

l37_ratfunc1

(TMd3tyNFf86YPfJcmxfFcpfnYyWcNdcLKEEn)

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Let $v7_struct_0 : \iota \Rightarrow o$ be given. Let $v13_algstr_0 : \iota \Rightarrow o$ be given. Let $v3_group_1 : \iota \Rightarrow o$ be given. Let $v5_group_1 : \iota \Rightarrow o$ be given. Let $v4_vectsp_1 : \iota \Rightarrow o$ be given. Let $v5_vectsp_1 : \iota \Rightarrow o$ be given. Let $v2_rlvect_1 : \iota \Rightarrow o$ be given. Let $v3_rlvect_1 : \iota \Rightarrow o$ be given. Let $v4_rlvect_1 : \iota \Rightarrow o$ be given. Let $v1_vectsp_2 : \iota \Rightarrow o$ be given. Let $l6_algstr_0 : \iota \Rightarrow o$ be given. Let $m1_ratfunc1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v5_ratfunc1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $k5_numbers : \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v1_algseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_ratfunc1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $k3_ratfunc1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_polynom3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_ratfunc1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_ratfunc1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k14_polynom3 : \iota \Rightarrow \iota$ be given. Let $k3_group_4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_finseq_1 : \iota \Rightarrow \iota$ be given. Let $r1_ratfunc1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_hurwitz : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v1_group_1 : \iota \Rightarrow o$ be given. Let $l3_algstr_0 : \iota \Rightarrow o$ be given. Let $k6_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_group_1 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v1_vectsp_1 : \iota \Rightarrow o$ be given. Let $r2_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k11_polynom3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_polynom3 : \iota \Rightarrow \iota$ be given. Let $l5_algstr_0 : \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $l4_algstr_0 : \iota \Rightarrow o$ be given. Let $k5_struct_0 : \iota \Rightarrow \iota$ be given. Let $v6_struct_0 : \iota \Rightarrow o$ be given. Let $v36_algstr_0 : \iota \Rightarrow o$ be given. Let $l2_algstr_0 : \iota \Rightarrow o$ be given. Let $l4_struct_0 : \iota \Rightarrow o$ be given. Let $l3_struct_0 : \iota \Rightarrow o$ be given. Let $l2_struct_0 : \iota \Rightarrow o$ be given. Let $l1_struct_0 : \iota \Rightarrow o$ be given. Let $l1_algstr_0 : \iota \Rightarrow o$ be given. Let $k1_algstr_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_normsp_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_algstr_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_struct_0 : \iota \Rightarrow \iota$ be given. Let $k9_polynom3 : \iota \Rightarrow \iota$ be given. Let $v3_vectsp_1 : \iota \Rightarrow o$ be given. Let $v6_vectsp_1 :$

$\iota \Rightarrow o$ be given. Let $v2_vectsp_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((v1_group_1 X0) \wedge (l3_algstr_0 X0))) \Rightarrow (k3_group_4 X0 (k6_finseq_1 (u1_struct_0 X0)) = k1_group_1 X0) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \neg (X0 \in X1) \wedge (v1_xboole_0 X1) \quad (2)$$

Assume the following.

$$\forall X0. (v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge ((v13_algstr_0 X0) \wedge ((v1_vectsp_1 X0) \wedge ((v4_vectsp_1 X0) \wedge ((v3_rlvect_1 X0) \wedge ((v4_rlvect_1 X0) \wedge (l6_algstr_0 X0))))))) \Rightarrow (\forall X1. ((v1_funct_1 X1) \wedge ((v1_funct_2 X1 k5_numbers (u1_struct_0 X0)) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers (u1_struct_0 X0)))))) \Rightarrow (r2_funct_2 k5_numbers (u1_struct_0 X0) (k11_polynom3 X0 X1 (k10_polynom3 X0)) X1)) \quad (4) \end{aligned}$$

Assume the following.

