

OpenGeoProver Output for conjecture “geothm_zadatak”

Wu’s method used

October 1, 2016

1 Invoking the theorem prover

The used proving method is Wu’s method.

The input system is:

$$\begin{aligned} p_1 &= -x_3 + x_1 \\ p_2 &= -x_3 + x_2 \\ p_3 &= x_4 + x_1 - \\ p_4 &= -x_4 + x_2 \\ p_5 &= -x_7 + x_5 \\ p_6 &= -x_7 + x_6 \\ p_7 &= -x_8 + x_5 \\ p_8 &= x_8 + x_6 - \\ p_9 &= -x_{11} + x_9 \\ p_{10} &= -x_{11} + x_{10} \\ p_{11} &= -x_{12} + x_9 \\ p_{12} &= x_{12} + x_{10} - \\ p_{13} &= x_{13} + x_{10}x_2 + x_9x_6 - x_6x_2 \\ p_{14} &= x_{14} + x_{10}x_5 - x_{10}x_1 + x_6x_1 \\ p_{15} &= x_{15} - x_9x_5 + x_9x_1 + x_5x_2 \\ p_{16} &= x_{16} + x_{14}x_2 + x_{13}x_1 \\ p_{17} &= x_{17} + 1 \\ p_{18} &= x_{18} + 1 \\ p_{19} &= x_{19} + 1 \\ p_{20} &= -x_{23}x_{17} + x_{20} \\ p_{21} &= -x_{23}x_{18} + x_{21} \\ p_{22} &= -x_{23}x_{19} + x_{22} \\ p_{23} &= x_{22}x_{15} + x_{21}x_{14} + x_{20}x_{13} + x_{16} \end{aligned}$$

1.1 Triangulation, step 1

Choosing variable: Trying the variable with index 23.

Variable x_{23} selected: The number of polynomials with this variable, with indexes from 1 to 23, is 3.

Minimal degrees: 3 polynomial(s) with degree 1.

Polynomial with linear degree: Removing variable x_{23} from all other polynomials by reducing them with polynomial p_{20} from previous step.

Finished a triangulation step, the current system is:

$$\begin{aligned} p_1 &= -x_3 + x_1 \\ p_2 &= -x_3 + x_2 \\ p_3 &= x_4 + x_1 - \\ p_4 &= -x_4 + x_2 \\ p_5 &= -x_7 + x_5 \\ p_6 &= -x_7 + x_6 \\ p_7 &= -x_8 + x_5 \\ p_8 &= x_8 + x_6 - \\ p_9 &= -x_{11} + x_9 \\ p_{10} &= -x_{11} + x_{10} \\ p_{11} &= -x_{12} + x_9 \\ p_{12} &= x_{12} + x_{10} - \\ p_{13} &= x_{13} + x_{10}x_2 + x_9x_6 - x_6x_2 \\ p_{14} &= x_{14} + x_{10}x_5 - x_{10}x_1 + x_6x_1 \\ p_{15} &= x_{15} - x_9x_5 + x_9x_1 + x_5x_2 \\ p_{16} &= x_{16} + x_{14}x_2 + x_{13}x_1 \\ p_{17} &= x_{17} + 1 \\ p_{18} &= x_{18} + 1 \\ p_{19} &= x_{19} + 1 \\ p_{20} &= x_{22}x_{15} + x_{21}x_{14} + x_{20}x_{13} + x_{16} \\ p_{21} &= -x_{21}x_{17} + x_{20}x_{18} \\ p_{22} &= -x_{22}x_{17} + x_{20}x_{19} \\ p_{23} &= -x_{23}x_{17} + x_{20} \end{aligned}$$

1.2 Triangulation, step 2

Choosing variable: Trying the variable with index 22.

Variable x_{22} selected: The number of polynomials with this variable, with indexes from 1 to 22, is 2.

Minimal degrees: 2 polynomial(s) with degree 1.

Polynomial with linear degree: Removing variable x_{22} from all other polynomials by reducing them with polynomial p_{20} from previous step.

Finished a triangulation step, the current system is:

$$\begin{aligned}
p_1 &= -x_3 + x_1 \\
p_2 &= -x_3 + x_2 \\
p_3 &= x_4 + x_1 - \\
p_4 &= -x_4 + x_2 \\
p_5 &= -x_7 + x_5 \\
p_6 &= -x_7 + x_6 \\
p_7 &= -x_8 + x_5 \\
p_8 &= x_8 + x_6 - \\
p_9 &= -x_{11} + x_9 \\
p_{10} &= -x_{11} + x_{10} \\
p_{11} &= -x_{12} + x_9 \\
p_{12} &= x_{12} + x_{10} - \\
p_{13} &= x_{13} + x_{10}x_2 + x_9x_6 - x_6x_2 \\
p_{14} &= x_{14} + x_{10}x_5 - x_{10}x_1 + x_6x_1 \\
p_{15} &= x_{15} - x_9x_5 + x_9x_1 + x_5x_2 \\
p_{16} &= x_{16} + x_{14}x_2 + x_{13}x_1 \\
p_{17} &= x_{17} + 1 \\
p_{18} &= x_{18} + 1 \\
p_{19} &= x_{19} + 1 \\
p_{20} &= -x_{21}x_{17} + x_{20}x_{18} \\
p_{21} &= x_{21}x_{17}x_{14} + x_{20}x_{19}x_{15} + x_{20}x_{17}x_{13} + x_{17}x_{16} \\
p_{22} &= x_{22}x_{15} + x_{21}x_{14} + x_{20}x_{13} + x_{16} \\
p_{23} &= -x_{23}x_{17} + x_{20}
\end{aligned}$$

1.3 Triangulation, step 3

Choosing variable: Trying the variable with index 21.

Variable x_{21} selected: The number of polynomials with this variable, with indexes from 1 to 21, is 2.

Minimal degrees: 2 polynomial(s) with degree 1.

Polynomial with linear degree: Removing variable x_{21} from all other polynomials by reducing them with polynomial p_{20} from previous step.

