X0 X1 (k4\_struct\_0 X1) X2) = \\
& k16\_pre\_poly X0)))
\end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.((\neg v2\_struct\_0 X1)\wedge(l2\_struct\_0 X1))\Rightarrow \\ & (\forall X2.((v1\_funct\_1 X2)\wedge((v1\_funct\_2 X2 (k15\_pre\_poly X0) \\ & (u1\_struct\_0 X1))\wedge((v3\_polynom7 X2 X0 X1)\wedge(m1\_subset\_1 X2 (k1\_zfmisc\_1 \\ & (k2\_zfmisc\_1 (k15\_pre\_poly X0) (u1\_struct\_0 X1))))))\Rightarrow((k2\_polynom1 \\ & (k15\_pre\_poly X0) X1 X2 = k1\_xboole\_0)\vee(k2\_polynom1 (k15\_pre\_poly \\ & X0) X1 X2 = k1\_tarski (k2\_polynom7 X0 X1 X2)))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.(((v1\_relat\_1 X1)\wedge((v4\_relat\_1 \\ & X1 X0)\wedge((v1\_funct\_1 X1)\wedge(v1\_partfun1 X1 X0))))\wedge((v1\_relat\_1 \\ & X2)\wedge((v4\_relat\_1 X2 X0)\wedge((v1\_funct\_1 X2)\wedge(v1\_partfun1 X2 X0))))\Rightarrow \\ & (r6\_pboole X0 X1 X1) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.(((\neg v2\_struct\_0 \\ & X1)\wedge(l1\_struct\_0 X1))\wedge(((v1\_funct\_1 X2)\wedge((v1\_funct\_2 X2 (k15\_pre\_poly \\ & X0) (u1\_struct\_0 X1))\wedge(m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\ & (k15\_pre\_poly X0) (u1\_struct\_0 X1))))))\wedge((v1\_relat\_1 X3)\wedge(( \\ & v4\_relat\_1 X3 X0)\wedge((v1\_funct\_1 X3)\wedge((v1\_partfun1 X3 X0)\wedge((v4\_valued\_0 \\ & X3)\wedge(v2\_pre\_poly X3))))))))\Rightarrow(k3\_polynom1 X0 X1 X2 X3 = k1\_funct\_1 \\ & X2 X3) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.((\neg v1\_xboole\_0 X0)\wedge \\ & (((v1\_funct\_1 X2)\wedge((v1\_funct\_2 X2 X0 X1)\wedge(m1\_subset\_1 X2 (k1\_zfmisc\_1 \\ & (k2\_zfmisc\_1 X0 X1))))\wedge(m1\_subset\_1 X3 X0)))\Rightarrow(k3\_funct\_2 X0 \\ & X1 X2 X3 = k1\_funct\_1 X2 X3) \end{aligned} \quad (5)$$

Assume the following.

$$\forall X0.k15\_pre\_poly X0 = k14\_pre\_poly X0 \quad (6)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v3\_ordinal1 X0)\Rightarrow(\forall X1.(((v1\_partfun1 X1 (k15\_pre\_poly \\ & X0))\wedge((v1\_relat\_2 X1)\wedge((v4\_relat\_2 X1)\wedge((v6\_relat\_2 X1)\wedge(( \\ & v8\_relat\_2 X1)\wedge(m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 (k15\_pre\_poly \\ & X0) (k15\_pre\_poly X0))))))))\Rightarrow(\forall X2.((\neg v7\_struct\_0 X2)\wedge \\ & (l2\_struct\_0 X2))\Rightarrow(\forall X3.(((v1\_funct\_1 X3)\wedge((v1\_funct\_2 \\ & X3 (k15\_pre\_poly X0) (u1\_struct\_0 X2))\wedge((v1\_polynom1 X3 (k15\_pre\_poly \\ & X0) X2)\wedge(m1\_subset\_1 X3 (k1\_zfmisc\_1 (k2\_zfmisc\_1 (k15\_pre\_poly \\ & X0) (u1\_struct\_0 X2))))))\Rightarrow(k3\_polynom1 X0 X2 (k5\_termord X0 X1 \\ & X2 X3) (k3\_termord X0 X1 X2 X3) = k3\_polynom1 X0 X2 X3 (k3\_termord X0 \\ & X1 X2 X3)))))) \end{aligned} \quad (7)$$

Assume the following.

$$\forall X0. \neg v1\_xboole\_0 (k14\_pre\_poly X0) \quad (8)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((\neg v1\_xboole\_0 X0) \wedge ((\neg v1\_xboole\_0 X1) \wedge \\ & (m1\_subset\_1 X1 (k1\_zfmisc\_1 X0)))) \Rightarrow (\forall X2. (m2\_subset\_1 \\ & X2 X0 X1) \Rightarrow (m1\_subset\_1 X2 X0)) \end{aligned} \quad (9)$$

