

 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 August 20, 2023 2:54:46 PM, was last modified on May 17, 2026 7:36:36 PM, and was exported on September 7, 2026 2:50:38 PM.

$\mathfrak{so}(2, \mathbb{R})$

 Definition.

$$\mathfrak{so}(2, \mathbb{R}) := \{A \in \text{Mat}_{\mathbb{R}}(2) : A^T = -A\}$$

 From

 Definition.

$$\mathfrak{so}(2, \mathbb{R}) := \{A \in \text{Mat}_{\mathbb{R}}(2) : A^T = -A\}$$

we have

$$\mathfrak{so}(2, \mathbb{R}) = \{\theta \begin{bmatrix} 0 & -1 \\ 1 & 0 \end{bmatrix} : \theta \in \mathbb{R}\}$$

Current note has 0 direct children and 0 total descendants.

- [squishy](#)
 - SO
 - $SO(2)(\mathbb{R})$
 - $\mathfrak{so}(2, \mathbb{R})$

And it has 1 siblings.

- [squishy](#)
 - SO
 - $SO(2)(\mathbb{R})$
 - $\mathfrak{so}(2, \mathbb{R})$