$$\forall X0. ((\neg v7_struct_0 X0) \wedge (l5_algstr_0 X0)) \Rightarrow (\forall X1. (m1_ratfunc1 X1 X0) \Rightarrow (X1 = k3_ratfunc1 X0 (k4_ratfunc1 X0 X1) (k5_ratfunc1 X0 X1))) \quad (5)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. (((v1_funct_1 X2) \wedge ((v1_funct_2 X2 X0 X1) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))))) \wedge ((v1_funct_1 X3) \wedge ((v1_funct_2 X3 X0 X1) \wedge (m1_subset_1 X3 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))))) \Rightarrow ((r2_funct_2 X0 X1 X2 X3) \Leftrightarrow (X2 = X3)) \quad (6) \end{aligned}$$

Assume the following.

$$\forall X0. ((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow (k4_finseq_1 X0 = k9_xtuple_0 X0) \quad (7)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (((\neg v2_struct_0 X0) \wedge ((v5_group_1 X0) \wedge ((v2_rlvect_1 X0) \wedge ((v3_rlvect_1 X0) \wedge ((v4_rlvect_1 X0) \wedge (l6_algstr_0 X0)))))) \wedge (((v1_funct_1 X1) \wedge ((v1_funct_2 X1 k5_numbers (u1_struct_0 X0)) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers (u1_struct_0 X0)))))) \wedge ((v1_funct_1 X2) \wedge ((v1_funct_2 X2 k5_numbers (u1_struct_0 X0)) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers (u1_struct_0 X0))))))))) \Rightarrow (k13_polynom3 X0 X1 X2 = k11_polynom3 X0 X1 X2) \quad (8) \end{aligned}$$

Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((v4_vectsp_1 X0) \wedge (l4_algstr_0 X0))) \Rightarrow (k1_group_1 X0 = k5_struct_0 X0) \quad (9)$$

Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge (l5_algstr_0 X0)) \Rightarrow ((v1_funct_1 (k10_polynom3 X0)) \wedge ((v1_funct_2 (k10_polynom3 X0) k5_numbers (u1_struct_0 X0)) \wedge (v1_algseq_1 (k10_polynom3 X0) X0))) \quad (10)$$

Assume the following.

$$\forall X0.((\neg v6_struct_0 X0) \wedge (l5_algstr_0 X0)) \Rightarrow ((v1_funct_1 (k10_polynom3 X0)) \wedge ((v1_funct_2 (k10_polynom3 X0) k5_numbers (u1_struct_0 X0)) \wedge (\neg v1_ratfunc1 (k10_polynom3 X0) X0))) \quad (11)$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \quad (12)$$

Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((v13_algstr_0 X0) \wedge ((v5_group_1 X0) \wedge ((v4_vectsp_1 X0) \wedge ((v5_vectsp_1 X0) \wedge ((v2_rlvect_1 X0) \wedge ((v3_rlvect_1 X0) \wedge ((v4_rlvect_1 X0) \wedge (l6_algstr_0 X0)))))))))) \Rightarrow ((\neg v2_struct_0 (k14_polynom3 X0)) \wedge ((v36_algstr_0 (k14_polynom3 X0)) \wedge (v4_vectsp_1 (k14_polynom3 X0)))) \quad (13)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (v1_xboole_0 (k9_xtuple_0 X0)) \quad (14)$$

Assume the following.

$$\forall X0.\forall X1.(m2_finseq_1 X1 X0) \Rightarrow ((v1_funct_1 X1) \wedge ((v1_finseq_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers X0)))))) \quad (15)$$

Assume the following.

$$\forall X0.(l6_algstr_0 X0) \Rightarrow ((l2_algstr_0 X0) \wedge (l5_algstr_0 X0)) \quad (16)$$

Assume the following.

$$\forall X0.(l5_algstr_0 X0) \Rightarrow ((l4_algstr_0 X0) \wedge (l4_struct_0 X0)) \quad (17)$$

Assume the following.

$$\forall X0.(l4_algstr_0 X0) \Rightarrow ((l3_struct_0 X0) \wedge (l3_algstr_0 X0)) \quad (18)$$

Assume the following.

$$\forall X0.(l2_struct_0 X0) \Rightarrow (l1_struct_0 X0) \quad (19)$$

Assume the following.