Assume the following.

$$\forall X0. (l2\_struct\_0 X0) \Rightarrow (l1\_struct\_0 X0) \quad (10)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. ((v3\_ordinal1 X0) \wedge \\ & (((v1\_partfun1 X1 (k15\_pre\_poly X0)) \wedge ((v1\_relat\_2 X1) \wedge ((v4\_relat\_2 \\ & X1) \wedge ((v6\_relat\_2 X1) \wedge ((v8\_relat\_2 X1) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 \\ & (k2\_zfmisc\_1 (k15\_pre\_poly X0) (k15\_pre\_poly X0)))))))))) \wedge (( \\ & (\neg v2\_struct\_0 X2) \wedge (l2\_struct\_0 X2)) \wedge ((v1\_funct\_1 X3) \wedge ((v1\_funct\_2 \\ & X3 (k15\_pre\_poly X0) (u1\_struct\_0 X2)) \wedge ((v1\_polynom1 X3 (k15\_pre\_poly \\ & X0) X2) \wedge (m1\_subset\_1 X3 (k1\_zfmisc\_1 (k2\_zfmisc\_1 (k15\_pre\_poly \\ & X0) (u1\_struct\_0 X2)))))))))) \Rightarrow ((v1\_funct\_1 (k5\_termord X0 X1 \\ & X2 X3)) \wedge ((v1\_funct\_2 (k5\_termord X0 X1 X2 X3) (k15\_pre\_poly X0) \\ & (u1\_struct\_0 X2)) \wedge ((v3\_polynom7 (k5\_termord X0 X1 X2 X3) X0 X2) \wedge \\ & (m1\_subset\_1 (k5\_termord X0 X1 X2 X3) (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\ & (k15\_pre\_poly X0) (u1\_struct\_0 X2))))))) \end{aligned} \quad (11)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. ((v3\_ordinal1 X0) \wedge \\ & (((v1\_partfun1 X1 (k15\_pre\_poly X0)) \wedge ((v1\_relat\_2 X1) \wedge ((v4\_relat\_2 \\ & X1) \wedge ((v6\_relat\_2 X1) \wedge ((v8\_relat\_2 X1) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 \\ & (k2\_zfmisc\_1 (k15\_pre\_poly X0) (k15\_pre\_poly X0)))))))))) \wedge (( \\ & (\neg v2\_struct\_0 X2) \wedge (l2\_struct\_0 X2)) \wedge ((v1\_funct\_1 X3) \wedge ((v1\_funct\_2 \\ & X3 (k15\_pre\_poly X0) (u1\_struct\_0 X2)) \wedge ((v1\_polynom1 X3 (k15\_pre\_poly \\ & X0) X2) \wedge (m1\_subset\_1 X3 (k1\_zfmisc\_1 (k2\_zfmisc\_1 (k15\_pre\_poly \\ & X0) (u1\_struct\_0 X2)))))))))) \Rightarrow (m2\_subset\_1 (k3\_termord X0 X1 \\ & X2 X3) (k14\_pre\_poly X0) (k15\_pre\_poly X0)) \end{aligned} \quad (12)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.(((\neg v2\_struct\_0 X1)\wedge(l2\_struct\_0 \\ & X1))\wedge((v1\_funct\_1 X2)\wedge((v1\_funct\_2 X2 (k15\_pre\_poly X0) (u1\_struct\_0 \\ & X1))\wedge((v3\_polynom7 X2 X0 X1)\wedge(m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\ & (k15\_pre\_poly X0) (u1\_struct\_0 X1))))))))\Rightarrow((v1\_relat\_1 (k2\_polynom7 \\ & X0 X1 X2))\wedge((v4\_relat\_1 (k2\_polynom7 X0 X1 X2) X0)\wedge((v1\_funct\_1 \\ & (k2\_polynom7 X0 X1 X2))\wedge((v1\_partfun1 (k2\_polynom7 X0 X1 X2) X0)\wedge \\ & ((v4\_valued\_0 (k2\_polynom7 X0 X1 X2))\wedge(v2\_pre\_poly (k2\_polynom7 \\ & X0 X1 X2))))))) \end{aligned} \tag{13}$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.((\neg v1\_xboole\_0 X0)\wedge((l2\_struct\_0 \\ & X1)\wedge((v1\_funct\_1 X2)\wedge((v1\_funct\_2 X2 X0 (u1\_struct\_0 X1))\wedge(m1\_subset\_1 \\ & X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 (u1\_struct\_0 X1))))))))\Rightarrow(m1\_subset\_1 \\ & (k2\_polynom1 X0 X1 X2) (k1\_zfmisc\_1 X0)) \end{aligned} \tag{14}$$