Finished a triangulation step, the current system is:

$$p_1 = -x_3 + x_1$$

$$\begin{aligned}
p_2 &= -x_3 + x_2 \\
p_3 &= x_4 + x_1 - \\
p_4 &= -x_4 + x_2 \\
p_5 &= -x_7 + x_5 \\
p_6 &= -x_7 + x_6 \\
p_7 &= -x_8 + x_5 \\
p_8 &= x_8 + x_6 - \\
p_9 &= -x_{11} + x_9 \\
p_{10} &= -x_{11} + x_{10} \\
p_{11} &= -x_{12} + x_9 \\
p_{12} &= x_{12} + x_{10} - \\
p_{13} &= x_{13} + x_{10}x_2 + x_9x_6 - x_6x_2 \\
p_{14} &= x_{14} + x_{10}x_5 - x_{10}x_1 + x_6x_1 \\
p_{15} &= x_{15} - x_9x_5 + x_9x_1 + x_5x_2 \\
p_{16} &= x_{16} + x_{14}x_2 + x_{13}x_1 \\
p_{17} &= x_{17} + 1 \\
p_{18} &= x_{18} + 1 \\
p_{19} &= x_{19} + 1 \\
p_{20} &= -x_{20}x_{19}x_{17}x_{15} - x_{20}x_{18}x_{17}x_{14} - x_{20}x_{17}^2x_{13} - x_{17}^2x_{16} \\
p_{21} &= -x_{21}x_{17} + x_{20}x_{18} \\
p_{22} &= x_{22}x_{15} + x_{21}x_{14} + x_{20}x_{13} + x_{16} \\
p_{23} &= -x_{23}x_{17} + x_{20}
\end{aligned}$$

1.4 Triangulation, step 4

Choosing variable: Trying the variable with index 20.

Variable x_{20} selected: The number of polynomials with this variable, with indexes from 1 to 20, is 1.

Single polynomial with chosen variable: Chosen polynomial is p_{20} . No reduction needed.

The triangular system has not been changed.

1.5 Triangulation, step 5

Choosing variable: Trying the variable with index 19.

Variable x_{19} selected: The number of polynomials with this variable, with indexes from 1 to 19, is 1.

Single polynomial with chosen variable: Chosen polynomial is p_{19} . No reduction needed.

The triangular system has not been changed.

1.6 Triangulation, step 6

Choosing variable: Trying the variable with index 18.

Variable x_{18} selected: The number of polynomials with this variable, with indexes from 1 to 18, is 1.

Single polynomial with chosen variable: Chosen polynomial is p_{18} . No reduction needed.

The triangular system has not been changed.

1.7 Triangulation, step 7

Choosing variable: Trying the variable with index 17.

Variable x_{17} selected: The number of polynomials with this variable, with indexes from 1 to 17, is 1.

Single polynomial with chosen variable: Chosen polynomial is p_{17} . No reduction needed.

The triangular system has not been changed.

1.8 Triangulation, step 8

Choosing variable: Trying the variable with index 16.

Variable x_{16} selected: The number of polynomials with this variable, with indexes from 1 to 16, is 1.

Single polynomial with chosen variable: Chosen polynomial is p_{16} . No reduction needed.

The triangular system has not been changed.

1.9 Triangulation, step 9

Choosing variable: Trying the variable with index 15.

Variable x_{15} selected: The number of polynomials with this variable, with indexes from 1 to 15, is 1.

Single polynomial with chosen variable: Chosen polynomial is p_{15} . No reduction needed.

The triangular system has not been changed.

1.10 Triangulation, step 10

Choosing variable: Trying the variable with index 14.

Variable x_{14} selected: The number of polynomials with this variable, with indexes from 1 to 14, is 1.

Single polynomial with chosen variable: Chosen polynomial is p_{14} . No reduction needed.

The triangular system has not been changed.

1.11 Triangulation, step 11

Choosing variable: Trying the variable with index 13.

Variable x_{13} selected: The number of polynomials with this variable, with indexes from 1 to 13, is 1.

Single polynomial with chosen variable: Chosen polynomial is p_{13} . No reduction needed.

The triangular system has not been changed.

1.12 Triangulation, step 12

Choosing variable: Trying the variable with index 12.

Variable x_{12} selected: The number of polynomials with this variable, with indexes from 1 to 12, is 2.

Minimal degrees: 2 polynomial(s) with degree 1.

Polynomial with linear degree: Removing variable x_{12} from all other polynomials by reducing them with polynomial p_{11} from previous step.

Finished a triangulation step, the current system is:

$$\begin{aligned} p_1 &= -x_3 + x_1 \\ p_2 &= -x_3 + x_2 \\ p_3 &= x_4 + x_1 - \\ p_4 &= -x_4 + x_2 \\ p_5 &= -x_7 + x_5 \\ p_6 &= -x_7 + x_6 \\ p_7 &= -x_8 + x_5 \\ p_8 &= x_8 + x_6 - \\ p_9 &= -x_{11} + x_9 \\ p_{10} &= -x_{11} + x_{10} \\ p_{11} &= -x_{10} - x_9 + 1 \\ p_{12} &= -x_{12} + x_9 \end{aligned}$$

$$\begin{aligned}
p_{13} &= x_{13} + x_{10}x_2 + x_9x_6 - x_6x_2 \\
p_{14} &= x_{14} + x_{10}x_5 - x_{10}x_1 + x_6x_1 \\
p_{15} &= x_{15} - x_9x_5 + x_9x_1 + x_5x_2 \\
p_{16} &= x_{16} + x_{14}x_2 + x_{13}x_1 \\
p_{17} &= x_{17} + 1 \\
p_{18} &= x_{18} + 1 \\
p_{19} &= x_{19} + 1 \\
p_{20} &= -x_{20}x_{19}x_{17}x_{15} - x_{20}x_{18}x_{17}x_{14} - x_{20}x_{17}^2x_{13} - x_{17}^2x_{16} \\
p_{21} &= -x_{21}x_{17} + x_{20}x_{18} \\
p_{22} &= x_{22}x_{15} + x_{21}x_{14} + x_{20}x_{13} + x_{16} \\
p_{23} &= -x_{23}x_{17} + x_{20}
\end{aligned}$$

1.13 Triangulation, step 13

Choosing variable: Trying the variable with index 11.

Variable x_{11} selected: The number of polynomials with this variable, with indexes from 1 to 11, is 2.

Minimal degrees: 2 polynomial(s) with degree 1.

Polynomial with linear degree: Removing variable x_{11} from all other polynomials by reducing them with polynomial p_9 from previous step.