$$\forall X0.(l2_algstr_0 X0) \Rightarrow ((l2_struct_0 X0) \wedge (l1_algstr_0 X0)) \quad (20)$$

Assume the following.

$$\forall X0.m2_finseq_1 (k6_finseq_1 X0) X0 \quad (21)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.(((\neg v7_struct_0 X0) \wedge (l5_algstr_0 X0)) \wedge \\ & (m1_ratfunc1 X1 X0)) \Rightarrow ((v1_funct_1 (k5_ratfunc1 X0 X1)) \wedge ((v1_funct_2 \\ & (k5_ratfunc1 X0 X1) k5_numbers (u1_struct_0 X0)) \wedge ((v1_algseq_1 \\ & (k5_ratfunc1 X0 X1) X0) \wedge ((\neg v1_ratfunc1 (k5_ratfunc1 X0 X1) X0) \wedge \\ & (m1_subset_1 (k5_ratfunc1 X0 X1) (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers \\ & (u1_struct_0 X0)))))))) \quad (22) \end{aligned}$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.(((\neg v7_struct_0 X0) \wedge (l5_algstr_0 X0)) \wedge \\ & (m1_ratfunc1 X1 X0)) \Rightarrow ((v1_funct_1 (k4_ratfunc1 X0 X1)) \wedge ((v1_funct_2 \\ & (k4_ratfunc1 X0 X1) k5_numbers (u1_struct_0 X0)) \wedge ((v1_algseq_1 \\ & (k4_ratfunc1 X0 X1) X0) \wedge (m1_subset_1 (k4_ratfunc1 X0 X1) (k1_zfmisc_1 \\ & (k2_zfmisc_1 k5_numbers (u1_struct_0 X0)))))) \quad (23) \end{aligned}$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v13_algstr_0 X0) \wedge ((v5_vectsp_1 \\ & X0) \wedge ((v3_rlvect_1 X0) \wedge ((v4_rlvect_1 X0) \wedge (l6_algstr_0 X0)))))) \Rightarrow \\ & ((\neg v2_struct_0 (k14_polynom3 X0)) \wedge ((v36_algstr_0 (k14_polynom3 \\ & X0)) \wedge (l6_algstr_0 (k14_polynom3 X0)))) \quad (24) \end{aligned}$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.(((\neg v2_struct_0 X0) \wedge ((v5_group_1 \\ & X0) \wedge ((v2_rlvect_1 X0) \wedge ((v3_rlvect_1 X0) \wedge ((v4_rlvect_1 X0) \wedge \\ & (l6_algstr_0 X0)))))) \wedge ((v1_funct_1 X1) \wedge ((v1_funct_2 X1 k5_numbers \\ & (u1_struct_0 X0)) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 \\ & k5_numbers (u1_struct_0 X0)))))) \wedge ((v1_funct_1 X2) \wedge ((v1_funct_2 \\ & X2 k5_numbers (u1_struct_0 X0)) \wedge (m1_subset_1 X2 (k1_zfmisc_1 \\ & (k2_zfmisc_1 k5_numbers (u1_struct_0 X0)))))) \Rightarrow ((v1_funct_1 \\ & (k13_polynom3 X0 X1 X2)) \wedge ((v1_funct_2 (k13_polynom3 X0 X1 X2) k5_numbers \\ & (u1_struct_0 X0)) \wedge (m1_subset_1 (k13_polynom3 X0 X1 X2) (k1_zfmisc_1 \\ & (k2_zfmisc_1 k5_numbers (u1_struct_0 X0)))))) \quad (25) \end{aligned}$$

Assume the following.

$$\begin{aligned} \forall X0.((\neg v2_struct_0 X0) \wedge (l5_algstr_0 X0)) \Rightarrow ((v1_funct_1 \\ (k10_polynom3 X0)) \wedge ((v1_funct_2 (k10_polynom3 X0) k5_numbers \\ (u1_struct_0 X0)) \wedge (m1_subset_1 (k10_polynom3 X0) (k1_zfmisc_1 \\ (k2_zfmisc_1 k5_numbers (u1_struct_0 X0)))))) \end{aligned} \quad (26)$$

Assume the following.

