# 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:

$$p_1 = 3x_2 - x_1$$

#### 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:

$$p_1 = 3x_2 - x_1$$

#### 2 Final Remainder

#### 2.1 Final remainder for conjecture geothm\_zadatak

Calculating final remainder of the conclusion:

$$g = 9x_2^2 - x_1^2$$

with respect to the triangular system.

1. 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 2 terms.

**Time Complexity:** Time spent by the prover is 0.007 seconds.

## 4 NDG Conditions

#### NDG Conditions in readable form

• There are no NDG conditions for this theorem