Finished a triangulation step, the current system is:

$$\begin{aligned}
p_1 &= -x_3 + x_1 \\
p_2 &= -x_3 + x_2 \\
p_3 &= x_4 + x_1 - \\
p_4 &= -x_4 + x_2 \\
p_5 &= -x_7 + x_5 \\
p_6 &= -x_7 + x_6 \\
p_7 &= -x_8 + x_5 \\
p_8 &= x_8 + x_6 - \\
p_9 &= -x_{10} - x_9 + 1 \\
p_{10} &= -x_{10} + x_9 \\
p_{11} &= -x_{11} + x_9 \\
p_{12} &= -x_{12} + x_9 \\
p_{13} &= x_{13} + x_{10}x_2 + x_9x_6 - x_6x_2 \\
p_{14} &= x_{14} + x_{10}x_5 - x_{10}x_1 + x_6x_1 \\
p_{15} &= x_{15} - x_9x_5 + x_9x_1 + x_5x_2 \\
p_{16} &= x_{16} + x_{14}x_2 + x_{13}x_1 \\
p_{17} &= x_{17} + 1 \\
p_{18} &= x_{18} + 1
\end{aligned}$$

$$\begin{aligned}
p_{19} &= x_{19} + 1 \\
p_{20} &= -x_{20}x_{19}x_{17}x_{15} - x_{20}x_{18}x_{17}x_{14} - x_{20}x_{17}^2x_{13} - x_{17}^2x_{16} \\
p_{21} &= -x_{21}x_{17} + x_{20}x_{18} \\
p_{22} &= x_{22}x_{15} + x_{21}x_{14} + x_{20}x_{13} + x_{16} \\
p_{23} &= -x_{23}x_{17} + x_{20}
\end{aligned}$$

1.14 Triangulation, step 14

Choosing variable: Trying the variable with index 10.

Variable x_{10} selected: The number of polynomials with this variable, with indexes from 1 to 10, is 2.

Minimal degrees: 2 polynomial(s) with degree 1.

Polynomial with linear degree: Removing variable x_{10} from all other polynomials by reducing them with polynomial p_9 from previous step.

Finished a triangulation step, the current system is:

$$\begin{aligned}
p_1 &= -x_3 + x_1 \\
p_2 &= -x_3 + x_2 \\
p_3 &= x_4 + x_1 - \\
p_4 &= -x_4 + x_2 \\
p_5 &= -x_7 + x_5 \\
p_6 &= -x_7 + x_6 \\
p_7 &= -x_8 + x_5 \\
p_8 &= x_8 + x_6 - \\
p_9 &= -2x_9 + 1 \\
p_{10} &= -x_{10} - x_9 + 1 \\
p_{11} &= -x_{11} + x_9 \\
p_{12} &= -x_{12} + x_9 \\
p_{13} &= x_{13} + x_{10}x_2 + x_9x_6 - x_6x_2 \\
p_{14} &= x_{14} + x_{10}x_5 - x_{10}x_1 + x_6x_1 \\
p_{15} &= x_{15} - x_9x_5 + x_9x_1 + x_5x_2 \\
p_{16} &= x_{16} + x_{14}x_2 + x_{13}x_1 \\
p_{17} &= x_{17} + 1 \\
p_{18} &= x_{18} + 1 \\
p_{19} &= x_{19} + 1 \\
p_{20} &= -x_{20}x_{19}x_{17}x_{15} - x_{20}x_{18}x_{17}x_{14} - x_{20}x_{17}^2x_{13} - x_{17}^2x_{16} \\
p_{21} &= -x_{21}x_{17} + x_{20}x_{18} \\
p_{22} &= x_{22}x_{15} + x_{21}x_{14} + x_{20}x_{13} + x_{16} \\
p_{23} &= -x_{23}x_{17} + x_{20}
\end{aligned}$$

1.15 Triangulation, step 15

Choosing variable: Trying the variable with index 9.

Variable x_9 selected: The number of polynomials with this variable, with indexes from 1 to 9, is 1.

Single polynomial with chosen variable: Chosen polynomial is p_9 . No reduction needed.

The triangular system has not been changed.

1.16 Triangulation, step 16

Choosing variable: Trying the variable with index 8.

Variable x_8 selected: The number of polynomials with this variable, with indexes from 1 to 8, is 2.

Minimal degrees: 2 polynomial(s) with degree 1.

Polynomial with linear degree: Removing variable x_8 from all other polynomials by reducing them with polynomial p_7 from previous step.

Finished a triangulation step, the current system is:

$$\begin{aligned} p_1 &= -x_3 + x_1 \\ p_2 &= -x_3 + x_2 \\ p_3 &= x_4 + x_1 - \\ p_4 &= -x_4 + x_2 \\ p_5 &= -x_7 + x_5 \\ p_6 &= -x_7 + x_6 \\ p_7 &= -x_6 - x_5 + 1 \\ p_8 &= -x_8 + x_5 \\ p_9 &= -2x_9 + 1 \\ p_{10} &= -x_{10} - x_9 + 1 \\ p_{11} &= -x_{11} + x_9 \\ p_{12} &= -x_{12} + x_9 \\ p_{13} &= x_{13} + x_{10}x_2 + x_9x_6 - x_6x_2 \\ p_{14} &= x_{14} + x_{10}x_5 - x_{10}x_1 + x_6x_1 \\ p_{15} &= x_{15} - x_9x_5 + x_9x_1 + x_5x_2 \\ p_{16} &= x_{16} + x_{14}x_2 + x_{13}x_1 \\ p_{17} &= x_{17} + 1 \\ p_{18} &= x_{18} + 1 \\ p_{19} &= x_{19} + 1 \\ p_{20} &= -x_{20}x_{19}x_{17}x_{15} - x_{20}x_{18}x_{17}x_{14} - x_{20}x_{17}^2x_{13} - x_{17}^2x_{16} \\ p_{21} &= -x_{21}x_{17} + x_{20}x_{18} \end{aligned}$$

$$\begin{aligned}
p_{22} &= x_{22}x_{15} + x_{21}x_{14} + x_{20}x_{13} + x_{16} \\
p_{23} &= -x_{23}x_{17} + x_{20}
\end{aligned}$$

1.17 Triangulation, step 17

Choosing variable: Trying the variable with index 7.

Variable x_7 selected: The number of polynomials with this variable, with indexes from 1 to 7, is 2.

Minimal degrees: 2 polynomial(s) with degree 1.

Polynomial with linear degree: Removing variable x_7 from all other polynomials by reducing them with polynomial p_5 from previous step.