$$\forall X0.k6_finseq_1 X0 = k1_xboole_0 \quad (27)$$

Assume the following.

$$\begin{aligned} \forall X0.((\neg v2_struct_0 X0) \wedge ((v13_algstr_0 X0) \wedge ((v5_vectsp_1 \\ X0) \wedge ((v3_rlvect_1 X0) \wedge ((v4_rlvect_1 X0) \wedge (l6_algstr_0 X0)))))) \Rightarrow \\ (\forall X1.((\neg v2_struct_0 X1) \wedge ((v36_algstr_0 X1) \wedge (l6_algstr_0 \\ X1))) \Rightarrow ((X1 = k14_polynom3 X0) \Leftrightarrow ((\forall X2.(X2 \in u1_struct_0 X1) \Leftrightarrow \\ ((v1_funct_1 X2) \wedge ((v1_funct_2 X2 k5_numbers (u1_struct_0 X0)) \wedge \\ ((v1_algseq_1 X2 X0) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 \\ k5_numbers (u1_struct_0 X0)))))) \wedge ((\forall X2.(m1_subset_1 \\ X2 (u1_struct_0 X1)) \Rightarrow (\forall X3.(m1_subset_1 X3 (u1_struct_0 \\ X1)) \Rightarrow (\forall X4.((v1_funct_1 X4) \wedge ((v1_funct_2 X4 k5_numbers \\ (u1_struct_0 X0)) \wedge (m1_subset_1 X4 (k1_zfmisc_1 (k2_zfmisc_1 \\ k5_numbers (u1_struct_0 X0)))))) \Rightarrow (\forall X5.((v1_funct_1 X5) \wedge \\ ((v1_funct_2 X5 k5_numbers (u1_struct_0 X0)) \wedge (m1_subset_1 X5 \\ (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers (u1_struct_0 X0)))))) \Rightarrow \\ (((X2 = X4) \wedge (X3 = X5)) \Rightarrow (k1_algstr_0 X1 X2 X3 = k2_normsp_1 X0 X4 X5)))))) \wedge \\ ((\forall X2.(m1_subset_1 X2 (u1_struct_0 X1)) \Rightarrow (\forall X3.(\\ m1_subset_1 X3 (u1_struct_0 X1)) \Rightarrow (\forall X4.((v1_funct_1 X4) \wedge \\ ((v1_funct_2 X4 k5_numbers (u1_struct_0 X0)) \wedge (m1_subset_1 X4 \\ (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers (u1_struct_0 X0)))))) \Rightarrow \\ (\forall X5.((v1_funct_1 X5) \wedge ((v1_funct_2 X5 k5_numbers (u1_struct_0 \\ X0)) \wedge (m1_subset_1 X5 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers (u1_struct_0 \\ X0)))))) \Rightarrow (((X2 = X4) \wedge (X3 = X5)) \Rightarrow (k6_algstr_0 X1 X2 X3 = k11_polynom3 \\ X0 X4 X5)))))) \wedge ((k4_struct_0 X1 = k9_polynom3 X0) \wedge (k5_struct_0 \\ X1 = k10_polynom3 X0)))))) \end{aligned} \quad (28)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.\forall X2.(((\neg v2_struct_0 X0) \wedge ((v5_group_1 \\ X0) \wedge ((v2_rlvect_1 X0) \wedge ((v3_rlvect_1 X0) \wedge ((v4_rlvect_1 X0) \wedge \\ (l6_algstr_0 X0)))))) \wedge (((v1_funct_1 X1) \wedge ((v1_funct_2 X1 k5_numbers \\ (u1_struct_0 X0)) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 \\ k5_numbers (u1_struct_0 X0)))))) \wedge ((v1_funct_1 X2) \wedge ((v1_funct_2 \\ X2 k5_numbers (u1_struct_0 X0)) \wedge (m1_subset_1 X2 (k1_zfmisc_1 \\ (k2_zfmisc_1 k5_numbers (u1_struct_0 X0))))))))) \Rightarrow (k13_polynom3 \\ X0 X1 X2 = k13_polynom3 X0 X2 X1) \end{aligned} \quad (29)$$

Assume the following.

