

Description

For Z real, $\text{abs}(Z)$ returns the elementwise absolute values of Z .

For Z complex, $\text{abs}(Z)$ returns the elementwise length of each element. If $Z = a + bi$, returned is $\text{sqrt}(a^2 + b^2)$, although the calculation is not made in that way. The method actually used prevents overflow.

Syntax

real matrix `abs(`*numeric matrix Z*`)`

Conformability

`abs(Z)`:

<i>Z</i> :	$r \times c$
<i>result</i> :	$r \times c$

Diagnostics

`abs(.)` returns . (missing).

Also see

[M-4] [Scalar](#) — Scalar mathematical functions

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