Finished a triangulation step, the current system is:

$$\begin{aligned}
p_1 &= -x_3 + x_1 \\
p_2 &= -x_3 + x_2 \\
p_3 &= x_4 + x_1 - \\
p_4 &= -x_4 + x_2 \\
p_5 &= -x_6 - x_5 + 1 \\
p_6 &= -x_6 + x_5 \\
p_7 &= -x_7 + x_5 \\
p_8 &= -x_8 + x_5 \\
p_9 &= -2x_9 + 1 \\
p_{10} &= -x_{10} - x_9 + 1 \\
p_{11} &= -x_{11} + x_9 \\
p_{12} &= -x_{12} + x_9 \\
p_{13} &= x_{13} + x_{10}x_2 + x_9x_6 - x_6x_2 \\
p_{14} &= x_{14} + x_{10}x_5 - x_{10}x_1 + x_6x_1 \\
p_{15} &= x_{15} - x_9x_5 + x_9x_1 + x_5x_2 \\
p_{16} &= x_{16} + x_{14}x_2 + x_{13}x_1 \\
p_{17} &= x_{17} + 1 \\
p_{18} &= x_{18} + 1 \\
p_{19} &= x_{19} + 1 \\
p_{20} &= -x_{20}x_{19}x_{17}x_{15} - x_{20}x_{18}x_{17}x_{14} - x_{20}x_{17}^2x_{13} - x_{17}^2x_{16} \\
p_{21} &= -x_{21}x_{17} + x_{20}x_{18} \\
p_{22} &= x_{22}x_{15} + x_{21}x_{14} + x_{20}x_{13} + x_{16} \\
p_{23} &= -x_{23}x_{17} + x_{20}
\end{aligned}$$

1.18 Triangulation, step 18

Choosing variable: Trying the variable with index 6.

Variable x_6 selected: The number of polynomials with this variable, with indexes from 1 to 6, is 2.

Minimal degrees: 2 polynomial(s) with degree 1.

Polynomial with linear degree: Removing variable x_6 from all other polynomials by reducing them with polynomial p_5 from previous step.

Finished a triangulation step, the current system is:

$$\begin{aligned}
p_1 &= -x_3 + x_1 \\
p_2 &= -x_3 + x_2 \\
p_3 &= x_4 + x_1 - \\
p_4 &= -x_4 + x_2 \\
p_5 &= -2x_5 + 1 \\
p_6 &= -x_6 - x_5 + 1 \\
p_7 &= -x_7 + x_5 \\
p_8 &= -x_8 + x_5 \\
p_9 &= -2x_9 + 1 \\
p_{10} &= -x_{10} - x_9 + 1 \\
p_{11} &= -x_{11} + x_9 \\
p_{12} &= -x_{12} + x_9 \\
p_{13} &= x_{13} + x_{10}x_2 + x_9x_6 - x_6x_2 \\
p_{14} &= x_{14} + x_{10}x_5 - x_{10}x_1 + x_6x_1 \\
p_{15} &= x_{15} - x_9x_5 + x_9x_1 + x_5x_2 \\
p_{16} &= x_{16} + x_{14}x_2 + x_{13}x_1 \\
p_{17} &= x_{17} + 1 \\
p_{18} &= x_{18} + 1 \\
p_{19} &= x_{19} + 1 \\
p_{20} &= -x_{20}x_{19}x_{17}x_{15} - x_{20}x_{18}x_{17}x_{14} - x_{20}x_{17}^2x_{13} - x_{17}^2x_{16} \\
p_{21} &= -x_{21}x_{17} + x_{20}x_{18} \\
p_{22} &= x_{22}x_{15} + x_{21}x_{14} + x_{20}x_{13} + x_{16} \\
p_{23} &= -x_{23}x_{17} + x_{20}
\end{aligned}$$

1.19 Triangulation, step 19

Choosing variable: Trying the variable with index 5.

Variable x_5 selected: The number of polynomials with this variable, with indexes from 1 to 5, is 1.

Single polynomial with chosen variable: Chosen polynomial is p_5 . No reduction needed.

The triangular system has not been changed.

1.20 Triangulation, step 20

Choosing variable: Trying the variable with index 4.

Variable x_4 selected: The number of polynomials with this variable, with indexes from 1 to 4, is 2.

Minimal degrees: 2 polynomial(s) with degree 1.

Polynomial with linear degree: Removing variable x_4 from all other polynomials by reducing them with polynomial p_3 from previous step.

Finished a triangulation step, the current system is:

$$\begin{aligned} p_1 &= -x_3 + x_1 \\ p_2 &= -x_3 + x_2 \\ p_3 &= x_2 + x_1 - \\ p_4 &= x_4 + x_1 - \\ p_5 &= -2x_5 + 1 \\ p_6 &= -x_6 - x_5 + 1 \\ p_7 &= -x_7 + x_5 \\ p_8 &= -x_8 + x_5 \\ p_9 &= -2x_9 + 1 \\ p_{10} &= -x_{10} - x_9 + 1 \\ p_{11} &= -x_{11} + x_9 \\ p_{12} &= -x_{12} + x_9 \\ p_{13} &= x_{13} + x_{10}x_2 + x_9x_6 - x_6x_2 \\ p_{14} &= x_{14} + x_{10}x_5 - x_{10}x_1 + x_6x_1 \\ p_{15} &= x_{15} - x_9x_5 + x_9x_1 + x_5x_2 \\ p_{16} &= x_{16} + x_{14}x_2 + x_{13}x_1 \\ p_{17} &= x_{17} + 1 \\ p_{18} &= x_{18} + 1 \\ p_{19} &= x_{19} + 1 \\ p_{20} &= -x_{20}x_{19}x_{17}x_{15} - x_{20}x_{18}x_{17}x_{14} - x_{20}x_{17}^2x_{13} - x_{17}^2x_{16} \\ p_{21} &= -x_{21}x_{17} + x_{20}x_{18} \\ p_{22} &= x_{22}x_{15} + x_{21}x_{14} + x_{20}x_{13} + x_{16} \\ p_{23} &= -x_{23}x_{17} + x_{20} \end{aligned}$$

1.21 Triangulation, step 21

Choosing variable: Trying the variable with index 3.

Variable x_3 selected: The number of polynomials with this variable, with indexes from 1 to 3, is 2.

Minimal degrees: 2 polynomial(s) with degree 1.

Polynomial with linear degree: Removing variable x_3 from all other polynomials by reducing them with polynomial p_1 from previous step.