$$\forall X0.(l4_algstr_0 X0) \Rightarrow (((\neg v2_struct_0 X0) \wedge (v4_vectsp_1 X0)) \Rightarrow ((\neg v2_struct_0 X0) \wedge (v1_group_1 X0))) \quad (30)$$

Assume the following.

$$\forall X0.(l4_algstr_0 X0) \Rightarrow (((\neg v2_struct_0 X0) \wedge (v4_vectsp_1 X0)) \Rightarrow ((\neg v2_struct_0 X0) \wedge ((v3_vectsp_1 X0) \wedge (v6_vectsp_1 X0)))) \quad (31)$$

Assume the following.

$$\forall X0.(l6_algstr_0 X0) \Rightarrow (((\neg v2_struct_0 X0) \wedge (v5_vectsp_1 X0)) \Rightarrow ((\neg v2_struct_0 X0) \wedge ((v1_vectsp_1 X0) \wedge (v2_vectsp_1 X0)))) \quad (32)$$

Assume the following.

$$\forall X0.(l1_struct_0 X0) \Rightarrow ((v2_struct_0 X0) \Rightarrow (v7_struct_0 X0)) \quad (33)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (v1_relat_1 X0) \quad (34)$$

Assume the following.

$$\forall X0.(l6_algstr_0 X0) \Rightarrow (((\neg v2_struct_0 X0) \wedge ((v6_struct_0 X0) \wedge ((v13_algstr_0 X0) \wedge ((v1_vectsp_1 X0) \wedge ((v3_vectsp_1 X0) \wedge ((v3_rlvect_1 X0) \wedge (v4_rlvect_1 X0)))))))) \Rightarrow ((\neg v2_struct_0 X0) \wedge ((v7_struct_0 X0) \wedge ((v13_algstr_0 X0) \wedge ((v1_vectsp_1 X0) \wedge ((v3_vectsp_1 X0) \wedge ((v3_rlvect_1 X0) \wedge (v4_rlvect_1 X0)))))))) \quad (35)$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v7_struct_0 X0) \wedge ((v13_algstr_0 X0) \wedge ((v3_group_1 X0) \wedge ((v5_group_1 X0) \wedge ((v4_vectsp_1 X0) \wedge ((v5_vectsp_1 X0) \wedge ((v2_rlvect_1 X0) \wedge ((v3_rlvect_1 X0) \wedge ((v4_rlvect_1 X0) \wedge ((v1_vectsp_2 X0) \wedge (l6_algstr_0 X0)))))))))) \Rightarrow (\forall X1.(m1_ratfunc1 X1 X0) \Rightarrow (\neg (v5_ratfunc1 X1 X0) \wedge (\forall X2.(m1_ratfunc1 X2 X0) \Rightarrow (\forall X3. ((v1_funct_1 X3) \wedge ((v1_funct_2 X3 k5_numbers (u1_struct_0 X0)) \wedge ((v1_algseq_1 X3 X0) \wedge ((\neg v1_ratfunc1 X3 X0) \wedge (m1_subset_1 X3 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers (u1_struct_0 X0)))))))))) \Rightarrow (\neg (X1 = k3_ratfunc1 X0 (k13_polynom3 X0 X3 (k4_ratfunc1 X0 X2)) (k13_polynom3 X0 X3 (k5_ratfunc1 X0 X2))) \wedge ((v5_ratfunc1 X2 X0) \wedge (\exists X4.(m2_finseq_1 X4 (u1_struct_0 (k14_polynom3 X0))) \wedge ((X3 = k3_group_4 (k14_polynom3 X0) X4) \wedge (\forall X5.(m1_subset_1 X5 k5_numbers) \Rightarrow (\neg (X5 \in k4_finseq_1 X4) \wedge (\forall X6.(m1_subset_1 X6 (u1_struct_0 X0)) \Rightarrow (\neg (r1_ratfunc1 X0 (k4_ratfunc1 X0 X1) (k5_ratfunc1 X0 X1) X6) \wedge (k1_funct_1 X4 X5 = k3_hurwitz X0 X6 np_1)))))))))))))) \end{aligned}$$