

Info

This note, that [was found here](#), as a part of [a collection](#) is written (completely with human hands) by [Rupadarshi Ray](#), was created on July 7, 2025 12:03:14 PM, was last modified on September 1, 2026 11:43:44 PM, and was exported on September 7, 2026 2:50:40 PM.

SPd(2,ℝ)

#wiki/Man/R/2

By

Proposition: A symmetric 2x2 matrix is positive definite $\iff \operatorname{tr} > 0, \operatorname{det} > 0$

this is the set

$$\operatorname{SPd}(2,\mathbb{R}) = \operatorname{Sym}(2,\mathbb{R}) \cap \{\operatorname{tr} > 0\} \cap \operatorname{SL}(n,\mathbb{R})$$

✓ <https://www.desmos.com/3d/jpvlnfhq5b>

▼

Current note has 0 direct children and 0 total descendants.

- [squishy](#)
 - [Pd](#)
 - [SPd\(2,ℝ\)](#)

And it has 3 siblings.

- [squishy](#)
 - [Pd](#)
 - [Pd\(2,ℝ\)](#)
 - [Pd\(n,ℝ\)](#)
 - [SPd\(2,ℝ\)](#)