

# How can I use the IMAGINARY function in Google Sheets?

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## RECOMMENDED CITATION

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The IMAGINARY function in Google Sheets allows users to compute the imaginary coefficient of a complex number. This function can be used in various mathematical operations, such as addition, subtraction, multiplication, and division, to simplify complex calculations involving imaginary numbers. By entering the real and imaginary coefficients of a complex number as arguments, the IMAGINARY function returns the imaginary component of the number. This feature can be particularly useful for users working with complex data sets or performing advanced mathematical analysis in Google Sheets.

## IMAGINARY

Returns the imaginary coefficient of a complex number.

### Sample Usage

```
IMAGINARY("4+5i")
```

```
IMAGINARY("2j")
```

### Syntax

```
IMAGINARY(complex_number)
```

*complex\_number* - The complex number, in the a+bi or a+bj format.

### See also

**COMPLEX**: The COMPLEX function creates a complex number, given real and imaginary coefficients. **IMREAL**: Returns the real coefficient of a complex number.

### Examples

1	A	B
2	Formula	Result
3	<code>=IMAGINARY("3+5i")</code>	5
4	<code>=IMAGINARY("4j")</code>	4
5	<code>=IMAGINARY("45")</code>	0