Finished a triangulation step, the current system is:

$$\begin{aligned}
p_1 &= x_2 + x_1 - \\
p_2 &= -x_2 + x_1 \\
p_3 &= -x_3 + x_1 \\
p_4 &= x_4 + x_1 - \\
p_5 &= -2x_5 + 1 \\
p_6 &= -x_6 - x_5 + 1 \\
p_7 &= -x_7 + x_5 \\
p_8 &= -x_8 + x_5 \\
p_9 &= -2x_9 + 1 \\
p_{10} &= -x_{10} - x_9 + 1 \\
p_{11} &= -x_{11} + x_9 \\
p_{12} &= -x_{12} + x_9 \\
p_{13} &= x_{13} + x_{10}x_2 + x_9x_6 - x_6x_2 \\
p_{14} &= x_{14} + x_{10}x_5 - x_{10}x_1 + x_6x_1 \\
p_{15} &= x_{15} - x_9x_5 + x_9x_1 + x_5x_2 \\
p_{16} &= x_{16} + x_{14}x_2 + x_{13}x_1 \\
p_{17} &= x_{17} + 1 \\
p_{18} &= x_{18} + 1 \\
p_{19} &= x_{19} + 1 \\
p_{20} &= -x_{20}x_{19}x_{17}x_{15} - x_{20}x_{18}x_{17}x_{14} - x_{20}x_{17}^2x_{13} - x_{17}^2x_{16} \\
p_{21} &= -x_{21}x_{17} + x_{20}x_{18} \\
p_{22} &= x_{22}x_{15} + x_{21}x_{14} + x_{20}x_{13} + x_{16} \\
p_{23} &= -x_{23}x_{17} + x_{20}
\end{aligned}$$

1.22 Triangulation, step 22

Choosing variable: Trying the variable with index 2.

Variable x_2 selected: The number of polynomials with this variable, with indexes from 1 to 2, is 2.

Minimal degrees: 2 polynomial(s) with degree 1.

Polynomial with linear degree: Removing variable x_2 from all other polynomials by reducing them with polynomial p_1 from previous step.

Finished a triangulation step, the current system is:

$$p_1 = 2x_1 -$$

$$\begin{aligned}
p_2 &= x_2 + x_1 - \\
p_3 &= -x_3 + x_1 \\
p_4 &= x_4 + x_1 - \\
p_5 &= -2x_5 + 1 \\
p_6 &= -x_6 - x_5 + 1 \\
p_7 &= -x_7 + x_5 \\
p_8 &= -x_8 + x_5 \\
p_9 &= -2x_9 + 1 \\
p_{10} &= -x_{10} - x_9 + 1 \\
p_{11} &= -x_{11} + x_9 \\
p_{12} &= -x_{12} + x_9 \\
p_{13} &= x_{13} + x_{10}x_2 + x_9x_6 - x_6x_2 \\
p_{14} &= x_{14} + x_{10}x_5 - x_{10}x_1 + x_6x_1 \\
p_{15} &= x_{15} - x_9x_5 + x_9x_1 + x_5x_2 \\
p_{16} &= x_{16} + x_{14}x_2 + x_{13}x_1 \\
p_{17} &= x_{17} + 1 \\
p_{18} &= x_{18} + 1 \\
p_{19} &= x_{19} + 1 \\
p_{20} &= -x_{20}x_{19}x_{17}x_{15} - x_{20}x_{18}x_{17}x_{14} - x_{20}x_{17}^2x_{13} - x_{17}^2x_{16} \\
p_{21} &= -x_{21}x_{17} + x_{20}x_{18} \\
p_{22} &= x_{22}x_{15} + x_{21}x_{14} + x_{20}x_{13} + x_{16} \\
p_{23} &= -x_{23}x_{17} + x_{20}
\end{aligned}$$

1.23 Triangulation, step 23

Choosing variable: Trying the variable with index 1.

Variable x_1 selected: The number of polynomials with this variable, with indexes from 1 to 1, is 1.

Single polynomial with chosen variable: Chosen polynomial is p_1 . No reduction needed.

The triangular system has not been changed.

The triangular system is:

$$\begin{aligned}
p_1 &= 2x_1 - \\
p_2 &= x_2 + x_1 - \\
p_3 &= -x_3 + x_1 \\
p_4 &= x_4 + x_1 - \\
p_5 &= -2x_5 + 1 \\
p_6 &= -x_6 - x_5 + 1 \\
p_7 &= -x_7 + x_5
\end{aligned}$$

$$\begin{aligned}
p_8 &= -x_8 + x_5 \\
p_9 &= -2x_9 + 1 \\
p_{10} &= -x_{10} - x_9 + 1 \\
p_{11} &= -x_{11} + x_9 \\
p_{12} &= -x_{12} + x_9 \\
p_{13} &= x_{13} + x_{10}x_2 + x_9x_6 - x_6x_2 \\
p_{14} &= x_{14} + x_{10}x_5 - x_{10}x_1 + x_6x_1 \\
p_{15} &= x_{15} - x_9x_5 + x_9x_1 + x_5x_2 \\
p_{16} &= x_{16} + x_{14}x_2 + x_{13}x_1 \\
p_{17} &= x_{17} + 1 \\
p_{18} &= x_{18} + 1 \\
p_{19} &= x_{19} + 1 \\
p_{20} &= -x_{20}x_{19}x_{17}x_{15} - x_{20}x_{18}x_{17}x_{14} - x_{20}x_{17}^2x_{13} - x_{17}^2x_{16} \\
p_{21} &= -x_{21}x_{17} + x_{20}x_{18} \\
p_{22} &= x_{22}x_{15} + x_{21}x_{14} + x_{20}x_{13} + x_{16} \\
p_{23} &= -x_{23}x_{17} + x_{20}
\end{aligned}$$

2 Final Remainder

2.1 Final remainder for conjecture geothm_zadatak

Calculating final remainder of the conclusion:

$$g = 9x_{22}^2 + 9x_{21}^2 + 9x_{20}^2 - 3$$

with respect to the triangular system.