Assume the following.

$$\forall X0.m2\_subset\_1 (k16\_pre\_poly X0) (k14\_pre\_poly X0) (k15\_pre\_poly X0) \tag{15}$$

Assume the following.

$$\forall X0.m1\_subset\_1 (k15\_pre\_poly X0) (k1\_zfmisc\_1 (k14\_pre\_poly X0)) \tag{16}$$

Assume the following.

$$\begin{aligned} & \forall X0.(v3\_ordinal1 X0)\Rightarrow(\forall X1.((v1\_partfun1 X1 (k15\_pre\_poly \\ & X0))\wedge((v1\_relat\_2 X1)\wedge((v4\_relat\_2 X1)\wedge((v6\_relat\_2 X1)\wedge(( \\ & v8\_relat\_2 X1)\wedge(m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 (k15\_pre\_poly \\ & X0) (k15\_pre\_poly X0))))))))\Rightarrow(\forall X2.((\neg v2\_struct\_0 X2)\wedge \\ & (l2\_struct\_0 X2))\Rightarrow(\forall X3.((v1\_funct\_1 X3)\wedge((v1\_funct\_2 \\ & X3 (k15\_pre\_poly X0) (u1\_struct\_0 X2))\wedge((v1\_polynom1 X3 (k15\_pre\_poly \\ & X0) X2)\wedge(m1\_subset\_1 X3 (k1\_zfmisc\_1 (k2\_zfmisc\_1 (k15\_pre\_poly \\ & X0) (u1\_struct\_0 X2))))))))\Rightarrow(k5\_termord X0 X1 X2 X3 = k1\_polynom7 \\ & X0 X2 (k4\_termord X0 X1 X2 X3) (k3\_termord X0 X1 X2 X3)))) \end{aligned} \tag{17}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(v3\_ordinal1\ X0) \Rightarrow (\forall X1.((v1\_partfun1\ X1\ (k15\_pre\_poly \\
& \quad X0)) \wedge ((v1\_relat\_2\ X1) \wedge ((v4\_relat\_2\ X1) \wedge ((v6\_relat\_2\ X1) \wedge (( \\
& \quad v8\_relat\_2\ X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k15\_pre\_poly \\
& \quad \quad X0)\ (k15\_pre\_poly\ X0)))))))))) \Rightarrow (\forall X2.((\neg v2\_struct\_0\ X2) \wedge \\
& \quad (l2\_struct\_0\ X2)) \Rightarrow (\forall X3.((v1\_funct\_1\ X3) \wedge ((v1\_funct\_2 \\
& \quad X3\ (k15\_pre\_poly\ X0)\ (u1\_struct\_0\ X2)) \wedge ((v1\_polynom1\ X3\ (k15\_pre\_poly \\
& \quad \quad X0)\ X2) \wedge (m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k15\_pre\_poly \\
& \quad \quad \quad X0)\ (u1\_struct\_0\ X2))))))) \Rightarrow (k4\_termord\ X0\ X1\ X2\ X3 = k3\_polynom1 \\
& \quad \quad \quad X0\ X2\ X3\ (k3\_termord\ X0\ X1\ X2\ X3))))
\end{aligned} \tag{18}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(v3\_ordinal1\ X0) \Rightarrow (\forall X1.((v1\_partfun1\ X1\ (k15\_pre\_poly \\
& \quad X0)) \wedge ((v1\_relat\_2\ X1) \wedge ((v4\_relat\_2\ X1) \wedge ((v6\_relat\_2\ X1) \wedge (( \\
& \quad v8\_relat\_2\ X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k15\_pre\_poly \\
& \quad \quad X0)\ (k15\_pre\_poly\ X0)))))))))) \Rightarrow (\forall X2.((\neg v2\_struct\_0\ X2) \wedge \\
& \quad (l2\_struct\_0\ X2)) \Rightarrow (\forall X3.((v1\_funct\_1\ X3) \wedge ((v1\_funct\_2 \\
& \quad X3\ (k15\_pre\_poly\ X0)\ (u1\_struct\_0\ X2)) \wedge ((v1\_polynom1\ X3\ (k15\_pre\_poly \\
& \quad \quad X0)\ X2) \wedge (m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k15\_pre\_poly \\
& \quad \quad \quad X0)\ (u1\_struct\_0\ X2))))))) \Rightarrow (\forall X4.(m2\_subset\_1\ X4\ (k14\_pre\_poly \\
& \quad X0)\ (k15\_pre\_poly\ X0)) \Rightarrow ((X4 = k3\_termord\ X0\ X1\ X2\ X3) \Leftrightarrow (((k2\_polynom1 \\
& \quad (k15\_pre\_poly\ X0)\ X2\ X3 = k1\_xboole\_0) \wedge (r6\_pboole\ X0\ X4\ (k16\_pre\_poly \\
& \quad \quad X0))) \vee ((X4 \in k2\_polynom1\ (k15\_pre\_poly\ X0)\ X2\ X3) \wedge (\forall X5. \\
& \quad ((v1\_relat\_1\ X5) \wedge ((v4\_relat\_1\ X5\ X0) \wedge ((v1\_funct\_1\ X5) \wedge ((v1\_partfun1 \\
& \quad \quad X5\ X0) \wedge ((v4\_valued\_0\ X5) \wedge (v2\_pre\_poly\ X5)))))) \Rightarrow ((X5 \in k2\_polynom1 \\
& \quad (k15\_pre\_poly\ X0)\ X2\ X3) \Rightarrow (r1\_termord\ X0\ X1\ X5\ X4))))))
\end{aligned} \tag{19}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.(l2\_struct\_0\ X1) \Rightarrow ( \\
& \quad \forall X2.((v1\_funct\_1\ X2) \wedge ((v1\_funct\_2\ X2\ X0\ (u1\_struct\_0\ X1)) \wedge \\
& \quad (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ (u1\_struct\_0\ X1)))))) \Rightarrow \\
& \quad (\forall X3.(m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ X0)) \Rightarrow ((X3 = k2\_polynom1 \\
& \quad X0\ X1\ X2) \Leftrightarrow (\forall X4.(m1\_subset\_1\ X4\ X0) \Rightarrow ((X4 \in X3) \Leftrightarrow (k3\_funct\_2 \\
& \quad \quad X0\ (u1\_struct\_0\ X1)\ X2\ X4 \neq k4\_struct\_0\ X1))))))
\end{aligned} \tag{20}$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k1\_tarski\ X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow (X2 = X0)) \tag{21}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k15\_pre\_poly\ X0))) \Rightarrow (v4\_funct\_1\ X1) \tag{22}$$

