

How do I calculate the absolute value of a complex number in Google Sheets?

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To calculate the absolute value of a complex number in Google Sheets, use the ABS function. This function will return the magnitude of the complex number, which is its distance from the origin on the complex plane. Simply enter the complex number as the input for the ABS function and the absolute value will be displayed as the output. This can be useful for various mathematical and engineering calculations involving complex numbers in Google Sheets.

IMABS

Returns the absolute value of a complex number.

Sample Usage

```
IMABS("3+4i")
```

```
IMABS("6j")
```

Syntax

```
IMABS(number)
```

`number` - The complex number to calculate the absolute value of.

Notes

The absolute value (or modulus) is defined as follows:

$$ABS(a+bi) = \sqrt{a^2 + b^2}$$

?

See also

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

Examples

| 1 | A | B |
|---|---------|--------|
| 2 | Formula | Result |

| 1 | A | B |
|---|---|---|
| 3 | <code>=IMABS("3+4i")</code> | 5 |
| 4 | <code>=IMABS(COMPLEX(3, 4, "j"))</code> | 5 |

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