

# Gauss

marcos

February 5, 2022

## Contents

<b>1 Gauss</b>	<b>1</b>
1.1 Features: . . . . .	1
1.1.1 Creation of algebraic expressions . . . . .	1

## 1 Gauss

Gauss is a algebraic system written in C++

### 1.1 Features:

#### 1.1.1 Creation of algebraic expressions

```
#include <Algebra/Expressio.hpp>
```

```
expr x = symbol("x");  
expr y = symbol("y");
```

```
expr a = 4*pow(x, 2) + 4*x + 13;  
expr b = 6*pow(x,3)*y + 5*pow(y,2) + x*y;
```

TODO:

- Add Integration Algorithms
- Add Simplification of algebraic expressions
- Add Type inference for algebraic expressions
- Improve memory movement