Assume the following.

$$\forall X0.(v4\_funct\_1 X0) \Rightarrow (\forall X1.(m1\_subset\_1 X1 X0) \Rightarrow (v1\_relat\_1 X1) \wedge (v1\_funct\_1 X1)) \quad (23)$$

Assume the following.

$$\forall X0.(l1\_struct\_0 X0) \Rightarrow ((v2\_struct\_0 X0) \Rightarrow (v7\_struct\_0 X0)) \quad (24)$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0 X1) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k15\_pre\_poly X0)))) \Rightarrow (\forall X2.(m1\_subset\_1 X2 X1) \Rightarrow ((v1\_partfun1 X2 X0) \wedge ((v4\_valued\_0 X2) \wedge (v2\_pre\_poly X2)))) \quad (25)$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1 X1 (k1\_zfmisc\_1 (k15\_pre\_poly X0))) \Rightarrow (\forall X2.(m1\_subset\_1 X2 X1) \Rightarrow (v4\_relat\_1 X2 X0)) \quad (26)$$

**Theorem 1**

$$\begin{aligned} & \forall X0.(v3\_ordinal1 X0) \Rightarrow (\forall X1.((v1\_partfun1 X1 (k15\_pre\_poly X0)) \wedge ((v1\_relat\_2 X1) \wedge ((v4\_relat\_2 X1) \wedge ((v6\_relat\_2 X1) \wedge ((v8\_relat\_2 X1) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 (k15\_pre\_poly X0) (k15\_pre\_poly X0)))))))))) \Rightarrow (\forall X2.((\neg v7\_struct\_0 X2) \wedge (l2\_struct\_0 X2)) \Rightarrow (\forall X3.((v1\_funct\_1 X3) \wedge ((v1\_funct\_2 X3 (k15\_pre\_poly X0) (u1\_struct\_0 X2)) \wedge ((v1\_polynom1 X3 (k15\_pre\_poly X0) X2) \wedge (m1\_subset\_1 X3 (k1\_zfmisc\_1 (k2\_zfmisc\_1 (k15\_pre\_poly X0) (u1\_struct\_0 X2)))))) \Rightarrow ((k4\_termord X0 X1 X2 X3 = k4\_struct\_0 X2) \Rightarrow (k2\_polynom1 (k15\_pre\_poly X0) X2 (k5\_termord X0 X1 X2 X3) = k1\_xboole\_0)))))) \end{aligned}$$