1. Pseudo remainder with p_{23} over variable x_{23} :

$$g = 9x_{22}^2 + 9x_{21}^2 + 9x_{20}^2 - 3$$

2. Pseudo remainder with p_{22} over variable x_{22} :

$$\begin{aligned}
g &= 9x_{21}^2x_{15}^2 + 9x_{21}^2x_{14}^2 + 18x_{21}x_{20}x_{14}x_{13} + 18x_{21}x_{16}x_{14} + \\
&\quad 9x_{20}^2x_{15}^2 + 9x_{20}^2x_{13}^2 + 18x_{20}x_{16}x_{13} + 9x_{16}^2 - 3x_{15}^2
\end{aligned}$$

3. Pseudo remainder with p_{21} over variable x_{21} :

$$\begin{aligned}
g &= 9x_{20}^2x_{18}^2x_{15}^2 + 9x_{20}^2x_{18}^2x_{14}^2 + \\
&\quad 18x_{20}^2x_{18}x_{17}x_{14}x_{13} + 9x_{20}^2x_{17}^2x_{15}^2 + \\
&\quad 9x_{20}^2x_{17}^2x_{13}^2 + 18x_{20}x_{18}x_{17}x_{16}x_{14} + \\
&\quad 18x_{20}x_{17}^2x_{16}x_{13} + 9x_{17}^2x_{16}^2 - 3x_{17}^2x_{15}^2
\end{aligned}$$

4. Pseudo remainder with p_{20} over variable x_{20} :

$$\begin{aligned}
g = & 9x_{19}^2x_{17}^4x_{16}^2x_{15}^2 - 3x_{19}^2x_{17}^4x_{15}^4 \\
& - 6x_{19}x_{18}x_{17}^4x_{15}^3x_{14} - 6x_{19}x_{17}^5x_{15}^3x_{13} + \\
& 9x_{18}^2x_{17}^4x_{16}^2x_{15}^2 - 3x_{18}^2x_{17}^4x_{15}^2x_{14}^2 \\
& - 6x_{18}x_{17}^5x_{15}^2x_{14}x_{13} + 9x_{17}^6x_{16}^2x_{15}^2 \\
& - 3x_{17}^6x_{15}^2x_{13}^2
\end{aligned}$$

5. Pseudo remainder with p_{19} over variable x_{19} :

$$\begin{aligned}
g = & 9x_{18}^2x_{17}^4x_{16}^2x_{15}^2 - 3x_{18}^2x_{17}^4x_{15}^2x_{14}^2 \\
& - 6x_{18}x_{17}^5x_{15}^2x_{14}x_{13} + 6x_{18}x_{17}^4x_{15}^3x_{14} + \\
& 9x_{17}^6x_{16}^2x_{15}^2 - 3x_{17}^6x_{15}^2x_{13}^2 + 6x_{17}^5x_{15}^3x_{13} + \\
& 9x_{17}^4x_{16}^2x_{15}^2 - 3x_{17}^4x_{15}^4
\end{aligned}$$

6. Pseudo remainder with p_{18} over variable x_{18} :

$$\begin{aligned}
g = & 9x_{17}^6x_{16}^2x_{15}^2 - 3x_{17}^6x_{15}^2x_{13}^2 + 6x_{17}^5x_{15}^3x_{13} + \\
& 6x_{17}^5x_{15}^2x_{14}x_{13} + 18x_{17}^4x_{16}^2x_{15}^2 - 3x_{17}^4x_{15}^4 \\
& - 6x_{17}^4x_{15}^3x_{14} - 3x_{17}^4x_{15}^2x_{14}^2
\end{aligned}$$

7. Pseudo remainder with p_{17} over variable x_{17} :

$$\begin{aligned}
g = & 27x_{16}^2x_{15}^2 - 3x_{15}^4 - 6x_{15}^3x_{14} - 6x_{15}^3x_{13} \\
& - 3x_{15}^2x_{14}^2 - 6x_{15}^2x_{14}x_{13} - 3x_{15}^2x_{13}^2
\end{aligned}$$

8. Pseudo remainder with p_{16} over variable x_{16} :

$$\begin{aligned}
g = & -3x_{15}^4 - 6x_{15}^3x_{14} - 6x_{15}^3x_{13} + 27x_{15}^2x_{14}^2x_2^2 \\
& - 3x_{15}^2x_{14}^2 + 54x_{15}^2x_{14}x_{13}x_2x_1 - 6x_{15}^2x_{14}x_{13} + \\
& 27x_{15}^2x_{13}^2x_1^2 - 3x_{15}^2x_{13}^2
\end{aligned}$$

9. Pseudo remainder with p_{15} over variable x_{15} :

Polynomial too big for output (text size is 2459 characters, number of terms is 71)

10. Pseudo remainder with p_{14} over variable x_{14} :

Polynomial too big for output (text size is 5536 characters, number of terms is 145)

11. Pseudo remainder with p_{13} over variable x_{13} :

Polynomial too big for output (text size is 6180 characters, number of terms is 166)

12. Pseudo remainder with p_{12} over variable x_{12} :
Polynomial too big for output (text size is 6180 characters, number of terms is 166)
13. Pseudo remainder with p_{11} over variable x_{11} :
Polynomial too big for output (text size is 6180 characters, number of terms is 166)
14. Pseudo remainder with p_{10} over variable x_{10} :
Polynomial too big for output (text size is 6970 characters, number of terms is 209)
15. Pseudo remainder with p_9 over variable x_9 :

