OpenGeoProver Output for conjecture "geothm_zadatak"

Wu's method used

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1 Invoking the theorem prover

The used proving method is Wu's method.

The input system is:

$$p_1 \quad = \quad 2x_2 - x_1$$

1.1 Triangulation, step 1

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:

$$p_1 \quad = \quad 2x_2 - x_1$$

2 Final Remainder

2.1 Final remainder for conjecture geothm_zadatak

Calculating final remainder of the conclusion:

$$g \quad = \quad 4x_2^2 - x_1^2$$

with respect to the triangular system.

1. Pseudo remainder with p_1 over variable x_1:

$$g \quad = \quad 0$$

3 Prover results

Status: Theorem has been proved.

Space Complexity: The biggest polynomial obtained during prover execution contains 2 terms.

Time Complexity: Time spent by the prover is 0.013 seconds.

4 NDG Conditions

NDG Conditions in readable form

- There are no NDG conditions for this theorem