

sqrt() — Square root[Description](#)[Syntax](#)[Conformability](#)[Diagnostics](#)[Also see](#)

Description

`sqrt(Z)` returns the elementwise square root of Z .

Syntax

numeric matrix `sqrt` (*numeric matrix* Z)

Conformability

`sqrt(Z)`

Z: $r \times c$
result: $r \times c$

Diagnostics

`sqrt(Z)` returns missing when Z is real and $Z < 0$; that is, `sqrt(-4) = .` but `sqrt(-4+0i) = 2i`.

Also see

[M-5] [cholesky\(\)](#) — Cholesky square-root decomposition

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