$$\begin{aligned}
g = & -48x_6^2x_5^2x_2^4 + 96x_6^2x_5^2x_2^3x_1 + \\
& 96x_6^2x_5^2x_2^3 + 60x_6^2x_5^2x_2^2x_1^2 \\
& -144x_6^2x_5^2x_2^2x_1 - 72x_6^2x_5^2x_2^2 \\
& -60x_6^2x_5^2x_2x_1^2 + 72x_6^2x_5^2x_2x_1 + 24x_6^2x_5^2x_2 + \\
& 15x_6^2x_5^2x_1^2 - 12x_6^2x_5^2x_1 - 3x_6^2x_5^2 \\
& -48x_6^2x_5x_2^3x_1 + 96x_6^2x_5x_2^2x_1^2 + \\
& 72x_6^2x_5x_2^2x_1 + 60x_6^2x_5x_2x_1^3 \\
& -96x_6^2x_5x_2x_1^2 - 36x_6^2x_5x_2x_1 - 30x_6^2x_5x_1^3 + \\
& 24x_6^2x_5x_1^2 + 6x_6^2x_5x_1 - 12x_6^2x_2^2x_1^2 + \\
& 24x_6^2x_2x_1^3 + 12x_6^2x_2x_1^2 + 15x_6^2x_1^4 \\
& -12x_6^2x_1^3 - 3x_6^2x_1^2 + 96x_6x_5^3x_2^4 + \\
& 120x_6x_5^3x_2^3x_1 - 144x_6x_5^3x_2^3 - 120x_6x_5^3x_2^2x_1 + \\
& 72x_6x_5^3x_2^2 + 30x_6x_5^3x_2x_1 - 12x_6x_5^3x_2 + \\
& 48x_6x_5^2x_2^4 + 48x_6x_5^2x_2^3x_1 - 72x_6x_5^2x_2^3 + \\
& 120x_6x_5^2x_2^2x_1^2 - 48x_6x_5^2x_2^2x_1 + \\
& 36x_6x_5^2x_2^2 - 60x_6x_5^2x_2x_1^2 + 12x_6x_5^2x_2x_1 \\
& -6x_6x_5^2x_2 + 48x_6x_5x_2^3x_1 - 24x_6x_5x_2^2x_1^2 \\
& -48x_6x_5x_2^2x_1 + 30x_6x_5x_2x_1^3 + 12x_6x_5x_2x_1^2 + \\
& 12x_6x_5x_2x_1 + 12x_6x_2^2x_1^2 - 12x_6x_2x_1^3 - 6x_6x_2x_1^2 + \\
& 60x_5^4x_2^4 - 60x_5^4x_2^3 + 15x_5^4x_2^2 - 48x_5^3x_2^4 + \\
& 60x_5^3x_2^3x_1 + 48x_5^3x_2^3 - 30x_5^3x_2^2x_1 \\
& -12x_5^3x_2^2 - 12x_5^2x_2^4 - 48x_5^2x_2^3x_1 + 12x_5^2x_2^3 + \\
& 15x_5^2x_2^2x_1^2 + 24x_5^2x_2^2x_1 - 3x_5^2x_2^2 \\
& -12x_5x_2^3x_1 - 12x_5x_2^2x_1^2 + 6x_5x_2^2x_1 - 3x_2^2x_1^2
\end{aligned}$$

16. Pseudo remainder with p_8 over variable x_8 :

$$g = -48x_6^2x_5^2x_2^4 + 96x_6^2x_5^2x_2^3x_1 +$$

$$\begin{aligned}
& 96x_6^2x_5^2x_2^3 + 60x_6^2x_5^2x_2^2x_1^2 \\
& -144x_6^2x_5^2x_2^2x_1 - 72x_6^2x_5^2x_2^2 \\
& -60x_6^2x_5^2x_2x_1^2 + 72x_6^2x_5^2x_2x_1 + 24x_6^2x_5^2x_2 + \\
& 15x_6^2x_5^2x_1^2 - 12x_6^2x_5^2x_1 - 3x_6^2x_5^2 \\
& -48x_6^2x_5x_2^3x_1 + 96x_6^2x_5x_2^2x_1^2 + \\
& 72x_6^2x_5x_2^2x_1 + 60x_6^2x_5x_2x_1^3 \\
& -96x_6^2x_5x_2x_1^2 - 36x_6^2x_5x_2x_1 - 30x_6^2x_5x_1^3 + \\
& 24x_6^2x_5x_1^2 + 6x_6^2x_5x_1 - 12x_6^2x_2^2x_1^2 + \\
& 24x_6^2x_2x_1^3 + 12x_6^2x_2x_1^2 + 15x_6^2x_1^4 \\
& -12x_6^2x_1^3 - 3x_6^2x_1^2 + 96x_6x_5^3x_2^4 + \\
& 120x_6x_5^3x_2^3x_1 - 144x_6x_5^3x_2^3 - 120x_6x_5^3x_2^2x_1 + \\
& 72x_6x_5^3x_2^2 + 30x_6x_5^3x_2x_1 - 12x_6x_5^3x_2 + \\
& 48x_6x_5^2x_2^4 + 48x_6x_5^2x_2^3x_1 - 72x_6x_5^2x_2^3 + \\
& 120x_6x_5^2x_2^2x_1^2 - 48x_6x_5^2x_2^2x_1 + \\
& 36x_6x_5^2x_2^2 - 60x_6x_5^2x_2x_1^2 + 12x_6x_5^2x_2x_1 \\
& -6x_6x_5^2x_2 + 48x_6x_5x_2^3x_1 - 24x_6x_5x_2^2x_1^2 \\
& -48x_6x_5x_2^2x_1 + 30x_6x_5x_2x_1^3 + 12x_6x_5x_2x_1^2 + \\
& 12x_6x_5x_2x_1 + 12x_6x_2^2x_1^2 - 12x_6x_2x_1^3 - 6x_6x_2x_1^2 + \\
& 60x_5^4x_2^4 - 60x_5^4x_2^3 + 15x_5^4x_2^2 - 48x_5^3x_2^4 + \\
& 60x_5^3x_2^3x_1 + 48x_5^3x_2^3 - 30x_5^3x_2^2x_1 \\
& -12x_5^3x_2^2 - 12x_5^2x_2^4 - 48x_5^2x_2^3x_1 + 12x_5^2x_2^3 + \\
& 15x_5^2x_2^2x_1^2 + 24x_5^2x_2^2x_1 - 3x_5^2x_2^2 \\
& -12x_5x_2^3x_1 - 12x_5x_2^2x_1^2 + 6x_5x_2^2x_1 - 3x_2^2x_1^2
\end{aligned}$$

17. Pseudo remainder with p_7 over variable x_7 :

$$\begin{aligned}
g = & -48x_6^2x_5^2x_2^4 + 96x_6^2x_5^2x_2^3x_1 + \\
& 96x_6^2x_5^2x_2^3 + 60x_6^2x_5^2x_2^2x_1^2 \\
& -144x_6^2x_5^2x_2^2x_1 - 72x_6^2x_5^2x_2^2 \\
& -60x_6^2x_5^2x_2x_1^2 + 72x_6^2x_5^2x_2x_1 + 24x_6^2x_5^2x_2 + \\
& 15x_6^2x_5^2x_1^2 - 12x_6^2x_5^2x_1 - 3x_6^2x_5^2 \\
& -48x_6^2x_5x_2^3x_1 + 96x_6^2x_5x_2^2x_1^2 + \\
& 72x_6^2x_5x_2^2x_1 + 60x_6^2x_5x_2x_1^3 \\
& -96x_6^2x_5x_2x_1^2 - 36x_6^2x_5x_2x_1 - 30x_6^2x_5x_1^3 + \\
& 24x_6^2x_5x_1^2 + 6x_6^2x_5x_1 - 12x_6^2x_2^2x_1^2 + \\
& 24x_6^2x_2x_1^3 + 12x_6^2x_2x_1^2 + 15x_6^2x_1^4 \\
& -12x_6^2x_1^3 - 3x_6^2x_1^2 + 96x_6x_5^3x_2^4 + \\
& 120x_6x_5^3x_2^3x_1 - 144x_6x_5^3x_2^3 - 120x_6x_5^3x_2^2x_1 + \\
& 72x_6x_5^3x_2^2 + 30x_6x_5^3x_2x_1 - 12x_6x_5^3x_2 + \\
& 48x_6x_5^2x_2^4 + 48x_6x_5^2x_2^3x_1 - 72x_6x_5^2x_2^3 +
\end{aligned}$$

$$\begin{aligned}
& 120x_6x_5^2x_2^2x_1^2 - 48x_6x_5^2x_2^2x_1 + \\
& 36x_6x_5^2x_2^2 - 60x_6x_5^2x_2x_1^2 + 12x_6x_5^2x_2x_1 \\
& - 6x_6x_5^2x_2 + 48x_6x_5x_2^3x_1 - 24x_6x_5x_2^2x_1^2 \\
& - 48x_6x_5x_2^2x_1 + 30x_6x_5x_2x_1^3 + 12x_6x_5x_2x_1^2 + \\
& 12x_6x_5x_2x_1 + 12x_6x_2^2x_1^2 - 12x_6x_2x_1^3 - 6x_6x_2x_1^2 + \\
& 60x_5^4x_2^4 - 60x_5^4x_2^3 + 15x_5^4x_2^2 - 48x_5^3x_2^4 + \\
& 60x_5^3x_2^3x_1 + 48x_5^3x_2^3 - 30x_5^3x_2^2x_1 \\
& - 12x_5^3x_2^2 - 12x_5^2x_2^4 - 48x_5^2x_2^3x_1 + 12x_5^2x_2^3 + \\
& 15x_5^2x_2^2x_1^2 + 24x_5^2x_2^2x_1 - 3x_5^2x_2^2 \\
& - 12x_5x_2^3x_1 - 12x_5x_2^2x_1^2 + 6x_5x_2^2x_1 - 3x_2^2x_1^2
\end{aligned}$$

18. Pseudo remainder with p_6 over variable x_6 :

$$\begin{aligned}
g = & -84x_5^4x_2^4 - 24x_5^4x_2^3x_1 + 180x_5^4x_2^3 + \\
& 60x_5^4x_2^2x_1^2 - 24x_5^4x_2^2x_1 - 129x_5^4x_2^2 \\
& - 60x_5^4x_2x_1^2 + 42x_5^4x_2x_1 + 36x_5^4x_2 + 15x_5^4x_1^2 \\
& - 12x_5^4x_1 - 3x_5^4 + 96x_5^3x_2^4 - 108x_5^3x_2^3x_1 \\
& - 216x_5^3x_2^3 - 144x_5^3x_2^2x_1^2 + 258x_5^3x_2^2x_1 + \\
& 168x_5^3x_2^2 + 60x_5^3x_2x_1^3 + 84x_5^3x_2x_1^2 \\
& - 162x_5^3x_2x_1 - 54x_5^3x_2 - 30x_5^3x_1^3 - 6x_5^3x_1^2 + \\
& 30x_5^3x_1 + 6x_5^3 - 12x_5^2x_2^4 + 144x_5^2x_2^3x_1 + \\
& 36x_5^2x_2^3 + 15x_5^2x_2^2x_1^2 - 264x_5^2x_2^2x_1 \\
& - 39x_5^2x_2^2 - 126x_5^2x_2x_1^3 + 72x_5^2x_2x_1^2 + \\
& 144x_5^2x_2x_1 + 18x_5^2x_2 + 15x_5^2x_1^4 + 48x_5^2x_1^3 \\
& - 36x_5^2x_1^2 - 24x_5^2x_1 - 3x_5^2 - 12x_5x_2^3x_1 + \\
& 72x_5x_2^2x_1^2 + 30x_5x_2^2x_1 + 54x_5x_2x_1^3 - 102x_5x_2x_1^2 \\
& - 24x_5x_2x_1 - 30x_5x_1^4 - 6x_5x_1^3 + 30x_5x_1^2 + 6x_5x_1 \\
& - 3x_2^2x_1^2 + 12x_2x_1^3 + 6x_2x_1^2 + 15x_1^4 - 12x_1^3 - 3x_1^2
\end{aligned}$$

19. Pseudo remainder with p_5 over variable x_5 :

$$\begin{aligned}
g = & 60x_2^4 + 240x_2^3x_1 - 108x_2^3 + 360x_2^2x_1^2 - 324x_2^2x_1 + \\
& 51x_2^2 + 240x_2x_1^3 - 324x_2x_1^2 + 102x_2x_1 + 60x_1^4 - 108x_1^3 + \\
& 51x_1^2 - 3
\end{aligned}$$

20. Pseudo remainder with p_4 over variable x_4 :

$$\begin{aligned}
g = & 60x_2^4 + 240x_2^3x_1 - 108x_2^3 + 360x_2^2x_1^2 - 324x_2^2x_1 + \\
& 51x_2^2 + 240x_2x_1^3 - 324x_2x_1^2 + 102x_2x_1 + 60x_1^4 - 108x_1^3 + \\
& 51x_1^2 - 3
\end{aligned}$$

21. Pseudo remainder with p_3 over variable x_3 :

$$\begin{aligned} g = & 60x_2^4 + 240x_2^3x_1 - 108x_2^3 + 360x_2^2x_1^2 - 324x_2^2x_1 + \\ & 51x_2^2 + 240x_2x_1^3 - 324x_2x_1^2 + 102x_2x_1 + 60x_1^4 - 108x_1^3 + \\ & 51x_1^2 - 3 \end{aligned}$$

22. Pseudo remainder with p_2 over variable x_2 :

$$g = 0$$

23. Pseudo remainder with p_1 over variable x_1 :

$$g = 0$$

3 Prover results

Status: Theorem has been proved.

Space Complexity: The biggest polynomial obtained during prover execution contains 209 terms.

Time Complexity: Time spent by the prover is 0.212 seconds.

4 NDG Conditions

NDG Conditions in readable form

- Failed to translate NDG Conditions to readable form